Cloud Services Based on Open Standards and Open Technologies

The Way Forward – Building on CSC

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Workshop - CSC Phase 2
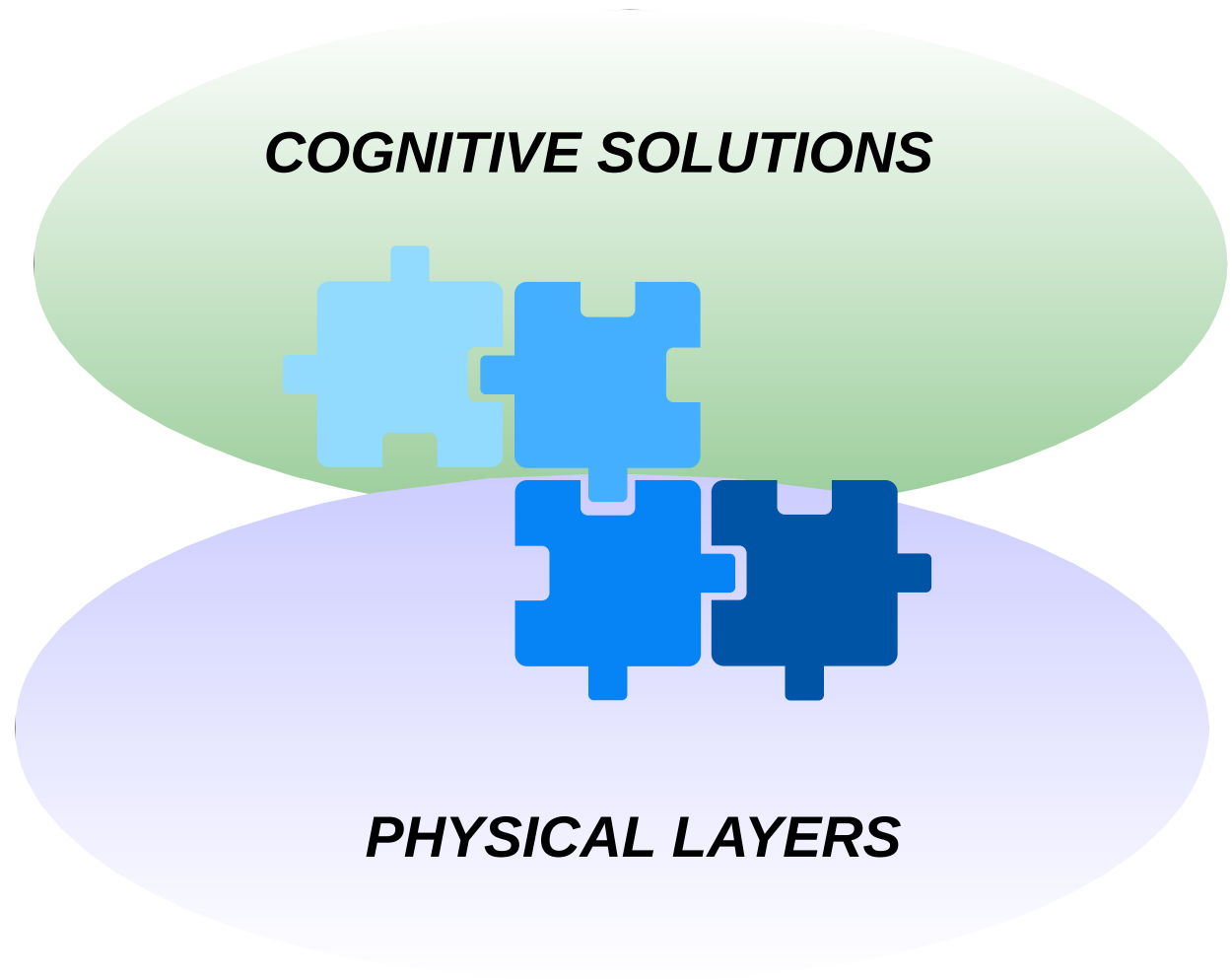Brussels, 28 January 2016

Enabler and Driver of Digitisation

Cloud technologies and Cloud services are at the core of Digitisation

Providing cognitive solutions to physical systems

Open Cloud Platforms, Hybrid Cloud services

"On board" Cloud, SaaS, IaaS, PaaS

There is no such thing like "The Cloud"

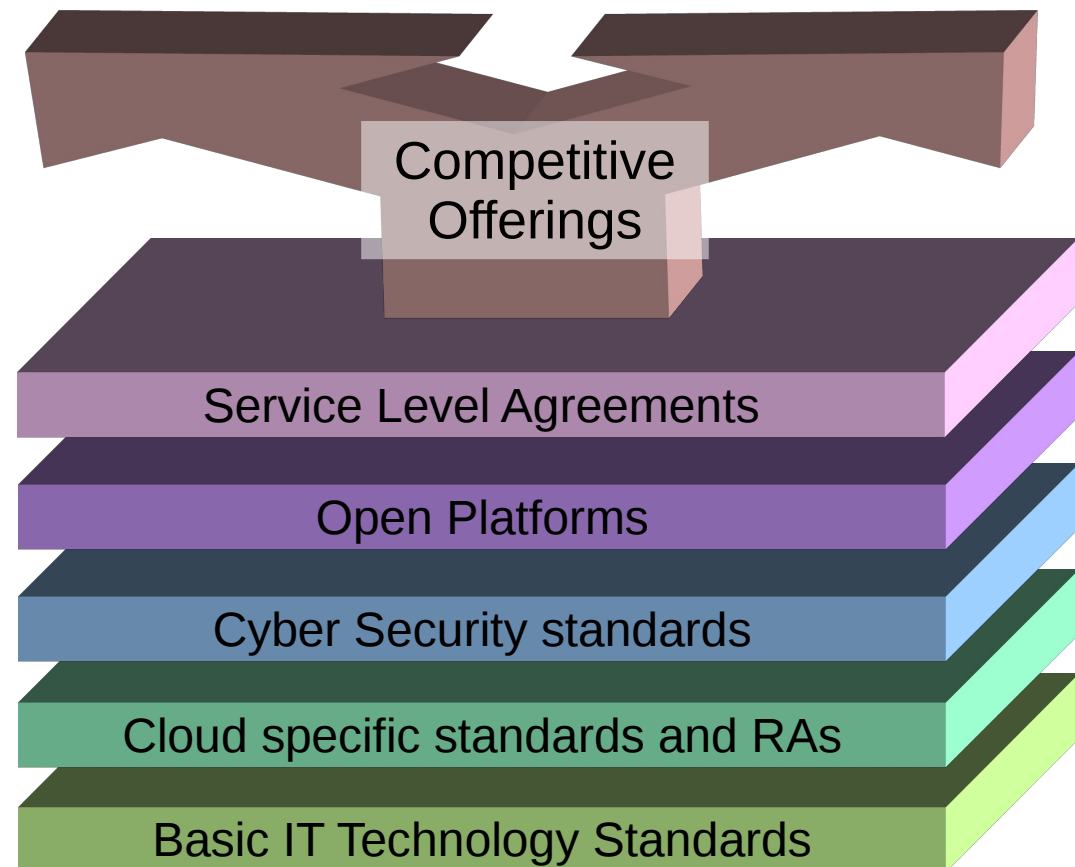*COGNITIVE SOLUTIONS*

PHYSICAL LAYERS

Cloud – Primarily a Service
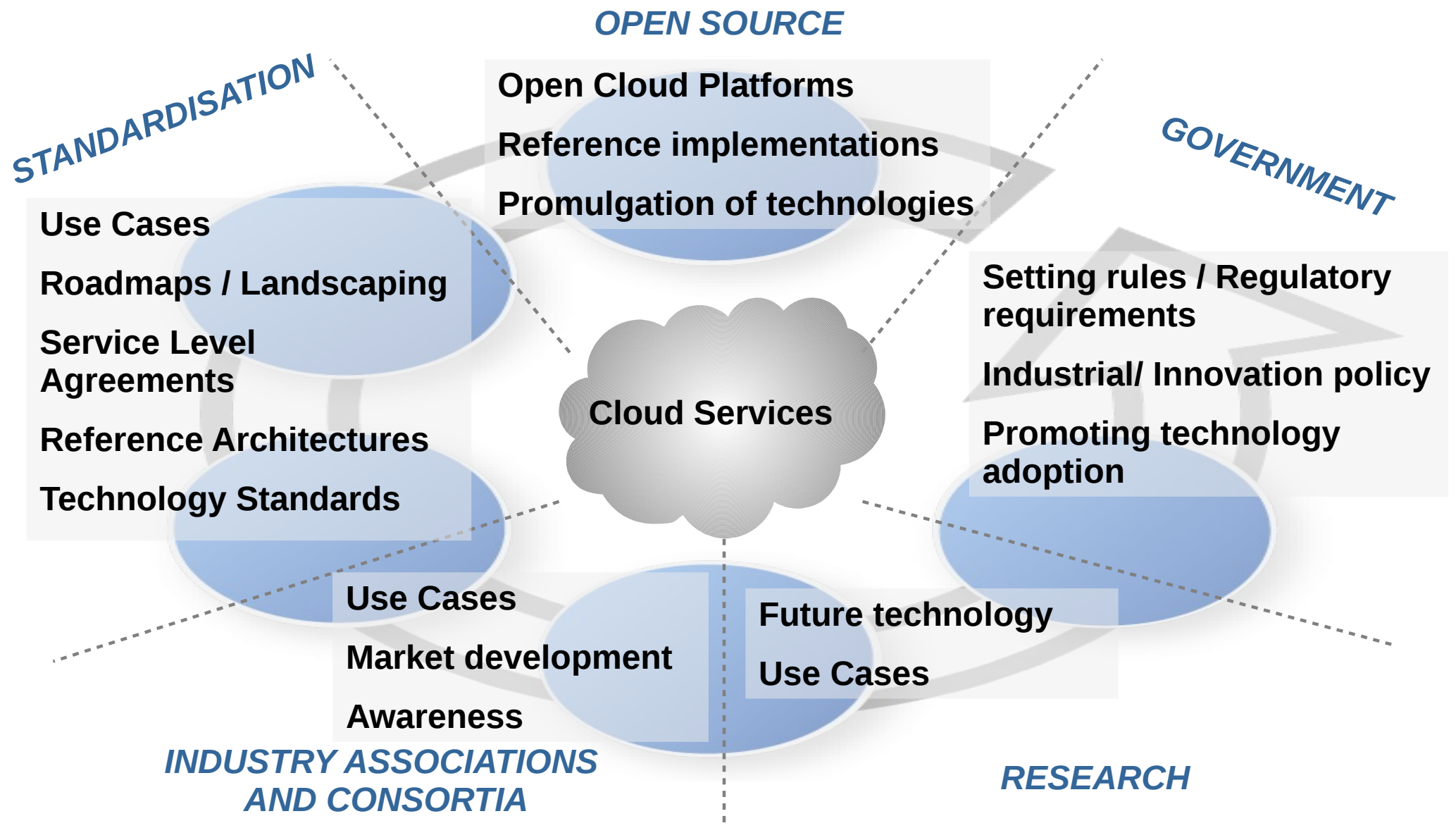
Cloud technologies are a service

Cloud services build on technical standards and on open platforms

On top of standards and open source Cloud platforms competitive technologies and offerings differentiate Cloud Service Providers

This includes competitive technologies for security and privacy

Competitive Offerings

Service Level Agreements

Open Platforms

Cyber Security standards

Cloud specific standards and RAs

Basic IT Technology Standards

Open Cloud Technologies Ecosystem

OPEN SOURCE

STANDARDISATION

GOVERNMENT

Open Cloud Platforms

Reference implementations

Promulgation of technologies

Use Cases

Roadmaps / Landscaping

Service Level Agreements

Reference Architectures

Technology Standards

Setting rules / Regulatory requirements

Industrial/ Innovation policy

Promoting technology adoption

Cloud Services

Use Cases

Market development

Awareness

Future technology

Use Cases

INDUSTRY ASSOCIATIONS AND CONSORTIA

RESEARCH

Leading Contributions from Europe

CSC Reports

Broad overview including standards landscape, security, open source

Well recognised in Europe and beyond

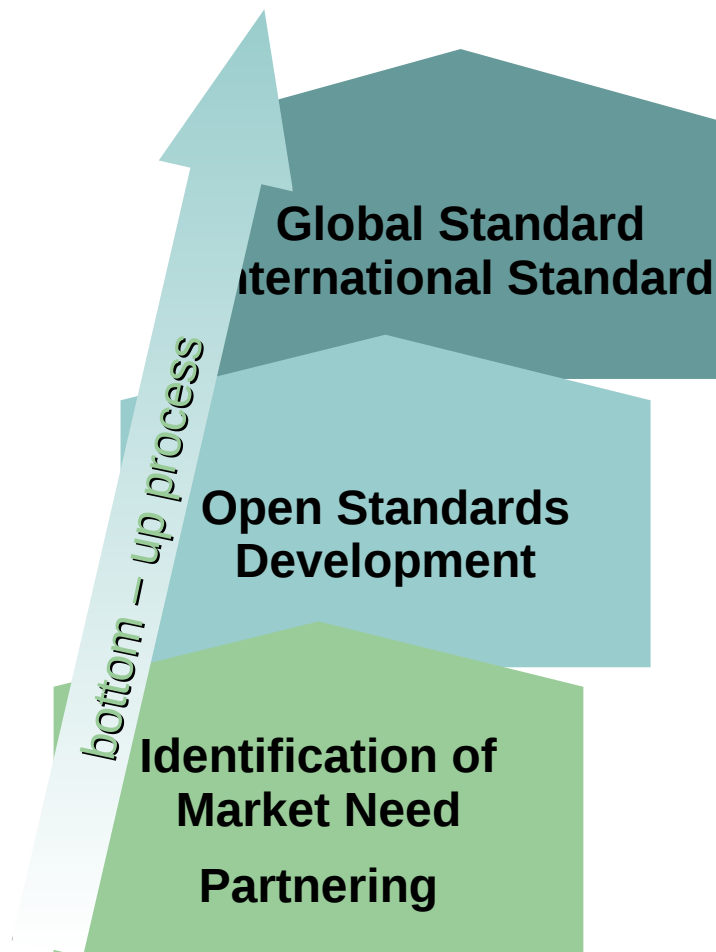Trusted information resulting from open process

C-SIG Results

Successful initiative on Innovation Policy – promote the uptake of Cloud services in Europe

Highly valuable results, in particular Code of Conduct and Service Level Agreements

Way forward: publication (e.g. ETSI White Paper, OASIS) and promotion

Rely on Global and International Standards

Global Standard
International Standard

Open Standards
Development

Identification of
Market Need

Partnering

bottom – up process

Relevant and successful Cloud standards are developed globally in bottom up process

Global and International Standards are critical for competitiveness and market success

Broad range of standardisation deliverables available globally

Way forward: promote implementation and use of global and international standards; focus on actions listed in EU Rolling Plan (RP) and proposed for EU Priority ICT Standards Plan (PISP)

In Focus: International Cloud Standards

SC 38

Cloud specific standardisation deliverables

Including Reference Architecture, SLA frameworks

ISO IEC JTC 1 Information Technology

SC 27

Cyber Security Standards

Including Security Techniques

Way forward

Strong back up of international standardisation activities

Promoting implementation of international standards

Governments (EU Commission, Member States) should join international working groups and collaboration process

Complement with work going on in ETSI TC Cyber and in fora/consortia

In Focus: Open Source

Benefits of Open Source
(from CSC Phase 2 report, p. 12)

A development model based on **recurring and incremental releases** and improvement that fits well with concepts such as **"continuous delivery", "team based development" and "agile development"**;

Modular and clearly defined products and services with **improved flexibility for customization**;

Support to multiple underlying environments as a key factor to **avoidance of lock-in**.

There are a number of highly innovative open source projects ongoing providing open source Cloud platforms

Focus on open collaboration – open source foundations rather than "benevolent dictator" structure

Provide open PaaS and IaaS for innovation and competition on top of such open source Cloud platforms

Way forward

Include Open Source Cloud Platforms into the bigger picture of open technologies in the area of Cloud services

Based on findings from CSC Phase 2 report, promote the use of open platforms alongside with open standards

Continue work on best practices / defining processes for collaboration between open source and standardisation

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Thanks very much for your attention.

Happy to discuss further.