Dutch Government Metadata
(OWMS)
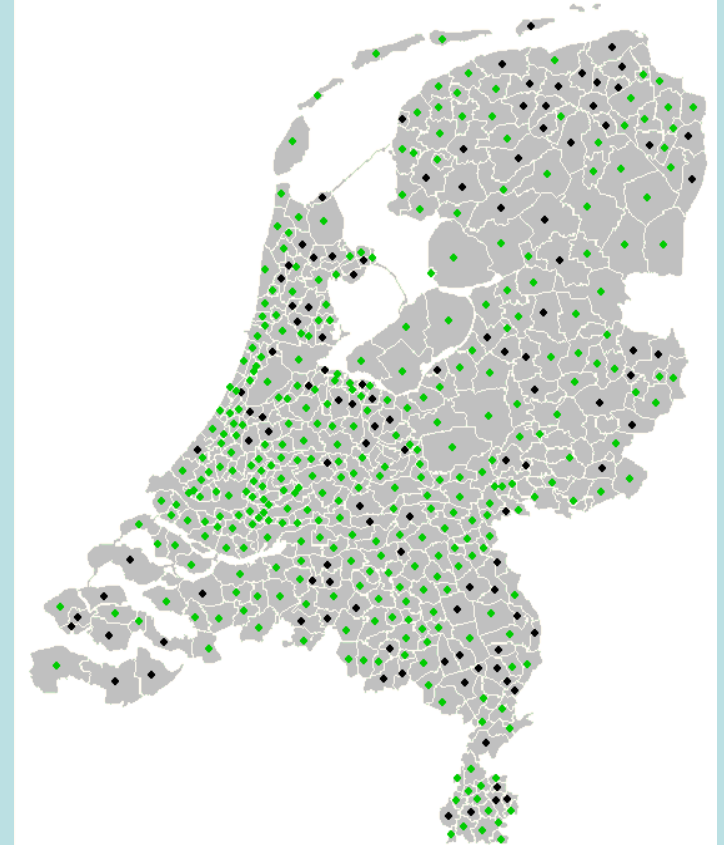
Hans Overbeek
Berlin, September 23 2008
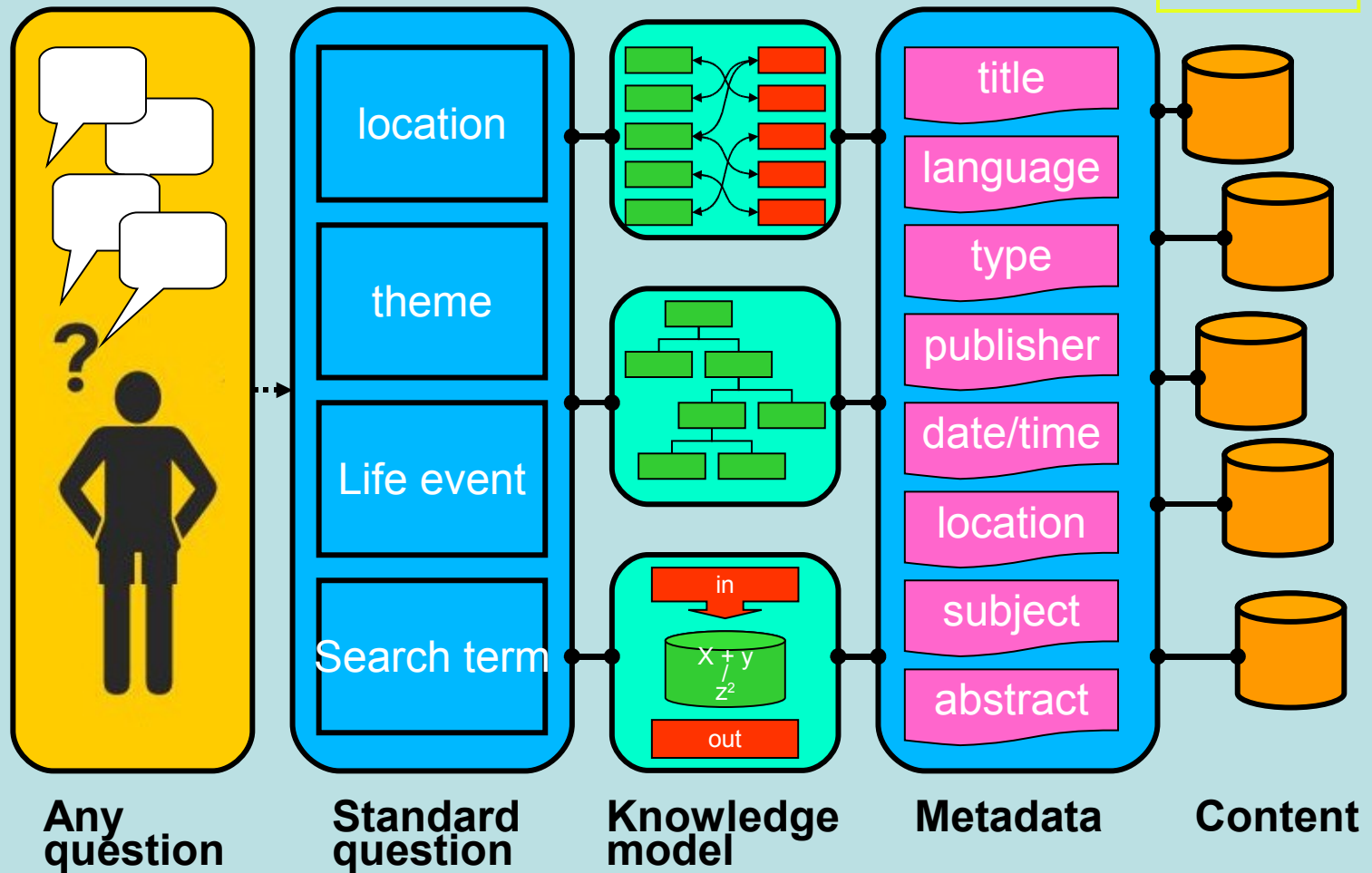
Improving communication quality

- Central search service

- Metadata standard

- Ontology standards

- Structured content

Ontology objectives

Any question → Standard question → Knowledge model → Metadata → Content

Any question

Standard question

Knowledge model

Metadata

Content

Metadata: Dutch Government Core

- dcterms:identifier
- dcterms:title
- dcterms:type
- dcterms:language
- dcterms:creator
- dcterms:modified
- dcterms:temporal
- dcterms:spatial

Simple content metadata

- XML (with XLS/Schematron and RelaxNG)

`<dcterms:creator scheme="overheid:Gemeente"> Amsterdam</dcterms:creator>`

government:Municipality

- XHtml

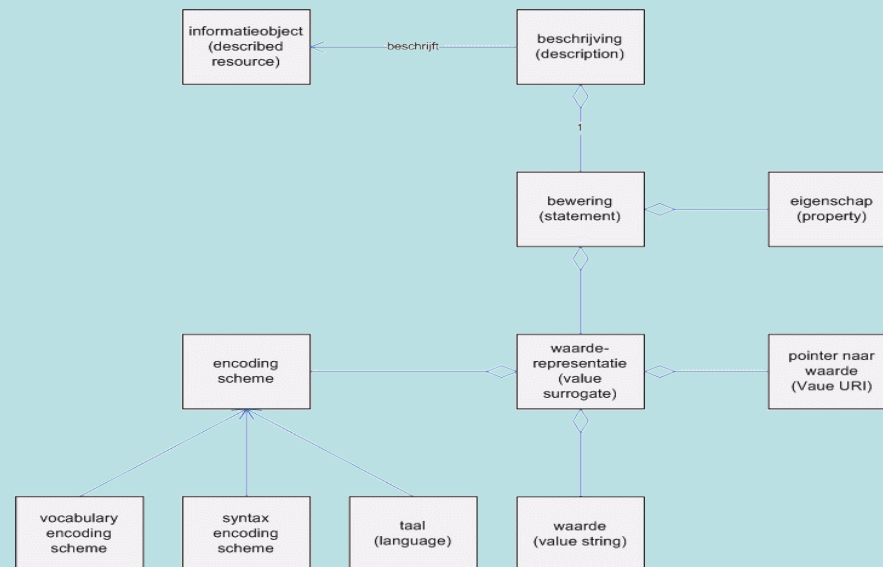`<meta name="DCTERMS.creator" scheme="OVERHEID.Gemeente" content="Amsterdam" />`

- Per collection
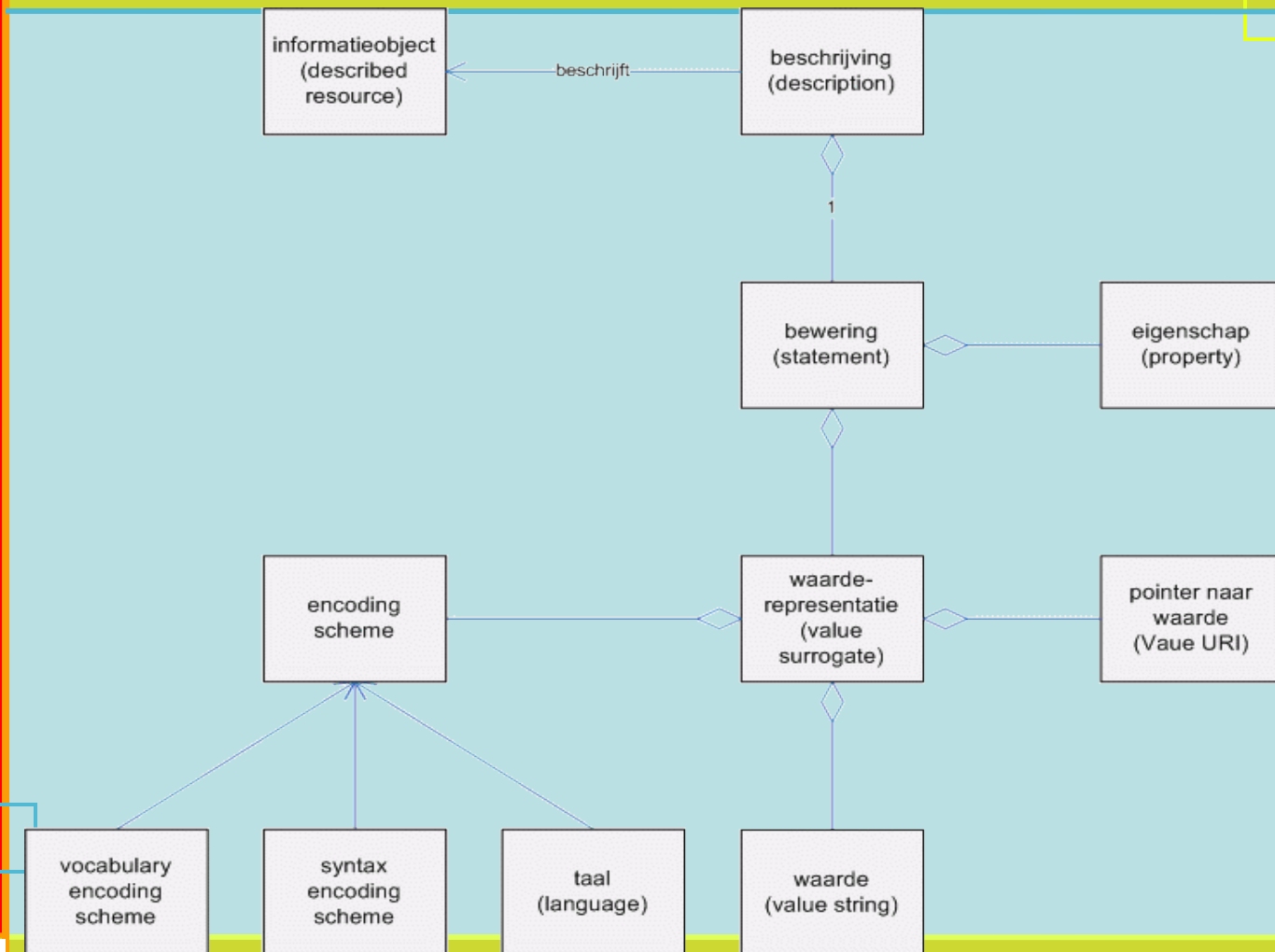 - legislation
  - permits
  - et cetera

Metadata standard

- Dublin Core abstract model
- OWMS simple application model
- Collection application profile

Dutch abstract model

Ontology standards

- Work in progress

- R&D issues:
  - Knowledge models
  - published subject indicators
    - For entities
      – What level of granularity?
    - For less concrete things
      – Life events, search terms

- Management issues:
  - many organisations and collections
  - time and space

Thank you

Hans Overbeek
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Melle Stegeman
melle.stegeman@ictu.com

Dublin Core Government Session agenda

Berlin 2008

23 September 15:45 - 17:15

DC Government - Berlin 2008

- ➢ Welcome to the session
- ➢ Brief introduction to the Task force and to the Community. *By John Roberts*
- ➢ The Dutch Dublin Core based metadatastandard. *By Hans Overbeek*
- ➢ UK transformational government. *By Michael Warner*

DC Government - Berlin 2008

➢ Dublin core Government Application Profile – the progress. *By Hans Overbeek*

➢ The Government Community – the need of it and how it should work in the future. *By John, Hans and Palle*

➢ Any other item

CTO Council

UK Metadata Activities: Delivering the Transformational Government Agenda: update for the Dublin Core Government Working Group
23 September 2008

Presentation Outline

- Transformational Government Agenda

- Public Sector Information Domain

- Data Standards Working Group

- Metadata and Vocabulary Working Group

- Future Developments

Transformational Government Agenda
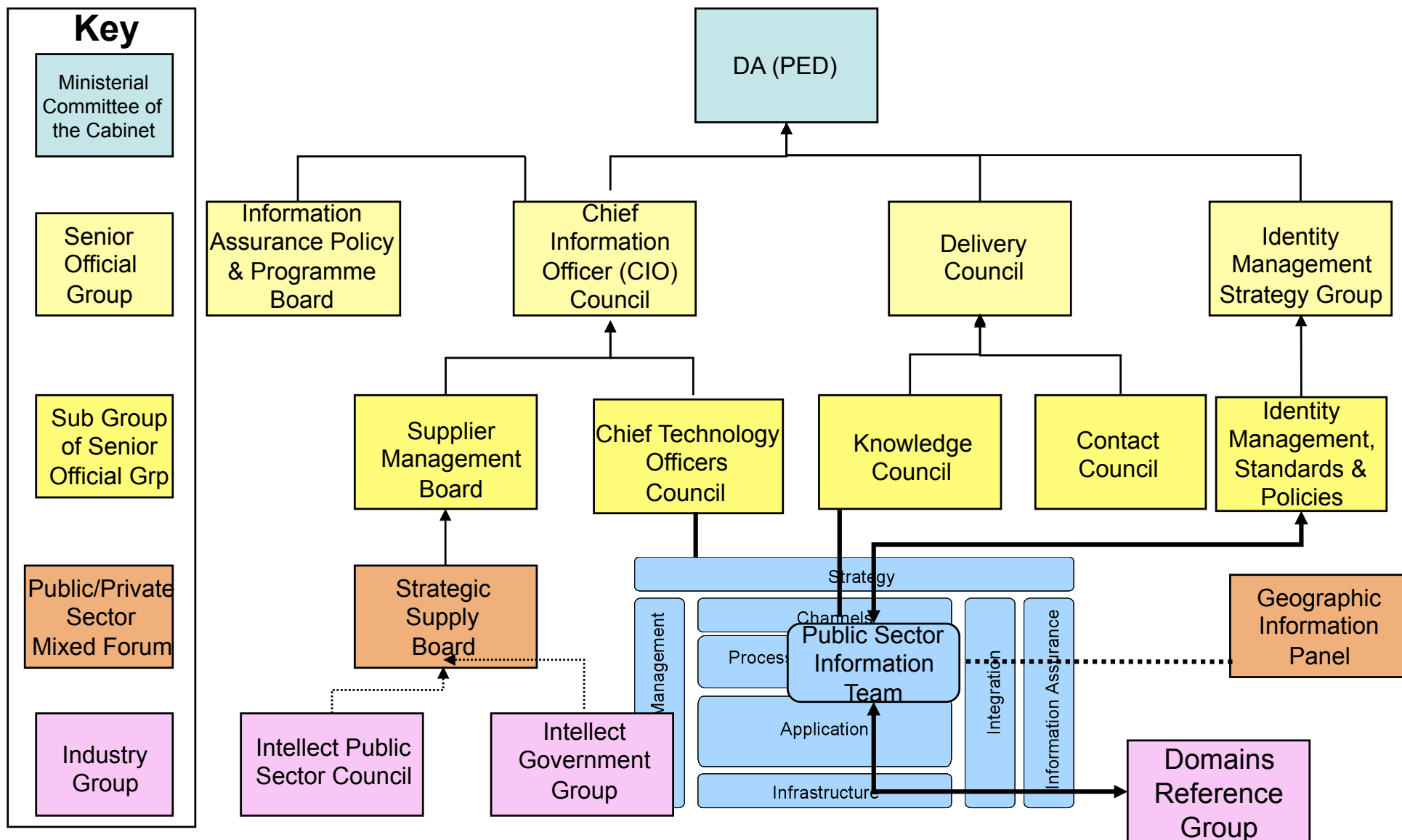
What is it?

- Services designed around the citizen or business

- Shared service culture

- Better Government planning, delivery, management skills and governance of IT enabled change

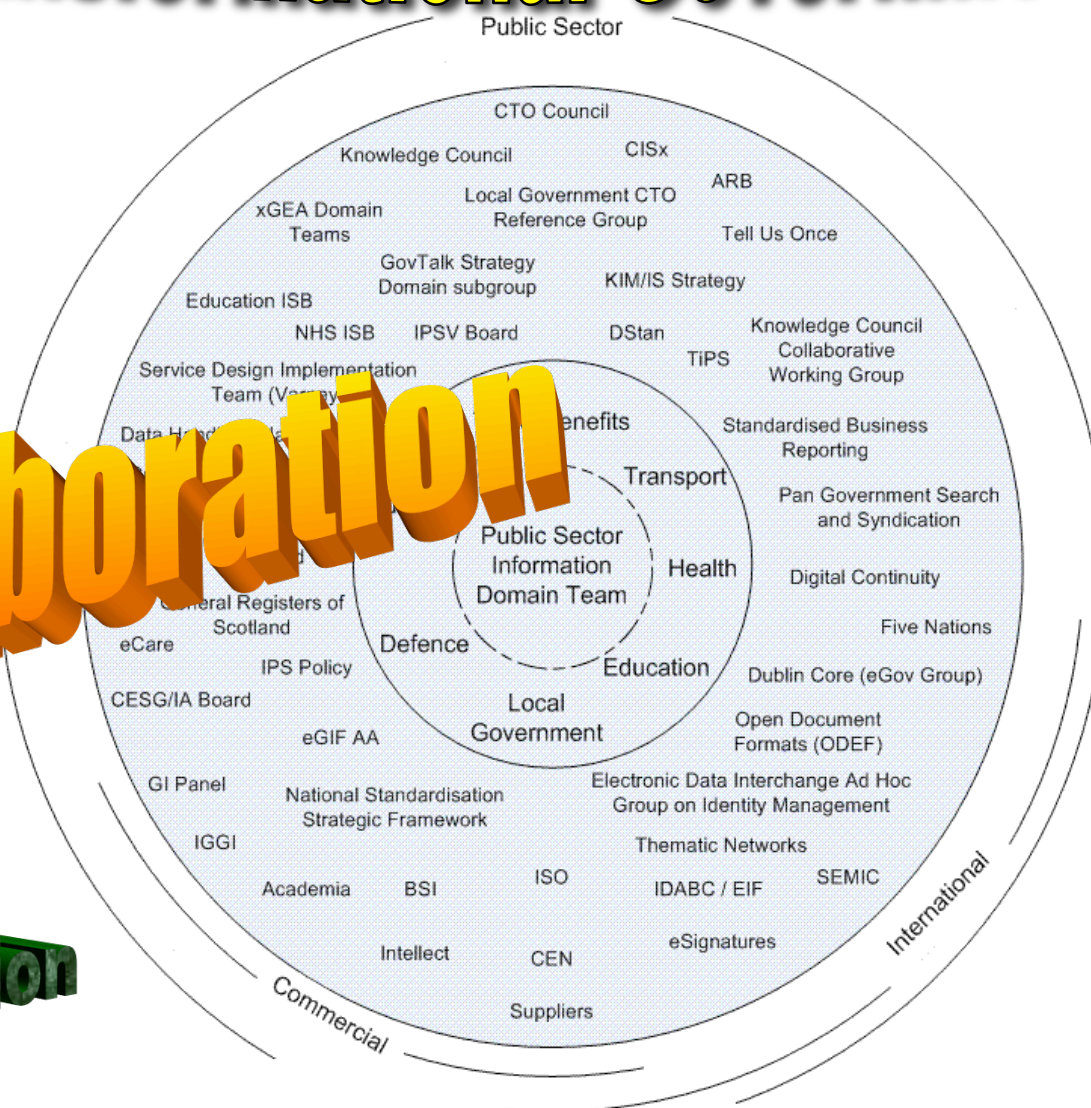## PUBLIC SERVICES FOR THE 21ST CENTURY

The Governance ....

CTO Council

Key

- Ministerial Committee of the Cabinet
- Senior Official Group
- Sub Group of Senior Official Grp
- Public/Private Sector Mixed Forum
- Industry Group

DA (PED)

Information Assurance Policy & Programme Board

Chief Information Officer (CIO) Council

Delivery Council

Identity Management Strategy Group

Supplier Management Board

Chief Technology Officers Council

Knowledge Council

Contact Council

Identity Management, Standards & Policies

Strategic Supply Board

Strategy

Channels

Process

Management

Application

Integration

Information Assurance

Infrastructure

Public Sector Information Team

Geographic Information Panel

Intellect Public Sector Council

Intellect Government Group

Domains Reference Group

Some context …

Transformational Government

Collaboration

Power of Information

PSInfT connects to: Local Government, Health, Justice, Transport, Education, etc...

Public Sector

CTO Council
Knowledge Council
CISx
ARB
xGEA Domain Teams
Local Government CTO Reference Group
Tell Us Once
GovTalk Strategy Domain subgroup
KIM/IS Strategy
Education ISB
NHS ISB
IPSV Board
DStan
TiPS
Knowledge Council Collaborative Working Group
Service Design Implementation Team (Vernay)
Benefits
Standardised Business Reporting
Data Handling
Transport
Pan Government Search and Syndication
General Registers of Scotland
Public Sector Information Domain Team
Health
Digital Continuity
eCare
Defence
Education
Five Nations
IPS Policy
Local Government
Dublin Core (eGov Group)
CESG/IA Board
Open Document Formats (ODEF)
eGIF AA
Electronic Data Interchange Ad Hoc Group on Identity Management
GI Panel
National Standardisation Strategic Framework
Thematic Networks
IGGI
Academia
BSI
ISO
IDABC / EIF
SEMIC
Intellect
CEN
eSignatures
International
Commercial
Suppliers

Chief Technology Council Domains

Domain	Domain	Domain
Strategy	Process	Service Management
Common Application	**Information**	Information Assurance
Infrastructure	Integration	Channel

Into the Information Domain ....

Strategy
Channels
Services Management | Process | Information | Integration | Information Assurance
Application
Infrastructure

Information

Who are we?

Department for Work and Pensions (Lead)
Cabinet Office
Ministry of Defence
Met Office
Scottish Government
Department of Health
National Health Service
Home Office
Identity & Passport Service
Department for Children Schools and Families
Criminal Justice IT
Office of Criminal Justice Reform

Central Office for Information
Department for Business, Enterprise and Regulatory Reform
Foreign and Commonwealth Office
Local Authorities
Ministry of Justice
Office for National Statistics
Department for Transport
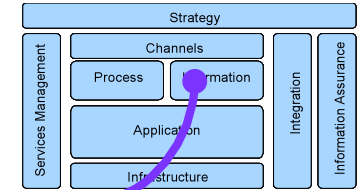The National Archives
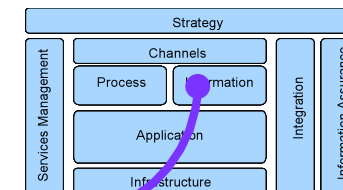Her Majesty's Revenue and Customs
The Pensions Service
NPIA

What do we do... an overview

Information

Here & Now

Future

Exemplars

- e-Rooms
- RIM
- Paper Archiving
- Address Cleansing
- Correspond Handling

PS Information Management Strategy

Centre of Excellence

- GIS
- EDRM

PS Information Architecture

GCIM

Now   **Future**

Champion Support

- ORGs
- CISx

e-GIF

Data Standards

Metadata & Vocabulary

Roadmap

Impacts Future

Current Information Management

Strategy

Channels

Process | Information

Application

Infrastructure

Services Management | Integration | Information Assurance

Data Standards WG

Method of Approach?

•Use exemplars & champions as context & focus;

•Refresh & Revitalise Government Data Standards (GDS)

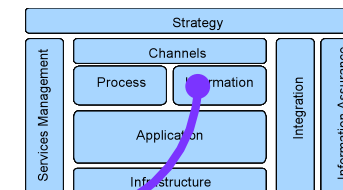•Initial focus- PERSON then LOCATION

•Agree list of Person attributes;
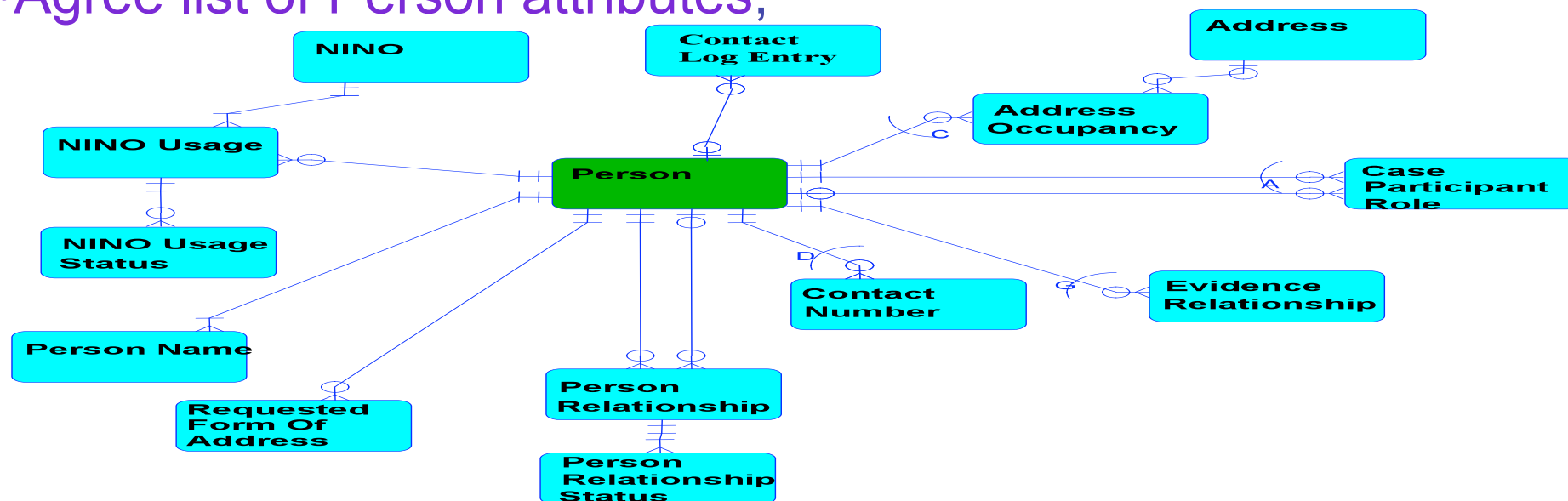
•Map CIS& GDS - recommendations for alignment;

•Picking up GDS Issues/changes;

•Sub group members to lead activity on logical groups of issues;

•Publication/ Communication of standards(e-Gif).

Metadata & Vocabulary WG

What's that about?

'Kew Consensus' need to promote metadata – make it sexy!

Metadata consist of information that characterizes data. In essence, metadata answers **who**, **what**, **when**, **where**, **why**, and **how** about every facet of the data.

Data Exploitation

Improved Accessibility

Search Engine Configuration

Improved Management & Governance

Enables Service Oriented Architectures

Semantic Web

Enabling Joined Up Processes

Customising Information

At the moment there is a void around metadata in HMG with demise of IWG and e-GIF becoming dated …….

…….. Aiming to fill that void as part of xGEA

Recommendations
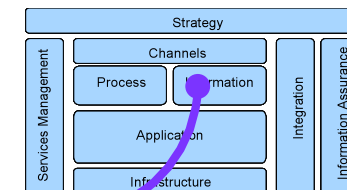
In the short-medium term (0 to twelve months) MVWG recommends:

• Reviewing and challenging our current catalogue of metadata standards and controlled vocabularies making the case for investment where needed.

• Publishing a catalogue of metadata standards and controlled vocabularies with helpful information describing usage, support and governance.

• Creating and implementing a communications strategy to engage and inform stakeholders.

• Researching what can be learnt from Academia and other countries.

• Creating guidance for standards i.e. where controlled vocabularies published they should be in machine readable form with version control.

• Creating a Semantic Interoperability Community of Practice bringing together departments working in this area: Ontology and RDF.

Growing Expectations

Citizen expectations of services have greatly increased over recent years.

" *Prime Minister Gordon Brown says the growing use of Information Technology is an important factor in people's rising aspirations and has led to UK citizens demanding more in terms of public services.*"

Computer Weekly 23rd Jan 2008

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We have used Customer Journeys to show how the right use of metadata is key to enabling our public services to meet these expectations.

Customer Journeys

Elderly Mother

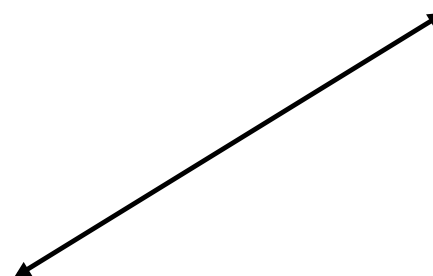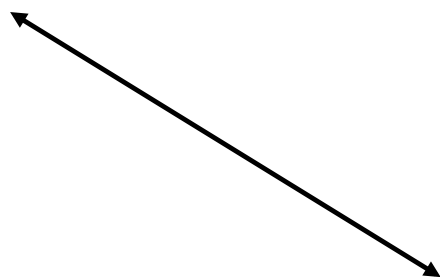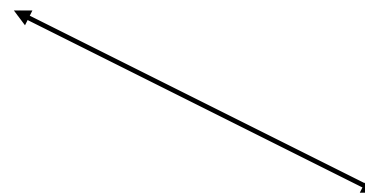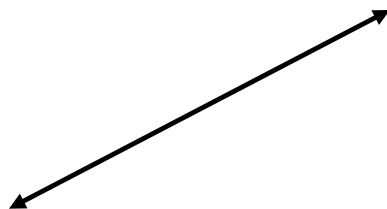**Free School Meals**

It's Flooding !

Information/records management

Elderly Mother

What this journey tells us:

• Citizens face a danger of being swamped by volume of information and not finding what they want.

• There are useful services available that aren't provided by Government.

• Likely to get different answers to their needs, depending on who they contact & which channel they choose.

• Information showing subject is not enough, the citizen needs to understand its purpose i.e. advice, legislation, service

• We need to make use of the standards developed for the channels, in this case the web

Free School Meals

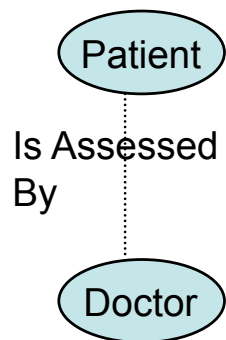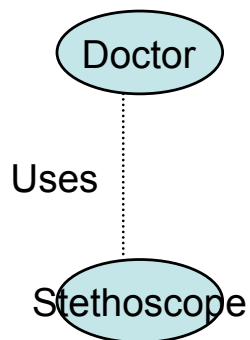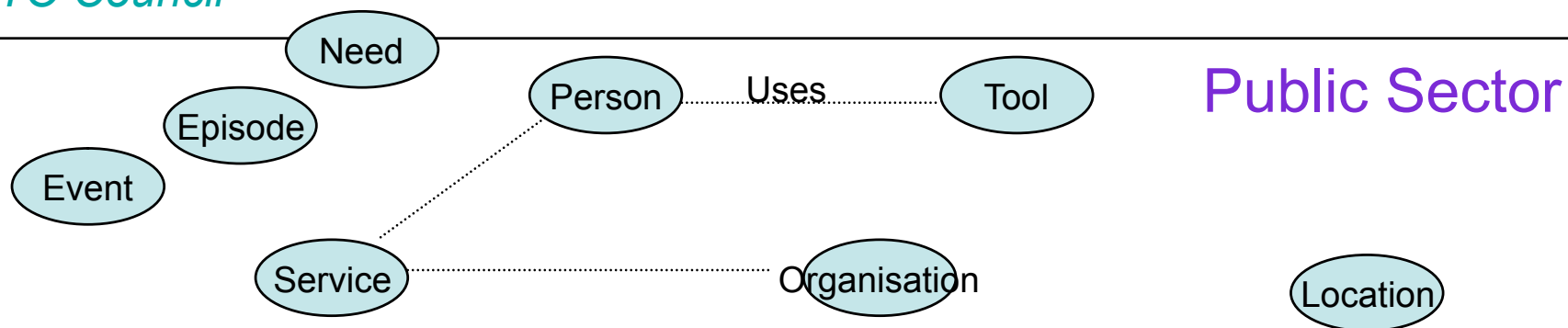## What this journey tells us:

- A simple request from the customer's perspective involves a complex amount of information crossing boundaries

- Citizens have to give the same information to Government a number of times

- Lack of standardised information and access to it via interfaces that can securely carry and process that data causes delays and inefficiencies

- We don't currently have the right metadata and standards to be able to provide the optimal customer journey for free school meals

- Data quality descriptions are needed to make encoded decisions about the validity of information

A Multi-Layered Ontology

CTO Council

Public Sector

Need

Episode

Event

Person .... Uses .... Tool

Service .... Organisation

Location

Health

Doctor

Uses

Stethoscope

Patient

Is Assessed By

Doctor

Families

Child

Attends

School

Transport

Child

Travels to ..... using

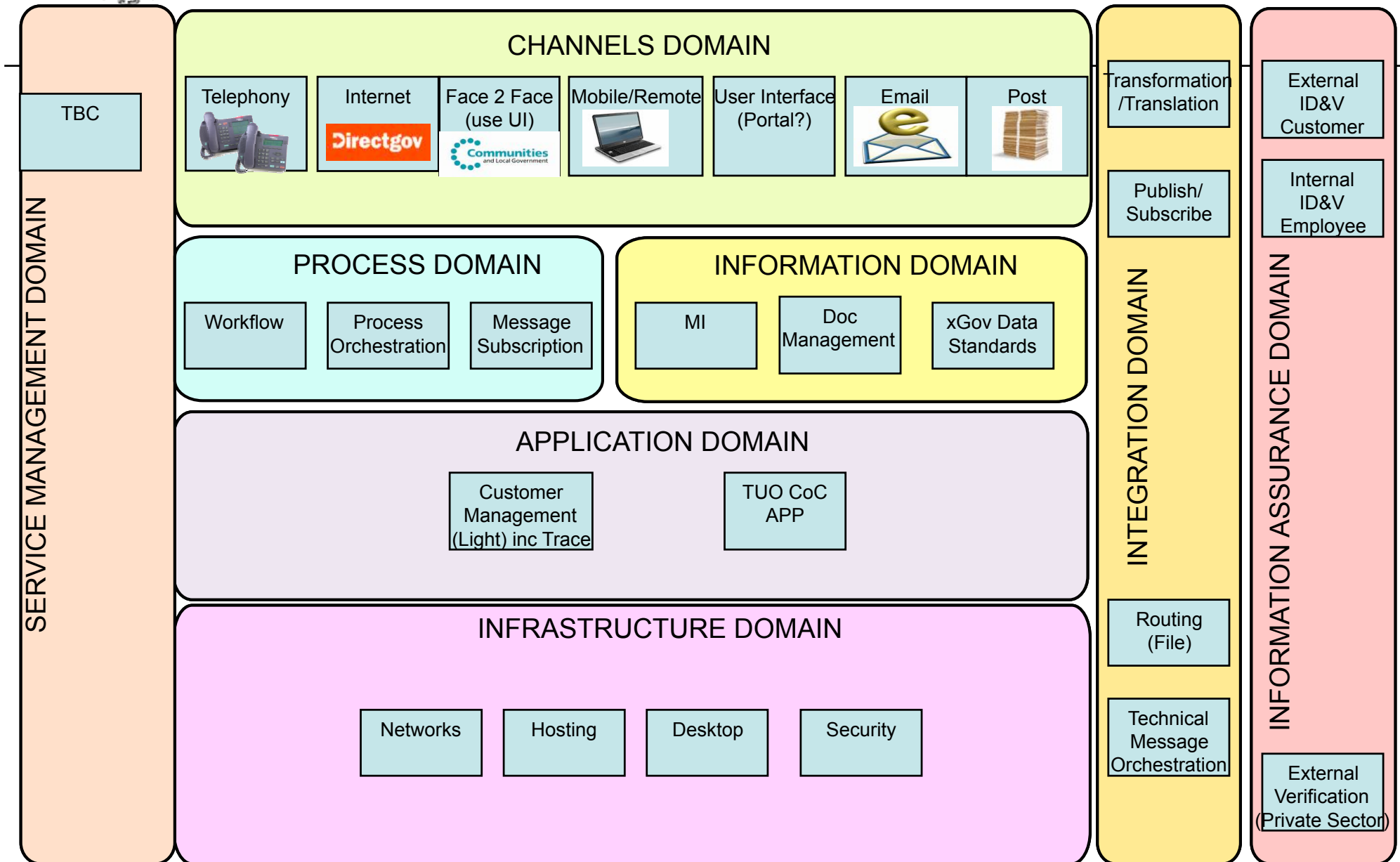School

Bus
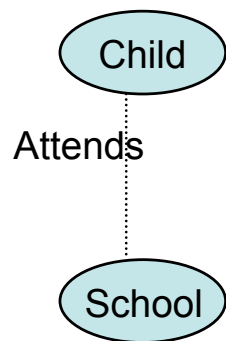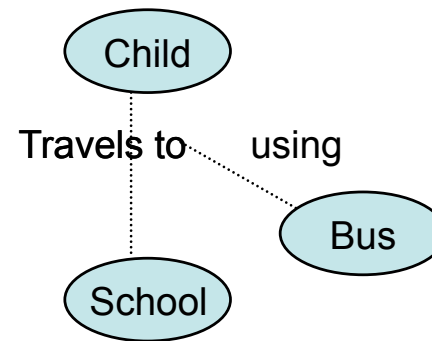
Future Developments

In the medium - longer term (1-3 years) the M&VWG recommends that:

1) We will have a full set of cross Government metadata standards and controlled vocabularies that are developed, supported, used, monitored and evaluated to show benefits realisation.

2) The skills needed for creating metadata and using standards will be combined in the IT & Info Management skills frameworks.

3) All standards in use across Government will be have an appropriate level of support and clear ownership.

4) The UK government will be influential in all areas of International Standard development relevant to conducting Government business and delivering services to the citizen.

5) Transit formats and mechanisms for sharing information and metadata should be piloted and proven to determine the easiest ways for interoperability to be achieved across boundaries.

6) We will harness technology to automatically capture metadata and work with suppliers to the benefit of the public sector

High level Tell Us Once Strategic Architecture Model

SERVICE MANAGEMENT DOMAIN

TBC

CHANNELS DOMAIN

Telephony	Internet	Face 2 Face (use UI)	Mobile/Remote	User Interface (Portal?)	Email	Post

PROCESS DOMAIN

Workflow	Process Orchestration	Message Subscription

INFORMATION DOMAIN

MI	Doc Management	xGov Data Standards

APPLICATION DOMAIN

Customer Management (Light) inc Trace

TUO CoC APP

INFRASTRUCTURE DOMAIN

Networks	Hosting	Desktop	Security

INTEGRATION DOMAIN

Transformation /Translation

Publish/ Subscribe

Routing (File)

Technical Message Orchestration

INFORMATION ASSURANCE DOMAIN

External ID&V Customer

Internal ID&V Employee

External Verification (Private Sector)

CTO Council

Thank You

Presentation given by Michael Warner on behalf of the Public Sector Information Domain Team

Michael Warner Metadata Policy and Taxonomy Adviser, UK Ministry of Defence

Michael.Warner503@mod.uk