

A Scenario for Business Benefit from Public Data

Arnold van Overeem Lisbon, 4 December 2014





Introductions and overview

The Open Group: Leading the development of open, vendor-neutral IT standards and certifications

The Open Group is a global consortium that enables the achievement of business objectives through IT standards. With more than 400 member organizations, we have a diverse membership that spans all sectors of the IT community — customers, systems and solutions suppliers, tool vendors, integrators and consultants, as well as academics and researchers to:

- Capture, understand and address current and emerging requirements, and establish policies and share best practices
- Facilitate interoperability, develop consensus, and evolve and integrate specifications and open source technologies
- Offer a comprehensive set of services to enhance the operational efficiency of consortia
 Operate the industry's premier certification service and the service service

www.opengroup.org

The Open Group Vision

Boundaryless Information Flow ** achieved through global interoperability in a secure, reliable and timely manner

The Open Group Mission Statement

The mission of The Open Group is to drive the creation of Boundaryless Information Flow™ achieved by:

- Working with customers to capture, understand and address current and emerging requirements, establish policies, and share best practices
- Working with suppliers, consortia and standards bodies to develop consensus and facilitate interoperability, to evolve and integrate specifications and open source technologies
- Offering a comprehensive set of services to enhance the operational efficiency of consortia
- Developing and operating the industry's premier certification service and encouraging procurement of certified products



Who am I?

- Certified Architect with 40 yrs of experience in 20 (mostly EU) countries
- Involved in The Open Group in several workgroups and forums
- Involved in some EU programs (IDA2, IDABC, SemanticGov, STORK eID, SSEDIC)

Archimate® Forum

Architecture Forum

Enterprise Management Forum

IT4IT[™] Forum

Open Platform 3.0 [™]

Real-time & Embedded Systems Forum

Security Forum

Trusted Technology Forum (OTTF)

Today's presentation

☑ Introduction and overview□ Approach

□The Open Group's position towards public standards

□The need for public data

□Business analysis and Stakeholders

□Technical analysis and human behaviour

□The UDEFTM standard

□Future directions



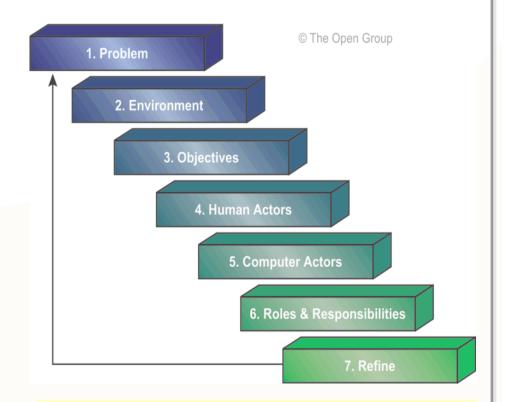
Business Scenario ...

... is a technique developed by The Open Group that has been used for the current issue

Complete description of a business problem, both in business and in architectural terms

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- A business process, application, or set of applications that can be enabled by an architecture
- The business and technology environment
- The people and computing components (called "actors") who execute the scenario
- The desired outcome of proper execution
- Enables individual requirements to be viewed in relation to one another in the context of the overall problem.



The business scenario is part of TOGAF® and provides a different approach to public data compared to various contributions of a number of respected bodies, including OECD, World Bank, ...

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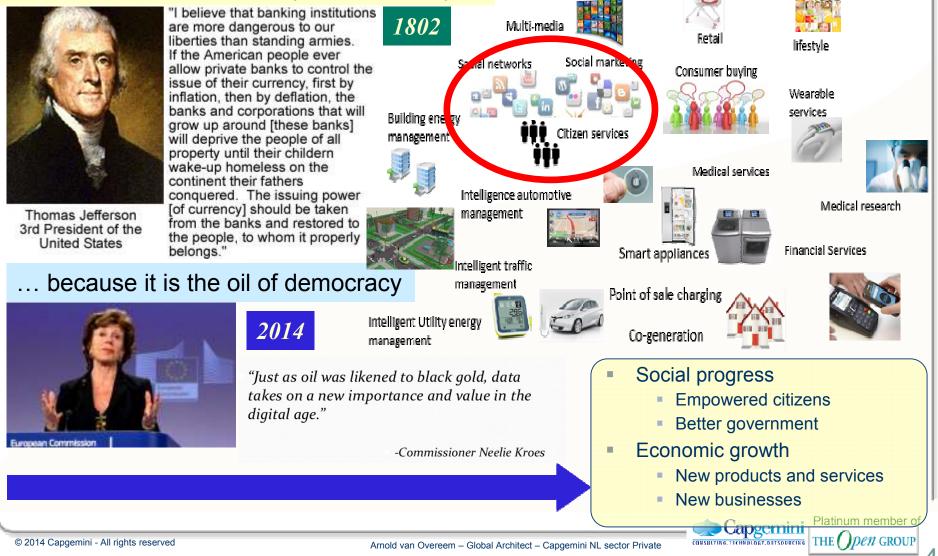
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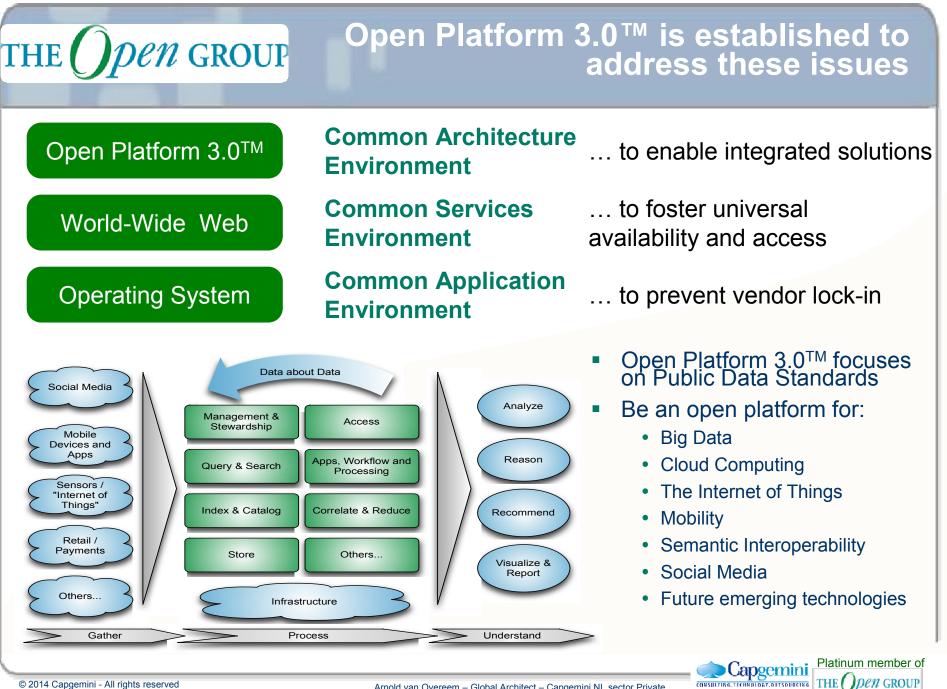
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The need for public data is evident ...

... because it is the currency of democracy

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Problems for Open Public-Sector Data

Cost of Acquisition and Processing	 Forms, administrative transactions Increasingly online through the web
Quality of Data	 Duplication, completeness, accuracy, veracity, manual errors
Quantity of Data	• SMAC: social media, mobility, big data analysis and cloud computing
Ability to Find Data	 Lack of coordination across independent public agencies
Lack of Confidence in Data Providers	 No published / uniform levels of reliability (availability, acuality, security, commercial conditions)
Ability of Computers to Process Data	 Technical, semantic and procedural interoperability conflicts No uniform regulations for legal interoperability
Existing Administration Practices and Systems	 Reluctance of administrations to change existing processes in order to improve external usability of existing data
Citizens' Attitudes	• Unawareness about certain types of information and its availability
Defining Commercial Products and Services	 Difficulty to define information products and proper business cases for its publication
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Business Environment and THE () *Den* Group Stakeholder analysis Public Sector Bodies Commercial Public □ No uniform compentency boundary across EU Product and Sector **Public Sector** Service **Bodies** Information Different demarcation Providers ALLON ALCONT AUDION between public and private .000011610111101010111000101016.... sector 108001010010101111100101.00010101010 0101010006400010001010100000111110001 □ Citizens UL1000011000100007091000001000001/111* 1001010010101010010101010101 Exercising democratic rights Taxes and tax declarations Political Interest Public Services Groups Social Enterprises □ Commercial product and Citizens service providers **Different business models**

Typical stakeholder concerns

- Compulsory use of public registers
- Government imposed deadlines
- Transparancy of administrative decision making
- Protection of privacy

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Size of audience

Social enterprises

diversity

Growing in number and

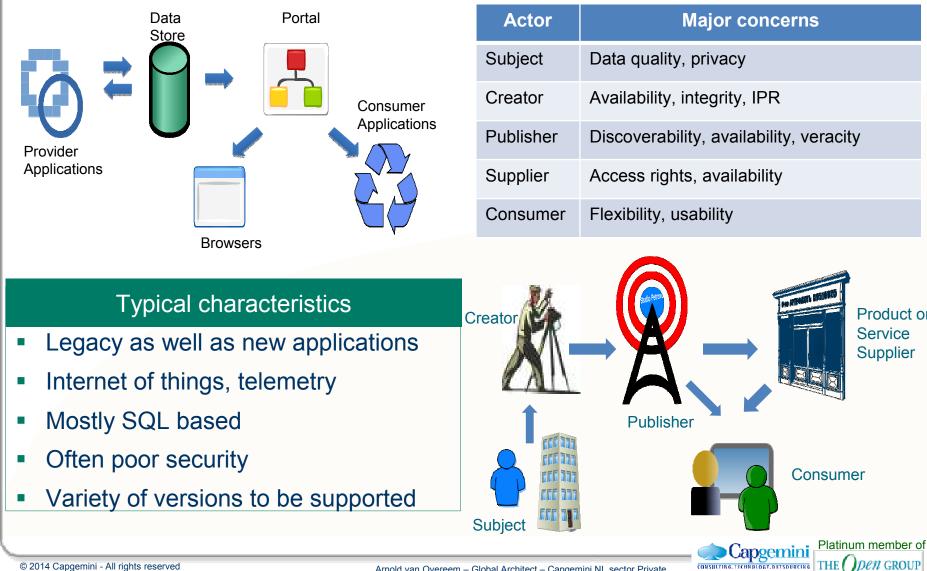
Informed opinion making

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CONSULTING. TECHNOLOGY, OUTSDURCING

□ Political interest groups

Technical environment and peoples roles and responsibiliteis



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Product or

Service

Supplier

Public standards must enhance support of the following requirements

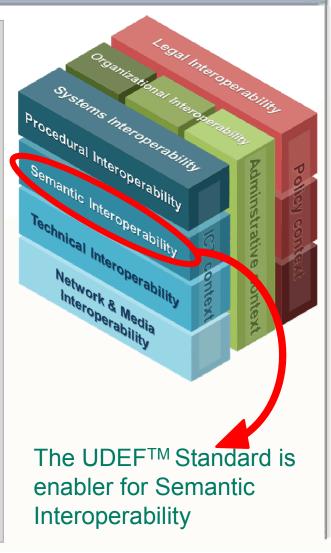
 Human readability and machine processing

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- Ease of publication
- Interaction with subjects and subject owners
- Rights and concerns of stakeholders
- Optimization for search engines
- Publication with common metadata
- Catalogs and indexes

Aims for an Open Group Standard in the domain of interoperability:

- Support for multiple EU languages
- Universal semantic interoperability
- Technology and vendor neutral
- Useful for both public and private domain
- Easy to use for professional and easy to use for occasional enduser
- Extensible
- Leveraging existing taxonomies and ontologies
- License free

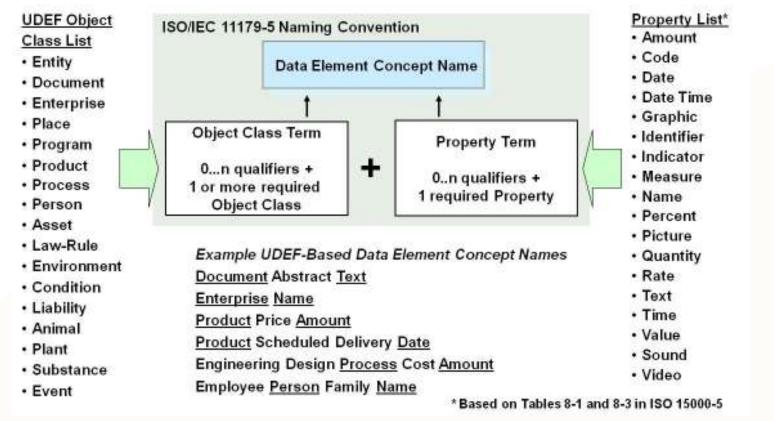




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The Open Group UDEF[™] standard (Universal Data Element Framework)

Prior to June 2013 version 1.25 of UDEF has been published in three languages (EN, NL and FR)



Currently The Open Group is developing version 2.0 as a project of Open Platform 3.0

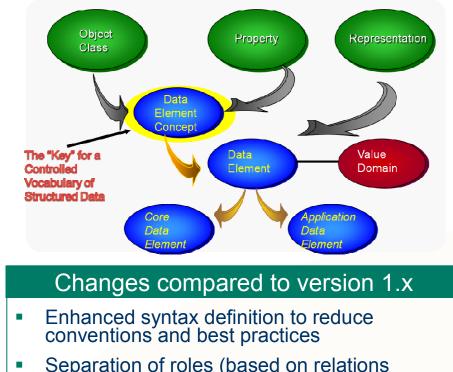


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Improvements of UDEF version 2 (compared to version 1.x)

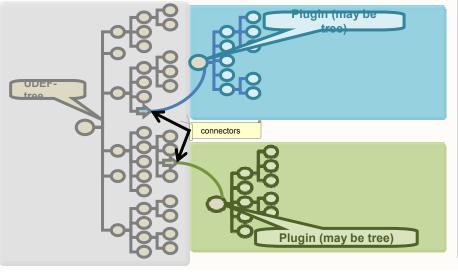


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- Separation of roles (based on relations between objects) from object classes and properties
- "Plugins" allow use of taxonomies defined by other (3rd party) bodies
- Contexts generalised from "the enterprise"
- Governance processes part of the standard

Improvement objectives for UDEF 2.0

- Eliminate complexity of trees due to mixup of different subclassing criteria
- Eliminate ambiguity in priorities of subclassing criteria in some cases
- Improve homogenity of subclassing across language versions
- Reduce limitations due to implied enterprise context





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