



England

TechUK

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Let's Talk Architecture



Timeline

Rewired

Launched the Let's Talk Architecture Conversation (618)

Leadership think tank

Session with DHSC, NHS chief officers and trades member for a roundtable discussion.

Skill Development Networks

Presented at East of England and South West SDN conference (180)

Independent Healthcare leader circle

Session with executives and officers from independent healthcare section to gather insight

TechUK engagement

Share thoughts with trades association to gather input from suppliers.(260)

Internal NHS England

Engagement with TSAS and D&A colleagues to gather information using focus group. (35)

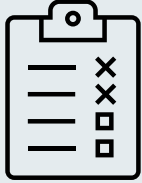
CIO network

Bi-monthly update to CIO network, Share updates and information to gather input.(130-300)

Roundtables

Round tables hosted by Public Policy Projects and TechUK. (160)

Does the 'DRAFT' One Architecture Charter set out the right values and principles?



Current State & Feedback:

Bland & Simplistic
Need for Actionability



Missing Core Principles:

Reusable by Design
Architectural Coherence
Architectural Evolution
Healthcare Principles
Do It Right First Time
Don't Build Without a Customer



Key Recommendations:

Directive Approach & Enforcement
Inclusivity
Address Engagement

What are the technology and standards considerations for the future health and care system?



Standards as the Bedrock:

- Fundamental Requirement
- Open Standards Focus
- Enforcement is Key
- Broader Scope
- Clear Definitions



Open standards

- Fundamental Requirement
- Open Standards Focus
- Enforcement is Key
- Broader Scope
- Clear Definitions



Investment & Disinvestment:

- Continue Investment
- Review Legacy Systems
- Disinvestment Candidates
- Longer-Term Budgeting



Emerging Technologies:

- Medical AI
- Productivity AI
- openEHR Standard
- Quantum Computing



Supplier Accountability:

Hold technology companies accountable for standards adherence and value, leveraging NHS collective buying power.

What are the digital and data architecture features required of future health and care services?



Core Architectural Principles:

- Balance of Consistency & Flexibility
- Curated Asset Repository
- Reusable by Design
- Composable Design



User-Centred Design & Accessibility:

- Person-Centred/Inclusive
- Usability by Design
- Digital Inclusion



Data-Centric Approach:

- "Record Once, Share Once, Use Multiple Times"
- Real-time, Secure, Accurate Data
- Separated Record Archive
- Data Quality Remediation



Technical Foundations:

- Cloud-Native & Modula
- Cyber Security & Compliance by Design
- Innovation Readiness

How do we organise the digital and data architecture to ensure best value and outcome?



Strategic Direction:

- National Architecture Strategy
- NHS-Wide Scope
- Address Local Autonomy



Strengthening Architecture Functions:

- Push EA & SA
- Adequate Function Size



Governance: Enablement Over Control:

- Lightweight Guardrails
- Local Empowerment
- Outcome-Based Measurement
- Address Local Gaps



Strategic Thinking for Value:

- Healthcare Goals First
- Problem-First Approach
- Value Evaluation



Collaboration & Knowledge Sharing:

- Architecture Editorial Group (AEG)
- Sharing Best Practices
- Connect Problem Solvers
- Early Engagement



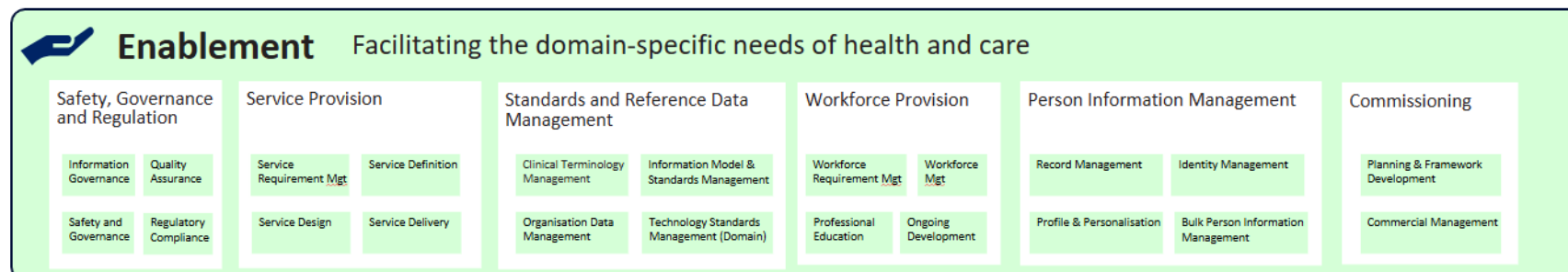
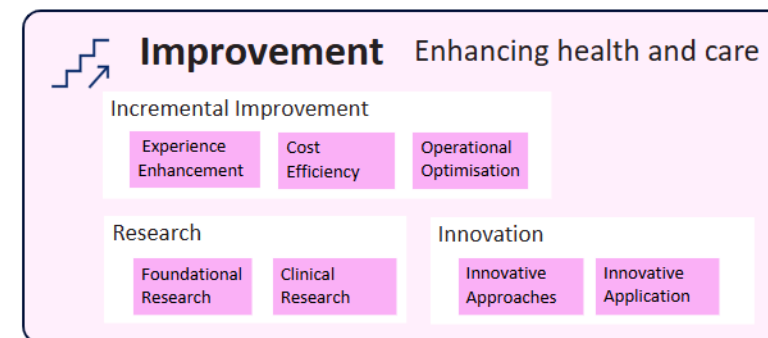
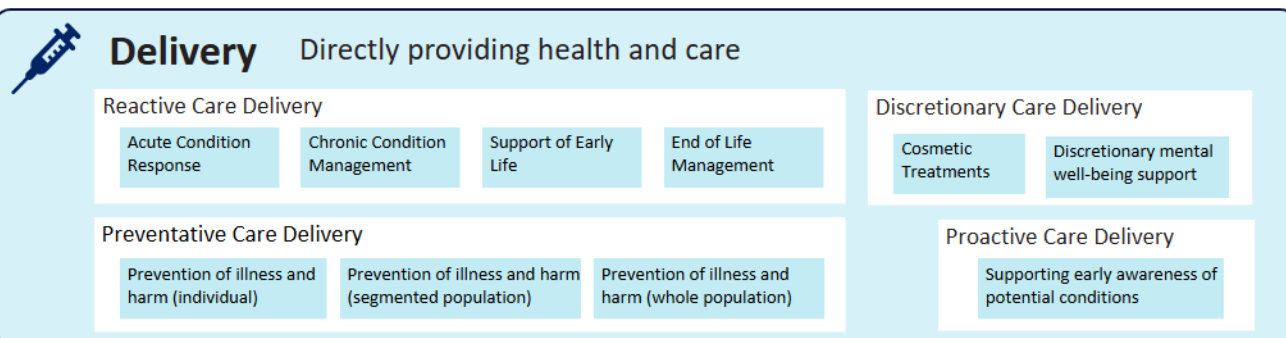
Investing in Capabilities (Skills & Culture):

- Shift Mindset
- Address Underinvestment
- "Capability Managers"

Person Centred Capabilities



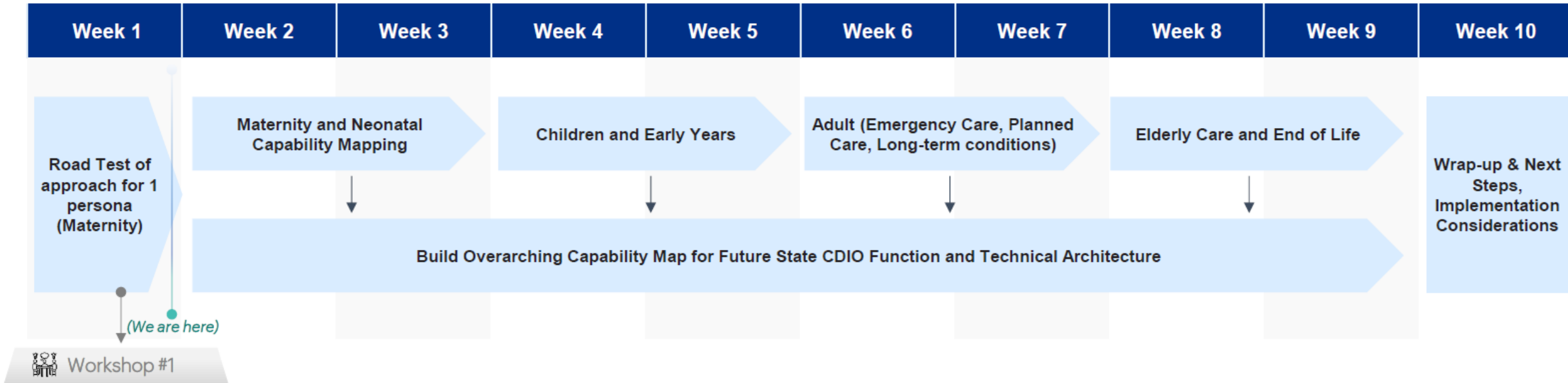
Health & Care Business Capabilities



Person-centered capability view

- OAM describes the health and care system in terms of the **organisations that exist** – the **business capabilities they realise**, through the **services they offer** (and the **application and technology estate deployed** to support)
- Those **services are taken up by the population** – delivering benefits to individual patients as they interact with the health and care system throughout their lives
- OAM also acts as a framework to represent care pathways (*cf “value streams”*): describing the ways in which individuals typically interact with multiple services across different organisations as they receive health care; for example:
symptom – contact – consult – investigate – diagnose – refer – specialist – treatment – resolution / ongoing-chronic disease management
- We are starting work to map a variety of typical journeys through care covering many stages of life i.e. understanding connections and **producing visualisations of the business capabilities that a person/patient encounters through a pathway** – ultimately being able ¹⁰

Draft sprint plan



Maternity & the NHS App – a different approach for the first session to achieve outputs required for ministers – focused on tech assets

Refine approach and more complete preparation – clear articulation of inputs and outputs, focus on the right attendees and ensure value for money of stakeholder engagement

Ensure a more architecturally-led set of activities – exploring service design and user research input into business capabilities to map a care journey relating to a person's life events

Technology Blueprint Editorial Group

Agenda

1. Welcome and introductions
2. Updates from last meeting
3. Feedback from AWS
4. What is the technology blueprint, what will it give us and who is the intended audience
5. Proposed themes
6. Close

Feedback from AWS

TSAS have a monthly engagement session with AWS in which they were asked to provide feedback on what to include within the technology blueprint. The high-level areas they have suggested include:

1. Cloud and Internet First Strategy
2. Healthcare Interoperability Standards
3. AI Implementation Framework
4. Data Management Requirements
5. Security and Compliance Framework
6. Performance and Implementation Standards
7. Innovation Framework

What is the Technology Blueprint?

The Technology Blueprint for Health and Care in England sets out a unified, system-wide vision for how technology will underpin a more resilient, efficient, and person-centred NHS. As digital infrastructure becomes increasingly essential to safe, sustainable, and integrated care delivery, this blueprint provides the strategic framework to align national, regional, and local transformation efforts ensuring coherence, consistency, and focus across the health and care system.

What will it give us?

The technology blueprint will:

- Provide a succinct and impactful explainer around our intended destination and our requirements as we move forward.
- Cover the next 3-5 years and aligns with the content of the Spending Review.
- Provide a level of certainty for our vendors and suppliers as to what we're investing in and disinvesting from as we become more organised, coordinated and clear in our standards and signals.
- Give clarity on how to get towards the target state, and what needs to be in place to do it successfully (aligned workforce, single architecture, etc).

Intended Audience for the Blueprint

Our intended audience is:

- National teams, ensuring our own house is in order
- The NHS as a system, promoting a collective understanding of who's doing what and where decisions need to be made
- Industry, signalling what we're doing and implications for market entry, exit and change. Includes the application of standards.

Proposed Themes

Architecture and the One Architecture Model

The blueprint sets out a shared, layered architectural vision - the One Architecture model - guided by a North Star reference architecture. This ensures coherence across a federated system, enabling modularity, reuse, and interoperability. Reference architectures define best-practice blueprints for core systems, aligning capabilities with services and supporting local delivery within a nationally consistent framework. Architecture is governed as a living discipline, with open, evolving artefacts and tools that support long-term planning and agility.



Infrastructure and Open Standards



Modern, modular, and standards-based infrastructure is foundational to scalable, secure service delivery. The blueprint advances upgrades to national components like the NHS Spine, NHS App, and secure federated data platforms, while promoting standards compliance (e.g., FHIR, SNOMED CT) and API management. A balanced model ensures local flexibility within a nationally aligned architecture, enabling substitutable systems and vendor neutrality while reducing duplication and integration costs.

Delivery Models and Operating Approach

A clear delivery model articulates roles across national, regional, and local levels. Nationally led platforms deliver core capabilities at scale, while locally led programmes tailor solutions to community needs. Regional teams support alignment and assurance. The blueprint embeds agile governance, user-centred design, and iterative assurance into all programmes. Innovation is supported through test beds, sandboxes, outcome-based procurement, and streamlined routes to scale.



Workforce, Talent, and Digital Skills



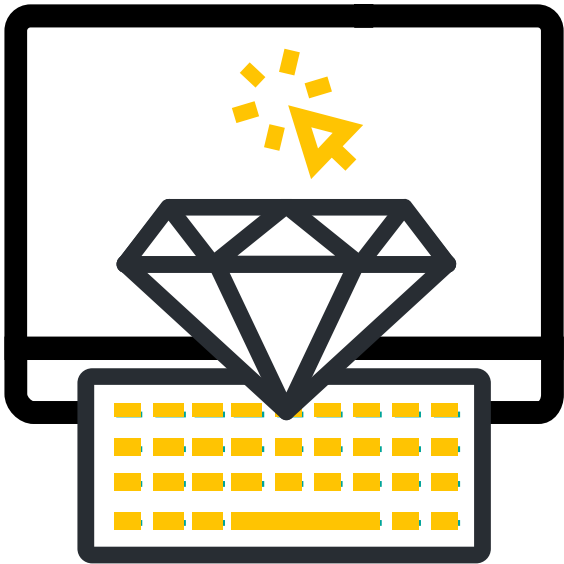
The blueprint aligns with the NHS Long Term Workforce Plan to ensure that digital transformation is underpinned by workforce capability and reform. This includes formal pathways for digital roles, cross-domain competency frameworks, leadership development for CCIOs and CIOs, and targeted training in areas like AI, cyber, and cloud. A sustainable pipeline is supported by apprenticeships, career frameworks, and clinical participation in digital innovation.

Data, Trust, and Insight-Driven Care

Delivering a Single Patient Record is central to enabling joined-up, real-time care. Platforms like Shared Care Records and GP Connect, supported by structured data and shared vocabularies, underpin interoperability and continuity. The blueprint also strengthens governance through the Data Use and Access Act, secure environments, auditability, and privacy-preserving technologies ensuring data use is trusted, lawful, and high-value.



Innovation, Sustainability, and Future Focus



Innovation is embedded through a five-stage lifecycle and supported by legal and commercial frameworks to enable scaling. The blueprint promotes green digital practices supporting NHS Net Zero ambitions. A future-ready approach is delivered through co-design, transparent roadmaps, and iterative delivery, with a focus on real-world needs, measurable impact, and long-term sustainability.

Thank You



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