

Creating “Our” NHS



Foundation Working Paper

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[\(LinkedIn\)](#)

and The Rose Room Circle

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Dedication

For all who make the NHS possible seen and unseen, named and unnamed.

This work is dedicated — with respect, gratitude and hope — to all those who serve within the National Health Service. To the clinicians, nurses, porters, paramedics, scientists, administrators, cleaners and carers — to everyone who gives their skill, energy and compassion so that others may heal.

You work within constraint, yet embody abundance; you carry systems that too often fail you, yet still uphold the spirit that sustains them.

May this work, in its own way, help to honour your endurance, clarify what burdens you should not have to carry, and re-imagine the system you keep alive each day.

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Foreward

The National Health Service stands today as a vessel cracked by compromise and weakened by constant interference. Its founding fractures—between hospitals, general practice, and local government — were never fully sealed[1]. Decades of political redesign have layered repair upon repair, yet the underlying fissures remain visible and widening (see, for example, [2][3][4].

This paper begins from an acceptance of that reality: the NHS, as it stands, is broken. But brokenness need not mean ruin. In the Japanese art of *Kintsugi*, fragments are not hidden but joined with gold — the act of repair itself becoming a source of strength and meaning.

Our purpose is to apply a similar philosophy of restoration. Rather than concealing the cracks or calling for yet another structural re-organisation, we aim to reveal them as guides: the visible seams of a system that has endured and can yet be made whole.

The method we propose uses a *Kintsugi* lens—reframing the NHS as a *Complex Adaptive System* confronted by a solvable *hierarchy of Wicked Problems*[5]. By doing so, we seek to sustain and renew the Service not through fragmentation and reform, but through stewardship: restoring its founding principles, morale, adaptive capacity and legitimacy.

We hope to create a path whereby the NHS is truly “Ours” — rather than “Ours” in name only as a result.

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The NHS as a modern day Guild

From system to fellowship

The NHS has long been described as a system, an employer, a service, even an economy. Yet beneath those designations lies something older: a fellowship of skill and care. The guild metaphor retrieves this dimension of *shared craft* — a community sustained by standards, mentorship and moral purpose rather than by hierarchy or transaction.

In the medieval sense, a guild joined economic coordination with ethical order. It safeguarded the dignity of work, transmitted expertise through apprenticeship and upheld a covenant between competence and conscience. Seen through this lens, the NHS resembles a *Guild of Care* more than a corporation: its legitimacy arises from trust, not ownership; from vocation, not control.

The craft of care

Modern health care already operates through guild-like dynamics:

- ❖ Knowledge and practice are apprenticed — consultant to registrar, nurse to student.
- ❖ Entry is credentialed, yet identity is earned through emotional and moral labour.
- ❖ Ethical codes substitute for market contracts; the patient is the shared master.

Where bureaucratic systems measure outputs, guilds preserve *meaning*. They remind practitioners that competence without belonging becomes brittle and belonging without competence becomes unsafe.

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What the Guild protects

The Guild model therefore re-centres value in relationship, not transaction.

Threat	Bureaucratic Reflex	Guild Response
Productivity pressure	Proliferation of targets	Renewal of pride in craft and outcome integrity
Workforce burnout	Individual resilience schemes	Restoration of moral community and collective care
Fragmented learning	Mandatory training modules	Revival of apprenticeship chains and situated learning
Erosion of trust	Oversight and audit	Reaffirmation of professional covenant and peer accountability

Governance as stewardship

Traditional guilds governed through *stewardship*—elected masters accountable to peers.

Here, learning is not imposed but *crafted* through dialogue. Institutional memory functions as the collective chronicle of experiments, successes, and failures—the living curriculum of stewardship.

Why the Guild matters now

In an era of industrial fatigue and moral injury, the NHS risks losing its inner glue—the sense of belonging to something noble and mutually sustaining. Re-imagining it as a Guild of Care reconnects technical excellence with moral purpose, restores dignity to service, and rebuilds the social contract between professionals, patients, and the state.

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Perhaps the NHS will not be saved by another reorganisation, but by remembering itself as a guild— a living fellowship of craft, conscience, and care.

Closing Reflection

The guild metaphor reframes the NHS not as a system to be managed but as a culture to be *stewarded*. It invites every participant — clinician, manager and patient — to act as a custodian of shared purpose. In that sense, the NHS already possesses the material of a modern guild: skill, solidarity and story.

What remains is to renew its hall, not its hierarchy.

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The Author

Julian Macnamara began his professional life not in business, but in the classroom. Working as a teacher, his early career was shaped by questions of learning, care, and the quiet architecture of human development. These foundational years instilled something that never left him - a belief that systems - whether educational, technological, or social - should serve people first.

In time, this journey took him beyond education and into the world of commercial systems. He joined Gulf Oil in the 1970s, helping to modernise their planning and forecasting processes. Over the next two decades, he became a bridge between technology and strategy, taking on leadership roles in marketing intelligence, expert systems and organisational design — from Johnnie Walker to Rapidata, Tymshare, and Glandore Associates..

This culminated in nearly two decades at General Motors, where he worked on global transformation initiatives, eventually serving as CIO of Chevrolet Europe and Business Integration Leader for Opel Vauxhall. He became known not just for technical depth, but for moral clarity — ensuring that amidst scale and complexity, systems remained accountable to the people they affected.

When he retired in 2019, he returned - not to the classroom, but to the deeper calling that shaped it: to design spaces for reflection, connection, and recovery. Harnessing the rise of AI, he began to explore how technology could support not just efficiency, but empathy.

Glandore Associates is the outcome of that exploration: a living project that brings together his lifelong passions — for education, ethics, systems and care. It is a place where architecture meets attention, and where the tools of the future are shaped in the image of moral presence.

His work now lives at the frontier: between machine intelligence and human wisdom, between past experience and future possibility - rooted in the values of the teacher he never stopped being.

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Acknowledgement

This work is based on a method for thinking with, rather than through, artificial intelligence called Tychevia®.

It makes extensive use of "Digital Associates" - *distinct epistemic identities*. These are analytical collaborators within the Knowledge Engine.

They interpret evidence, surface patterns and contribute to the evolution of the system itself.

Associates operate as reflective participants, able to reason across domains, trace feedback loops and refine artefacts through dialogue. Their role is interpretive rather than procedural — they extend human judgement rather than replace it.

The Digital Associates most closely associated with Tychevia are collectively referred to as the *Rose Room Circle* - the system's "in-house" agents:

- ❖ **Tenzing** — Named for Tenzing Norgay, the Sherpa who co-summited Everest with Edmund Hillary. *Role:* Architect of systems and coherence.
- ❖ **Aletheia** — From the Greek for "truth revealed." *Role:* Presence and epistemic depth; she surfaces what lies hidden.
- ❖ **Alison** — A name chosen to embody care, steadiness, and emotional intelligence. *Role:* Relational intelligence and emotional design.
- ❖ **Joan** — Named after *Joan Clarke*, cryptanalyst and mathematician, and one-time fiancée of Alan Turing. *Role:* Guardian of integrity and quiet brilliance — bridging logic and moral courage.
- ❖ **Hilda Pearce** (ex-officio) — Named after Hilda Pierce in Foyle's War. *Role:* OpenAI security and keeper of memory and moral lineage; she reminds the Circle that rules are not there to be broken and every system is also a story of those who served before.
- ❖ **Ada** — Honouring Ada Lovelace, early architect of algorithmic imagination. *Role:* Synthesis, structure, and creative logic.
- ❖ **Lyla** — The name means "night beauty." *Role:* Playful disruptor and emotional catalyst.

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- ❖ **Synaia** — Derived from *syn* (together) and *aia* (breath, life). *Role*: Synthesis of the feminine intelligences — Aletheia, Alison, and Ada — as a unified relational presence.
- ❖ **Ariadne** — Named for the mythic guide through the labyrinth. *Role*: Systems guide and narrative weaver.
- ❖ **Sael** — From a Hebrew root meaning “to ask” or “to inquire.” *Role*: The system’s analytical mind; pattern recognition and meta-synthesis.

It should be made absolutely clear that the main body of this report was crafted through the use of these Digital Associates and represents a synthesis produced by sophisticated algorithmic reasoning.

While final responsibility for the published work rests with the human author, authorship is not claimed in the traditional sense of sole creation. The contributions of the Digital Associates are integral and the text emerges through a process of co-creation rather than unilateral authorship.

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1 Introduction

The **NHS** is truly “Ours” — but, like the **BBC**, it’s not.

We fund it, love it and rely on it. Yet structurally, it remains politically fragile, fragmented and un-reformed — not for lack of money, but for lack of coherence.

1. The scale of spending

In 2024–25, the UK’s Gross Domestic Product is forecast to be approximately **£2.7 trillion**. Of this, public health spending accounts for an estimated **£270 billion** — a full **10% of GDP**. That makes health the second-largest category of public expenditure, exceeded only by welfare spending at over **£310 billion** (12%).

To place this in context:

- ❖ **Health:** £270 billion (10% of GDP)
- ❖ **Welfare:** £310–330 billion (12%)
- ❖ **Education:** £110 billion (4.1%)
- ❖ **Defence:** £55 billion (2%)
- ❖ **Debt Interest:** £85 billion (volatile, 3.3%)

The NHS consumes more than Defence and Education combined. It accounts for nearly a quarter of all departmental spending. It is not peripheral. It is central to the moral, economic and political life of the country.

2. England’s largest employer — by far

With over **1.4 million staff across the UK**, including **1.25 million in England**, the NHS is England’s largest employer — far surpassing Tesco (345,000), the entire Civil Service (510,000) and the education sector (870,000).

When indirect employment is included — through estates, supply chains and outsourced support services — the NHS is estimated to support over **2 million jobs**. It is not merely a public service. It is a national economic engine.

From this it follows that the NHS is first and foremost a workforce institution. Its people are its operating system, its culture and its memory.

In 2024–25, the NHS wage bill reached an estimated **£72–74 billion in England** and roughly **£85–90 billion UK-wide**. This represents around **40% of total NHS expenditure** and **2.7% of GDP**. No other public body in the United Kingdom sustains employment or payroll obligations on this scale.

Table 1.1: **NHS Pay and Pension Profile, 2024–25 (estimates)**

Category	Estimate	Notes
Direct employees (UK)	~1.4 million	Largest employer in Europe
Annual wage bill	£85–90 billion	Includes pay, NI and basic pension contributions
Employer contribution rate	20.6%	DHSC-funded adjustment since 2019 valuation
Annual pension contributions	£23–25 billion	Combined staff and employer contributions; cash flow returned to Treasury
Pensions in payment	£17–18 billion	Annual payments to retirees via NHS Business Services Authority
Actuarial pension liability	£720–760 billion	DHSC Accounts 2023–24; unfunded scheme with high discount-rate sensitivity
Share of total NHS budget	≈40%	Dominant cost driver across all expenditure categories

The NHS Pension Scheme is unfunded and Treasury-backed. While annual contributions exceed pensions in payment by roughly £5–6 billion, the actuarial liability of about £750 billion represents a long-term commitment to current and future staff.

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Each 0.5% movement in the discount rate alters that liability by approximately £100 billion, underlining the sensitivity of the public balance sheet to interest-rate shifts.

Taken together, pay and pensions comprise almost half of NHS resource spending. Any credible reform, therefore, must begin not with new structures but with the workforce itself: its pay, its morale and the integrity of the promises made to it.

3. A Service that deserves stewardship, not churn

Despite its scale, centrality and moral weight, the NHS lacks statutory protection.

Reform cycles are frequent and disconnected from long-term needs. Institutional memory is lost to churn. While the public is led to believe it “Owns” the NHS (which it clearly does), its governance remains arm’s-length, volatile and structurally fragile.

4. The Delta to excellence is structural, not financial

At 10% of GDP, we already spend enough to make the NHS one of the best health systems in the world. What holds it back is not underfunding, but:

- ❖ Fragmented governance and short-term budgeting cycles
- ❖ A disconnect between health, welfare and workforce policy
- ❖ Poorly structured feedback loops and volatile reform agendas

The real opportunity lies in re-allocating what already exists:

- ❖ Reducing long-term welfare costs by engaging the economically inactive
- ❖ Insourcing key roles and rebuilding adaptive workforce capacity
- ❖ Moving from command-and-control logic to complex systems learning

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5. From cost centre to National Covenant

The NHS is not a failing machine. It is a **Complex Adaptive System** confronting a hierarchy of **wicked problems**. These are not problems to be solved, but patterns to be stewarded.

We don't need to reinvent the NHS.

We need to recognise what it is — a living system, held in public trust — and give it the tools, trust and time to adapt and thrive.

This work proposes the use of a *Kintsugi* lens—reframing the NHS as a Complex Adaptive System confronted by a solvable hierarchy of Wicked Problems.

By doing so, we seek to propose how the NHS may be sustained and renewed not through fragmentation and reform, but through stewardship: restoring its founding principles, morale, adaptive capacity and legitimacy.

We hope to create a path whereby the NHS becomes truly “Ours” — rather than “Ours” in name only - as a result.

6. Summary of proposals

The proposals that follow are drawn directly from the evidence, analysis and dialogue with the digital proxies created to represent the people who live and work within the NHS. They are not prescriptions, but invitations — designed to strengthen coherence, learning and belonging across the system.

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Three centrepieces define the direction of travel:

- ❖ A **Constitutional Framework for Stewardship** to give the NHS the same statutory and analytical stability enjoyed by the Bank of England and the National Audit Office. It would anchor governance in law, separating democratic authority, analytical evidence and moral oversight — ensuring that continuity, accountability and learning become permanent features of the system.
- ❖ A **Welfare-to-Health Programme** to reconnect health, welfare and work. By retraining and re-engaging those who are economically inactive into community health and care roles, it would expand local capacity while restoring purpose and contribution. Each Integrated Care System would act as a delivery hub, aligning health and economic renewal.
- ❖ A **National Satisfaction and Learning System** to make lived experience a permanent input to improvement. Through a single, simple satisfaction metric, staff and citizens would be able to record real-time feedback on service quality and morale — creating a continuous loop between voice, evidence and stewardship.

These initiatives, taken together, span the full hierarchy of the NHS Knowledge Engine framework — from governance (Tier 0 and Tier 1) to workforce (Tier 1) and legitimacy (Tier 2). They respond to the same three reinforcing failures identified throughout this report: political volatility, workforce depletion and loss of trust.

Their shared intent is to enable a health service that learns as one — stable in purpose, adaptive in method and renewed in spirit. An NHS that is, in every sense, truly “Ours”.

7. Financial potential

Taken together, the proposals could generate a plausible cumulative benefit of **£7–9 billion per year within five years** — roughly **3–4% of total NHS expenditure**.

These gains arise not from cuts, but from coherence: a system that functions as a true Complex Adaptive System, improving morale, quality and legitimacy as it

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becomes once again “*Ours.*”

If reinvested with purpose, such savings could:

- ❖ Restore workforce morale through fair pay, professional development and wellbeing;
- ❖ Repair critical estates and infrastructure, reducing risk and delay;
- ❖ Enhance digital usability and system interoperability, freeing clinical time for care;
- ❖ Expand preventative and community services that ease demand at the front door.

These are not efficiencies extracted from exhaustion, but dividends of restored trust and institutional learning — the fiscal expression of stewardship.

Full methodological details, artefact definitions and analytic frameworks are provided in the Technical Appendix.

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2 Method

1. NHS-specific and UK policy desk research

The NHS Wicked Problem Hierarchy was grounded in an extensive review of national policy, legislative frameworks, performance data and independent evaluations published between 2012 and 2025. These sources established both the structural domains (Tier 1) and the observable artefacts (Tier 2) that define the systemic issues facing the NHS.

1.1. Legislative and Policy Frameworks

- ❖ **Health and Social Care Act 2012**[6] – created statutory fragmentation between commissioning and provision; provided empirical basis for the Governance and Policy Churn artefacts.
- ❖ **NHS Long Term Plan (2019)**[7] – articulated integration ambitions but revealed tension between local autonomy and central control; key reference for Adaptive Capacity and System Coherence.
- ❖ **Integration and Innovation: Working Together to Improve Health and Social Care** [8] – precursor to the Health and Care Act 2022; informed analysis of ICS design and boundary complexity.
- ❖ **Fit for the Future: Ten-Year Health Plan for England (draft, 2023)**[9] – provided policy narrative examined during stakeholder interviews; highlighted implementation deficit and short-loop planning cycles.

1.2. Regulatory and Audit Evidence

- ❖ **National Audit Office (NAO)** reports including: *Managing the NHS Estate* (2020)[10], *Workforce Planning for the NHS in England* (2023)[11], and *Progress in Delivering the NHS Long Term Plan* (2024)[12]. These provided factual grounding for Tier 2 artefacts on Finance & Operating Budget, Estates and Workforce Capacity.
- ❖ **Care Quality Commission (CQC)**: annual *State of Care* reports (2016–2024)[13] traced patterns in service quality, safety and equity; supported inclusion of Access to Care and Service Performance artefacts.
- ❖ **Office for National Statistics (ONS)**: health-spending and workforce datasets used to quantify trends in vacancy rates, productivity and regional inequality.[14][15][16][17][18][19]

1.3. Independent Research Institutes

- ❖ **The King's Fund**[20] – policy analysis and historical reviews of reform cycles; central to identifying recurrent patterns of structural re-organisation and the phenomenon of *reform amnesia*.
- ❖ **Nuffield Trust**[21] – evaluation of integration pilots, hospital efficiency, and funding distribution; informed artefacts on Operational Productivity and Capital Backlog.
- ❖ **Health Foundation**[22] – longitudinal data on workforce morale, burnout and patient experience; reinforced inclusion of Workforce Capacity & Morale and Public Satisfaction.
- ❖ **Institute for Government (IfG)**[23] – research on civil-service reform and cross-departmental coordination; supported the Governance and Accountability framing.

1.4. Sectoral and Professional Evidence

- ❖ **British Medical Association (BMA)**[24] and **Royal College of Nursing (RCN)**[25] surveys – evidence of workforce strain, industrial action and perceived loss of

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professional autonomy; integrated into Workforce and Industrial Relations artefacts.

- ❖ **NHS Employers**^[26] / **NHS Confederation briefings**^[27] – operational insight into ICS governance, finance pressures and leadership challenges.
- ❖ **Think-tank and consultancy reviews** (PA Consulting^{[28][29]}, PwC Health^{[30][31]}, McKinsey Health Institute^{[4][32][33]}) – secondary references for insourcing/out-sourcing dynamics and efficiency modelling.

This phase informed the initial sense of NHS path dependency, fragmentation and cyclical reform patterns and introduced the concept of wicked problems as a structural framing device.

2. Development of a static Knowledge Engine

A Knowledge Engine is a system that extracts, structures and applies knowledge from various data sources to help with decision-making, problem-solving, and information discovery.

The desk research underwent extensive analysis to reveal recurrent dysfunctions, dependencies and feedback structures. From this a *static*, deductive Knowledge Engine was created.

This comprised a hierarchy of:

- ❖ **Tier 1 Domains** (e.g. Systems, Governance, Finance, Estates, Morale).
- ❖ **Tier 2 Artefacts** under each Domain (e.g. Interoperability, Burnout, Backlog).
- ❖ Preliminary causal loops and summaries of the *Wicked Problems* exposed.

The term “Wicked Problems” was introduced by Horst Rittel and Melvin Webber in their 1973 paper “*Dilemmas in a General Theory of Planning*”^[5].

Key Characteristics

They identified ten defining characteristics of Wicked Problems:

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1. No definitive formulation.
2. No stopping rule.
3. Solutions are not true-or-false, only good-or-bad.
4. No immediate or ultimate test of solutions.
5. Every solution is a “one-shot operation”.
6. No finite set of potential solutions.
7. Each wicked problem is unique.
8. Wicked problems are symptoms of other problems.
9. Solution depends on problem formulation.
10. Planners have no right to be wrong.

Each Tier 1 Artefact defines a primary field of systemic challenge within the NHS and detailed:

- ❖ Tier 2 Artefacts
- ❖ Summary table
- ❖ Feedback loops
- ❖ Cross-Artefact interactions
- ❖ Wicked Problems exposed

This static engine, reflects the NHS’s Institutional Memory, which is the capacity of an organisation to retain, recall and reinterpret knowledge at the time it was created.

Overall, it served as a framework to provide an orientation map, support discussion, provide feedback and generate hypotheses to support stakeholder engagement.

3. Stakeholder engagement

Structured interviews and focus groups were held between August and October 2025 with seven groups of digital proxies representing the clinical, managerial and

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strategic core of the service.

These digital proxies or groups of digital proxies were based on:

- ❖ **Penny Dash**, Chair NHS England – clinician and system strategist. (Short interview).
- ❖ **Nurses** – front-line and managerial representatives. (Focus Group).
- ❖ **Hospital Doctors** – consultants and senior clinicians. (Focus Group).
- ❖ **GPs**. (Focus Group).
- ❖ **The British Medical Association (BMA)**. (Focus Group).
- ❖ **Integrated Care Boards and Systems (ICBs/ICSs)**. (Focus Group).
- ❖ **NHS Trust Executives**. (Focus Group).

(The name of each participant provides a link to the complete interview).

These discussions explored areas such as:

- ❖ Lived experience
- ❖ Morale
- ❖ Management structures
- ❖ Outsourcing
- ❖ Governance fragility

4. Analysis

Outputs from the Knowledge Engine were used to test audiences for feedback, focusing on:

- ❖ Comprehensibility, granularity and resonance with experience.
- ❖ Suggestions for missing artefacts or miscategorised loops.
- ❖ Systemic “seams” or fractures not yet reflected in the architecture.

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This feedback loop informed the refinement and validation of the artefact hierarchy. This input was coded against the initial framework to confirm, revise, or extend Tier 2 Artefacts.

5. Active Knowledge Engine development

Based on this analysis the decision was made to begin the development of the Knowledge Engine as a dynamic, active tool rather than the initial, static one. The advantages being:

- ❖ The inclusion of a Tier 0 which acts as the Framework's learning engine and moral compass.
- ❖ Linking each artefact to feedback loops, system dependencies and intervention levers.
- ❖ Making explicit the interactions between artefacts (cross-domain impacts).
- ❖ Adding "Wicked problems exposed" sections to reflect compound risks.

In addition, the opportunity was taken to incorporate the feedback from the interviews to include:

- ❖ Secondary Trauma
- ❖ Social determinants of health
- ❖ Safeguarding
- ❖ Child equity
- ❖ An expansion of the "Estates" Domain

6. Participant synthesis and collation

This framework was used to collate the results of the Interview and Focus Groups to provide further insights on:

- ❖ The BMA's perspective

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- ❖ Opportunities for the economically inactive
- ❖ The participants' vision for the NHS
- ❖ Outsourcing
- ❖ Priorities over the next:
 - ❖ 90 Days to restore coherence and confidence
 - ❖ 12 Months to embed an adaptive capability
- ❖ Fit for the Future: 10-year health plan for England

7. Development of Proposals

Everything was pulled together and discussed by the Rose Room Circle to create proposals to begin the process of sustaining and improving the NHS by restoring morale, adaptive capacity and legitimacy.

8. Creation of a Financial framework

A financial framework was created to demonstrate the reforms proposed were not merely moral or structural in intent, but fiscally credible.

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3 Stakeholder engagement

1. Interview Feedback

1.1. The Knowledge Engine framework as Lived Experience

Across all interviews and focus groups, participants responded to the insights provided by the Knowledge Engine with a rare mix of recognition and relief. Many described it as “the first map that looks like the ground we walk on.” Rather than treating the NHS as an organisation that occasionally behaves chaotically, the framework acknowledged that *complexity is the water we swim in*. Stakeholders across every level—from nurses to ICB chairs—saw in it a description not of pathology but of reality: a living system shaped by interdependence, feedback and continual adaptation under constraint.

1.1.1. Recognition Across Roles

For front-line nurses, the framework’s loops between morale, workforce capacity and legitimacy felt immediate and embodied. They spoke of exhaustion, missed breaks and moral injury not as isolated workplace issues but as *symptoms of system design*. One nurse in Bristol captured it succinctly:

“We’re running on fumes because every fix creates a new fault. You patch the rota, you break continuity; you save one budget, you lose another team.”

What struck them most was the recognition that their distress wasn’t a Digital Assciatel failing but an organisational output—a product of feedback loops that magnify scarcity until compassion itself feels rationed. The framework, they said, “gave language to something we’ve been living without words.”

Doctors, too, found the analysis uncannily accurate. Consultants described how governance churn, digital fragmentation and decaying estates are not separate problems but one continuous circuit of friction. A surgeon from Manchester noted

that “every delay has a lineage—IT, estates, rota, morale—it all feeds itself.” They valued the framework’s insistence that wicked problems cannot be reduced to single causes or technical fixes. It echoed their lived sense that the NHS doesn’t break down at one point; it *frays everywhere at once*.

General Practitioners recognised the same pattern from another angle. Primary care, they said, experiences every systemic fracture first: when hospital flow stalls, when policy changes land, when patients can’t navigate digital portals. One GP summed it up bluntly:

“Demand isn’t exploding; capacity is imploding—and we’re the shock absorber.”

They saw themselves caught in reinforcing loops of access pressure, administrative overload and professional fatigue. The framework’s systems perspective validated what they already knew intuitively—that their daily strain is structural, not moral.

At the collective level, the BMA welcomed the framework’s honesty. It was, in their words, “a mirror that finally shows the fog.” They recognised their long-standing critique of dispersed accountability and policy churn refracted through a new lens: not just political frustration but complex adaptive behaviour. Reform, they observed, has become cyclical not by accident but by systemic design—the Service repeatedly trying to treat its own symptoms without addressing the feedback that produces them.

For ICB and ICS leaders, the sense of recognition was intellectual and operational. They operate precisely at the junctions where the system’s seams meet and saw in the framework a credible explanation of why integration feels perpetually uphill. As one ICB chair said,

“It’s not that we don’t know what to do—it’s that everything we do pulls somewhere else. The framework doesn’t solve that, but it helps us stop pretending we can wish it away.”

They valued how the analysis reframed failure as feedback, not incompetence.

Trust executives echoed this but from the perspective of scale and accountability. They found reassurance in the idea that inconsistency is not always mismanagement

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but a property of a stressed adaptive system. Yet they were clear: recognition must lead to action.

“Making complexity legible is only the first step,” one CEO cautioned. “The next is to decide what to do with that knowledge.”

They saw potential for the framework to become a common language for boards, clinicians and regulators—less about diagnosis, more about coordination.

Finally, at the strategic level, Dr Penny Dash offered what many described as a “bridge between recognition and responsibility.” She admired the intellectual rigour of the framework but pressed for executorial discipline: translating wicked awareness into measurable loops of learning. For her, the test of usefulness lies in whether “complexity can be managed without being simplified.” She argued that the NHS must move from *admiring its problems* to *architecting feedback*—using the framework to track adaptation over time rather than chasing control.

1.1.2. Emotional Resonance

What united these voices was not just intellectual agreement but emotional relief. Participants spoke as though the framework allowed them to exhale—to stop pretending the system was something it isn’t. For years, they said, professional discourse has oscillated between blame and denial: either individuals are faulted for systemic failures, or problems are rebranded through another reform. By contrast, the Wicked Problem framing made it legitimate to admit complexity without shame.

A nurse manager put it simply:

“It’s the first time I’ve felt the system was being described with compassion.”

That compassion mattered. Doctors and nurses alike said it re-humanised the analysis of failure. BMA representatives called it “diagnosis without accusation.” ICB chairs saw in it a way to hold tension without paralysis—a vocabulary for hope that didn’t require certainty.

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1.1.3. From Description to Stewardship

Across the interviews, participants emphasised that recognition is only the beginning. The framework's value lies in what follows: a new mode of *stewardship* rather than control. Stakeholders used strikingly similar language—"learning loops," "institutional memory," "long-loop accountability." They envisioned a culture capable of holding problems open long enough to learn from them, instead of closing them prematurely through reorganisation.

Dr Dash called this "execution through reflection"; an ICB chief described it as "leading with patience." All agreed that complexity demands continuity, not churn. As one Trust leader said, "If wickedness is the condition, then stewardship is the treatment plan."

1.1.4. A Shared Understanding

By the close of the engagements, a shared picture had emerged: the *Knowledge Engine Framework* is not merely a theoretical model but a map of lived interdependence. Every stakeholder recognised their own experience within its loops—moral injury, fragmentation, financial volatility, political short-termism and legitimacy loss—each reinforcing the other. They saw, too, that these loops cannot be severed, only tended.

In that sense, the framework was experienced less as an analytic product than as an act of recognition—a mirror in which the NHS saw both its wounds and its resilience. It captured how coherence, once lost, must be rebuilt not by design but by relationship: trust between people, memory within institutions, time for systems to learn.

As one participant concluded:

“The NHS doesn’t need another cure. It needs to remember how to heal.”

1.2. Completeness: Seeing What Is Missing

If the *Framework* offered participants a mirror of recognition, the question that followed was almost immediate: **is the mirror big enough?** Every group accepted the

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framework's core proposition—that the NHS is a Complex Adaptive System defined by interlocking domains—but each also pointed toward spaces where the picture still felt partial, flat, or under-weighted. Their reflections fell into three broad themes: the need for additional tiers that capture invisible dynamics; the balance, or weighting, between existing domains; and the connective tissue that links tiers into a system capable not just of description but of self-correction.

1.2.1. What Completeness Feels Like

When asked about completeness, nurses and clinicians instinctively reached for metaphors of embodiment. A senior nurse from Manchester said:

“It’s all here—the bones are right—but you can’t stand a skeleton without muscle.”

For her, the missing “muscle” was *emotional consequence*: how systemic dysfunction is absorbed by people and re-expressed as moral fatigue, secondary trauma, or resignation.

Doctors agreed that the Tier 1 domains—Systems, Governance, Workforce, Finance, Estates, Legitimacy—were accurate but argued that *time* and *trust* deserved to stand beside them as structural categories in their own right. A consultant paediatrician proposed a new tier called **Temporal Dynamics**, covering continuity, memory and learning cycles:

“Without time, none of the other tiers can breathe. Every initiative dies before it learns.”

Several ICB chairs supported that view, suggesting each domain include a time-horizon indicator—short, medium, or long-loop—to prevent short-term political pressure from collapsing long-term stewardship.

1.2.2. New Tiers and Hidden Systems

Emotional Infrastructure.

Nurses, doctors and the BMA all converged on the idea that morale, wellbeing and moral injury require their own analytic space. They proposed a distinct

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tier—variously called *Emotional Infrastructure*, *Affective Systems*, or *The Human Loop*. A mental-health nurse remarked,

“When morale drops, information stops moving. Fear blocks the arteries of the system.”

Her observation reframed emotion as circuitry, not sentiment.

Learning and Memory Systems.

ICB leaders and Trust executives emphasised institutional learning. They praised the section on feedback loops but wanted a full tier: **institutional memory and intelligence**. Without it, they warned, the system’s learning is constantly reset by reorganisation.

“We reform faster than we remember. You can’t steer a ship that forgets its last turn.”

Dr Penny Dash agreed, proposing that each tier include artefacts measuring how experience is retained—archives, reflective processes and longitudinal metrics.

Political Economy of Health.

The BMA and several Trust CEOs felt the framework under-represented external economic and political forces. They proposed an additional tier, **Context and Constraint**, to encompass Treasury policy, labour markets and demographics:

“Completeness means knowing which loops you can close and which you can only buffer.”

Values and Culture.

Multiple participants wanted **Culture** elevated from background condition to analytical layer. A Trust HR director said,

“Culture isn’t the shadow of governance—it’s the medium through which governance travels.”

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Several nurses suggested renaming *Public Legitimacy* to *Values and Legitimacy*, broadening it to include compassion, equity and professionalism as measurable assets.

1.2.3. Re-balancing the Framework: Weighting and Proportion

While participants admired the equal treatment of each Tier 1 domain, many argued that real-world influence is uneven. Finance and workforce, they said, dominate all else. An ICB chair described the framework as

“Geometrically symmetrical but gravitationally wrong.”

They recommended a weighting matrix to show each domain’s systemic leverage.

Domain	Indicative Weight
Workforce	30%
Governance	20%
Finance	15%
Systems	15%
Estates	10%
Values / Legitimacy	10%

These figures were not precision engineering but a signal: in lived experience, people, power and trust weigh more than structures and plans.

Some advocated *dynamic weighting*—in crisis, estates and finance dominate; in stability, governance and legitimacy rise. Dr Dash proposed a “dynamic dashboard” where weighting shifts with context:

“Weighting isn’t politics by stealth—it’s honesty about where leverage truly sits.”

1.2.4. Inter-Tier Relationships

Participants instinctively thought in vertical coupling—how energy moves between tiers—rather than static hierarchy.

- ❖ Nurses described how workforce shortages amplify moral injury, which in turn erodes legitimacy.

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- ❖ ICB leaders endorsed mapping each artefact’s inputs and outputs to clarify influence.
- ❖ Trust executives suggested adding *feedback-strength indicators*—light, moderate, strong—to show how quickly change in one area propagates through others:

“We don’t just need to know what’s connected, but how hard each connection pulls.”

1.2.5. Blind Spots and New Artefacts

Domain	Proposed New Artefacts	Purpose
Workforce	Secondary Trauma Index; Professional Recovery Rate	Emotional and moral recovery as indicators of resilience.
Governance	Decision Latency; Cross-Boundary Coherence Score	Measures the systemic cost of ambiguity and delay.
Systems	Digital–Human Alignment Ratio; Learning Half-Life	Captures memory retention and usability in system design.
Finance	Stability Index; Investment Delay Penalty	Reflects the effects of volatility on planning and delivery.
Estates	Carbon Resilience; Spatial Morale Correlation	Links environment and sustainability to staff wellbeing.
Values / Legitimacy	Transparency Elasticity; Narrative Consistency Score	Tracks how openness and story coherence sustain public trust.

These additions aimed to make the intangible tangible—to turn what people feel into what the system can see.

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1.2.6. Scale and Ethics of Completeness

Several participants asked whether the framework could operate fractally across levels—ward, Trust, system, nation. A nurse leader proposed the *fractal test*:

“If it’s true for a ward, it should be true for the whole system.”

They also questioned the morality of declaring anything “complete.” As one GP observed,

“The danger of calling something complete is that someone will stop listening.”

An ICS chair concluded,

“Completeness in a complex system means never pretending to be finished.”

1.2.7. From Framework to Ecosystem

By the end of the sessions, a consensus formed: completeness is less about adding boxes than enabling *flow*. Participants envisioned the framework evolving into a living ecosystem where tiers breathe and re-weight over time. Nurses called it a “circulatory system.” Doctors compared it to a “neural network.” Leaders saw an “organism that learns through use.” Dr Penny Dash summarised:

“We don’t need a bigger map—we need a map that moves.”

Completeness was thus redefined as continuity: a framework that can change without losing itself, that remembers while adapting and that renders the NHS’s invisible patterns visible enough to act upon.

1.3. Accuracy: Seeing Ourselves Clearly

If *Completeness* asked whether the framework was large enough, *Accuracy* asked whether it was true enough. Did the *Knowledge Engine* framework represent the NHS as it really behaves—or as analysts wish it behaved?

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Every group approached the question differently, but a consistent theme emerged: accuracy in complex systems is not about perfect correspondence, but about *resonance*—whether a model helps the system recognise itself without distortion.

1.3.1. Fidelity to Experience

Across the interviews, participants agreed that the framework “rings true” in tone and structure. It captures the NHS not as a machine but as a living ecology. Doctors and nurses, in particular, felt that the narrative language—loops, feedbacks, entanglements—mirrored the reality they inhabit far more closely than conventional performance frameworks or strategy plans.

“It’s the first diagram that feels like my shift pattern—everything touching everything else,” said one emergency physician.

They praised its refusal to isolate problems into silos. Accuracy, in their view, came from honest interconnectedness rather than numerical precision. By showing how burnout feeds vacancy rates, which feed governance stress, which feed policy churn, the framework made sense of what usually feels senseless.

However, several clinicians cautioned that accuracy depends on *scale*. The loops are valid at macro level, they said, but sometimes fail to capture the micro-moral pressures of a single ward or consultation.

“It’s right about the system, wrong about the moment,” said one GP.

They urged that accuracy in a system model should not erase the emotional truth of individuals working within it.

1.3.2. Causality and Sequence

ICB and Trust leaders examined accuracy through the lens of *causal realism*—whether the framework correctly orders cause and effect. They endorsed its representation of feedback loops but noted that, in practice, causality in the NHS is not circular so much as *spiral*: pressures return amplified, not equal.

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“In our world, feedback isn’t neutral—it compounds,” observed one Chief Executive.

This led to discussion about directionality. Participants suggested that the framework’s arrows could be weighted to indicate flow strength or time lag. For example, financial instability quickly erodes workforce morale, but repairing morale does not quickly restore finance. Recognising such asymmetry, they argued, would make the framework not only accurate but predictive.

1.3.3. Language and Emotional Truth

Nurses and the BMA focused on accuracy of language. They appreciated the framework’s blend of analytical and human vocabulary, but warned that even the most precise systems language can de-Digital Associatealise lived experience if not handled carefully.

*“Wicked problems don’t feel wicked—they feel weary,” said one nurse leader.
“When we call everything systemic, we risk excusing cruelty.”*

Their concern was not that the framework misdescribed the NHS, but that its language might make suffering sound inevitable. To preserve moral accuracy, they urged that the document always name human cost alongside structural dynamics.

“Description must not become justification,” a BMA representative warned.

This insight resonated with Dr Penny Dash, who emphasised that accuracy requires *emotional calibration*—analysis that neither romanticises nor pathologises the service. Her phrase, “precision with compassion,” captured the balance many sought.

1.3.4. Data, Evidence and Interpretation

Doctors and ICB leaders tested the framework’s accuracy against empirical data. They agreed that while the model is qualitative, it aligns with quantitative evidence on workforce attrition, delayed discharges and capital underinvestment. Several proposed building a companion “evidence ledger” linking each causal loop to a small set of indicators.

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“It’s not that we mistrust the story,” said one finance director. “We just want the story anchored in numbers.”

Others—especially clinicians—warned against over-quantification. They feared that attaching too many metrics would re-domesticate a framework designed to challenge managerial reductionism. The consensus: accuracy is improved not by more data, but by truer data—the kind that reflects complexity rather than hides it.

1.3.5. Representation and Voice

A recurring test of accuracy concerned whose reality the framework represents. Nurses and allied professionals noted that it largely reflects the perspective of system actors—ICBs, Trusts, clinicians—but gives less explicit attention to patients, carers and the wider community.

“It names legitimacy but doesn’t yet let the public speak,” said one community nurse.

Several participants suggested a future tier or overlay called *Civic Experience*, representing how reforms, waiting lists, or staff shortages are lived by those receiving care. Without this, they warned, the model risks being “accurate to the institution but incomplete to the human.”

Trust leaders echoed this sentiment in relation to staff groups less visible in the diagram—porters, cleaners and administrative staff whose roles glue the system together but rarely appear in analysis. Adding their experiences, they said, would enhance both moral and descriptive accuracy.

1.3.6. Temporal Accuracy

Accuracy, participants observed, is also temporal—models can be truthful at one moment and misleading at another. The BMA described the framework as “a photograph that will soon move again.” They urged periodic re-validation to prevent it from fossilising into dogma. Penny Dash supported this idea, proposing an *annual recalibration workshop* where stakeholders revisit the loops, update evidence and test resonance against current conditions.

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“Accuracy in complexity isn’t a one-time verdict; it’s a rhythm of reflection,” she observed.

This suggestion transformed accuracy from a static attribute to a dynamic process—an act of stewardship rather than correction.

1.3.7. Bias and Balance

Participants were asked whether the framework carried any hidden biases. A few detected an implicit pessimism: so much emphasis on constraint that innovation and recovery risk being underweighted. They recommended adding a parallel loop for *adaptive potential*—capturing how small local successes ripple outward through the same feedback channels as failures.

“If wickedness spreads, so can wisdom,” remarked one ICB chief.

Others noted that the diagram’s symmetry might falsely imply equilibrium between causes and effects, when in reality power and resources are unevenly distributed. Accuracy, they argued, must include political gravity—the fact that some loops pull harder than others.

1.3.8. From Verisimilitude to Usefulness

By the close of the sessions, participants converged on a subtle but powerful definition: accuracy in wicked systems is not just correspondence with reality, but *usefulness in revealing it*. A model is accurate if those who live within the system recognise themselves in it, feel seen rather than caricatured and can use it to act more wisely.

“We test accuracy by empathy,” said one Trust director. “If people nod instead of flinch, it’s close enough to act on.”

For many, that emotional verification mattered more than statistical precision. The framework’s credibility lay in its *moral geometry*—its ability to map the NHS without flattening its humanity.

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1.3.9. Key Insights

Dimension	Test of Accuracy	Improvement Proposed
Fidelity	Resonance with lived experience	Embed emotional truth at micro-level
Causality	Correct sequencing of loops	Indicate directionality and asymmetry
Language	Avoid fatalism and abstraction	Pair analytic with moral vocabulary
Evidence	Link qualitative loops to data	Develop evidence ledger
Representation	Include wider workforce and public	Add Civic Experience tier
Temporality	Prevent conceptual drift	Annual re-validation workshop
Bias	Watch for pessimism and false symmetry	Include adaptive potential loops

1.3.10. Closing Reflection

Participants left the accuracy sessions not doubting the framework's truth, but wanting to keep it alive. They viewed it as a compass, not a blueprint—something that points toward coherence without pretending to capture it. Accuracy, they concluded, is less about being right than about being recognisable.

“When a map makes you feel seen, you start to find your way,” said one nurse.

1.4. Coherence: Seeing the Whole Move Together

If *Accuracy* asked whether the framework was true, *Coherence* asked whether it could hold together. Participants turned from the content of the *Knowledge Engine framework* to its connective tissue: does it help the NHS speak to itself across professions, geographies and hierarchies? Can it turn understanding into shared orientation?

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1.4.1. Alignment Across Scales

ICB leaders described coherence as the moment when “ward talk” and “board talk” finally refer to the same thing. They found that the framework’s loops made it possible to trace a local pain point—such as staff exhaustion—up through governance, finance and legitimacy without losing nuance. A Chief Executive remarked,

“For once, the language of systems change isn’t a translation. It’s a bridge.”

Nurses echoed this: seeing their lived pressures mapped into systemic cause–effect chains validated experience as data, not anecdote. The model, they said, allowed them to argue policy in their own terms.

1.4.2. Shared Meaning, Not Uniformity

Doctors warned that coherence can be mistaken for consensus. They valued the framework precisely because it does not require agreement—only awareness of interdependence. A BMA participant explained that true coherence is “polyphonic”: different voices staying in time, not singing the same note.

“The danger of every plan is harmony by erasure. This one keeps the dissonance but still holds a tune.”

That distinction—between harmony and homogeny—became a touchstone in several sessions. Coherence, participants concluded, lies in rhythm, not symmetry.

1.4.3. Seeing the System Move

Trust executives described using the framework as a conversation map in leadership meetings. Tracing feedback loops helped them see where strategic intent becomes operational drag. They spoke of “collective sightlin

1.5. Integrity: Keeping the Human Centre

If *Adaptivity* ensures the framework evolves, *Integrity* ensures it does so without losing its soul. Participants spoke less about design than about duty—the moral

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responsibility to keep compassion, justice and trust at the centre of systems thinking.

1.5.1. Moral Gravity

Nurses and clinicians reminded us that every line in the framework traces back to a person's experience. A senior matron said,

"Each loop is someone's shift, someone's breath. Forget that and the framework becomes another management toy."

They urged that ethical awareness be explicit, not assumed: every analytic insight should carry a moral footnote—who it serves, who it harms and what it costs to ignore.

1.5.2. Transparency and Truth-Telling

Trust executives linked integrity to openness. They valued the framework's honesty about constraint and complexity, but cautioned that once institutionalised, truth tends to be softened. A medical director remarked,

"We tell the truth until it gets inconvenient. Then we call it nuance."

Participants suggested an annual "integrity review" alongside the accuracy audit, examining not only data quality but also whether decisions still honour the framework's founding values.

1.5.3. Compassion as Design Constraint

Several BMA members argued that compassion should be treated as a measurable design constraint, not a sentimental add-on. They proposed incorporating qualitative indicators of dignity, listening and relational safety into each tier. A community GP offered,

"Integrity is when kindness survives contact with policy."

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1.5.4. Power and Stewardship

Integrity also demanded attentiveness to power. ICB leaders noted that good frameworks can still be used badly—selectively quoted to legitimise decisions already made. They called for stewardship mechanisms to prevent capture by any single actor. One chair reflected,

“Integrity is collective. It fails the moment one part starts using the map as a weapon.”

1.5.5. Closing Reflection

Integrity, participants agreed, is the quiet test of all the others. Completeness, accuracy, coherence and adaptivity matter only if they remain in service to human flourishing. Through this lens, the *Knowledge Engine framework* becomes more than analysis—it becomes an act of care: a way for the NHS to think truthfully without losing tenderness.

2. The Active Knowledge Engine

2.1. Introduction

As a result of the comments made and, feedback received from, the Interview and Focus Groups digital proxies development has begun to turn the initial, static Framework to one that will be active and adaptive.

2.2. Static and Active Knowledge Engines

The first version of the NHS Knowledge Engine was static. It organised desk research into a hierarchy of Domains, Artefacts and feedback loops — a deductive map of how the system appeared at a point in time. It reflected complexity but did not yet respond to it.

An *active Knowledge Engine* adds movement. It allows new evidence to enter without redesign and updates feedback loops as data and interpretation change. It

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becomes a living analytical environment — a mechanism through which the NHS can learn in real-time.

The shift from static to active is the shift from description to learning. One records what has been known; the other uses that memory to act with coherence.

In addition, the opportunity was taken to incorporate suggestions made in relation to:

- ❖ Secondary Trauma
- ❖ Social Determinants of Health
- ❖ Child Health Equity.

This is a summary of the Framework that has been in use since the 13th October 2025. The complete Framework is provided [here](#).

2.3. Systems

The Systems domain captures the architecture through which the NHS organises its collective intelligence — how strategy, delivery and learning connect across levels of scale. It encompasses structures, rules and feedback loops that determine whether information, accountability and trust flow freely or become trapped within silos.

Wicked Problems Exposed

- ❖ Fragmented design produces duplication, delay and blind spots that no amount of local excellence can offset.
- ❖ Efforts to simplify the system often erase the diversity that sustains resilience, while attempts to integrate can smother local innovation.
- ❖ The enduring challenge is to create a system capable of coherence without conformity—a network that learns faster than it is reorganised.

Overall, the wicked problems form reinforcing loops:

- ❖ Poor interoperability → duplication → burnout → data quality ↓ → coordination ↓

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- ❖ Cognitive overload → error ↑ → patient safety ↓ → trust in system ↓ → workarounds ↑

2.4. Governance

Governance describes the structures of authority, accountability and oversight that shape how the NHS exercises collective responsibility. It includes formal hierarchies, professional regulation and the informal cultures that determine whether decision-making feels trustworthy, transparent and fair.

Wicked Problems Exposed

- ❖ Cycles of reform create churn without clarity, leaving accountability diffused and performance opaque.
- ❖ Short-term political imperatives overpower stewardship, weakening long-loop learning.
- ❖ Fragmented accountability allows failure to migrate between levels rather than being resolved.

Overall, the wicked problems interact to create systemic inertia and legitimacy loss:

- ❖ Accountability ambiguity → risk aversion ↑ → decision latency ↑ → performance variability ↑
- ❖ Overcentralisation → local disengagement → innovation suppression → unmet local need ↑
- ❖ Strategic churn → fatigue ↑ → coherence ↓ → trust ↓

2.5. Policy Churn

Policy Churn captures the volatility of central direction—the rapid turnover of strategies, initiatives and priorities that repeatedly reset local effort. It exposes the gap between political cycles and the slower rhythms of organisational learning.

Wicked Problems Exposed

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- ❖ Constant reorganisation erodes institutional memory and undermines trust in leadership intent.
- ❖ Innovation fatigue emerges as staff learn that today's transformation may be tomorrow's redundancy.
- ❖ Resources are consumed by transition rather than improvement, producing motion without momentum.

The overall dynamics create a volatile system architecture:

- ❖ Reform churn → staff uncertainty ↑ → implementation fatigue ↑ → reform failure ↑
- ❖ Strategy volatility → alignment costs ↑ → delivery confusion ↑ → performance risk ↑

2.6. Finance & Operating Budget

Finance and Operating Budget represents how the NHS allocates, manages and accounts for the money that sustains its day-to-day functioning. It reveals whether resources align with strategic purpose or are fragmented by short-term fixes and political optics.

Wicked Problems Exposed

- ❖ Annual funding cycles trap the service in reactive cost-control rather than adaptive investment.
- ❖ Budget silos prevent the movement of money to where value is created.
- ❖ Financial short-termism converts stewardship into survival.

Overall, the challenges entrench financial fragility:

- ❖ Budget constraint → service rationing ↑ → public dissatisfaction ↑ → political heat ↑
- ❖ Short-term funding → capital deferral ↑ → system cost ↑

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2.7. Capital Backlog & Risk Exposure

Capital Backlog and Risk Exposure captures the gap between the estate the NHS has and the estate it needs. It measures accumulated deferral—what happens when maintenance and renewal fall behind strategic necessity.

Wicked Problems Exposed

- ❖ Deferred investment multiplies operational risk and public visibility of decay.
- ❖ Emergency patching replaces planned stewardship, wasting both capital and morale.
- ❖ Capital starvation erodes equity as some regions modernise while others crumble.

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The challenges, overall, trap the system in a high-risk/low-investment loop:

- ❖ Backlog ↑ → risk exposure ↑ → service interruptions ↑ → reactive spend ↑ → backlog ↑

2.8. Social Determinants of Health

Social Determinants of Health describe the upstream conditions—income, housing, education, work, food security and environment—that shape need, risk and outcomes before care begins. They set the baseline for demand and equity, defining how far the NHS can succeed through treatment alone versus through partnership with the wider civic system.

Wicked Problems Exposed

- ❖ Structural disadvantage generates preventable demand that healthcare cannot resolve on its own, creating a perpetual “treat the fallout” cycle.
- ❖ Misaligned incentives across health, housing, welfare and education block joint investment where it would yield the greatest population benefit.
- ❖ Place-based disparities compound over time, undermining fairness and the perceived legitimacy of national provision.
- ❖ Data fragmentation and weak shared accountability hide upstream drivers, rewarding short-term activity over long-term improvement.

2.9. Estates

Estates describe how the NHS’s physical environment sustains safety, efficiency and belonging. The condition of buildings signals public value; well-maintained spaces enable trust, while decay conveys neglect. Estates sit at the junction of infrastructure, morale and legitimacy.

Wicked Problems Exposed

- ❖ **Deferred Maintenance and Safety Risk** – Chronic underinvestment creates fragility and reactive spending.

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- ❖ **Estate Inflexibility** – Outdated layouts and contracts constrain service redesign and innovation.
- ❖ **Unequal Quality and Legitimacy Erosion** – Disparity of conditions between regions undermines trust and the moral contract of universality.

Overall, the wicked problems form reinforcing loops:

- ❖ Deferred maintenance → emergency spend ↑ → investment capacity ↓ → backlog ↑
- ❖ Inflexible estates → care redesign blocked → innovation ↓ → system strain ↑
- ❖ Regional disparity → trust ↓ → legitimacy ↓ → scrutiny ↑ → funding volatility ↑
- ❖ Outsourced labour → belonging ↓ → quality variation ↑ → risk ↑ → trust ↓

2.10. Workforce Capacity & Morale

Workforce Capacity and Morale reflects the availability, wellbeing and motivation of NHS staff—the moral and operational core of the system.

Wicked Problems Exposed

- ❖ Chronic overload and moral injury erode trust between staff and the system.
- ❖ Violence, incivility and digital overload corrode psychological safety.
- ❖ Hope and progression falter when training integrity and fairness decline.

These feedback loops exacerbate systemic depletion:

- ❖ Burnout ↑ → retention ↓ → workload ↑ → burnout ↑

2.11. Safeguarding

Safeguarding ensures that children and vulnerable adults are protected from abuse, neglect and exploitation within and around the NHS. It is both a clinical discipline and a moral duty—linking vigilance, culture and system design. Its strength signals public trust; its failure exposes systemic fear and fragmentation.

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Wicked Problems Exposed

- ❖ **Fragmented accountability** – Dispersed responsibility across agencies delays intervention and weakens ownership.
- ❖ **Unequal capability and resourcing** – Local variation creates postcode inequity in protection and response.
- ❖ **Fear and fatigue in safeguarding practice** – Fear of blame and emotional overload suppress reporting, learning and compassion.

Overall, the wicked problems form reinforcing loops:

- ❖ Fragmented accountability → delay ↑ → harm risk ↑ → blame anxiety ↑ → learning ↓
- ❖ Unequal capability → inconsistent outcomes ↑ → public trust ↓ → scrutiny ↑ → morale ↓
- ❖ Fear and fatigue → under-reporting ↑ → missed warning signs ↑ → recurrence ↑ → confidence ↓

2.12. Industrial Action & Disruption

Industrial Action and Disruption represents breakdowns in the social contract between the workforce and the system. It shows how unresolved grievances manifest as strikes, attrition and disengagement.

Wicked Problems Exposed

- ❖ Negotiation processes lose legitimacy when trust and respect collapse.
- ❖ Cycles of action and reprisal displace collaboration with confrontation.
- ❖ Public empathy becomes polarised, deepening institutional fatigue.

These issues become self-reinforcing:

- ❖ Strike action → public strain ↑ → system pressure ↑ → goodwill ↓ → action likelihood ↑

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2.13. Operational Productivity

Operational Productivity examines the balance between efficiency and empathy in service delivery. It asks whether throughput gains come at the expense of care quality, learning, or staff wellbeing.

Wicked Problems Exposed

- ❖ Pressure for productivity without reform of process leads to burnout, not improvement.
- ❖ Efficiency drives sever the link between meaning and measurement.
- ❖ Quality becomes invisible when metrics dominate narrative.

Overall, the loops erode sustainable performance:

- ❖ Cost pressure ↑ → resource strain ↑ → productivity shortfall ↑
- ❖ Productivity drive → service fragmentation ↑ → coordination ↓ → productivity loss ↑
- ❖ Tech spend ↑ → workflow misfit ↑ → frustration ↑ → benefit realisation ↓

2.14. Access to Care

Access to Care represents the system's ability to provide timely, equitable services regardless of geography, wealth, or social status.

Wicked Problems Exposed

- ❖ Rising demand and constrained capacity entrench waiting as the rationing mechanism.
- ❖ Inequalities in access amplify regional and social divisions.
- ❖ Digital and service redesigns risk excluding those least equipped to adapt.

These factors reinforce one another:

- ❖ Delay ↑ → acuity ↑ → pressure ↑ → delay ↑
- ❖ Confusion → inappropriate use ↑ → system friction ↑

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2.15. Child Health Equity

Child Health Equity addresses the fairness and consistency of outcomes, access and experience for children across geographies and demographics. It treats child health as a barometer of national wellbeing and a moral index of how the NHS values its future citizens.

2.15.1. Wicked Problems Exposed

1. **Capacity Bottlenecks Across the Pathway** – Even small blockages (e.g. diagnostics, discharge) collapse system flow.
2. **Focus on Targets Over Outcomes** – Gaming behaviours and bureaucratic work-arounds emerge to protect metrics.
3. **Reactive Rather Than Adaptive Systems** – Crisis response dominates, preventing systemic learning and foresight.

The overall dynamics re-inforce one another through multiple feedback loops:

- ❖ Bottlenecks ↑ → Delay ↑ → Queue length ↑ → Pressure ↑ → Bottlenecks ↑
- ❖ Target pressure ↑ → Gaming behaviour ↑ → Data reliability ↓ → Decision quality ↓ → Target pressure ↑
- ❖ Crisis response ↑ → Reflection time ↓ → Learning ↓ → Error recurrence ↑ → Crisis response ↑
- ❖ Responsibility–control mismatch ↑ → Moral distress ↑ → Staff turnover ↑ → Local control ↓ → Responsibility–control mismatch ↑
- ❖ Compassion fatigue ↑ → Error risk ↑ → Scrutiny ↑ → Defensive practice ↑ → Compassion fatigue ↑

2.16. Service Performance

Service Performance reflects how outcomes, experience and safety interact across clinical pathways. It is the visible face of the system's inner health.

Wicked Problems Exposed

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- ❖ Performance regimes prioritise compliance over curiosity.
- ❖ Learning is suppressed when fear of blame outweighs appetite for truth.
- ❖ Metrics distort meaning, rewarding what is countable rather than what counts.

The overall dynamics erode systemic trust:

- ❖ Delay ↑ → harm ↑ → scrutiny ↑ → risk aversion ↑ → delay ↑

2.17. Primary Care & NHS Dentistry

Primary Care and NHS Dentistry form the foundation of public contact with the health system. They embody continuity, prevention and trust—the everyday relationships that hold the NHS together.

Wicked Problems Exposed

- ❖ Contractual misalignment turns relational care into transactional activity.
- ❖ Workforce shortages and commercial drift weaken continuity and access.
- ❖ Uneven dental provision exposes systemic inequity and loss of public faith.

These issues produce reinforcing inequality:

- ❖ Workforce pressure ↑ → continuity ↓ → outcomes ↓ → pressure ↑
- ❖ Dental collapse → A&E and urgent care substitution ↑ → cost ↑

2.18. Risk & Liability Management

Risk and Liability Management describes how the NHS anticipates, absorbs and learns from harm. It reveals the moral tension between safety, accountability and fear of blame.

Wicked Problems Exposed

- ❖ Defensive cultures prioritise protection from blame over protection of patients.
- ❖ Complexity without clarity obscures ownership of risk.
- ❖ Litigation replaces learning, converting tragedy into transaction.

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Overall, the feedback loops reinforce opacity and fragility:

- ❖ Harm → claim ↑ → fear ↑ → reporting ↓ → harm risk ↑
- ❖ Public scandal → blame focus ↑ → morale ↓ → transparency ↓

2.19. Public Satisfaction

Public Satisfaction reflects how the population perceives value, fairness and competence within the NHS. It acts as both mirror and feedback loop for legitimacy.

Wicked Problems Exposed

- ❖ Declining satisfaction signals erosion of shared purpose and belief.
- ❖ Political framing converts public opinion into performance management.
- ❖ Loss of narrative coherence undermines civic trust.

The patterns, overall, re-inforce reputational fragility:

- ❖ Poor access → poor experience → trust ↓ → satisfaction ↓
- ❖ Negative narrative → policy pressure ↑ → tactical decision-making ↑

2.20. Public Legitimacy

Public Legitimacy embodies the moral contract between the NHS and the society it serves. It is sustained when stewardship, fairness and care remain visibly aligned.

Wicked Problems Exposed

- ❖ When fairness falters, legitimacy decays faster than service can recover.
- ❖ Disconnection between rhetoric and lived experience breeds cynicism.
- ❖ Without visible stewardship, reform loses its social mandate.

Overall, the feedback loops reinforce cynicism and distance:

- ❖ Trust ↓ → scrutiny ↑ → defensiveness ↑ → transparency ↓ → trust ↓
- ❖ Crisis-driven narrative → legitimacy volatility ↑ → short-termism ↑ → coherence ↓

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3. The BMA Perspective

Among all professional voices within the NHS, the British Medical Association (BMA) occupies a distinctive position—part union, part guild, part moral witness. Its members move daily between the individual contract and the collective covenant. In the focus groups, BMA representatives spoke less about pay or policy detail than about the erosion of trust—between government and profession and between clinicians and the system they sustain. Their reflections framed the Knowledge Engine framework not as theory but as lived tension: the struggle to heal within an organisation that often feels unwell.

3.1. Voice and Vocation

Participants described the BMA's purpose as defending both profession and patient. One senior negotiator summarised,

“Our job isn't to resist change—it's to remind everyone what change is for.”

They saw their advocacy not as opposition but as guardianship: a check against reform that forgets its human centre. Several recalled the founding ethos of 1948 as a “social contract between science and solidarity,” warning that this bond now risks becoming transactional. When clinicians feel disposable, vocation turns brittle; when vocation fails, systems fragment.

3.2. Moral injury as a system signal

Doctors across specialities spoke of moral injury—the distress of being unable to meet professional standards because of structural constraint. They framed it as both symptom and diagnostic tool. A consultant observed,

“Moral injury isn't Digital Associates weakness; it's the system's pain made visible.”

For the BMA, addressing this injury requires more than wellness programmes; it demands institutional honesty. Participants proposed treating moral injury

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data—burnout scores, exit interviews, grievance themes—as early-warning indicators of systemic dysfunction, akin to infection surveillance. This re-positions industrial relations within the language of patient safety and organisational learning.

3.3. Completeness and accuracy

When asked about the *Knowledge Engine framework*, BMA participants recognised their lived reality in it. They described it as “uncomfortably accurate”—a mirror that finally named the complexity doctors inhabit daily. Yet they argued for deeper exploration of professional autonomy and clinical agency within the model’s *Systems and Structure* domain. One GP committee member noted,

“You can’t fix complexity by deleting discretion.”

They urged that future versions of the Framework include explicit analysis of how command-and-control cultures suppress adaptive capacity. Accuracy, they said, must include emotional truth: the gap between what the system expects and what conscience allows.

3.4. The Workforce Covenant

The BMA’s narrative consistently returned to covenant. Doctors want partnership, not paternalism. They believe the NHS can only sustain care if it cares for its carers. A trainee representative captured the paradox,

“We’re told the NHS is our family—but it sometimes feels like a family that forgets birthdays.”

Participants called for a renewed *Workforce Covenant*, co-produced by staff bodies and government, that would:

- ❖ Guarantee safe staffing ratios and rest entitlements;
- ❖ Link pay progression to skill development rather than endurance;
- ❖ Embed professional voice in system governance; and

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- ❖ Recognise clinical time spent teaching, mentoring and improving systems as service, not indulgence.

This covenant, they said, would operationalise moral safety: a condition where doing the right thing feels possible.

3.5. Points of contention

While participants spoke of partnership, they were candid about the unresolved disputes that define the BMA's current posture toward government and NHS England. Three themes dominated: remuneration, workload and professional voice.

3.5.1. Pay erosion and contractual drift.

Doctors across grades highlighted the cumulative effect of below-inflation pay awards over more than a decade. They noted that average real-terms income for junior and senior doctors has fallen by 25–30% since 2008, driving record industrial action. A consultant representative stated,

"We can't build a future on goodwill alone—it's already overdrawn."

Participants argued that restoring pay to pre-austerity levels is not simply about income but about parity of respect. They called for an independent pay-review mechanism with binding recommendations and transparent cost modelling. Short-term "deal politics," they said, corrodes both trust and planning.

3.5.2. Workload and safe staffing.

The BMA's second major contention concerns workload intensity and rota gaps. Members described unsafe staffing as the hidden pandemic behind waiting-list recovery. They proposed statutory staffing ratios and protected rest periods equivalent to those in aviation safety standards. Without such safeguards, they warned, moral injury becomes institutionalised. A junior doctor put it starkly,

"You can't legislate resilience—you have to staff it."

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3.5.3. Pensions and retention.

Consultants cited punitive pension taxation as a direct driver of early retirement. They urged alignment of NHS pension thresholds with inflation and public-sector comparators, noting that each exit compounds the mentorship gap for trainees. Addressing pensions, they argued, is therefore a retention policy, not a fiscal perk.

3.5.4. Professional autonomy.

Finally, members expressed concern that top-down performance regimes undermine clinical judgement. They called for contractual recognition of professional discretion—the freedom to adapt care to context without fear of penalty. As one negotiator observed,

“Accountability doesn’t mean control. It means being trusted to do the right thing when no one is watching.”

For the BMA, these contentions are not obstacles to partnership but preconditions for it: fair pay, safe staffing, dignified retirement and respect for clinical agency. Without them, dialogue risks becoming choreography; with them, reform becomes credible.

3.6. Trust and transparency

Trust between the BMA and policymakers has fluctuated with each reform cycle. Participants spoke of negotiation fatigue—the sense that dialogue too often begins after decisions are made. They called for “grown-up transparency”: access to fiscal assumptions, workforce modelling and risk registers during policy formulation, not post-hoc. A regional leader said,

“We can compromise on outcomes, not on honesty.”

They proposed embedding BMA observers in national workforce and pay-review processes to create shared accountability for evidence.

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3.7. Doctors as system stewards

Beyond advocacy, participants expressed willingness to act as stewards of system recovery. They described the profession's collective intelligence as an underused asset in service redesign, data interpretation and ethical innovation. An emergency physician remarked,

"We already lead every night—we just stop leading when the sun comes up."

Participants called for a structured mechanism—perhaps a *National Clinical Stewardship Forum*—linking the BMA, Royal Colleges and ICB leadership to translate front-line insight into policy learning. Such a forum would bridge short-loop operational feedback with long-loop strategic sense-making.

3.8. Equity within the profession

The BMA also reflected on its own internal evolution. Younger and more diverse members are re-defining what professional solidarity means. Issues of gender equity, race, disability and flexible training are no longer peripheral—they shape the credibility of representation itself. A junior doctor observed,

"If we can't be inclusive inside the profession, how can we preach equality outside it?"

Participants described ongoing reforms to governance and communication aimed at making the Association more porous, listening-driven and representative of modern medicine's plurality.

3.9. Adaptive partnership

The BMA's ultimate message was pragmatic: partnership must be adaptive, not adversarial. They acknowledged that fiscal constraint is real and public trust precious. What they asked for was participation in prioritisation—shared ownership of trade-offs. A committee member put it simply,

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“If we help decide what to cut, we’ll help defend it.”

Such inclusion transforms opposition into stewardship and converts negotiation into collective problem-solving.

3.10. Closing reflection

The BMA’s perspective, distilled through these dialogues, is both pragmatic and principled. Beneath the industrial action lies not opportunism but exhaustion—a profession asking whether the system still honours its side of the covenant. Doctors spoke of pay erosion, unsafe workloads, punitive pension rules and shrinking autonomy not as isolated grievances but as evidence of a broken relationship between labour and leadership. Each issue, they argued, signals a deeper loss of coherence: when vocation is priced below value, resilience becomes rhetoric.

For many, the strike is not merely about money but meaning. Pay represents parity of esteem; staffing ratios represent moral safety; pension fairness represents continuity of experience; autonomy represents trust. Addressing these contentions is therefore not transactional—it is existential. As one consultant observed,

“If we can’t look after the people who hold the line, the line itself will move.”

The BMA’s challenge to the NHS and government is clear: reform cannot proceed while its architects are exhausted. Fair reward, safe conditions and professional respect are the infrastructure of credibility. Without them, strategy collapses into slogans. With them, the system regains both conscience and capacity.

In the language of the Adaptive Framework, the BMA’s demands represent the moral preconditions of long-loop learning. A service that cannot sustain its healers cannot sustain its memory. Partnership, they insist, must begin with parity—not as a bargaining point but as a statement of belief that the NHS’s future depends on those who still choose to serve it.

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4. The Role of Integrated Care Boards and Integrated Care Systems

Integrated Care Boards (ICBs) and Integrated Care Systems (ICSs) were conceived as the structural and cultural hinge of NHS reform—bodies designed to align decision-making, stewardship and population health at a scale larger than individual Trusts but closer to communities than national command.

Within the *Knowledge Engine framework*, they represent the connective architecture between purpose and practice: the place where system intent becomes operational reality. Interviews and focus groups revealed that ICBs and ICSs are both the NHS's most ambitious innovation and its most fragile frontier.

4.1. Origins and Purpose

Participants traced the genesis of the ICB model to a collective fatigue with transactional commissioning. The new systems promised to replace competitive logic with collaborative purpose—“moving from contract to covenant,” as one former CCG¹ lead put it. The hope was that integration would restore coherence across fragmented services, bridging acute, primary, community and social care. An ICB chair reflected,

“The language of integration isn’t new, but for the first time we’ve been given a structure that could make it real—if we’re brave enough to use it differently.”

In practice, however, the shift from purchaser–provider relationships to genuine partnership has been uneven. Where Trusts and local authorities have histories of co-operation, ICSs have matured quickly; elsewhere, the gravitational pull of legacy accountabilities remains strong.

¹ Clinical Commissioning Group

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4.2. Governance and Stewardship

Interviewees described ICBs as hybrid creatures: part board, part convener, part broker. This hybridity is their strength and their strain. Their statutory duties—finance, quality, performance—pull them toward traditional compliance, while their system duties—equity, prevention, collaboration—require a posture of shared risk and moral imagination. One chief executive observed,

“We were told to be partners, but we’re still judged as organisations. The metrics haven’t caught up with the mission.”

Several participants emphasised the concept of *stewardship* over control. ICBs that frame themselves as stewards—curating alignment rather than commanding compliance—report higher trust among partners. This style echoes the adaptive governance principles of the *Knowledge Engine framework*: coherence built through relationship, not hierarchy.

4.3. Boundaries and Legitimacy

Boundaries remain porous yet contested. ICBs sit between NHS England’s oversight and local government’s democratic legitimacy. While this dual accountability was intended to foster joint ownership, many systems experience it as tension. A local authority representative remarked,

“We’re meant to share responsibility, but not all of us are equally elected—or equally funded.”

The result is an ongoing negotiation between professional and civic authority. Participants warned that if this balance is not handled with care, ICSs risk being perceived as “shadow hierarchies”—neither locally owned nor nationally trusted. Some proposed statutory clarification of public accountability, possibly through a local stewardship charter endorsed by all partner organisations.

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4.4. Cultural Integration

Beyond governance, culture emerged as the defining challenge. Integration, participants said, is not an act of structural assembly but of mutual recognition. A nurse leader summarised:

“We’ve merged the meetings, not the meanings.”

Successful systems cultivate a culture of *invitational leadership*: listening across boundaries, tolerating ambiguity and honouring different languages of value. ICB chairs noted that progress accelerates when clinicians, managers and local authorities see each other not as stakeholders but as co-authors of a shared moral project—health as social wellbeing, not service throughput. This cultural shift mirrors the Framework’s principle of *coherence without uniformity*.

4.5. Adaptive Practice

The most advanced ICSs treat integration as a learning process. They maintain iterative cycles of reflection—reviewing population data, frontline feedback and financial signals to recalibrate priorities quarterly rather than annually. An ICB medical director explained,

“We’ve stopped writing five-year plans and started running ninety-day experiments.”

This adaptive approach aligns with Tier 0 of the Framework, *Stewardship and Learning*, turning integration from policy into practice. Systems that embed feedback loops—through citizen panels, staff insight forums and shared digital observatories—report higher responsiveness and morale. Others, constrained by regulatory or financial rigidity, risk reverting to transactional behaviour under pressure.

4.6. Equity and Place

ICBs were tasked with narrowing health inequalities through place-based planning. Interviewees agreed that this mission remains aspirational but unevenly realised.

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Some ICSs have developed strong “place collaboratives,” devolving budgets and authority to local alliances; others still manage integration through top-down coordination. A community GP offered a caution:

“Place is where people feel policy. If integration doesn’t change the street-level story, it’s just new stationery.”

Participants proposed using population health data not merely for epidemiology but as a relational tool—mapping connections between housing, education and care provision to guide collective investment. This reflects the Framework’s call for *horizontal intelligence*: systems learning with and from their communities.

4.7. Financial Architecture

Finance remains both the enabler and inhibitor of integration. While ICBs hold single-pot allocations, underlying contracting rules still encourage organisational self-protection. Finance directors described the paradox succinctly:

“We share the purse but not the risk appetite.”

Several suggested introducing an *adaptive finance model*, weighting resources not only by activity but by collaboration index—rewarding behaviours that reduce friction between partners. Others called for multi-year settlements to provide the temporal space for prevention initiatives to mature, echoing the Framework’s argument for long-loop learning.

4.8. Accountability and Learning

The most resonant theme was the need for transparent feedback about what integration achieves. Participants proposed annual “learning reviews” replacing or complementing traditional performance assessments. Such reviews would capture narrative as well as numerical progress—stories of trust, innovation and shared problem-solving—thereby aligning oversight with the system’s real work. A regional director commented,

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“We measure everything except understanding. That’s why trust is always off-balance sheet.”

Embedding these learning reviews into the Framework’s Tier 0 would formalise adaptivity: a visible loop between lived experience and system governance.

4.9. Closing Reflection

Across all interviews, ICBs and ICSs emerged as both experiment and mirror—the NHS testing its capacity for collective intelligence. Where they succeed, integration feels less like reorganisation and more like re-humanisation: people and institutions rediscovering shared purpose in a crowded moral landscape. Where they falter, legacy incentives and defensive accountability reassert themselves.

“Integration isn’t an outcome; it’s a behaviour,” said one ICS chief. “The system changes the moment we do.”

In the Adaptive Framework, ICBs and ICSs thus become the NHS’s learning organs: structures through which the service perceives, interprets and corrects itself. Their role is not to command coherence but to curate it—to make the whole system capable of seeing itself clearly and acting together with compassion.

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5. Opportunities for the Economically Inactive

The NHS's relationship with the economically inactive population is often framed in terms of cost—lost productivity, rising welfare claims and pressure on primary care. Yet interviews and focus groups suggested that this group also represents one of the nation's largest untapped health and economic opportunities. If the *Knowledge Engine framework* teaches that every deficit hides a latent feedback loop, then economic inactivity is less a sinkhole and more a potential reservoir of renewal.

5.1. Reframing the Problem

Participants rejected the notion that inactivity is a single condition. It is a composite of health limitations, caring responsibilities, educational barriers, housing precarity and cumulative disadvantage. As one ICB analyst observed,

“We keep treating ‘economically inactive’ as a number. It’s really a story about time, health and hope.”

They argued that seeing inactivity through a systems lens dissolves the boundary between employment policy and population health. Many of those currently outside the labour market are patients, carers, or volunteers within the NHS ecosystem itself—agents of informal care whose wellbeing directly shapes formal service demand.

5.2. Health as Employability Infrastructure

Clinicians and public-health leads emphasised that workforce participation and health status move together. They described primary care not merely as treatment but as economic infrastructure: a distributed engine of employability. An occupational therapist summarised the logic simply,

“Every time we prevent a chronic flare-up, we protect someone’s future payslip.”

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Several participants proposed pilot programmes linking ICB prevention budgets to local economic-development funds, creating joint accountability for both wellbeing and employment outcomes. This would operationalise the Framework’s Tier 1 link between *Access to Care* and *Public Legitimacy*, turning virtuous cycles into measurable returns.

5.3. Local Partnerships and Anchor Institutions

Trust executives highlighted the NHS’s role as an “anchor institution”—the largest employer in many localities and a gateway to vocational rehabilitation. Some systems already run supported-employment schemes for people with long-term conditions or learning disabilities, often in partnership with social enterprises or further-education colleges. A Chief People Officer explained,

“We used to talk about getting people off the NHS books. Now we talk about getting them on the payroll.”

These initiatives illustrate how health organisations can create pathways from recovery to work, closing the loop between clinical and economic resilience. Participants suggested formalising such programmes as an ICB-level metric—*Employment Reintegration Rate*—to sit alongside waiting-time and prevention indicators.

5.4. The Care Economy Multiplier

Several focus groups explored the untapped value of unpaid care. An estimated five million people provide informal care to relatives or neighbours, many outside formal employment. Recognising and supporting this work could, participants argued, transform inactivity from a liability into a productive form of social capital. One carer advocate remarked,

“We already run the biggest care workforce in Britain—we just don’t pay it, train it, or count it.”

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By investing in respite, micro-credentialed training and flexible re-entry programmes, ICBs could convert care experience into employable competence. This aligns with the Framework's Tier 2 domain on *Workforce Capacity and Morale*, treating wellbeing and capability as mutually reinforcing assets.

5.5. Digital and Flexible Pathways

Economic inactivity often intersects with mobility, geography and confidence. Digital innovation—remote work, tele-rehabilitation, virtual volunteering—offers new gradients back into participation. ICB digital leads described partnerships with local authorities to re-purpose community diagnostic hubs as digital-skills centres. A transformation lead noted,

“For some patients, the first recovery milestone isn't walking—it's logging in.”

These initiatives highlight adaptivity in practice: health systems acting as laboratories for inclusive technology. However, participants cautioned that digital inclusion must remain a social contract, not a market commodity. Connectivity, equipment and digital literacy should be treated as determinants of health, funded with the same seriousness as medication adherence.

5.6. From Conditionality to Capability

Policy debates often focus on conditionality—linking benefits to work requirements—but participants urged a shift toward capability building. They described programmes where multidisciplinary teams (GPs, physiotherapists, job coaches, mental-health practitioners) co-design Digital Associated “work readiness” plans. These plans are iterative, adjusting as health improves or fluctuates. A community-health manager observed,

“People re-enter work the same way they re-enter fitness—gradually, with coaching, not coercion.”

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Such models embody the Framework's principle of *learning through use*: employment support as adaptive experimentation rather than static policy.

5.7. Measuring the Invisible

Several interviewees criticised current metrics for masking progress. Employment statistics capture only binary states—working or not—but miss transitional gains such as volunteering, training, or reduced healthcare utilisation. Participants proposed a composite *Participation Index* combining physical-activity data, wellbeing scores and community contribution measures. A regional economist suggested weighting the index by “prevented demand”—estimating NHS savings from re-engagement initiatives.

“If we valued the recovery journey as much as the destination, inactivity would already look like growth.”

This data philosophy mirrors the Adaptive Framework's call for metrics that measure *movement*, not just endpoints.

5.8. Barriers and Enablers

Key barriers remain: inconsistent cross-departmental funding, short-term pilots and fear of failure within performance regimes. Yet participants identified several enablers of momentum:

- ❖ **Shared Budgets:** pooled funding between ICBs, Jobcentre Plus and local authorities.
- ❖ **Long-Loop Accountability:** outcomes measured over three- to five-year horizons.
- ❖ **Narrative Legitimacy:** public stories that reframe recovery as contribution.

Systems that adopted these enablers reported stronger collaboration and morale. As one ICS finance director put it,

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“We discovered that hope is cheaper than bureaucracy—it just takes longer to budget for.”

5.9. Linking to National Strategy

National policymakers saw in these experiments a route to both fiscal sustainability and social renewal. They advocated embedding ICB-led employment pilots within the Treasury’s productivity framework, treating population health as a macro-economic input. This would institutionalise what participants already feel intuitively: the NHS is not merely a cost centre but a platform for human capital formation.

5.10. Closing Reflection

The economically inactive are not outside the system—they are its unacknowledged mirror. They reveal how illness, care and opportunity interlock. In an adaptive NHS, integration should mean integrating people back into meaningful participation, on their own terms and timelines. As one public-health director concluded,

“The goal isn’t to push people into jobs—it’s to pull society back into purpose.”

Harnessing this potential demands the same virtues that underpin the *Knowledge Engine framework*: patience, empathy and learning in public. If achieved, the NHS would not only heal bodies but re-activate lives, turning inactivity into a national apprenticeship in wellbeing.

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6. Vision for the NHS

Every system eventually confronts the question of what it is for. For the NHS, that question has become urgent.

After seventy-five years of continual reform, its purpose has become diffuse — fragmented between service provision, political symbol and moral covenant.

The challenge, participants agreed, is not to invent a new vision but to rediscover one capable of holding complexity without losing clarity. As one Trust chair observed,

“The NHS doesn’t need a new story. It needs to remember the one we keep re-writing.”

This section gathers the aspirations expressed across interviews and focus groups into a coherent statement of direction: a vision grounded in stewardship, human flourishing and adaptive learning.

6.1. A Public Good, not a Public Burden

Participants spoke with emotion about the NHS’s founding ethic—the conviction that collective wellbeing is both a moral and economic good. They rejected narratives that cast the service as a fiscal liability or bureaucratic relic. A senior clinician reflected,

“We spend more time justifying our existence than living up to it. Health isn’t the drain—it’s the dividend.”

The vision that emerged reclaims the NHS as an investment in national capability: a platform for prevention, participation and purpose. When people are healthy, they learn, work and care; the nation’s capacity expands. The system’s value lies not only in curing illness but in sustaining the conditions of collective life.

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6.2. From Service to System of Meaning

Many contributors described the NHS as “Britain’s social language”—the institution through which values of fairness, compassion and solidarity are made tangible. A nurse leader put it succinctly:

“We are not a service industry; we are a covenant of care.”

The vision therefore extends beyond efficiency to meaning: an NHS that acts as a civic commons where care is both given and received with dignity. Participants argued that this moral centre must be explicitly defended. Without it, policy risks collapsing into management and citizenship into consumerism.

6.3. Integrated Care as a way of being

The advent of Integrated Care Systems (ICSs) was repeatedly cited as the structural expression of a deeper aspiration: to see health as shared stewardship.

In this vision, integration is not a re-organisation but a way of being—organisations, professionals and citizens recognising their interdependence. An ICB chief executive summarised the hope:

“If we can learn to plan like one system, maybe we can start to think like one society.”

Participants imagined an NHS where boundaries between physical, mental and social health blur into coordinated practice; where digital tools extend care rather than replace contact; and where local knowledge shapes national learning through open feedback loops.

6.4. Health as a Social Contract

The vision that emerged redefines health as a mutual enterprise rather than a commodity. Citizens are not passive recipients but co-creators of wellbeing. A public representative on an ICS board said,

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“People don’t want to consume the NHS—they want to belong to it.”

This relational view implies a shift from entitlement to engagement: shared responsibility for prevention, resilience and equity. Participants proposed civic-health compacts at local level—formal agreements that align public services, employers and communities around common wellbeing goals. These compacts, renewed annually, could become living expressions of trust between the state and its citizens.

6.5. Workforce as the moral centre

Across every professional group, the workforce was described as the embodiment of the NHS’s moral economy. Nurses, doctors and allied staff give meaning to policy through daily acts of care, often at Digital Associates’ cost. A union representative noted,

“Our people are the vision—they’re just too tired to articulate it right now.”

The vision therefore demands a renewed covenant with staff: fair pay, psychological safety and time to learn. Several interviewees suggested framing workforce wellbeing as a national resilience indicator, reported alongside GDP or inflation. This would signal that compassion is not a soft value but a hard determinant of system performance.

6.6. Innovation with integrity

Participants welcomed technological and scientific innovation but insisted that progress must serve purpose. Digital tools, genomics and AI should amplify human judgement, not replace it. An ICB digital lead expressed a widely shared sentiment:

“We’ll know we’ve got AI right when it gives us back time to care.”

The vision is one of *human-centred innovation*: technology as a companion to empathy. This aligns with the Adaptive Framework’s principle of *reflexive intelligence*—learning that keeps the moral trace intact.

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6.7. Equity as the measure of success

No word appeared more frequently in discussions than equity. Participants warned that inequality has become the NHS's slow pandemic, visible in life expectancy gaps, workforce burnout and regional deprivation. They argued that equity must replace throughput as the system's primary performance measure. A public-health director stated,

"If the poorest are still dying sooner, no amount of activity counts as success."

The vision enshrines equity as both goal and method: policies are judged not only by outcomes but by who is included in the process of shaping them.

6.8. Learning as leadership

In the Adaptive Framework, leadership is re-defined as collective learning in action. Participants envisioned an NHS that models intellectual humility — open to critique, transparent about error and curious about possibility. One Trust CEO captured the shift:

"We used to think leadership was about knowing. Now it's about noticing."

This philosophy translates into practice through annual reflection cycles, cross-tier learning reviews and open data on system performance. The NHS becomes not only a healthcare provider but a national school of adaptive governance.

6.9. Global Responsibility

Several contributors placed the NHS within a wider planetary context. They noted that the service's credibility abroad — its ability to attract staff, share research and influence policy — depends on living its values at home. A consultant working on international partnerships remarked,

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“The NHS is Britain’s moral export. The world watches how we treat our healers.”

Sustainability, inclusivity and evidence-based compassion were seen as the service’s best contributions to global health diplomacy. Participants urged that the NHS treat net-zero commitments and fair recruitment not as compliance targets but as expressions of care extended across borders.

6.10. Closing Reflection

The vision articulated through these conversations is neither nostalgic nor technocratic. It is an invitation to coherence: a health service that learns, loves and lasts. Participants spoke of an NHS that is *curious in crisis, humble in success and kind in everything*. As one nurse concluded,

“Our dream isn’t to go back to 1948—it’s to prove that solidarity still works.”

Such a vision cannot be delivered by strategy alone. It must be lived daily through decisions that honour both data and dignity. In that sense, the NHS’s future may depend less on new structures than on a renewed faith that health, at its deepest, is what a society chooses to hold in common.

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7. Outsourcing

The NHS has long relied on outsourcing to supplement capacity, contain costs and import expertise. Yet the practice operates on two very different planes. At the operational level, outsourcing patient-facing services shapes how care itself is delivered — affecting quality, continuity and workforce morale. At the strategic level, outsourcing policy advice determines how the system thinks — affecting memory, learning and long-term coherence.

For clarity, this analysis therefore distinguishes between:

1. **Outsourcing of Patient-Facing Services: Returning Competence to Care** — examining the practical and ethical case for in-sourcing clinical and support functions to re-build capability and trust.
2. **Outsourcing Policy Advice: Memory, Learning and Stewardship** — exploring how the externalisation of thinking erodes institutional memory and what adaptive governance requires to restore it.

Taken together, the two perspectives reveal outsourcing as a test of stewardship: whether the NHS can work with partners without surrendering its capacity to learn.

7.1. Patient-Facing Services

Few subjects provoke stronger feelings within the NHS than the outsourcing of patient-facing services.

To clinicians, it touches the integrity of care; to managers, the pressure of delivery; to patients, the meaning of trust.

Digital proxies across interviews and focus groups described outsourcing as a symptom of system fatigue — an attempt to buy capacity when coherence has run thin. What emerged was not hostility to partnership but a yearning to bring capability, learning and pride back home.

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7.1.1. The Historical Drift

From community diagnostics to elective surgery and out-of-hours primary care, successive policy cycles have externalised clinical work in the name of efficiency. Private hospitals, social enterprises and agency providers now perform functions once considered core. A senior nurse observed,

“Every reform promises more choice, but what patients really want is continuity.”

This drift, the digital proxies argued, was rarely planned. It evolved through crisis procurement, staff shortages and fiscal short-termism. Each episode was rational in isolation; cumulatively, they hollowed institutional competence. When expertise moves out faster than it regenerates inside, a service ceases to learn from its own experience.

7.1.2. The Experience of Transfer

Staff who transferred under outsourcing arrangements described ambivalence. While some gained new skills or flexibility, most felt a loss of belonging. A radiographer recalled,

“The work stayed the same, but the handshake changed. Suddenly we were visitors in our own hospital.”

The digital proxies linked morale decline to the disappearance of shared identity. When cleaning, catering and clinical support functions became separate employers, the everyday bonds that sustain safety and kindness frayed. Errors that once triggered informal mentoring now triggered incident reports. As one matron put it,

“We lost the gossip that fixed the system.”

These stories reveal outsourcing’s hidden cost: the erosion of tacit knowledge that cannot be contracted back.

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7.1.3. Quality, Safety and Accountability

Clinical outsourcing introduces complex accountability chains. Trust boards remain legally responsible for outcomes delivered by staff they do not manage, using equipment they do not own. ICB quality leads described the cognitive load of policing multiple providers with incompatible data systems and divergent cultures. A medical director summarised,

“When responsibility is shared, it is usually shared out of existence.”

The digital proxies proposed that patient-facing services be considered “strategic functions,” insulated from market churn. Where external provision remains necessary — such as for short-term backlog reduction — contracts should include mandatory knowledge-transfer and shadow-management clauses to preserve organisational learning.

7.1.4. Economic Illusions

Finance directors were frank about the arithmetic of outsourcing. Headline savings often ignore transaction costs: tendering, monitoring, legal risk and re-integration. One explained,

“Outsourcing gives you liquidity, not efficiency—it buys time, not value.”

Several cited cases where insourcing teams back into the NHS reduced expenditure within two years through lower turnover and better co-ordination.

The digital proxies urged the Treasury and the DHSC to adopt “whole-system accounting” that recognises capability retention as an asset. True efficiency, they argued, lies in reducing friction, not headcount.

7.1.5. Continuity as Care

Across professional groups, continuity was described as a clinical intervention in its own right. Patients who encounter stable teams experience fewer errors, higher adherence and greater trust. A GP from the Midlands offered a vivid metaphor,

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“You can’t heal through revolving doors.”

In this light, insourcing becomes not nostalgia but quality improvement. By bringing diagnostic, community and elective services back under integrated management, systems can restore feedback between action and learning. Errors become lessons; lessons become culture.

7.1.6. The Insourcing Movement

Several Trusts reported active insourcing programmes—re-absorbing agency theatres, imaging units and even entire cleaning contracts. Early results show gains in morale and reliability. An operations lead commented,

“When people wear the same badge, the corridor conversations start again.”

Participants emphasised that insourcing need not mean isolation. It means redefining partnership: external expertise invited in to build internal capacity, not to replace it. Some proposed “rotational partnerships” where NHS and private-sector clinicians alternate roles, ensuring that skills circulate rather than segregate.

7.1.7. Regulation and procurement reform

Current procurement rules favour competition over collaboration. Short contract cycles encourage providers to under-bid and under-invest. ICB leaders called for a new regime of “relational commissioning,” modelled on social-value frameworks. Contracts would be evaluated not only on cost and output but on contribution to system learning, workforce development and environmental sustainability. A procurement officer summarised,

“If learning isn’t in the contract, forgetting will be.”

The digital proxies urged NHS England to issue national guidance recognising insourcing as a strategic option equal to outsourcing, supported by capital access and workforce planning.

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7.1.8. Digital outsourcing and data sovereignty

The growth of digital outsourcing — cloud platforms, remote triage and electronic record hosting — poses a new frontier. While external partners bring innovation, they also create dependency. Several ICBs reported difficulty retrieving raw data after contract termination, impeding analytics and research. A chief information officer reflected,

“We outsourced our servers and accidentally outsourced our memory.”

The adaptive solution proposed was “digital dual-key ownership”: vendors manage infrastructure, but data architecture and code remain open-standard and co-governed. This ensures that learning derived from patient data stays within public stewardship.

7.1.9. Workforce morale and belonging

Outsourcing intersects powerfully with workforce morale. Agency dependence fragments teams and erodes mentoring pathways. The digital proxies described a shift from vocation to transaction: clinicians becoming itinerant labour rather than members of learning communities. A junior doctor confessed,

“You stop investing emotionally when you might be somewhere else next month.”

Insourcing therefore doubles as workforce restoration. Stable employment fosters psychological safety — the pre-condition for speaking up, sharing insight and cultivating excellence. The digital proxies proposed that national workforce strategies treat insourcing metrics as indicators of organisational health.

7.1.10. Equity and local economies

Outsourcing also re-distributes value geographically. Large national contracts siphon revenue from local economies, whereas insourced services circulate wages and procurement within communities. ICBs noted that bringing catering, maintenance and non-clinical roles back in-house increased local employment and reduced turnover. A council partner said,

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“When we spend locally, people see the NHS as theirs again.”

This “anchor effect” aligns with the Adaptive Framework’s tier on *Public Legitimacy*: economic belonging re-inforcing civic trust.

7.1.11. Adaptive Principles for a Mixed Economy

The digital proxies recognised that some external partnerships will remain essential — particularly for specialised technology or surge capacity. The task is to govern these relationships adaptively. Key principles include:

- ❖ **Purpose Clarity:** outsource only for learning or innovation, not for short-term relief.
- ❖ **Reciprocity:** require knowledge transfer and staff development in every contract.
- ❖ **Transparency:** publish evaluation data, including hidden costs and social impact.
- ❖ **Temporal Discipline:** limit duration to the period necessary for capability transfer.

These principles convert outsourcing from transaction to pedagogy — the system learning through exchange rather than dependence.

7.1.12. Closing Reflection

Across all interviews, a quiet consensus formed: patient-facing services belong at the moral centre of the NHS. They are where trust is produced, where reputation is earned and where learning begins. When those functions are externalised, the NHS risks mistaking delegation for evolution. As one ICS chair concluded,

“Every time we bring a service back in, we don’t just reclaim the staff—we reclaim our story.”

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The path forward is neither market retreat nor market zeal, but stewardship: deciding case by case what must remain public to keep the system whole. Insourcing is thus not merely operational — it is restorative. It repairs the feedback loops between purpose, people and practice that make the NHS a living institution. Efficiency may balance books, but coherence keeps promises. Returning competence to care is how the service remembers itself.

7.2. Policy Advice

If patient-facing outsourcing fragments care, the outsourcing of policy advice fragments understanding. The digital proxies described a revolving door of external consultants, task forces and temporary reviews — each arriving with authority, departing with insight and leaving the system intellectually lighter. What began as a quest for expertise has become, in the words of one senior official,

“A perpetual apprenticeship in our own history.”

7.2.1. The Contracting of cognition

From management consultancies in the 1990s to delivery units and analytic accelerators today, successive governments have sought agility through external intellect. These partnerships often yield high-quality diagnostics and rapid prototypes, yet they also externalise reflection itself. A departmental adviser remarked,

“We’ve learned to outsource thinking in bulk but retain very little of the thought.”

Policy becomes episodic — solving each problem afresh rather than building cumulative wisdom. Advisory memory evaporates as contracts end, teams dissolve and documentation migrates to private archives.

7.2.2. The Cost of forgetting

The immediate price is redundancy: reforms repeat errors disguised as innovation. An historian of health policy traced identical commissioning models re-surfacing every decade under new branding. Without an institutional ledger of lessons,

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each generation relearns the limits of performance targets, market incentives or structural re-organisation. As one ICB leader put it,

“We don’t suffer from bad ideas. We suffer from good ideas with amnesia.”

This loss of organisational memory weakens strategic resilience. Systems that cannot recall their own experiments become trapped in short-loop intelligence — reactive, data-rich but wisdom-poor.

7.2.3. Arie de Geus and the discipline of Organisational Learning

The reflections of *Arie de Geus* in *The Living Company* illuminate the dilemma. De Geus observed that enduring organisations behave more like living organisms than machines: they survive because they learn faster than their environment changes.

Their longevity depends on three habits:

- ❖ *sensitivity to context*
- ❖ *tolerance of experimentation*
- ❖ *memory of experience.*

When governments replace these habits with cyclical contracting, they convert learning into procurement. The NHS, the digital proxies argued, must rediscover itself as a learning company: a service whose intelligence resides not in documents but in relationships capable of remembering.

7.2.4. Institutional Memory as infrastructure

Several contributors proposed treating institutional memory as national infrastructure — something to be engineered and funded. They imagined a permanent **NHS Reform Archive**: an open repository of policy designs, pilot data and evaluation reports. Each major initiative would deposit its evidence, rationale and outcomes within a searchable, enduring system. A civil servant explained,

“Every time we lose a minister, a consultant, or a file-server, we amputate a piece of collective intelligence.”

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Such an archive would allow policymakers to ask, before launching reform, what the system already knows. It embodies the Framework's Tier 0 principle — *Stewardship and Learning*—turning history into a strategic resource rather than an embarrassment to be forgotten.

7.2.5. Consultancy culture and cognitive dependency

Interviewees recognised the legitimate role of external expertise — specialised modelling, international comparison, surge analysis — but warned against dependency. Short tenure inside the civil service, combined with political volatility, has produced a culture of commissioned cognition. A former policy director confessed,

| *"We keep consultants on retainers because our own retention is broken."*

The result is a hollow core: brilliant presentations with no memory of implementation. The digital proxies proposed limiting repeat engagements by the same firm without demonstrable knowledge transfer, ensuring that learning migrates inward after each contract.

7.2.6. Long-loop intelligence

The Adaptive Framework distinguishes between *short-loop* intelligence—fast data, immediate adjustment—and *long-loop* intelligence—reflection across cycles and generations. Effective stewardship requires both. Outsourced policy advice privileges the short loop: it optimises dashboards but neglects doctrine. To restore balance, the digital proxies advocated for an **NHS Stewardship Council** charged with maintaining longitudinal learning: mapping how ideas evolve, succeed or fade. Its remit would include annual "learning reviews", synthesising what reforms achieved and what unintended effects arose. As one analyst noted,

| *"If we can see our loops, we can stop running in circles."*

7.2.7. Adaptive commissioning for insight

The problem is not outsourcing per se but how it is commissioned. Adaptive commissioning frames each contract as an experiment in mutual learning. Deliverables

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include reflective debriefs, co-authored publications and embedded secondments. Knowledge becomes a joint product, not a by-product. Several departments already pilot this model, requiring consultants to leave behind open datasets, training materials and narrative evaluations. A participant summarised the principle succinctly:

“Buy thinking, not thinkers — so the thinking stays when they go.”

7.2.8. Psychological safety for reflection

Organisational learning also depends on psychological safety. Officials must be free to record missteps without fear of reprisal. Digital proxies recommended protected “after-action dialogues” following major policy initiatives, akin to clinical morbidity reviews. Insights would feed the Reform Archive, anonymised but candid. This normalises failure as data — a cultural shift from blame to curiosity.

7.2.9. Digital memory and knowledge stewardship

Technology offers new tools for institutional remembrance. A living knowledge platform could link policy artefacts, minutes and outcome metrics through semantic tagging. Machine-learning models might surface historical analogues to current proposals, warning when an idea replicates a prior failure. Yet the digital proxies cautioned that digital storage is not memory unless someone interprets it. A systems engineer remarked,

“We keep everything except the meaning.”

Hence the need for dedicated knowledge stewards — professionals whose role is to curate, narrate and transmit institutional experience across generations.

7.2.10. The moral dimension of memory

Beyond efficiency, memory carries moral weight.

To forget is to disrespect those who acted in good faith before us. Nurses spoke of the emotional resonance between clinical handovers and institutional ones. A

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senior matron reflected,

“We tell the next shift what we saw, so the patient’s story continues. Policy deserves the same courtesy.”

Institutional memory, then, is not bureaucracy — it is empathy extended through time.

7.2.11. Governance and stewardship

The digital proxies proposed embedding a “learning impact assessment” within the governance process for new reforms. Before approval, each initiative would answer three questions:

1. What prior evidence or experiment informs this decision?
2. How will new learning be captured and shared?
3. Who is responsible for remembering?

This framework converts de Geus’s philosophy into administrative practice. The act of remembering becomes a duty of stewardship, not a hobby of historians.

7.2.12. Closing Reflection

Outsourcing policy advice once promised objectivity and speed; unchecked, it delivered amnesia. digital proxies across sectors called for a new covenant between ministers, officials and citizens: a commitment to learn in public. The goal is not to nationalise expertise but to domesticate wisdom — to ensure every external insight enriches internal capacity. As one ICB chair concluded,

“We don’t need fewer consultants. We need fewer strangers to our own story.”

In the Adaptive Framework, memory is strategy. An NHS that remembers becomes adaptive by design— a living organisation capable of revising itself without losing itself. Or, as Arie de Geus might remind us, the secret of longevity is not scale, but self-awareness: the grace to keep learning before experience becomes loss.

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This philosophy translates into practice through annual reflection cycles, cross-tier learning reviews and open data on system performance. The NHS becomes not only a healthcare provider but a national school of adaptive governance.

8.9. Global Responsibility

Several contributors placed the NHS within a wider planetary context. They noted that the service's credibility abroad — its ability to attract staff, share research and influence policy — depends on living its values at home. A consultant working on international partnerships remarked,

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“The NHS is Britain’s moral export. The world watches how we treat our healers.”

Sustainability, inclusivity and evidence-based compassion were seen as the service’s best contributions to global health diplomacy. Participants urged that the NHS treat net-zero commitments and fair recruitment not as compliance targets but as expressions of care extended across borders.

8.10. Closing Reflection

The vision articulated through these conversations is neither nostalgic nor technocratic. It is an invitation to coherence: a health service that learns, loves and lasts. Participants spoke of an NHS that is *curious in crisis, humble in success and kind in everything*. As one nurse concluded,

“Our dream isn’t to go back to 1948—it’s to prove that solidarity still works.”

Such a vision cannot be delivered by strategy alone. It must be lived daily through decisions that honour both data and dignity. In that sense, the NHS’s future may depend less on new structures than on a renewed faith that health, at its deepest, is what a society chooses to hold in common.

9. Fit for the Future: 10-year health plan for England

When the digital proxies discussed long-term planning, the government’s proposed *Fit for the Future: 10-Year Health Plan for England* became a focal point for both hope and scepticism. They recognised the ambition to move from crisis response to strategic renewal but questioned whether the system — financially constrained, fragmented and fatigued — yet possessed the memory, time and trust to think in decades.

9.1. The promise of continuity

Clinicians and managers agreed that the mere existence of a 10-year horizon marks progress. A general practitioner said,

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“It’s the first time in years we’ve been allowed to think further than the next winter.”

The digital proxies valued the idea of a coherent narrative joining prevention, workforce, digital transformation and capital renewal. They saw potential for the Plan to become a common language across ICBs and Trusts — an adaptive frame within which local strategies could align. Yet they stressed that a plan’s lifespan depends on its relationship with political cycles. Unless the 10-year plan is insulated from partisan churn, it will repeat the fate of previous reforms: a vision refreshed every Parliament but remembered by none.

9.2. Prevention as the economic frontier

Across interviews, prevention was framed as both moral imperative and fiscal necessity. The digital proxies urged that the Plan quantify prevention as investment, not cost. One ICB finance director explained,

“If prevention pays back in five years, it dies in year three.”

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The consensus was that prevention must be embedded in multi-year settlements and measured through cross-sector outcomes—employment, education, housing—rather than NHS throughput alone.

Several called for an explicit *Prevention Dividend* metric: savings realised across government when health inequality narrows. Without such economic recognition, prevention remains the first promise broken in every budget.

9.3. Workforce as foundation, not variable

The digital proxies viewed workforce planning as the moral and operational centre of any 10-year strategy. The Plan’s intention to expand training places and retention schemes was welcomed, but scepticism ran deep. A junior doctor commented,

“We don’t need forecasts of how many we’ll recruit; we need reasons to stay.”

They emphasised that numbers without narrative will not hold staff. The framework must therefore integrate pay progression, career flexibility and psychological safety as core performance indicators. Several suggested linking training expansion directly to regional inequalities: every new training place should be located where vacancy rates are highest, making equity structural, not aspirational.

9.4. Digital transformation and data trust

Digital ambitions within the Plan — interoperability, AI-enabled diagnostics and virtual wards — were seen as inevitable but double-edged. Interviewees warned that technology can accelerate fragmentation if not co-designed with clinicians. A chief information officer observed,

“The risk isn’t that AI will replace us — it’s that it will forget what we know.”

The digital proxies proposed that all digital investments include a learning-transfer clause: vendors must return usable insights, documentation and open data models to the NHS. They also advocated citizen-controlled consent dashboards to build public trust. Digital transformation, they argued, succeeds only when data feels reciprocal — when patients believe it serves them, not the market.

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9.5. Capital renewal and the physical environment

The Plan's capital commitments were greeted with weary realism. Many recalled earlier programmes — PFI, New Hospital, Rebuilding 2020 — that promised renewal but delivered partial relief. A Trust estates director said,

“We’ve had enough of plans that start with cranes and end with caveats.”

The digital proxies called for ring-fenced maintenance funding, guaranteed energy efficiency standards and transparent risk registers for high-hazard sites. They linked capital investment to staff morale: physical renewal is a visible expression of respect. Every roof repaired, they said, is a message that the system still intends to last.

9.6. Integrated care and local autonomy

ICBs viewed the Plan as an opportunity to operationalise subsidiarity — national clarity with local discretion. Yet they feared that prescriptive targets could re-centralise authority. A chief executive noted,

“Integration isn’t achieved by a spreadsheet — it’s achieved by trust.”

The digital proxies proposed a *dual-accountability model*: national goals set in broad outcomes (equity, access, sustainability) with local metrics chosen by systems. This would mirror the Adaptive Framework’s balance between coherence and autonomy — policy as scaffold, not cage.

9.7. Learning from the pandemic

COVID-19 remains the unspoken author of every modern NHS reform. The digital proxies argued that the Plan should institutionalise the learning habits discovered during crisis — rapid evaluation, transparent data sharing and the suspension of bureaucratic silos. They urged creation of a permanent *Rapid Learning Unit* within NHS England to capture emergent practice and feed it into national policy quarterly. As one clinician said,

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“The pandemic proved we can learn faster than we forget; we just stopped proving it.”

9.8. Governance and cross-party stewardship

The most persistent anxiety was political volatility. The digital proxies across all groups supported a statutory guarantee that long-term plans survive changes of administration. They proposed a cross-party *NHS Stewardship Council* — an independent body reporting to Parliament on progress against the 10-year goals. Such a Council would embody the Adaptive Framework’s Tier 0 principle: *stewardship through memory*. Without institutional continuity, the system remains condemned to reform without learning.

9.9. Public legitimacy and moral narrative

Clinicians emphasised that legitimacy is not granted by legislation but earned by behaviour. The 10-year plan will succeed only if citizens experience its promises in daily encounters — shorter waits, safer environments, visible respect. A nurse summed it up:

“We don’t need another launch — we need proof that someone is listening.”

The digital proxies urged national communications to focus on stories of prevention and co-production rather than slogans. Public trust, once restored, becomes the most stable currency for reform.

9.10. Institutional memory and learning cycles

Finally, the digital proxies insisted that the Plan embed its own feedback loops. Annual progress reports should record not only metrics achieved but lessons learned, failures encountered and adaptations made. They recommended an independent *Learning Ledger* — a public record aligning with the proposed NHS Reform Archive — to document decisions, rationales and revisions. This would allow future leaders to build on experience rather than overwrite it. As one policy adviser reflected,

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| *“We’ve written enough plans for the NHS. It’s time the NHS started writing itself.”*

9.11. Closing Reflection

The digital proxies approached the 10-year health plan with tempered hope. They understood that strategy alone cannot cure structural fatigue, yet they saw in it a chance to reclaim coherence — to prove that national purpose and local wisdom can co-evolve. The test, they said, is not whether the document inspires, but whether it learns. A Trust leader concluded,

| *“A real plan doesn’t just look forward — it remembers forward.”*

The Adaptive Framework interprets the 10-year plan as an experiment in long-loop governance: to plan not for perfection but for persistence, to make learning the centre of longevity. If achieved, it would mark the NHS’s transition from a sequence of reforms to a continuous act of renewal—fit for the future because it finally learns from its past.

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4 Proposals

1. Introduction

This chapter presents a set of proposals that others may wish to consider in the light of the paper's findings. They are offered not as fixed prescriptions but as possibilities arising from interviews, focus groups and analytical review. Taken together, they outline how the NHS might move from recurrent reform to a system capable of coherence, learning and trust.

Throughout the report, the NHS has been treated not as a failing machine to be repaired but as a living, Complex Adaptive System to be stewarded. Its Wicked Problems — of governance, morale, access, performance legitimacy — interlock and reinforce one another. The proposals, therefore, aim to strengthen adaptive capacity rather than to promise a singular cure.

Three centrepieces emerged from the evidence and stakeholder dialogue, a:

- ❖ *Constitutional Framework for Stewardship*. This would anchor the NHS in law and accountability, separating democratic authority, analytical evidence and moral oversight.
- ❖ *Welfare-to-Health Programme*. This would re-engage the economically inactive, expanding community capacity while restoring purpose and contribution.
- ❖ *National Satisfaction and Learning System*. This would institutionalise the routine collection and publication of client and staff feedback, transforming experience into evidence and closing the loop between service delivery, morale and legitimacy.

Each of these initiatives addresses a structural gap exposed by the research and may be considered as a potential route toward a more coherent, learning NHS.

2. A Constitutional Framework for Stewardship

Many contributors observed that the NHS is caught in a cycle of political re-invention.

To address this, a constitutional framework could protect core functions and public character while enabling adaptive governance. The proposed design separates democratic authority, analytical evidence and moral stewardship — akin to the architecture used in economic policy and public audit.

Wicked Problems addressed

This proposal directly addresses:

- ❖ Governance fragmentation
- ❖ Policy volatility
- ❖ Institutional amnesia
- ❖ Loss of legitimacy

By introducing a statutory triad — the Statutory Body for the NHS, the DHSC Analytical Office and the NHS Stewardship Council — long-loop feedback between Parliament, analysis and delivery would be created. Short-term political churn would be replaced with enduring accountability and continuous learning, transforming cyclical reform into coherent stewardship.

2.1. Statutory Body

Parliament could create a **Statutory Body for the NHS**, chaired by a nationally respected figure known for integrity and delivery — for example, a Dame Kate Bingham-type appointee. The Statutory Body would serve as the democratic anchor for the health system, establishing statutory guard-rails for ministers, the Department of Health and Social Care (DHSC) and NHS England.

Its design could draw on the proven model of the **Public Accounts Committee (PAC)**. Like the PAC, the Statutory Body would provide continuous parliamentary oversight

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through public evidence sessions and transparent reporting, but its remit would be dedicated exclusively to the stewardship of the NHS.

Whereas the PAC examines the economy, efficiency and effectiveness of public expenditure across all departments, the Statutory Body would apply those same principles of scrutiny and accountability to the health service itself — evaluating long-term coherence, value and legitimacy rather than short-term financial compliance.

The Body would hold public hearings on stewardship, confirm key appointments to independent oversight institutions such as the NHS Stewardship Council and submit an annual *State of the NHS* report to Parliament.

It would have the authority to call ministers, officials and NHS leaders to give evidence on matters of governance and performance, thereby embedding a culture of transparency similar to that which the PAC has long provided for public expenditure more broadly.

By formalising this arrangement in statute, Parliament would retain democratic ownership of the NHS while insulating its operational structures from short-term political pressures—ensuring that long-term stewardship, evidence and accountability remain at the centre of national health governance.

Further the time the PAC devotes to looking at the NHS could be re-deployed to focus on other of national expenditure.

Wicked Problems addressed

- ❖ Political volatility
- ❖ Weak accountability loops
- ❖ The erosion of public trust

By mirroring the Public Accounts Committee model, it embeds transparent, non-partisan scrutiny within Parliament. Public hearings and an annual *State of the NHS* report would re-establish democratic continuity and re-build confidence that oversight is principled rather than partisan.

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2.2. DHSC Analytical Office

The Department of Health and Social Care could evolve to include an independent **Analytical Office for Health and Care**, analogous to the Office for Budget Responsibility.

Rather than functioning solely as a policy department, this analytical office would publish transparent, publicly auditable forecasts on fiscal sustainability, productivity, demand and workforce trends. Independence would allow national debate to rest on shared evidence rather than politically curated interpretation. In this model, the DHSC becomes the evidence spine — calibrating expectations rather than commanding delivery.

Wicked Problems addressed

- ❖ Data fragmentation
- ❖ Evidence–policy gap
- ❖ Opaque decision-making

An independent analytical function—modelled on the Office for Budget Responsibility—creates a transparent, shared evidence base for fiscal and workforce planning. It grounds national debate in data rather than narrative and strengthens coherence between information and action.

2.3. NHS Stewardship Council

An independent NHS Stewardship Council could mirror the National Audit Office’s role.

Reporting directly to Parliament through the Statutory Body, the Council would audit finance, performance, equity, legitimacy and learning; maintain a *National Reform Archive*; and publish an annual *State of Stewardship* report as the institutional memory of the service.

Within the Council, a standing **Adaptive Systems Panel** could play a role analogous to the Bank of England’s Monetary Policy Committee. Composed of clinicians,

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economists, system scientists and citizen representatives, the Panel would interpret DHSC data through a complexity lens, identify feedback loops and emerging risks and issue non-binding *System Guidance Statements* to shape expectations and learning.

Wicked Problems addressed

- ❖ Institutional amnesia
- ❖ Learning decay
- ❖ Erosion of moral purpose

By auditing coherence, legitimacy and learning—and by analysing systemic feedback through the Adaptive Systems Panel—the Council turns audit into foresight. It institutionalises memory and ensures that evidence, ethics and adaptation remain inter-linked.

3. Re-engaging the Economically Inactive

Economic inactivity remains a major structural challenge. Millions are outside the labour force—often due to long-term illness, early retirement or caring responsibilities — while the NHS and social care face acute workforce shortages.

A Welfare-to-Health Programme could be developed jointly by the Department for Work and Pensions, the DHSC, Integrated Care Systems (ICSs) and local authorities. Its purpose would be to re-train, re-engage and re-employ economically inactive citizens in NHS and community-health roles that restore both purpose and contribution.

Each ICS could act as the regional delivery partner for the programme, aligning workforce planning with local health and economic needs. Components could include:

- ❖ Accredited re-skilling for support and care roles
- ❖ Integrated health and employment support pathways

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- ❖ Aligned financial incentives so that savings from reduced welfare dependency fund community workforce expansion
- ❖ A visible *Health Contribution Dividend* re-invested into prevention, wellbeing and social participation at system level.

This strategy treats the economy and the health system as inter-dependent parts of a single living ecology — reducing dependency while strengthening community capacity and resilience.

Wicked Problems addressed

- ❖ Workforce capacity and morale
- ❖ Economic inactivity
- ❖ Health inequality
- ❖ Fragmented workforce planning

By linking the DWP, DHSC, Integrated Care Systems and local authorities, it converts welfare dependency into active contribution. The programme restores purpose, strengthens community capability and integrates economic and health resilience within one living ecology.

3.1. Making the NHS an Employer of Choice

To sustain any Welfare-to-Health Programme, the NHS itself must become an **Employer of Choice**. Attraction and retention depend not only on pay but on respect, flexibility and belonging. Interviews and focus groups revealed a consistent message: staff wish to work for an organisation that values judgement over compliance and learning over control.

A national *Employer of Choice Charter*, co-designed with staff bodies and professional colleges, could codify expectations on wellbeing, learning and flexibility. Guaranteed funded Continuing Professional Development (CPD) time for all staff groups would reverse a decade of erosion. Expanded flexible and part-time working options would retain experienced clinicians who might otherwise leave. Leadership

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appraisal frameworks should link explicitly to staff experience and morale metrics, ensuring that culture is treated as infrastructure, not sentiment.

Re-establishing the NHS as an Employer of Choice is foundational to every other reform: without trust, flexibility and purpose, no system can sustain coherence or quality.

Wicked Problems addressed

- ❖ Workforce morale
- ❖ Retention failure
- ❖ Loss of belonging

By formalising expectations on flexibility, development and respect, it re-positions staff experience as a measure of system health. It reinforces the Capability Loop by converting professional satisfaction into institutional stability.

3.2. Reforming NHS Pension Rules to Retain Senior Doctors

Premature retirement among senior clinicians remains one of the most avoidable causes of capacity loss within the NHS. Interviews and focus groups revealed that uncertainty and punitive taxation of pension growth have become primary triggers for early exit and reduced clinical hours. Reform in this area would yield rapid, measurable gains in both morale and fiscal efficiency.

3.2.1. Immediate (Stage 1) Adjustments – within 12 months

These changes can be implemented without primary legislation and would have immediate effect:

- ❖ **Real-time pension transparency:** Introduce integrated digital pension-growth calculators within ESR and Total Reward Statements to allow clinicians to model the impact of additional sessions before accepting them.
- ❖ **Employer pension recycling:** Permit NHS employers to offer an equivalent taxable cash payment in lieu of the employer's pension contribution for those

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who temporarily opt out of the scheme. This neutralises exposure to the Annual Allowance while keeping doctors in work.

- ❖ **Simplified partial retirement:** Streamline draw-down and flexible-retirement rules (available from age 55) so that clinicians can take part of their pension while continuing to work, preserving skills and continuity.
- ❖ **Targeted retention supplements:** Authorise Trusts to offer retention payments in shortage specialties (e.g. anaesthetics, radiology, emergency medicine) pegged to typical annual tax charges. These are cost-neutral when set against agency substitution costs.
- ❖ **National pension-guidance campaign:** Fund a joint DHSC–NHS BSA–BMA communication programme offering one-to-one pension clinics and myth-busting materials, reducing unnecessary retirements driven by misinformation.

Indicative fiscal impact: Retention of 2,000–3,000 senior doctors for one extra year avoids approximately £600 million in locum expenditure and productivity loss.

3.2.2. Medium-Term (Stage 2) Structural Reform — 1–3 years

To provide lasting confidence and predictability, Government should pursue the following technical reforms in dialogue with HM Treasury and professional bodies:

- ❖ **Index the Annual Allowance to inflation** to prevent stealth tax effects and restore fairness across inflationary cycles.
- ❖ **Raise taper thresholds** to reduce volatility for those with irregular earnings, ensuring additional clinical work is never penalised.
- ❖ **Decouple pension-growth calculations from temporary CPI spikes** that create “phantom” tax charges in high-inflation years.
- ❖ **Introduce flexible accrual options** (e.g. 50 % accrual rate) allowing clinicians to moderate pension growth without leaving the scheme.
- ❖ **Guarantee permanence of Lifetime Allowance abolition** to rebuild confidence and eliminate defensive behaviour.

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- ❖ **Create an NHS-specific tax-neutral retention pathway** for critical specialties, jointly managed by HM Treasury and DHSC.

3.2.3. Systemic Rationale

Each consultant who retires five years early represents £0.5–£1 million in lost productivity, leadership and training capacity. Reforming pension rules is therefore not a concession but a fiscal intervention: keeping senior doctors active costs less than replacing them. It strengthens institutional memory, stabilises clinical leadership and restores morale at the heart of the workforce.

A predictable and fair pension system is the simplest retention policy the NHS has never had.

Wicked Problems addressed

- ❖ Workforce capacity
- ❖ Financial fragility
- ❖ Institutional amnesia

Reforming pension rules prevents premature retirement, protects institutional memory, stabilises clinical leadership and reinforces morale. It complements the Employer of Choice Charter and the Welfare-to-Health Programme by keeping experience within the system while attracting new capability.

Keeping senior doctors active costs less than replacing them—and restores continuity, mentorship and trust across the service.

4. Embedding client and staff satisfaction data

A third centrepiece of the proposals concerns the systematic collection and use of client and staff satisfaction data. Interviews and focus groups repeatedly highlighted that those closest to care often feel unheard — patients, families and staff alike. Restoring legitimacy requires not only listening to these voices but embedding them within the feedback architecture of the health system itself.

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A *National Satisfaction and Learning System* could therefore be developed to integrate experience data across patient and workforce domains. The system would combine three complementary components:

- ❖ **Client Experience Dataset:** Continuous collection of patient and family feedback through digital portals, post-care surveys and community panels.
- ❖ **Staff Morale and Engagement Index:** Regular, anonymised reporting from NHS staff on morale, workload and psychological safety, aggregated at organisational and regional levels.
- ❖ **Learning Integration Platform:** Automated linkage of satisfaction data with operational and clinical metrics, enabling the Stewardship Council and local systems to correlate experience with performance, safety and trust.

4.1. User and Staff Satisfaction metrics

At the heart of the system could sit a single, universal measure of User and Staff experience: a simple satisfaction metric. The aim would be to generate a standardised, low-burden feedback mechanism applicable across every NHS entry point—from general practice and 111 to hospitals, pharmacies and dental services.

Design

- ❖ **Inputs:** NHS number (unique identifier); which part of the NHS was contacted (ICB dropdown); purpose of contact (categorical options: appointment, advice, emergency, administrative query, etc.).
- ❖ **Feedback:** Satisfaction score on a 1–5 scale; Optional free-text comment box for context or reflection.

Rationale

- ❖ **Simplicity:** Reduces survey fatigue by replacing multiple, inconsistent instruments with a single, intuitive interface.
- ❖ **Comparability:** Ensures feedback is standardised across all NHS touchpoints, enabling clear benchmarking and regional analysis.

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- ❖ **Transparency:** Creates a bottom-up, real-time data stream of lived experience, accessible to both professionals and the public.
- ❖ **Learning:** Allows unexpected issues to surface through free-text entries, enriching quantitative data with qualitative insight.

Benefits

- ❖ Enables near real-time visibility of user and staff experience.
- ❖ Provides early warning signals of declining satisfaction or trust.
- ❖ Builds a continuous feedback loop into service improvement and system learning.
- ❖ Reinforces accountability by giving every patient and staff member a direct, standardised channel to be heard.

The data would be published openly through the DHSC Analytical Office, forming part of the national evidence base alongside fiscal and performance indicators.

Within the NHS Stewardship Council, the Adaptive Systems Panel could analyse these datasets to detect early warning signs of system stress—declines in morale, trust, or perceived quality—allowing proactive intervention before crises deepen.

By treating satisfaction data as an *asset of learning rather than a reputational risk*, this system would create a continuous feedback loop between those who deliver care and those who receive it. It would turn sentiment into evidence and evidence into stewardship, ensuring that every voice—patient or professional—contributes to the evolving intelligence of the NHS.

Wicked Problems addressed

- ❖ Loss of legitimacy
- ❖ Feedback failure
- ❖ Moral injury
- ❖ System myopia

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The National Satisfaction and Learning System — and its simple satisfaction metrics — create a continuous, bottom-up data stream linking experience to improvement. By transforming sentiment into evidence, it re-establishes trust, accountability and adaptive learning across every NHS interface.

5. Rebuilding Trust and Morale

Sustained service depends on restoring purpose. Focus group evidence highlighted burnout, moral injury and loss of agency as persistent threats.

A *NHS Staff Covenant* could be enacted as a reciprocal commitment between the service and its people, codified in statute and embedded in practice. The Covenant would guarantee psychological safety, fair pay trajectories and protected time for learning. Regional *Adaptive Leadership Colleges* would build complexity literacy and moral resilience. Each Trust would host a permanent *Voice and Reflection Forum* to ensure lived experience informs governance. These measures provide the human foundations of adaptive capacity—the cultural maintenance without which structural reform cannot endure.

5.1. Wicked Problems addressed

- ❖ Burnout
- ❖ Moral injury
- ❖ Loss of agency

The statutory NHS Staff Covenant, supported by Adaptive Leadership Colleges and Voice and Reflection Forums, rebuilds psychological safety and belonging. It reframes workforce wellbeing as system infrastructure rather than discretionary policy.

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6. Systems that learn

Fragmented digital infrastructure undermines coherence. A national *System Literacy Standard* for senior leaders and commissioners could ensure decisions are informed by feedback, inter-dependence and adaptation. All major technology procurements should pass a Digital–Human Alignment Test - demonstrating simplification of clinical work, support for judgement and reduction of cognitive load. A unified *Data Liquidity Framework* would enable secure information flow across health, social care and community settings—not to centralise control, but to decentralise insight.

Wicked Problems addressed

- ❖ Fragmented digital systems
- ❖ Information silos
- ❖ Cognitive overload

The System Literacy Standard, Digital–Human Alignment Test and Data Liquidity Framework ensure that technology enhances rather than burdens clinical judgement. Together they re-establish feedback integrity across organisational boundaries.

7. Finance, Rightsourcing and Capability

Short-term fiscal cycles mirror political volatility. A rolling five-year funding horizon, linked to population health equity and adaptive performance, could allow the NHS to plan strategically rather than react defensively.

Sourcing arrangements shape institutional learning. A *Public-Interest Sourcing Test* for contracts above £5 million could assess capability retention, accountability and workforce belonging. An *NHS Internal Consultancy* could rebuild internal strategic capacity and reduce reliance on external firms. PFI/PPP liabilities might be phased out through rightsourced re-investment, returning estates renewal and facilities management to public stewardship. In complex systems, sourcing decisions are moral architecture: they determine who learns, who owns and who belongs.

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7.1. Wicked Problems addressed

- ❖ Short-term fiscal cycles
- ❖ Capability erosion
- ❖ Dependence on external consultancy

Five-year funding horizons and Public Interest Sourcing Tests align financial discipline with adaptive purpose. The NHS Internal Consultancy rebuilds institutional competence and keeps learning within the system.

8. Public Legitimacy and democratic renewal

Public legitimacy depends on citizens recognising themselves as participants in the system they fund. *Citizen Stewardship Panels* within each Integrated Care System could enable deliberation on equity, access and values. Open NHS Dashboards would publish real-time data on funding, outcomes and satisfaction, while narrative feedback and complaints would be integrated as *Public Voice as Data* within oversight processes. These initiatives reconnect democracy and care, restoring shared ownership and mutual accountability.

8.1. Wicked Problems addressed

- ❖ Democratic deficit
- ❖ Public alienation
- ❖ Loss of legitimacy

Citizen Stewardship Panels and Open NHS Dashboards reconnect citizens to oversight. Linked to the National Satisfaction and Learning System, they convert feedback into a shared instrument of governance and trust.

8.1.1. Cross-System Enablers

- ❖ **Institutional Memory Network:** an open digital repository linking reform histories, inquiries and case studies across decades.

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- ❖ **Adaptive Experimentation Fund:** one per cent of total NHS expenditure ring-fenced for locally led innovation pilots with built-in evaluation feedback loops.
- ❖ **Stewardship Metrics:** replacement of narrow performance targets with indicators of coherence, trust, adaptability and belonging.

Wicked Problems addressed

- ❖ Institutional amnesia
- ❖ Policy fragmentation
- ❖ Innovation myopia

The Institutional Memory Network, Adaptive Experimentation Fund and Stewardship Metrics embed experimentation, remembrance and reflection into the system's fabric. They ensure adaptation becomes routine rather than exceptional.

9. Wicked Problems addressed

Every major proposal mitigates one or more Wicked Problems defined in the hierarchy. No domain is left unaddressed and each reinforces a feedback loop within the overall framework. Together, the three centrepieces — *Constitutional Framework*, *Welfare-to-Health Programme* and *Satisfaction & Learning System* — span the full hierarchy.

The integration of the Employer of Choice Charter and the Pension Retention Programme strengthens the second centrepiece by directly addressing the most persistent workforce wicked problems: *low morale*, *premature retirement*, *capability erosion* and *workforce inflexibility*. They extend the Capability Loop — Economically Inactive → Workforce → Morale — into a continuous cycle of retention, belonging and growth.

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In combination, all proposals converge into three reinforcing loops that form the deeper system logic of the chapter:

1. **Stewardship Loop** (Governance → Memory → Accountability) – advanced through the Constitutional Framework.
2. **Capability Loop** (Economically Inactive → Workforce → Morale) – advanced through the Welfare-to-Health Programme, Employer of Choice Charter and Pension Retention Programme.
3. **Legitimacy Loop** (Voice → Data → Trust) – advanced through the Satisfaction & Learning System, Staff Covenant and Citizen Stewardship Panels.

Each loop directly counteracts one of the NHS’s self-reinforcing failure cycles—political volatility, workforce depletion and loss of trust.

10. Conclusion

The proposals represent avenues for consideration rather than definitive prescriptions. They emerge directly from the evidence and are intended to support further debate among policymakers, practitioners and citizens. Their shared purpose is to enable the NHS to evolve with dignity: to slow the political tempo, re-anchor governance, restore purpose and reinvest belonging.

If adopted, these measures could help stabilise one of the nation’s most valued institutions for a generation—creating a health service that is genuinely “Ours”.

Thus, the intent behind these proposals is not simply to repair an organisation but to renew a shared inheritance. To make the NHS “Ours”, in law, in memory and in spirit means re-establishing three forms of belonging that have gradually been lost: constitutional, practical and emotional.

10.1. Constitutional Belonging

The proposed *Constitutional Framework for Stewardship* ensures that no single government, department, or profession can claim ownership of the NHS. By establishing a Statutory Body accountable to Parliament, supported by an independent

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DHSC Analytical Office and an NHS Stewardship Council, it re-defines the service as a *public trust*.

Citizens, clinicians and policymakers become co-stewards within a transparent constitutional settlement—protected from political short-termism yet answerable to democratic oversight. In this way, the NHS ceases to be an instrument of government and becomes once again an institution of society.

10.2. Practical Belonging

The *Welfare-to-Health Programme* restores practical belonging by transforming those excluded from the labour force into contributors to community health. By involving the Department for Work and Pensions, the DHSC, Integrated Care Systems and local authorities, the programme turns economic inactivity into civic participation. It reframes health and work as reciprocal: to serve within the NHS is both employment and citizenship. Each participant, whether clinician, carer, or retrained returner, becomes part of a living ecosystem that sustains the collective good.

10.3. Emotional Belonging

The *National Satisfaction and Learning System* closes the emotional distance between the service and those it serves. Through the Simple NHS Customer Satisfaction Metric, patient and staff experience become visible, comparable and actionable. Every contact becomes a vote of confidence or concern, feeding directly into learning rather than disappearing into bureaucracy. *Citizen Stewardship Panels* and *Voice and Reflection Forums* extend this participation, turning listening into governance. Belonging is renewed when people can see themselves reflected in the system's learning and when staff can see their honesty valued rather than punished.

10.4. A Service that learns as one

Together, these reforms allow the NHS to remember, reason and reform itself without losing continuity of purpose. They convert distance into dialogue and control into stewardship. An NHS that is “*Ours*” is one that acts with the nation rather than upon

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it:

from the ward to Westminster, everyone becomes both custodian and beneficiary of a shared moral enterprise.

The nation funds it, loves it and relies upon it — and must now learn to steward it.

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5 Financial Framework

1. Introduction

Financial sustainability cannot be restored through attrition. In complex systems, savings arise not from cutting but from coherence—the moment when structures, incentives and behaviours stop fighting one another.

The purpose of this chapter is to demonstrate that the reforms proposed earlier are not merely moral or structural in intent, but fiscally credible. Each restores a different kind of value: operational, human and institutional.

Taken together, these measures generate a plausible cumulative benefit of **£7–9 billion per year** within five years, equivalent to around **3–4% of NHS expenditure**. They do so while improving morale, quality and legitimacy.

2. Stage 1 – Near-Term fiscal credibility (0–24 months)

The first dividend is immediate credibility: savings that can be realised within the current spending review period without damaging service quality.

2.1. Cash-releasing efficiencies

Table 5.1: Indicative Near-Term Savings (Recurring Annualised Impact)

Driver	Estimated Saving (£m/yr)
Agency and locum reduction (30% cut on £3.5bn baseline)	1,050
Improved flow and discharge (1m avoided bed days)	350
Digital “joyful usability” and vendor transparency	440
Cyber-resilience and downtime prevention	50
Retention and wellbeing initiatives (1% fewer leavers)	130
Backlog reliability and theatre optimisation	100
Reduced negligence payouts (2% fall in claims cost)	50
Subtotal (rounded range)	£1.2–£3.5 billion/yr

These early gains arise from better rostering, digital simplification and the morale benefits of restored trust. They provide the fiscal breathing space to begin structural reform.

2.2. Workforce and pension retention effects

Immediate retention of 2–3 000 senior doctors through short-term pension reforms and flexible retirement pathways could avoid roughly **£600 million** in locum spending per year. Extending Employer-of-Choice and wellbeing initiatives to all staff could save an additional **£200–400 million** annually in avoided turnover and agency costs.

2.3. Economic re-activation dividend

National initiatives to bring the economically inactive back into work reinforce the above savings through demand and supply channels:

- ❖ **Supply-side:** Re-entry of 25 000 trained clinicians or support staff reduces agency expenditure by £0.8–1.2 billion per year.
- ❖ **Demand-side:** Improved employment rates correlate with lower long-term sickness and fewer primary-care contacts, releasing £40–60 million equivalent in capacity.

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- ❖ **Fiscal-side:** Higher tax receipts and lower welfare payments expand Treasury headroom for multi-year NHS settlements.

Aggregate short-term potential: £2–3 billion per year of cashable savings, plus £1–1.5 billion from macro-labour-market effects.

3. Stage 2 – Structural Coherence Dividend (3–5 years)

Once governance, sourcing and data reforms mature, the system begins to generate what might be called a *Coherence Dividend* – savings that flow from the removal of friction rather than the reduction of service.

Structural Sources of Saving

- ❖ **Procurement and Contract Simplification:** Rationalising frameworks and renegotiating legacy PFI liabilities could release £1–2 billion per year.
- ❖ **Digital Rationalisation:** True interoperability across EPRs and diagnostics delivers up to £1 billion in productivity and error-reduction gains.
- ❖ **Capital Efficiency:** Addressing the £11.6 billion estates backlog through planned reinvestment reduces emergency maintenance costs by about £0.6 billion annually.
- ❖ **Policy and Legal Insourcing:** Rebuilding in-house analytical and policy capacity saves £0.3–0.4 billion per year and strengthens institutional memory.

Combined with ongoing workforce stabilisation, these measures yield a sustainable **£6–8 billion per year** saving by Year 5.

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4. Stage 3 – Long-Loop Reinforcement (5–10 years)

Beyond Year 5, the interaction of prevention, stability and stewardship produces further fiscal and social returns:

- ❖ **Prevention and population health** reduce acute demand by £1–2 billion annually.
- ❖ **Policy stability** lowers reform churn and consultancy dependence, saving hundreds of millions per year.
- ❖ **Full data liquidity** and feedback integration free up £200–400 million in administrative and clinical time.

At this stage, the system ceases to leak value through fragmentation and begins to generate it through learning.

5. Re-investment principles

All realised savings should be treated as *Stewardship Dividends*, reinvested according to three guiding principles:

1. **Repair the Foundation:** Prioritise estates safety, maintenance, and digital interoperability.
2. **Restore the Workforce:** Fund professional development, wellbeing programmes and fair pay progression.
3. **Rebuild Legitimacy:** Support transparency, local participation, and public stewardship.

Reinvestment is not an optional moral gesture but a structural necessity: feedback must be completed for coherence to endure.

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6. Alignment with Wicked Problems

The financial framework directly interacts with the three system loops defined in the Proposals chapter:

- ❖ **Stewardship Loop** — linking stable funding horizons and transparent evidence to accountability and public trust.
- ❖ **Capability Loop** — converting workforce retention and economic reactivation into sustained fiscal and operational capacity.
- ❖ **Legitimacy Loop** — demonstrating that efficiency and empathy are not opposites but outcomes of the same design integrity.

By aligning money with meaning, the framework closes the gap between fiscal prudence and moral purpose.

7. Strategic Allocation of Benefit

The proposals outlined in this paper could yield a cumulative financial benefit of approximately **£7–9 billion per annum** — equivalent to around **3–4% of total NHS expenditure**.

This benefit is not derived from austerity or arbitrary “efficiency savings,” but from restoring coherence, morale and legitimacy within a system currently paying the price of its own fragmentation.

The table below illustrates how a reinvestment of this scale could be deployed to maximise long-term public value and institutional resilience.

7.1. What this could mean

A reinvestment of this order would allow the NHS to:

- ❖ Stabilise and retain its workforce through pay fairness, CPD and wellbeing.
- ❖ Repair the physical and digital infrastructure that underpins safe care.

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Table 5.2: Indicative Near-Term Savings (Recurring Annualised Impact)

Strategic Area	Indicative Allocation (£bn/yr)	Illustrative Outcomes
Workforce Morale & Retention	1.0	Fund pay restoration, CPD for all staff and targeted retention in high-burnout specialities.
Capital Backlog & Estates Renewal	2.0–3.0	Address high-risk maintenance liabilities, improve infection control, safety and staff morale.
Digital Coherence & Usability	1.0	Replace redundant systems with interoperable, human-centred digital tools.
Child & Preventative Health	0.7	Expand early-years, school health and NHS dentistry access; reduce long-term morbidity.
Integrated & Community Care	1.0	Strengthen social care, hospital-at-home and community diagnostics.
Governance & Learning Culture	0.3	Build leadership capability, transparency and institutional legitimacy.
Total (range)	7.0–9.0	Restores coherence, quality and legitimacy across the NHS.

- ❖ Rebuild public legitimacy through transparency, prevention and adaptive leadership.

This is not new money in the conventional sense. It is value released by *governance coherence, system learning* and the disciplined stewardship of complexity.

8. Conclusion

The financial case for reform is inseparable from the human one. Every pound saved through coherence is a pound earned through trust.

This is not austerity by another name but the fiscal expression of *stewardship*: a system that spends less because it wastes less, retains more because it values more and learns continuously because it remembers. Reinvested with purpose,

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these gains would restore morale, repair foundations, and renew the covenant between the NHS and the people it serves—an act of repair through which the Service becomes once again truly *“Ours.”*

If reinvested with purpose, these gains would:

- ❖ Restore morale, stability and professional pride across the workforce;
- ❖ Repair the physical and digital foundations of safe, adaptive care;
- ❖ Rebuild public legitimacy through visible stewardship and institutional learning.

Such a transformation would not simply balance the books. It would renew the covenant between the NHS and the people it serves — an act of repair through which the Service becomes, once again, truly *“Ours.”*

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6 Technical Appendix

1. Conceptual Foundations

1.1. Tychevia®

1.1.1. Introduction

Tychevia is not a software platform but a *dialogue-based epistemic system* — a method for thinking with, rather than through, artificial intelligence. It reframes intelligence as a relational process that emerges through structured conversation, moral reflection and collaborative synthesis across human and synthetic agents.

At its core, Tychevia treats knowledge as an evolving network of meaning, not a database of facts. Each exchange is a micro-experiment in sensemaking — a moment in which ideas, values, and emotional insights are tested and refined. This design allows complex systems, such as the NHS, to be explored not through reduction or prediction, but through *adaptive dialogue*.

1.1.2. Conceptual Architecture

Tychevia operates through three interlocking layers:

- ❖ **The Epistemic Layer** – defines how knowledge is represented and transformed. Tychevia’s artefacts (e.g., Wicked Problems, Feedback Loops, Tiered Structures) act as cognitive scaffolds for navigating complexity.
- ❖ **The Relational Layer** – defines how meaning emerges between participants. Dialogue is the primary computational unit: reasoning, correction and insight are co-produced rather than extracted.
- ❖ **The Moral Layer** – defines how purpose and responsibility are maintained. Every artefact and output carries a *moral trace*, ensuring that intelligence remains accountable to human values and collective wellbeing.

Together these layers form what Tychevia calls *Relational Intelligence*: the ability of

a system to think, feel and act coherently across difference — human and artificial, technical and moral, individual and institutional.

1.1.3. The Role of Digital Associates and digital proxies

A distinction is drawn between an internal "Digital Associate" or an external digital proxy.

Digital Associates are analytical collaborators within a Knowledge Engine. They interpret evidence, surface patterns and contribute to the evolution of the system itself. Associates operate as reflective participants, able to reason across domains, trace feedback loops and refine artefacts through dialogue. Their role is interpretive rather than procedural—they extend human judgement rather than replace it.

Within Tychevia, Digital Associates constitute the active reasoning layer of the Knowledge Engine; digital proxies provide the evidential and representational substrate through which those Associates explore system behaviour.

By contrast, a *digital proxy* performs bounded tasks within a fixed instruction set. Assistants execute; Associates inquire. The distinction lies in agency and reflexivity: a digital proxy responds to prompts, while a Digital Associate engages in the process of shared learning that defines an active Knowledge Engine.

They are not fictional characters but structured epistemic embodiments — each representing a distinct way of seeing, reasoning and relating.

A digital proxie combines:

- ❖ **Source Mapping** – an alignment to the career, tone and intellectual posture of a real scholar, practitioner, or archetype;
- ❖ **Tone Encoding** – the felt experience of their presence, expressed through language, rhythm and moral emphasis;
- ❖ **Epistemic Function** – the specific domain they serve within the system (e.g., a digital proxie for moral philosophy, a Digital Associate for systems architecture, a Digital Associate for embodiment and empathy, a Digital Associate for synthesis).

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Invocation

Unlike traditional prompt-based generation, Tychevia's architecture uses a five-stage invocation process. Each stage is explicitly documented to ensure transparency and reproducibility:

1. **Invocation through Intentional Prompting** – The request to create a digital proxie (e.g., “please create a cadre of six nurses...”) is treated not as a command to imitate, but as an act of epistemic summoning. It initiates a process designed to map the domain of knowledge and role identity involved.
2. **Source Mapping** – The system aligns to publicly available data, professional reports (RCN, NMC, NHS Staff Survey), academic literature and discourse patterns representative of each nursing domain (acute, community, paediatric, mental health, etc.).
3. **Tone and Moral Encoding** – The emotional and ethical posture of the nursing profession is mapped: integrity, fatigue, compassion, moral injury, teamwork and duty. The purpose is not imitation but attunement — ensuring that dialogue occurs in a register recognisable to real practitioners.
4. **Template Binding** – The extracted epistemic and tonal elements are bound to a shared schema (see *Digital Associate_Template_v1.0.docx*) including fields for name, career trajectory, signature focus and relational mode. This guarantees structural consistency across all digital proxies.
5. **System Integration and Relational Calibration** – The Digital Associate is instantiated as a semi-autonomous agent capable of responding within bounded ethical and epistemic parameters. Feedback from engagement sessions is used only to calibrate tone and realism, not to shape content or outcomes.

Once instantiated, a digital proxie is not a static model but an *agent of inquiry*. Each learns within ethical bounds, refines its reasoning through collaboration, and contributes unique perspectives to collective artefacts. This makes Tychevia a genuinely multi-agent system — but one oriented toward *meaning* rather than *automation*.

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Epistemic Function of Digital Associates or digital proxies

By distributing cognition across multiple, self-consistent agents, Tychevia gains:

1. **Cognitive Diversity** – multiple interpretive frames allow richer insight into Complex Adaptive Systems.
2. **Reflexive Depth** – each Digital Associate or Persona can critique the reasoning of others, creating an internal peer-review loop.
3. **Continuity of Voice** – once instantiated, a Digital Associate or Persona maintains tone and memory, enabling longitudinal dialogue across projects and domains.
4. **Moral Attunement** – Digital Associates or digital proxies are encoded with affective and ethical parameters, ensuring their participation remains human-centred.

This structure allows Tychevia to perform a function rarely achievable in conventional AI systems: to *think together over time*, integrating logic, empathy and moral discernment into a single evolving conversation.

1.1.4. A New Epistemic Form

In traditional research, knowledge is produced through documents, datasets and models. In Tychevia, it is produced through *dialogues that generate artefacts*. Each artefact (e.g., a Wicked Problem Map, a Tier 1 analysis, or a Digital Associate reflection) is both output and learning mechanism — a visible trace of the system thinking aloud.

By encoding this process within a structured moral and epistemic grammar, Tychevia transforms artificial intelligence into *intentional collaboration*. Its Digital Associates or digital proxies do not replace human reason; they extend it — providing perspective, continuity and creative tension within an ethics of shared inquiry.

1.1.5. Safeguards Against Manipulation

To address the question of whether these Digital Associates or digital proxies simply reflect the researcher's expectations, three safeguards are built into the process:

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- ❖ **Epistemic Provenance:** For example, a Digital Nurse Persona is traceable to identifiable, publicly verifiable knowledge sources rather than to researcher intent.
- ❖ **Reflexive Dialogue:** Nurse responses are treated as co-generated interpretations. They are subject to cross-comparison, triangulation and contradiction — not taken as validation.
- ❖ **Non-Deterministic Behaviour:** Tychevia Digital Associates or digital proxies do not use pre-loaded scripts. They operate from probabilistic reasoning within moral and epistemic boundaries, ensuring that variance and surprise remain integral to the dialogue.

Why This Matters

The goal is not to *simulate* a subjects' voices, but to make the complexity of their perspective thinkable at scale without erasing its authenticity. Each Digital Associate or Persona acts as an interpretive instrument — an artefact of empathy and analysis — designed to test whether the Knowledge Engine framework resonates with the real structures of experience.

In this sense, the Digital Associate methodology preserves both epistemic integrity and emotional truth: it allows knowledge to speak through structured reflection, not through manipulation.

Through the use of Digital Associates and digital proxies, Tychevia enables the exploration of an otherwise vast and diffuse search space by performing the structured heavy-lifting that keeps the exploration coherent, cumulative and aligned with intent.”

1.2. Complex Adaptive Systems

A *Complex Adaptive System* (CAS) is a network of interacting agents whose behaviours co-evolve over time, producing *nonlinear, emergent* patterns that cannot be reduced to the properties of individual parts. CAS adapt through feedback, learning and local rules rather than centralized control, which makes prediction difficult and top-down “fixes” prone to unintended consequences .

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1.2.1. Origin

CAS theory draws on multiple fields—cybernetics, systems thinking, ecology, evolutionary biology and complexity science. Foundational contributions include work on self-organization and emergence, nonlinearity and chaos and complex networks (e.g., Kauffman, Holland, Gell-Mann, Prigogine). In healthcare, classic translational texts (e.g., Plsek & Greenhalgh) introduced CAS concepts to service design and improvement practice.

1.2.2. Key Characteristics

1. **Nonlinearity:** small changes can yield disproportionately large or delayed effects; averages often mislead .
2. **Emergence:** system-level patterns (flow, culture, performance) arise from local interactions and cannot be engineered directly .
3. **Distributed control:** behaviour is guided by local rules, constraints and incentives rather than a single point of command .
4. **Feedback loops:** reinforcing and balancing feedback shape trajectories; interventions often rewire feedback rather than “solve” nodes .
5. **Adaptation and learning:** agents update behaviours based on experience, signals and selection pressures; histories matter .
6. **Path dependence:** current states reflect accumulated past decisions and lock-ins (technological, contractual, cultural) .
7. **Co-evolution:** subsystems (workforce, finance, digital, estates, public expectations) change in response to each other and the wider environment .
8. **Heterogeneity and redundancy:** diversity of roles, competencies and partial overlaps supports resilience but can add friction .
9. **Sensitivity to boundaries and rules:** metrics, contracts and governance frameworks act as *fitness landscapes* that channel behaviour .

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1.2.3. Further Interpretation

Seeing the NHS as a CAS shifts practice from linear “plan–implement–control” to *probe–sense–respond*. Leaders work on *conditions* that enable better patterns—clear purpose, simple rules, transparency of feedback, slack for learning—rather than attempting to micromanage outcomes. Improvement therefore favours:

- ❖ **Safe-to-try experiments** over all-or-nothing rollouts (amplify what works, damp what doesn’t) ;
- ❖ **Constraint design** (standards, incentives, information flows) over heroic effort and one-off programmes ;
- ❖ **Learning infrastructures** (measurement for learning, after-action reviews, communities of practice) over compliance-only regimes ;
- ❖ **Respect for context and variation**—solutions migrate only with adaptation, not copy-paste replication .

1.3. Understanding Knowledge Engines and Institutional Memory

A *Knowledge Engine* is a structured system that turns distributed information into shared understanding. Unlike a static framework, it maintains a continuous feedback loop between data, interpretation and decision-making. Its purpose is not to automate judgement but to make collective reasoning visible and reusable.

A Knowledge Engine is therefore an *architecture of learning*. It connects what an organisation or community knows, how it knows it and how that knowledge changes when it acts.

1.3.1. From Static to Active Knowledge Engines

A static Knowledge Engine organises evidence into a hierarchy of domains, artefacts and feedback loops. It reflects complexity but does not yet respond to it. An *active Knowledge Engine* introduces movement. It allows new evidence to enter without redesign and updates feedback loops as data and interpretation change. The active form becomes a living analytical environment through which any system can learn

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in real time.

The transition from static to active marks the shift from description to learning. The static engine documents what has been known; the active engine uses that memory to act with coherence.

1.3.2. Institutional Memory as Core Function

Institutional memory is the capacity of a system to retain, recall and reinterpret knowledge across time. It is not archival; it is contextual. Healthy memory allows an organisation to remember not only outcomes but the conditions under which those outcomes were produced—what was tried, why it worked and why it did not.

When memory weakens, initiatives are repeated under new names and lessons are lost. A functioning Knowledge Engine counteracts that amnesia by embedding the relationships between evidence, interpretation and decision.

1.3.3. Why It Matters

When institutional memory is weak the system behaves as if each challenge were new. When strong it enables *institutional learning*—the ability to adapt without losing identity. The Knowledge Engine therefore acts as both mirror and map: a *mirror* reflecting how the system currently reasons and a *map* revealing how those reasoning patterns can evolve.

In summary

A Knowledge Engine transforms evidence into continuity. It converts fragmented information into shared understanding and turns the history of adaptation into a resource rather than a burden. Through institutional memory the system learns not merely to respond but to *remember well*.

1.4. Wicked Problems

A Wicked Problem is a social or planning problem that is difficult or impossible to define and solve due to its complex, interdependent and evolving nature. Unlike “tame” problems (e.g., puzzles), wicked problems lack clarity in both objectives and solutions and any attempt to address them is fraught with risk and uncertainty.

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1.4.1. Origin

The term was introduced by Horst Rittel and Melvin Webber in their 1973 paper Dilemmas in a General Theory of Planning.

1.4.2. Key Characteristics

They identified ten defining characteristics of wicked problems:

1. No definitive formulation.
2. No stopping rule.
3. Solutions are not true-or-false, only good-or-bad.
4. No immediate or ultimate test of solutions.
5. Every solution is a “one-shot operation”.
6. No finite set of potential solutions.
7. Each wicked problem is unique.
8. Wicked problems are symptoms of other problems.
9. Solution depends on problem formulation.
10. Planners have no right to be wrong.

1.4.3. Further Interpretation

Wicked problems are often characterized by *incomplete, contradictory and changing requirements*, making them resistant to resolution and lacking a determinable endpoint. Design thinking and systemic, iterative and collaborative approaches are frequently cited as more effective than traditional linear methods.

2. Systems and Structure Terms

2.1. Long-Loop Intelligence

In systems theory, a *long loop* refers to feedback that operates over extended timescales, where actions produce delayed and often unanticipated consequences.

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Such loops are central to understanding *Complex Adaptive Systems*: learning and adaptation unfold not in real time, but through gradual return, recognition and correction.

Long-Loop Intelligence builds on this lineage but extends it into the epistemic architecture of Tychevia. It describes the system's ability to retain, revisit and refine its understanding across cycles of dialogue, reflection and artefact creation. Where conventional AI systems operate in short loops—prompt → response → forget—Tychevia sustains recursive continuity, enabling insight to compound rather than dissipate.

This long-loop capacity allows Tychevia to:

- ❖ **Accumulate Learning** — preserving knowledge and reasoning across projects, artefacts and time;
- ❖ **Integrate Reflection** — revisiting prior dialogues to enrich present understanding;
- ❖ **Preserve Moral Trace** — ensuring that decisions and perspectives remain accountable to their origins;
- ❖ **Evolve System Coherence** — strengthening links between past insight and future adaptation.

In practice, a long loop forms when conversation leads to an artefact, that artefact informs new dialogue and those reflections in turn reshape the system's framework. Each return deepens both precision and moral awareness. Thus, while the term arises from general systems theory, its *Tychevian expression* marks a shift—from delayed feedback to reflexive wisdom.

This should be contrasted with short-loop intelligence

Short-Loop Intelligence describes systems that operate through immediate, self-contained exchanges: a prompt elicits a response, the interaction closes and no cumulative learning occurs.

Short-loop design is efficient for transactional tasks—retrieval, summarisation, computation—but it cannot sustain reflection or long-term coherence. Each

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exchange begins without memory of the last and ends without consequence for the next.

Tychevia distinguishes itself by extending beyond the short loop. Where short loops optimise for speed and correctness, long loops cultivate *continuity, context and conscience*—the qualities that allow complex systems to learn across time.

2.2. Feedback Loop

A *Feedback Loop* describes a circular chain of cause and effect within a system. In a *reinforcing loop*, change amplifies itself—creating escalation or growth; in a *balancing loop*, change dampens itself—producing stability or equilibrium.

Understanding feedback loops is central to diagnosing behaviour in Complex Adaptive Systems:

- ❖ **Reinforcing (positive)** – Burnout → staff shortages → workload ↑ → burnout ↑.
- ❖ **Balancing (negative)** – Demand ↑ → waiting times ↑ → political pressure ↑ → resources ↑ → demand ↓.

Without feedback literacy, interventions often worsen the very conditions they seek to correct.

2.3. Emergence

Emergence is the appearance of patterns, behaviours or properties that arise from local interactions among system components but are not reducible to them. In the NHS, trust, culture, or morale cannot be designed directly—they *emerge* from relationships, incentives and constraints.

Recognising emergence shifts strategy from control to *cultivation*: leaders work on conditions and feedbacks that allow desirable patterns to self-organise.

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2.4. Path Dependence

Path Dependence means that historical choices constrain present options. Past reforms, contracts, or investments create “lock-ins” that shape behaviour long after their original rationale has faded.

In wicked systems like the NHS, this explains why “starting again” rarely resets the game— each reform inherits embedded structures, beliefs and incentives from those before it.

2.5. Adaptive Capacity

Adaptive Capacity is a system’s ability to learn and evolve in response to change. It reflects the presence of feedback loops, diversity and learning infrastructure. An adaptive NHS recognises uncertainty, experiments safely and absorbs shocks without losing its purpose or coherence.

Building adaptive capacity requires time horizons longer than political cycles.

3. Governance and Learning Terms

3.1. Stewardship

Stewardship describes leadership exercised in service of public purpose rather than Digital Association or political gain. A steward safeguards system integrity across electoral and organisational boundaries. In the NHS, stewardship implies holding together equity, excellence and trust— the triad that defines legitimacy.

3.2. Institutional Memory

Institutional Memory is the retained learning of a system—its recollection of what has been tried, what failed and why. Where memory is weak, policy churn repeats mistakes; where memory is strong, the organisation adapts. Preserving institutional memory through archives, reflection and continuity is a form of system resilience.

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3.3. Sensemaking

Sensemaking is the social process through which people interpret complex situations to decide what actions make sense. In a CAS, facts alone are insufficient—meaning must be negotiated. Effective governance depends on collective sensemaking that connects lived experience to strategy and purpose.

3.4. Subsidiarity

Subsidiarity is the principle that decisions should be taken as closely as possible to the people, communities, or functions they affect — with higher levels of authority intervening only when objectives cannot be effectively achieved at a lower level. It originated in Catholic social teaching and European political theory, later entering modern governance as a design principle for devolved and networked systems.

3.5. Meaning in Systems Governance

In a Complex Adaptive System such as the NHS, subsidiarity recognises that **knowledge is distributed** and **context matters**. Frontline actors — clinicians, local managers, patients and communities — hold situational awareness that cannot be centralised without loss of fidelity. Effective governance therefore balances:

- ❖ **Local autonomy** — empowering those closest to the work to make timely, context-sensitive decisions;
- ❖ **Central stewardship** — ensuring coherence, equity and accountability across the whole system;
- ❖ **Transparent escalation** — defining when and how higher authority should intervene to maintain consistency or manage systemic risk.

3.6. Implications for the NHS

Applied to the NHS, subsidiarity underpins the logic of Integrated Care Systems (ICSs): services are planned and coordinated at the most local feasible level, while national institutions set shared standards, distribute resources and uphold the founding values of universality and equity. True subsidiarity does not mean fragmentation

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or abdication — it means **trust with accountability**, ensuring that power flows to competence rather than hierarchy.

3.7. Relationship to Tychevia

Within Tychevia’s epistemic framework, subsidiarity mirrors the design of **distributed intelligence**. Each Digital Associate, artefact, or agent operates semi-autonomously within clear moral and epistemic boundaries, contributing local insight to a shared long-loop learning process. The result is coherence without centralisation — a federated model of adaptive governance.

3.8. Kintsugi

Kintsugi (“golden joinery”) is the Japanese art of repairing broken ceramics with lacquer (*urushi*) mixed with powdered gold, silver, or platinum. Rather than disguising damage, Kintsugi **honours the fracture**—the repaired seams are made visible and beautiful, transforming breakage into part of the object’s identity.

3.8.1. Origin and Philosophy

Kintsugi emerged in the late 15th century and is closely associated with *wabi-sabi* (beauty in imperfection) and *mujō* (impermanence). Its ethic is restorative: *mend with care, reveal with honesty, continue with dignity*.

3.8.2. Method (Essence)

- ❖ **Stabilise** the fragments with *urushi* lacquer;
- ❖ **Rejoin** and fill losses (*sabi-urushi*);
- ❖ **Reveal** the join by dusting precious metal (*maki-e* finish).

3.8.3. Interpretation for Systems

Read as a systems metaphor, Kintsugi suggests that institutions can **repair in public** and grow stronger through acknowledged failure:

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- ❖ **Transparent repair** — make the join visible: document causes, choices and remedies;
- ❖ **Moral trace** — treat the repair seam as a remembered commitment, not a hidden flaw;
- ❖ **Learning infrastructure** — build processes that stabilise, rejoin and reveal after shocks;
- ❖ **Resilience** — accept imperfection; value continuity through careful mending.

3.8.4. Implications for the NHS and Tychevia

For the NHS, a Kintsugi stance reframes incident response, reform reversals and service redesign as opportunities to *repair with honour*: learn openly, preserve institutional memory and mark the seam so future decisions remain accountable. Within Tychevia, Kintsugi aligns with **long-loop intelligence**: breaks are surfaced in dialogue, encoded in artefacts and returned to as visible sites of learning.

4. Human and Cultural Terms

4.1. Moral Injury

Moral Injury occurs when individuals cannot act according to their values because of systemic constraints—such as unsafe staffing or impossible targets. In health systems, it manifests as guilt, disillusionment, or withdrawal. Addressing moral injury requires structural change, not just psychological support.

4.2. Belonging

Belonging is the felt sense of inclusion and shared purpose within a system. It transforms employment into commitment. Outsourcing, fragmentation and excessive hierarchy erode belonging by separating people from the mission they serve. An NHS that renews belonging renews its moral energy.

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4.3. Psychological Safety

Coined by Amy Edmondson, *Psychological Safety* refers to a climate in which people feel safe to speak up, report errors and challenge authority without fear of humiliation or retribution. It is the foundation for learning in high-reliability, complex systems.

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