



Synanetics

Advancing Healthcare
Through Interoperability

NYHDIF

14th November 2024

Efficiency and Productivity –
Old challenges, new solutions?

Agenda

- ▶ Synanetics
- ▶ Backward looking (Paul)
- ▶ Forward looking (Robert)
- ▶ Conclusion
- ▶ Questions

About us

- ▶ **Founded in September 2015**
- ▶ **Advancing Healthcare Through Interoperability**
- ▶ **Entirely Health & Care Focused**
- ▶ **Interweave, Wales, PIE, Channel Islands**
- ▶ **43 Employees (41 technical) many NHS veterans**
- ▶ **Office in Leeds City Centre, but highly distributed workforce**

About me



- ▶ **Castleton Communications/ Xpert Systems**
- ▶ **GFI Informatics/ NextiraOne**
- ▶ **Cisco**
- ▶ **VMWare**
- ▶ **InterSystems**
- ▶ **Synanetics**

NHS Digital Strategy

- ▶ 1976 - The first review of the NHS's computing policy is published.
- ▶ 1992 - The first national IT strategy for the NHS is published
- ▶ 1997 – The first Caldicott review
- ▶ 2001 – Building the Information Core (paper free and paper light)
- ▶ 2002 – Wanless report
- ▶ 2003/4 LSP contracts let
- ▶ 2005 – Connecting for Health
- ▶ 2006 – Whole System Demonstrators
- ▶ 2008 – Darzi report
- ▶ 2013 – Paperless by 2018 + Caldicott 2

NHS Digital Strategy (continued)

- ▶ 2014 – 5 year forward view
- ▶ 2016 – Caldicott 3 + Wachter + GDEs (Wave 1) + Digital Maturity Index
- ▶ 2017 – GDE (Wave 2)
- ▶ 2018 – NHS App
- ▶ 2019 – NHS X + Long term plan
- ▶ 2020 - Emergency contract for Covid Data Store (Palantir) + Nightingale Hospitals
- ▶ 2021 – Frontline Digitisation Programme (FDP) + ShCR MVP 1 + What Good Looks Like
- ▶ 2022 – Waiting list recovery
- ▶ 2023 – Federated Data Platform (FDP) awarded (Palantir) + Digital Maturity Assessment
- ▶ 2024 – The Starmer/Streeking Era + Darzi 2

Return of Tim Ferris

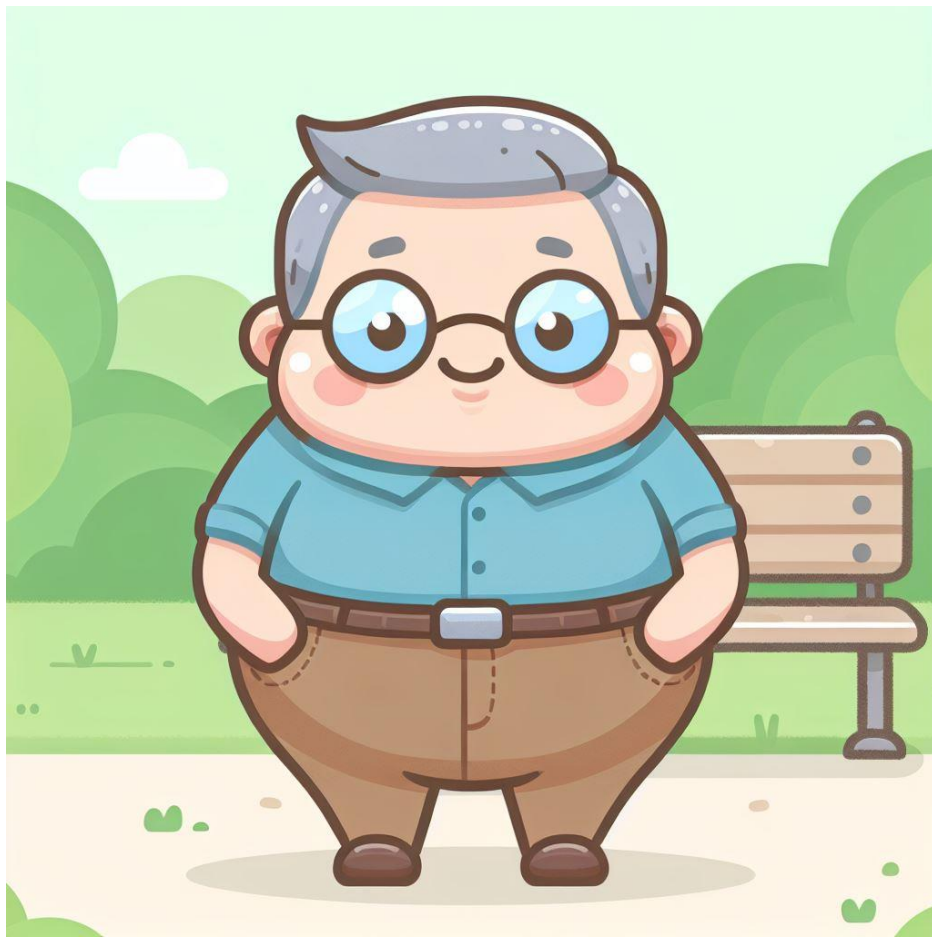
***NB – Not actually Tim Ferris , in fact the highly topical and briefly famous Scarlet Tanager songbird which has been spotted this week on a clothes-line in Shelf



What has delivered

- ▶ Spine & NHS numbers
- ▶ Skills development (+ Chime + Summer School)
- ▶ PACS
- ▶ NHS
- ▶ Cisco Medical Grade Network
- ▶ Productive ward (and productive series)
- ▶ COVID and COPI notices
- ▶ Unwarranted variation
- ▶ Cloud

About me



- ▶ A programmer with an interest in an interest in health & care interoperability

My journey through the public cloud

2020: Infrastructure as Code

2021: Cloud Native Integration

2019: Cloud Security Services

2016: Software as a Service

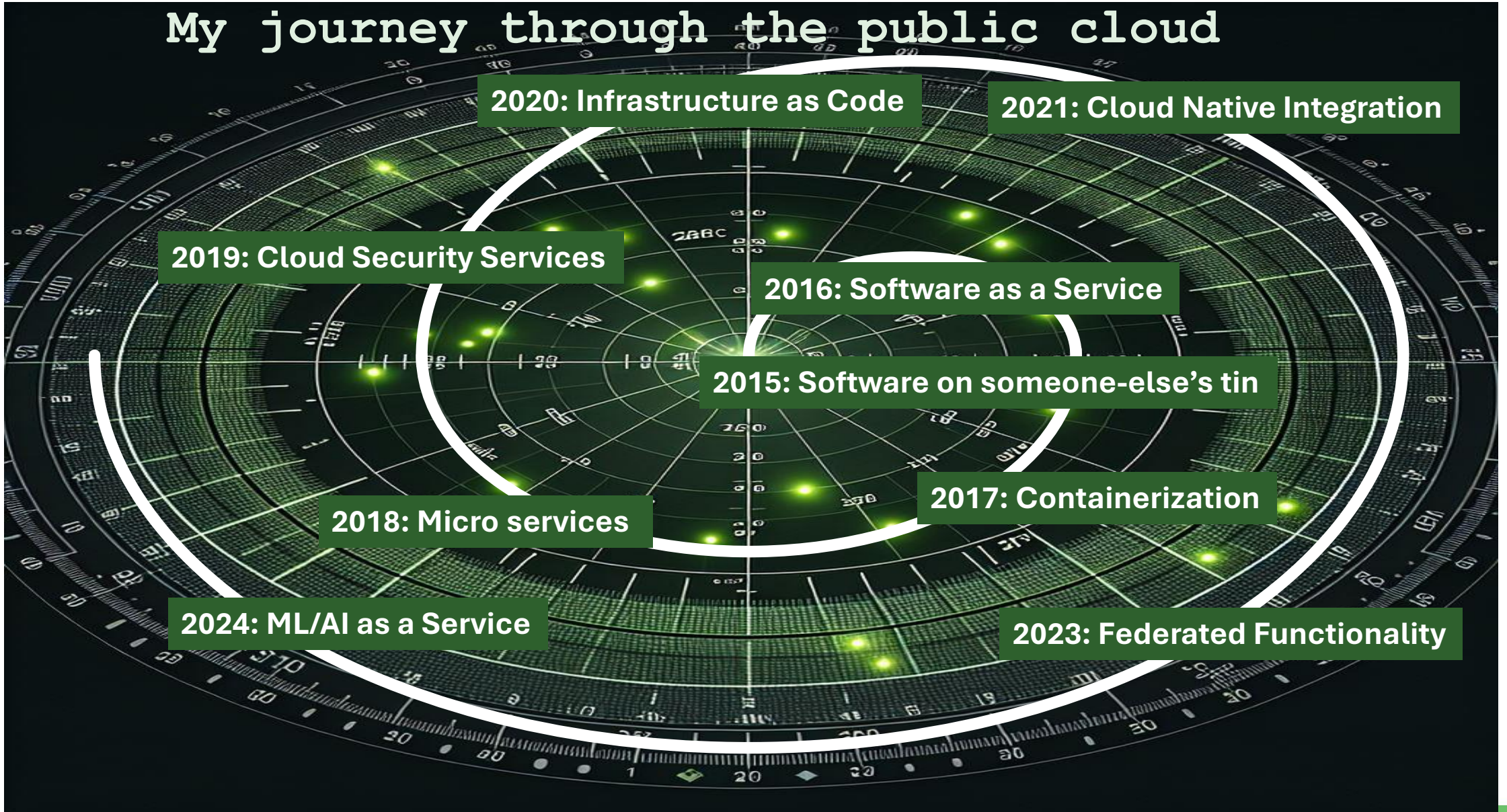
2015: Software on someone-else's tin

2017: Containerization

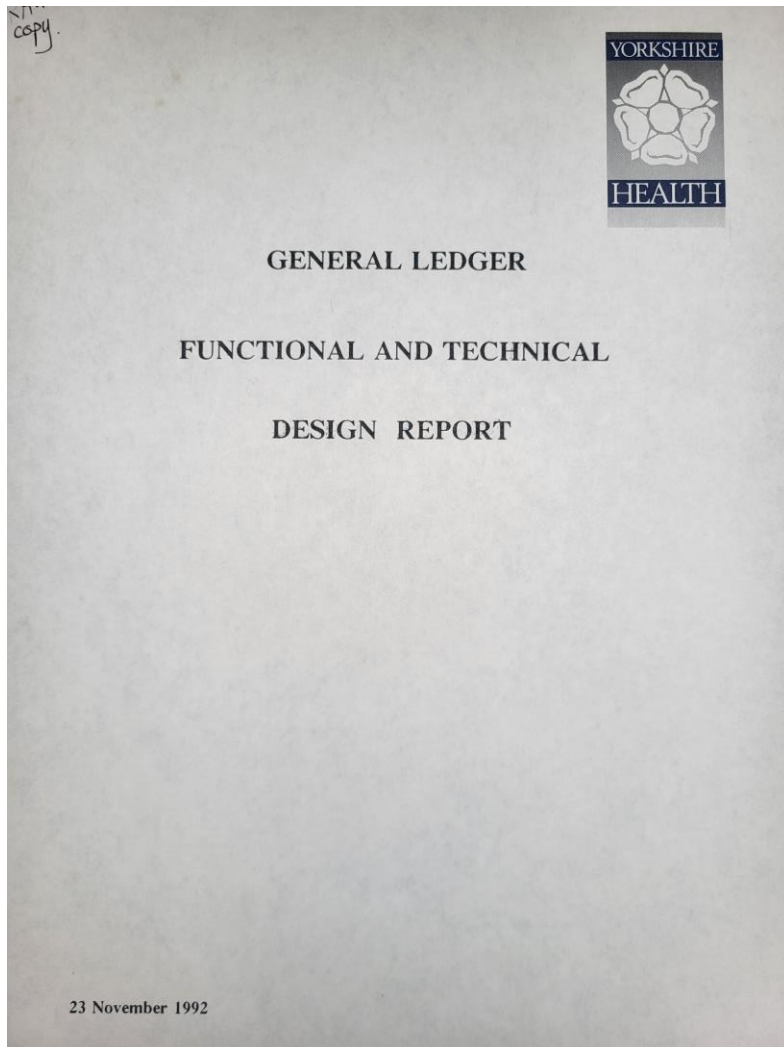
2018: Micro services

2024: ML/AI as a Service

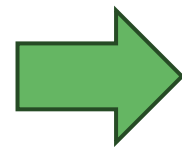
2023: Federated Functionality



Lessons Learned: We Don't Build Software Like We Used To



- Auto-scaling, fault tolerant micro-services
- Large-scale open code libraries
- Continuous Integration/Deployment
- User-centred Design
- APIs not UIs



Quicker to market, more reliable, less disruptive and interoperable

Lessons Learned: Infrastructure is Looking a lot Like Software



- Infrastructure under programmatic control becomes part of the solution
- Scripted infrastructure changes the game for deployment and DR
- Business continuity through high-availability
- Focus on cost management rather than investment planning

Assumptions from the Past Can Inhibit Adoption of the New

Presumptions as to how a problem will be solved can act
as a brake on innovation

Thanks