The New Enterprise Data Center: Supporting Business Innovation

Name: Dan Bailey
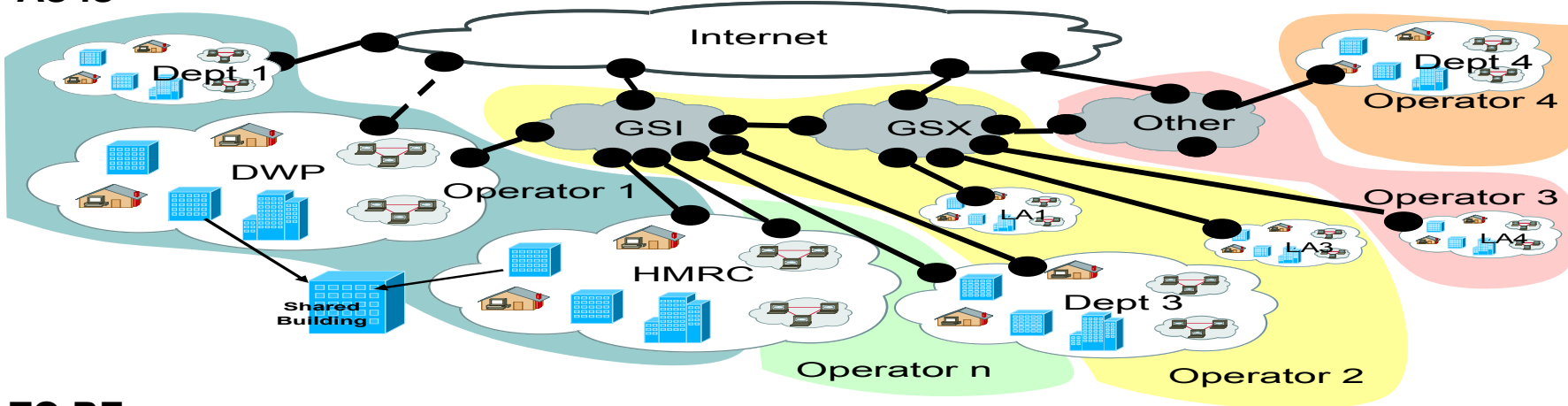Date: 13th November 2008
Title: How NEDC can shape Public Sector Datacentres

IBM

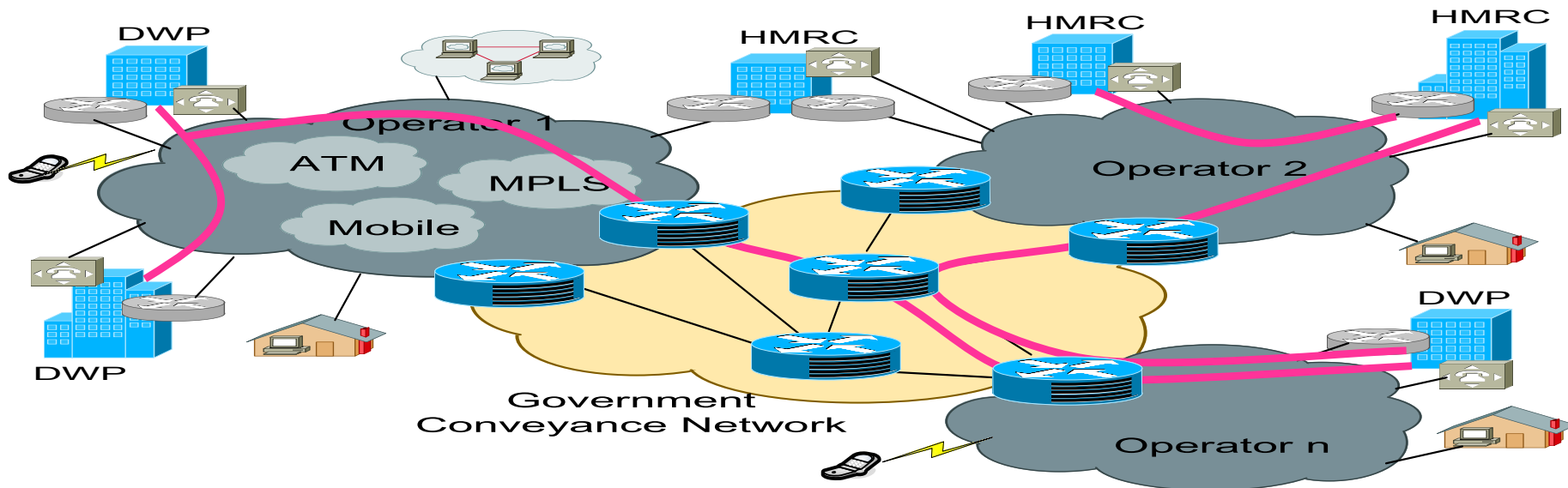# Building on the Public Sector Network (PSN)

AS IS

TO BE

Then taking the cloud Computing Concept

IT Customers:
- Flexible pricing
- Outsourced, on demand
  provisioning
- Unlimited scaling
- SW developer platform
- Flexible

IT Analysts:
- Variable pricing
- No long term commitments
- Hosted, on demand
  provisioning
- Massive, elastic scaling
- Standard Internet technology
- Abstracted infrastructure
- Service-oriented

Common Attributes of Clouds
Flexible pricing
Elastic scaling
Rapid provisioning
Advanced virtualization

Press:
- Pay by consumption
- Lower costs
- On demand provisioning
- Grid and SaaS combination
- Massive scaling
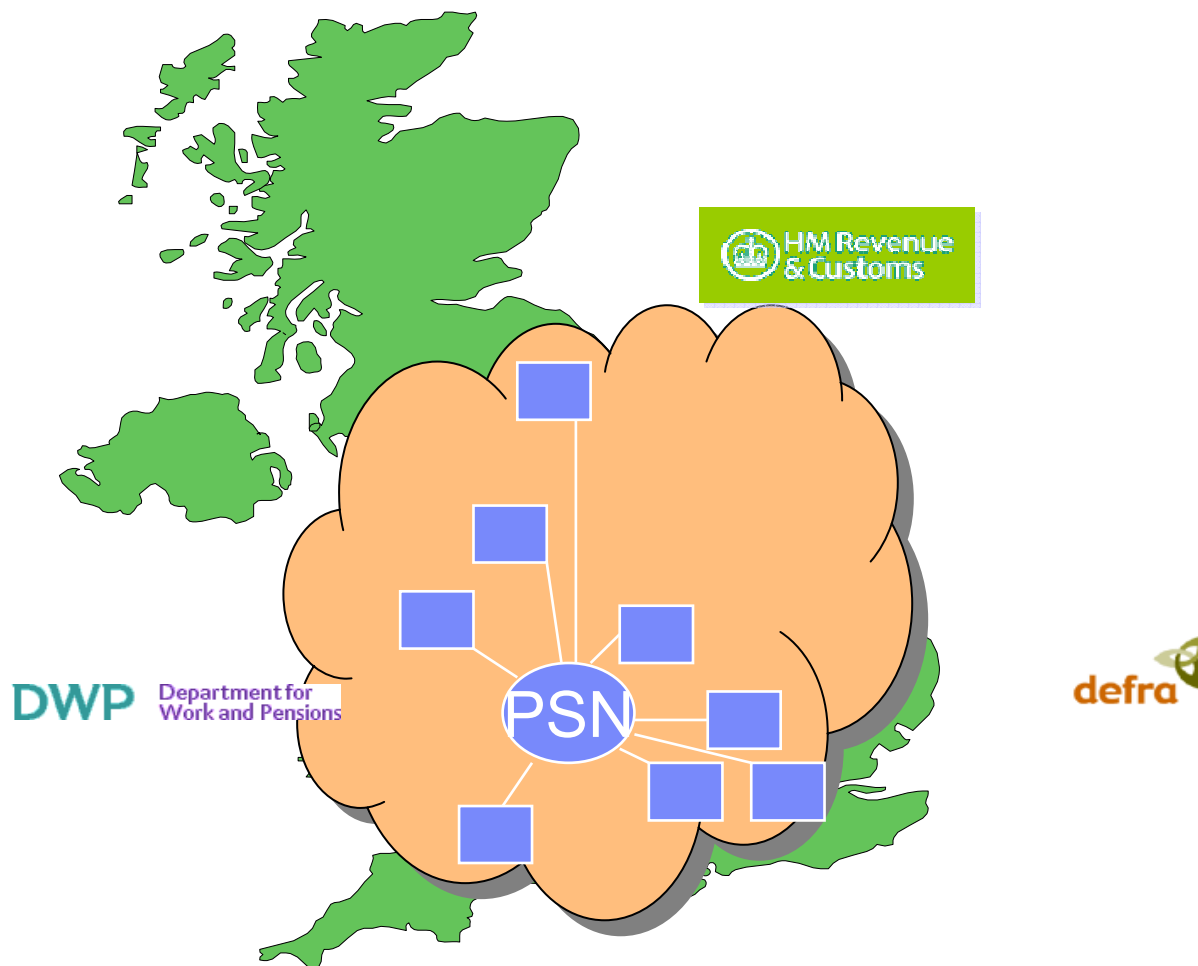- Efficient infrastructure
- Simple and easy

Frequently Cited Examples
- Amazon Compute and
  Storage Services
- Google App Services
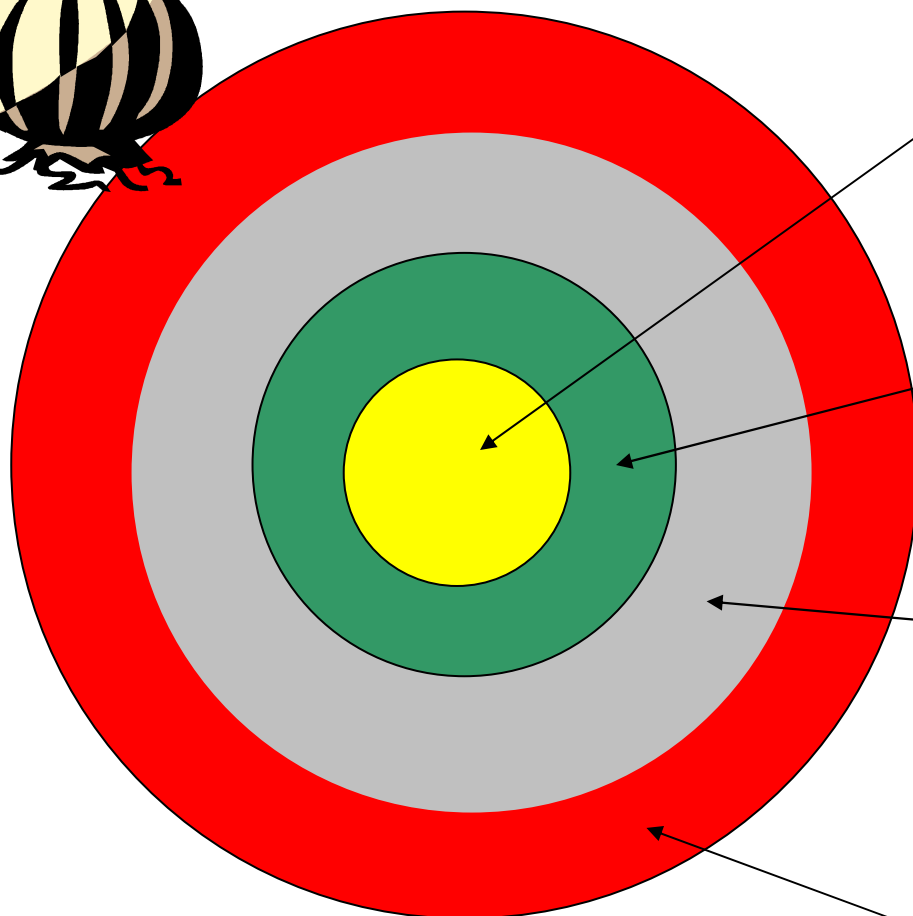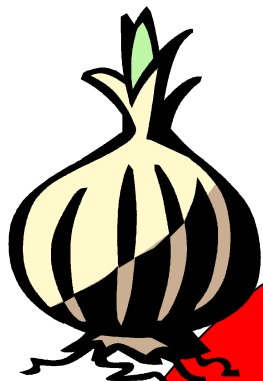- Salesforce App Exchange

Financial Analysts:
- Utility pricing
- Multi-core chips
- Hosted, a-a-s provisioning
- Parallel, on demand processing
- Scalable
- Virtualized, efficient infrastructure
- Flexible

And Using the NEDC thinking could result in significant change to the IT infrastructure landscape for the UK Public Sector

One size will not fit all

Dedicated
- Highly Secure
- Specialised Service

Public Sector Private Cloud
- Repeatable services controlled within Public Sector
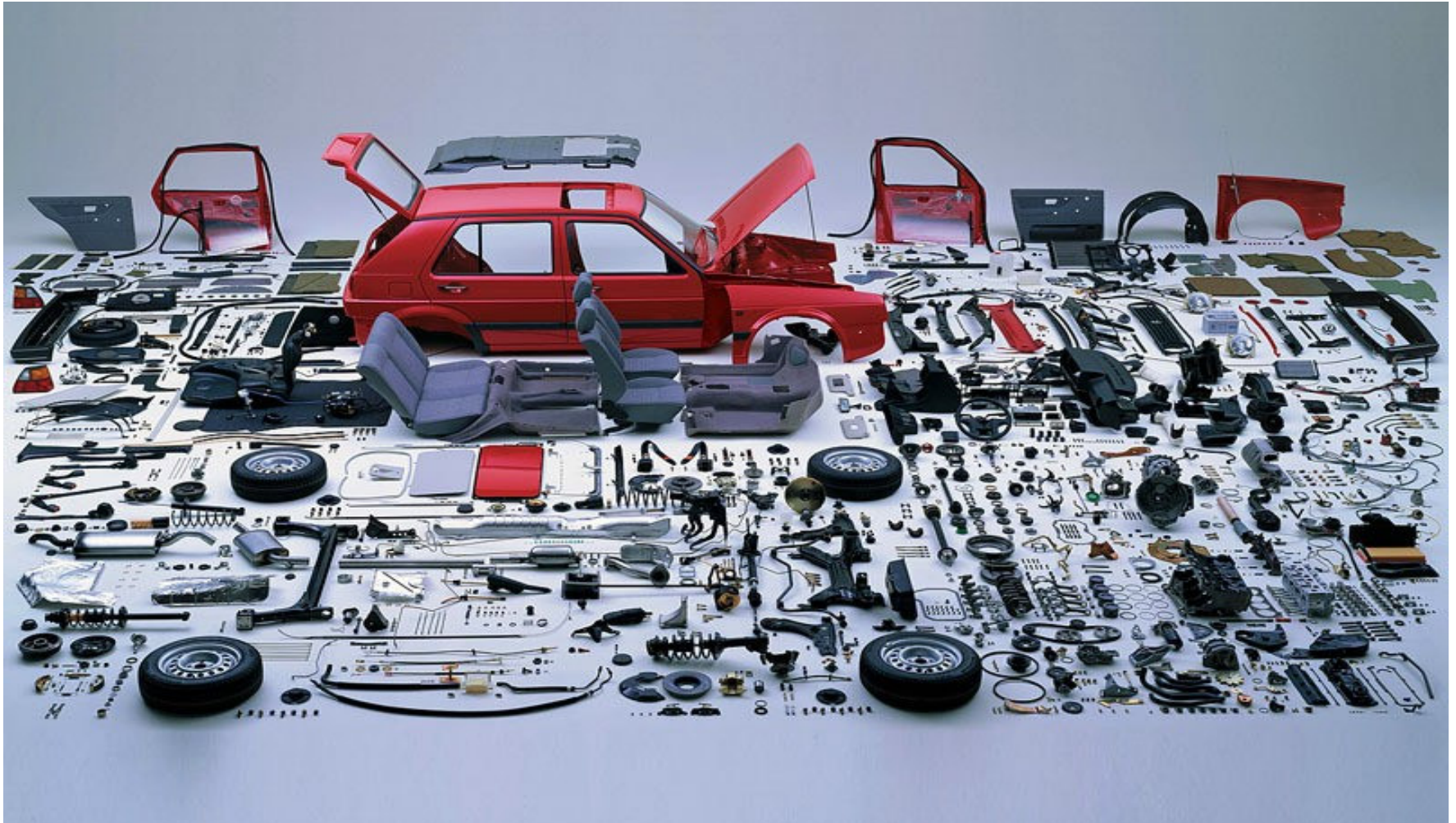- Within GSI & Govt Connect

Public Cloud
- External server hosting services
- Commodity services
- Data shared with citizens
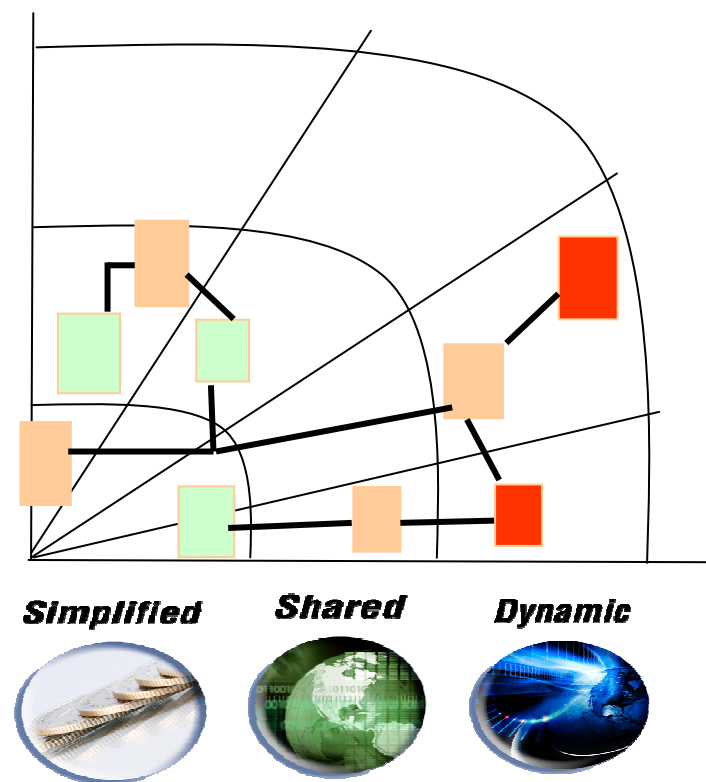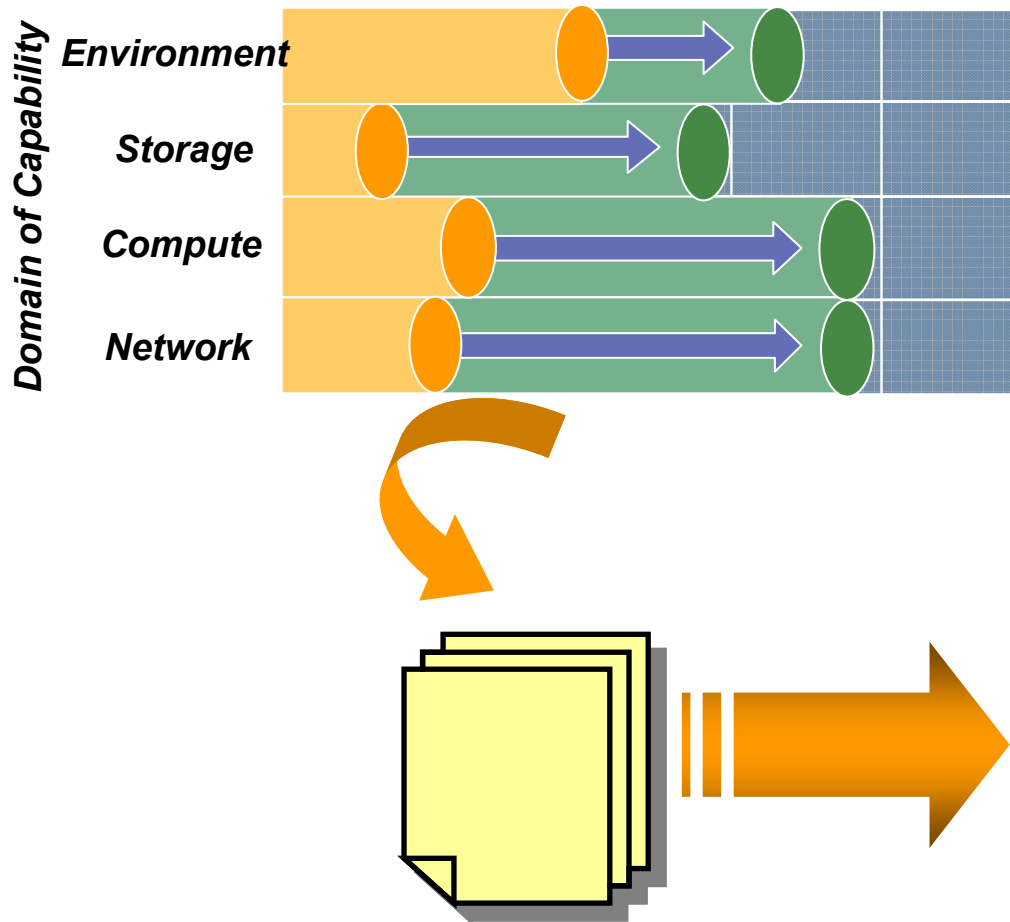- Outside of GSI & Govt Connect

Software as a service
Externally hosted application services
Low maturity for highly critical applications for 2-3 years

But getting there is never as simple as it can sound

Internally review your IT strategy and update your roadmap to get you to the vision

Domain of Capability

- **Environment**
- **Storage**
- **Compute**
- **Network**

Simplified   **Shared**   **Dynamic**

These simple steps can help determine where to focus

Simplified

- **Work with estates to determine best sites for consolidation**
- **Use Server Classification activities to determine use of existing ICT and its efficiency**
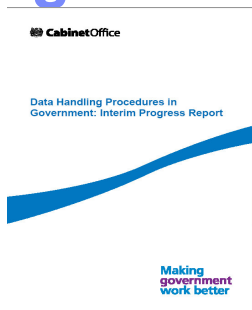- **Consolidate & virtualise easy to move capability such as databases any function on Linux**

Shared

- **Determine which "ensembles" are key to focus on**
- **Identify core services**
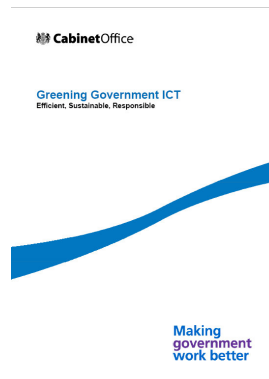
Dynamic

- **For complex legacy applications look to use modernisation tooling to transform**

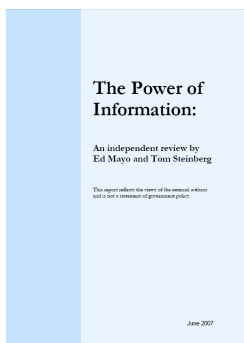# This vision and steps toward it could help address your agenda

Data Handling Review

• *Provide insight to internal risks*
• *Make resolution part of strategy rather than point solutions*

Greening Govt ICT

• *Reduction in ICT footprint*
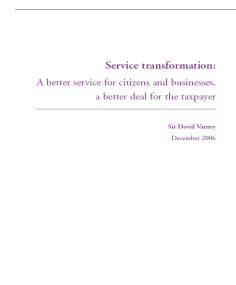• *Efficiency methods applied to entire estate*

Power Of Information

• *Gain better understanding of important data*
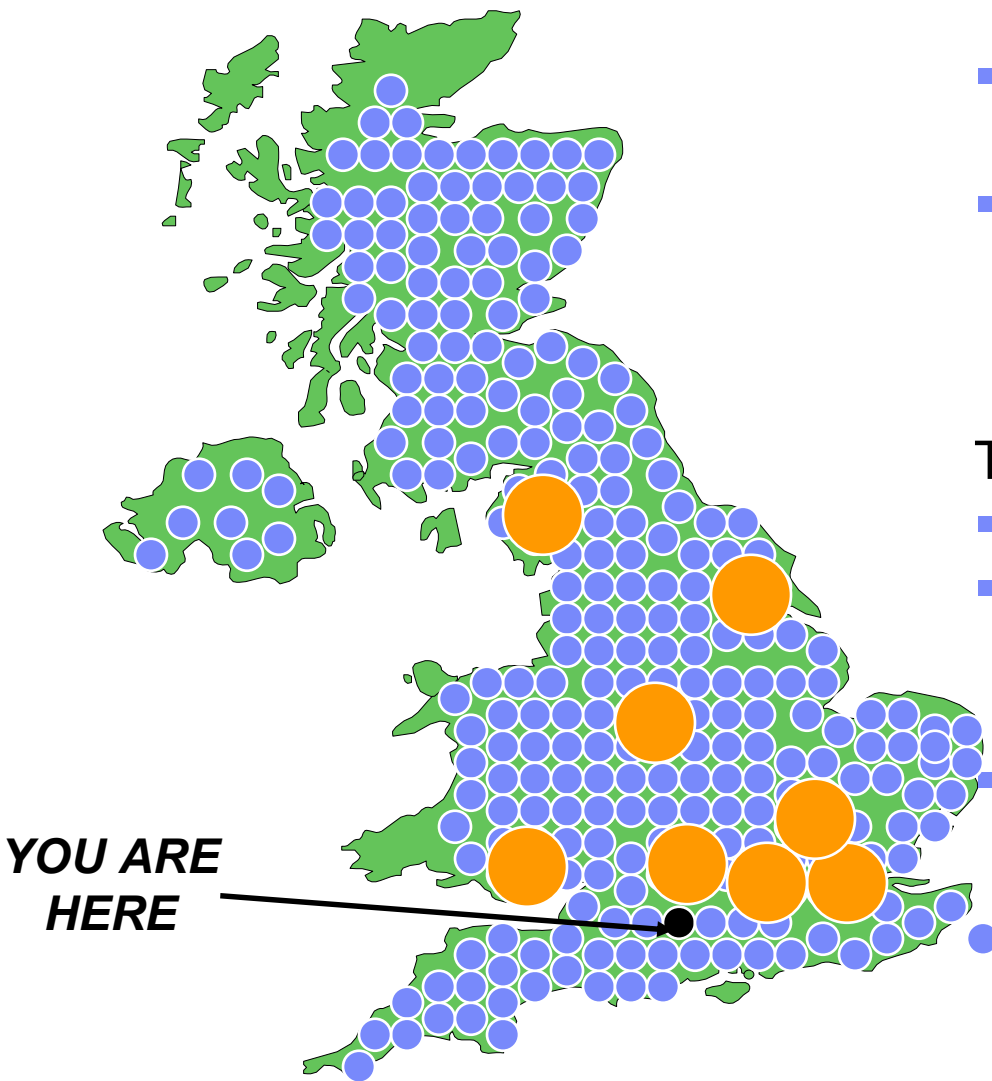• *Consolidated data sources efficiently managed*

Transformational Government

• *Identification of services to be shared*
• *Grounding in ITIL disciplines enabling service to be shared*
• *Enable focus to remain on service to the citizen and increasing that service*

Varney: Service Transformation

• *Priority stays with running service*

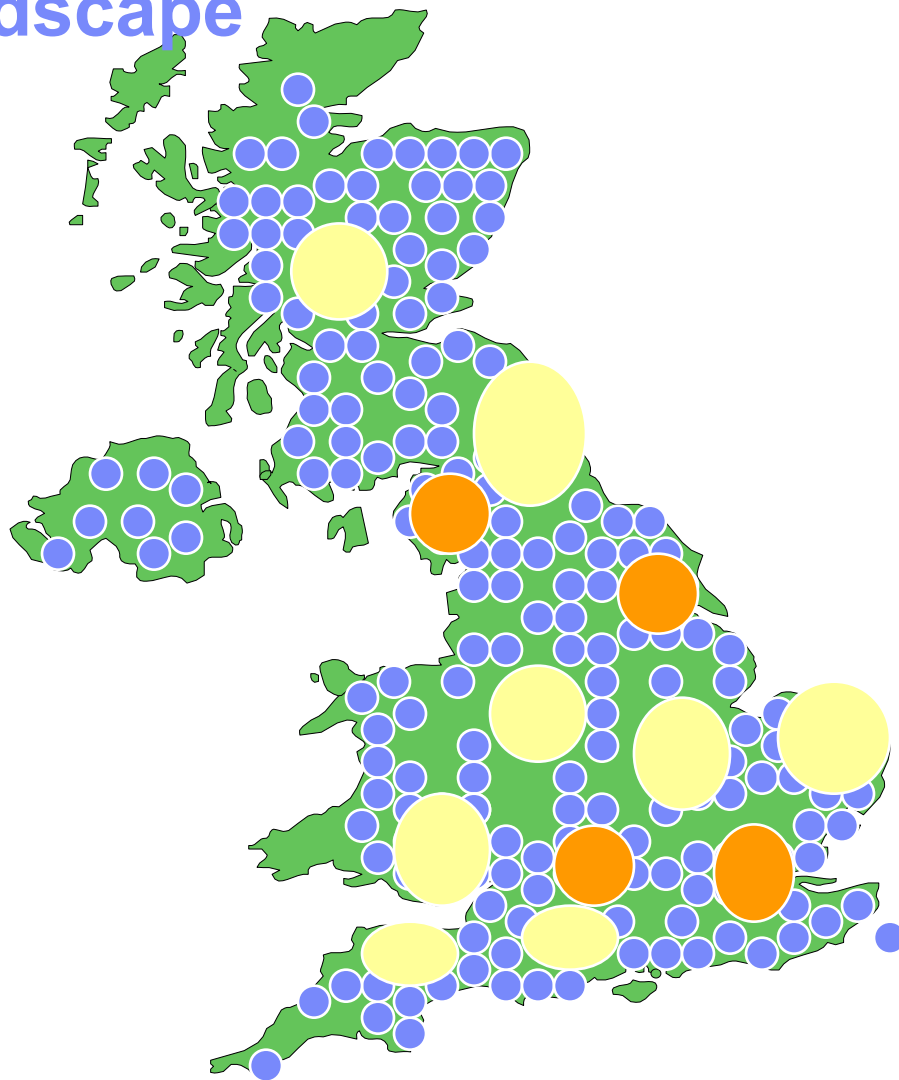# But is looking at your organisation enough?

YOU ARE HERE

- Review the Public Sector Data Centre Estate
- Through collaboration each estate can gain from the sum of the parts.
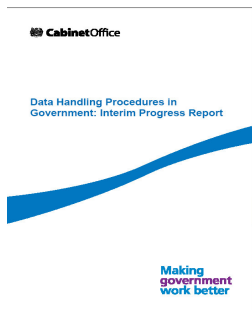
This is achieved by
- Determining areas of focus
- Being prepared to be expert in some areas and consumer in others
- Continue to follow the same principles locally but partner with local resources

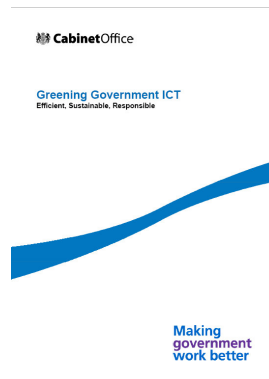# This could result in a change to the IT Landscape

- New data centres are formed (from the existing estate)
- Reducing total amount of data centres
- Areas of core service formed
- Level of service clear and understood for easy consumption
- Open Architecture & standards applied to enable sharing

This vision and steps toward it could help address the various Public Sector IT Agendas
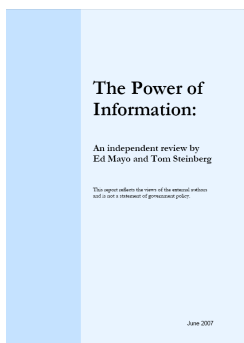
Data Handling Review

• *Complete risk understood by all and mitigation implemented end to end*

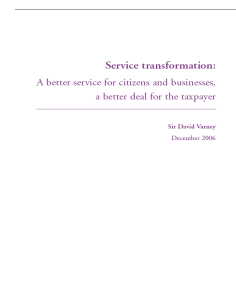### Power Of Information

• *All data part of a consistent data strategy*
• *Citizen & Business centric data made available under common standards*

Varney: Service Transformation

• *Focus for ICT moves from running ICT and providing service*

Greening Govt ICT

• *Significant reduction in ICT footprint*
• *System consumption understood and managed across entire estate*

Transformational Government

• *Environment created where consuming services is accepted and is a regular occurrence*

Dan Bailey

dan.bailey@uk.ibm.com