

NHS-HE Forum

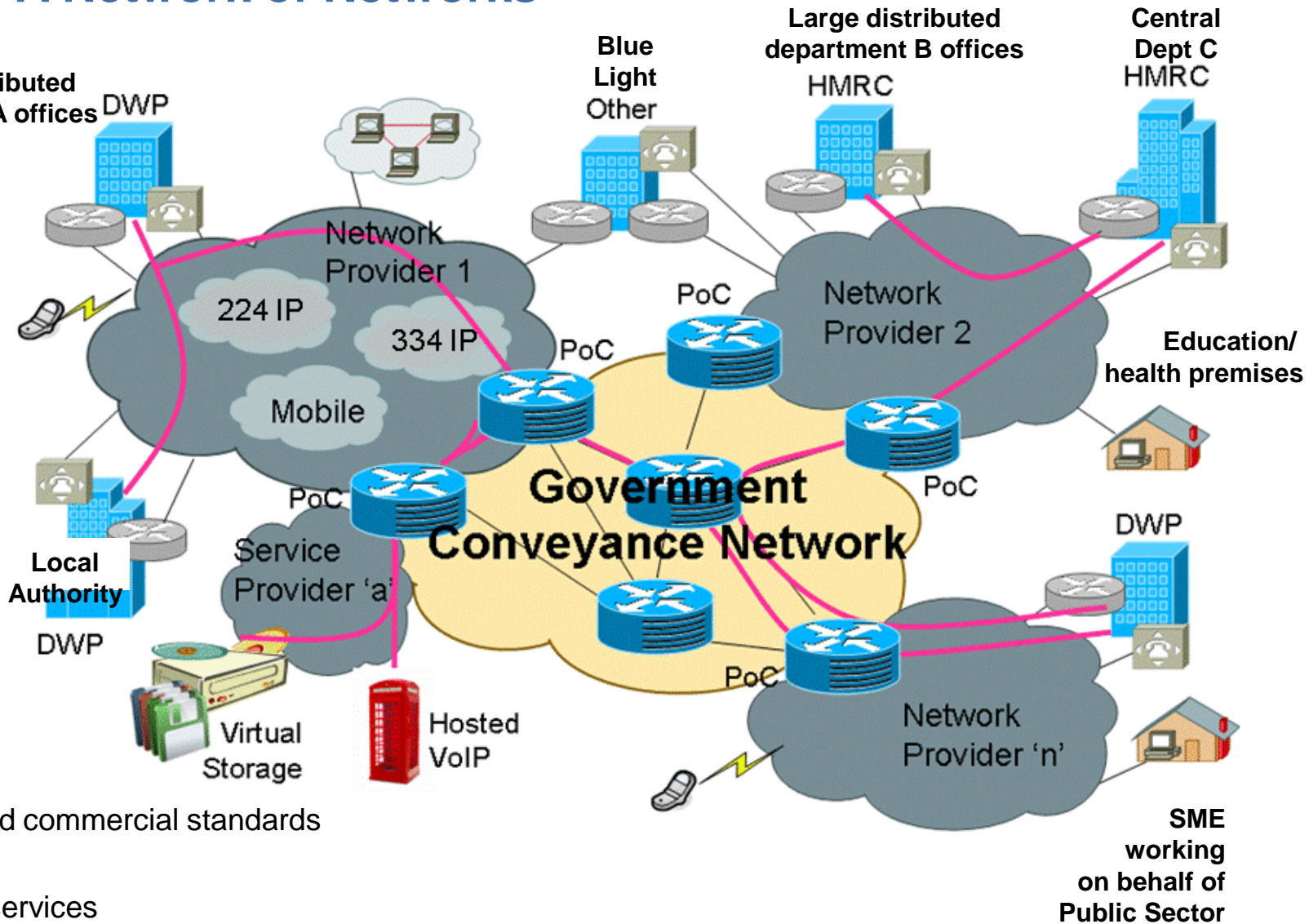
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24 November 2010

PSN – A Network of Networks

- Large distributed department A offices DWP
- A private internet for the public sector
- Security assured
- Service assured
- Open technical standards
- Co-ordinated commercial standards
- Shareable services



PSN - Key Documents

- **LG/CG Leaflet**
 - *Brief description of PSN with URLs*
- **PSN Operating Model**
 - *Provides primary description of the PSN Operating Model.*
- **PSN Transition Guide**
 - *Provides advice and guidance to Public Sector Organisations in planning their transition to PSN.*
- ***Procurement of PSN Services Guide***
 - *Guidance for organisations who wish to procure PSN Services.*
- **PSN Commercial Guidelines**
 - *Provides guidance to assist in the development of effective contracts for PSN.*
- **PSN Benefits Guide**
 - *Assists to identify likely PSN benefits when constructing a business case.*
- ***PSN Code Templates***
 - *Templates for completion by PSN Applicants who wish to become providers or consumers of PSN Services*
- **PSN Compliance**
 - *Provides overview of PSN Compliance*

What's Coming Next?

- We go back to MPRG later this year to prove that savings can be achieved.
- MTCF and GCF frameworks let – Q2 2011
- 'Early Delivery' projects underway – there are currently three phases mapped out
 1. Hampshire & Kent deliveries will create initial 'GCN' and DNSP services by end 2010.
 2. Connection to the Government Secure intranet (GSI), to allow parallel running during transition, by Q2 2011.
 3. Other Customers and supplier connections introduced from Q2 2011.
- PSNA operational, Q2 2011
- PSN Framework 1 (Networks) – delivered mid 2011 }
} Subject to policy review
- PSN Framework 2 (Other Services) – late 2011 }

PSN - Why?

Business Drivers

- Policies require integrated cross-department delivery
- Budgetary pressures
- Need for more flexible response to changing demand

Current Network Platforms

- Duplication
- Poor interoperability
- Security concerns
- Inflexible

Transformational Strategy

- Transformational Government
- OEP Targets
- Information Assurance Strategy

PSN - The Benefits

Interoperability

- Enable a versatile and flexible private network offering interoperability
- Allowing users to share information and access open standard-based services

Open Market Place

- Reduce the cost and complexity of procurement by creating an innovative open market place
- Offer competitively priced services

Seamless Connectivity

- Users linked through a 'network of networks' governed by standards
- Users will be capable of accessing a range of business and network services where and when they are needed, with security and integrity guaranteed

Cheaper

- Help make substantial savings of up to £500m a year
- Support HMG Strategic Objectives in Transformational Government, Operational Efficiency Programme (OEP), Digital Britain etc

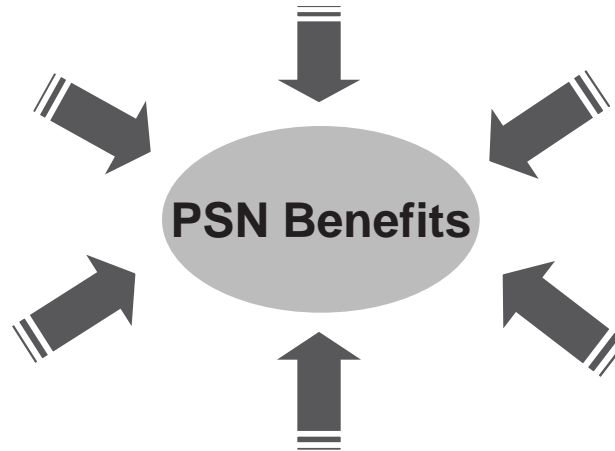
Service Assurance

- Enhance the benefits of a multi-supplier environment, by providing the assurance and reliability of a single supplier
- Create the tools necessary for end to end service assurance

PSN Benefits

Transformation

- Underpin and enable key elements of the Government ICT Strategy and transform cross-boundary working



PSN – Key Components

There are a number of key components of the PSN vision that come together to provide assurance of end-to-end service to all users

Codes of connection

Rules by which Providers and Consumers interact across service management boundaries, even where there is no direct contract

GCN

Common core interconnection network providing high levels of availability and performance that ties operators together

Service Management

Framework (standards, processes) to ensure interworking across services and end-to-end serviceability across suppliers

Security

Ensures that existing systems work together by maximising re-use of accredited systems and standards

Governance

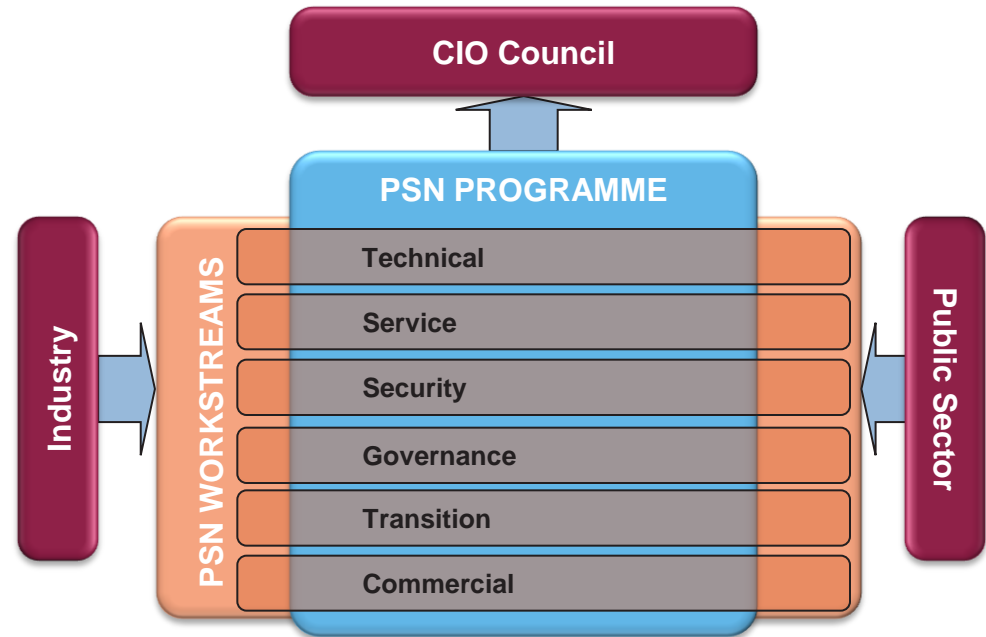
Ensures adherence to common ways of working

Marketplace

Brings competitive pressures and a relatively easy means of replacing an under-performing supplier

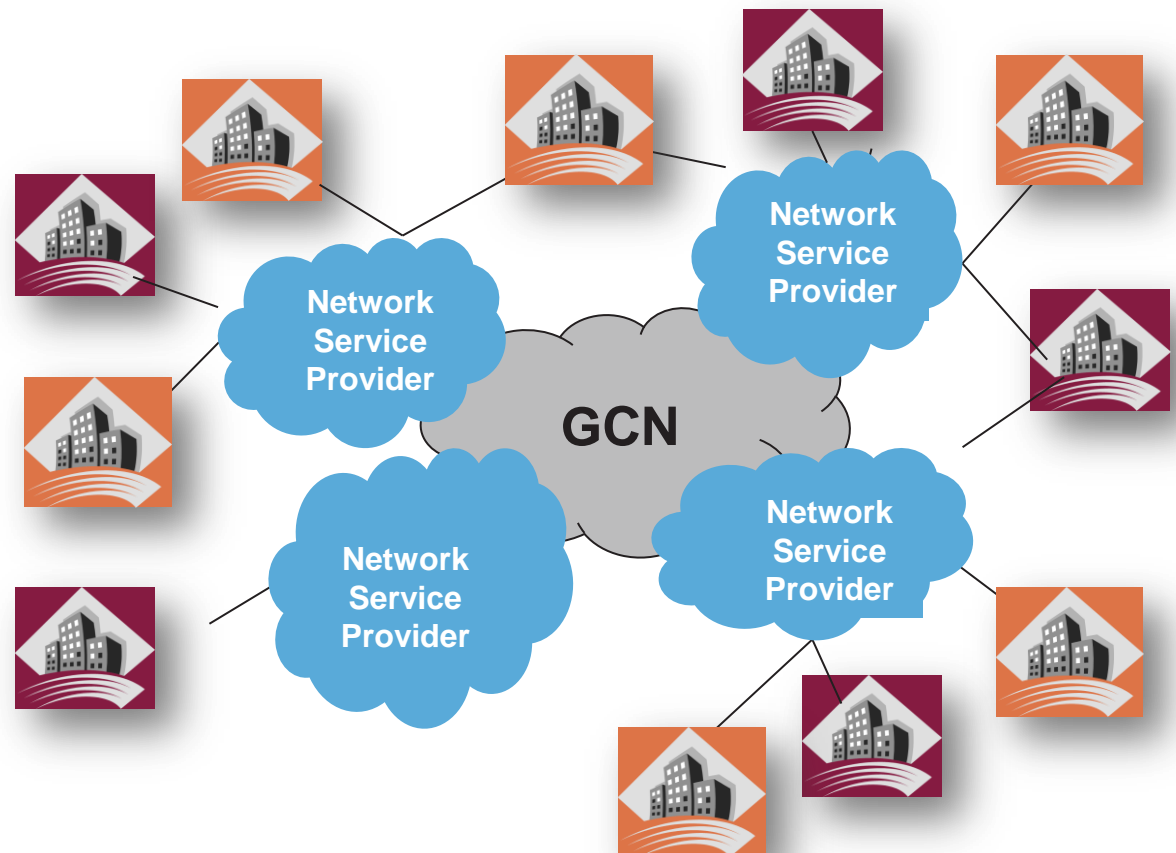
Bringing About the PSN – How the Programme is Managed

- PSN Programme is Defining Standards and Co-ordinating with Industry
- Transition to/adoption of PSN possible at any point in the network services procurement lifecycle
 - Re-procurement
 - Change control/negotiations
 - Contract extensions
- Buying Solutions procurements
 - Convergence Frameworks
 - PSN Frameworks
 - Core Services



PSN – Key Components

- **Government Conveyance Network (GCN)**
- Security Model
- Governance



GCN – Proposed vPOCs

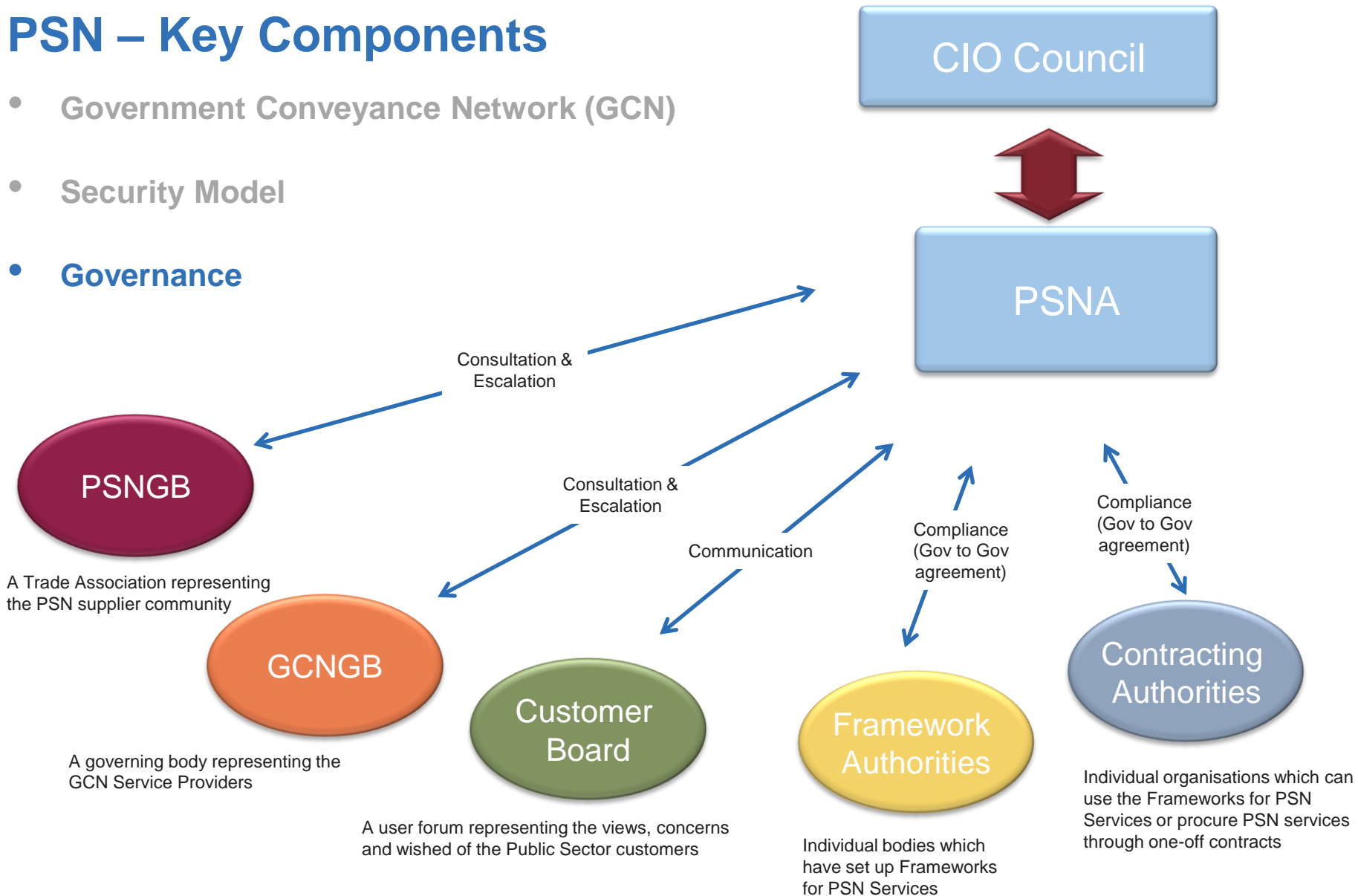
- Belfast
- Birmingham
- Bristol
- Cambridge
- “East of London”
- “South of London”
- Edinburgh
- Exeter
- Glasgow
- Leeds
- Leicester
- “West of London”
- Central London
- Manchester
- Nottingham



- Peterborough
- Reading
- Southampton
- Newcastle
- Norwich
- Sheffield
- Cardiff
- Carlisle
- Swindon
- Oxford
- Liverpool
- Milton Keynes
- Stoke-on-Trent
- Middlesbrough

PSN – Key Components

- Government Conveyance Network (GCN)
- Security Model
- **Governance**



PSN – Key Components

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PSN will adopt a new service-based Security Model from CESG, which will maximise re-use of existing accredited systems and standards

PSN Information Assurance compliance requirements are based on existing GSi family CoCo's

Federated Approach	Fit for Purpose Security	Standards Based Security
<ul style="list-style-type: none"> • Make existing systems work together • e.g. Authentication brokering 	<ul style="list-style-type: none"> • Base level 2-2-4 (PROTECT) Confidentiality, Integrity & Availability • 3-3-4 and 4-4-4 (RESTRICTED and CONFIDENTIAL) available through encryption 	<ul style="list-style-type: none"> • Based on existing government and commercial standards: • e.g. IPSEC, FIPS-140-2, CAPS and ISO27001

So why is this relevant to Health and Education?

Networks and other telecommunications are not delivered in a cost effective way

- Multiple separate networks in the same area all paid for by the public sector
- Duplication of procurement, technical and service management

We need a standard, replicable approach to shared services

- Removal of multiple gateways
- Getting ride of the large number of bespoke solutions

Security is an issue

- Health Service security model is different to PSN
- Education networks are un-assurable so don't fit the PSN model

So what is happening to address this

- JANET is working closely with the PSN team to provide PSN capability
- Discussions are underway with Health
- Partnerships are pushing joint working

PSN – Local and Regional Government is Leading the Way



London PSN

Dorset PSN



....and many more

Contact us at:

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Visit us at:

www.cabinetoffice.gov.uk/government-business/public-sector-network.aspx

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