The Journey to Cloud

• Where do we start?
• Who can I ask to help?
• Is this a tech thing or business?
• How do I do this and keep the ‘show on the road’?
• What skills are needed?
Ageing technology based on manual process
• Early adoption of cloud has been from new and discrete workloads representing just 20% of IT resources

• Up-to 80% of IT resources are spent ‘keeping the lights on’

• There is a significant opportunity to reduce waste and risk across ALL of public sector IT
Legacy ICT landscape

- Automated to pre-existing manual processes
- Outsourced tech and skills
- Organically grown and customised via projects
- No disaggregation
- Seen as a inhibitor not an enabler
- ‘Digital’ created new services on top of the legacy
Typical Internet Application Architecture...

- **Load Balancer A**: WSA1, WSA2, WSA3
  - Web Server retrieves from cache (mostly) and writes to DB

- **Load Balancer B**: WSB1, WSB2, WSB3
  - LB points to many Web Servers (more than diagram can show)

- **Load Balancer C**: WSC1, WSC2, WSC3

- **Cache Cluster**
  - Round Robin DNS points to multiple always on load balancer IPs

- **Master DB**
  - DB is the only place that will accept writes, and thus becomes a huge single point of failure. This is where most Internet architectures fall over first. See Shardine.
We will all create Data Gravity .......

Data Gravity

\[
\left( \frac{\text{Data Mass} \times \text{Application Mass}}{\text{Number of Requests per second}} \right) \times \left( \frac{\text{Average Request Size in MBs}}{\text{Bandwidth in MBs per second}} \right)^{2}
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Environment
Risks
People
Money
Technology
Process
Real/Non Real
Data
Location
Metadata
Derived Data
Sensitivity
Security
Innovation
Uncertainty.
Digital transformation: from legacy to digital

Inflexible & inefficient legacy IT

Non-Cloud

Private Cloud

Community Cloud

‘Cloud Enabled’ assured hosting

‘Cloud Native’ next-gen apps

Public Cloud

Digital Public Services

Making Change Happen – driving adoption of cloud for new and existing IT solutions
3. At your service. Supporting digital transformation.

Experts – at your service
✓ Cloud Architects
✓ DevOps Consultants
✓ IA Specialists
✓ Customer Success Managers
✓ Technical Account Managers
✓ Commercial experts
✓ 24/7 Cloud Engineers