



Cloud for Europe /C4E/

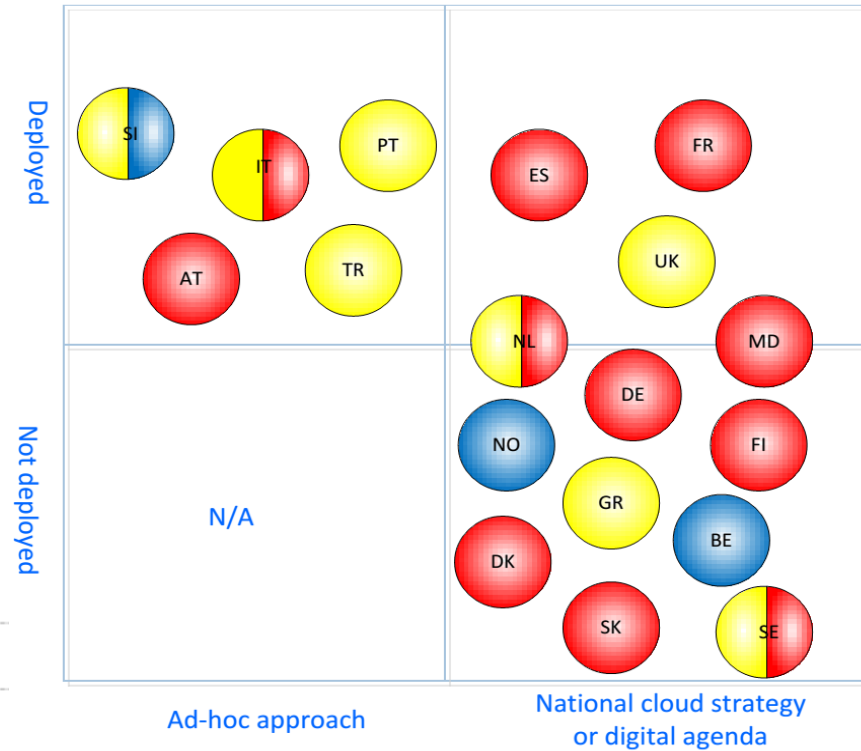
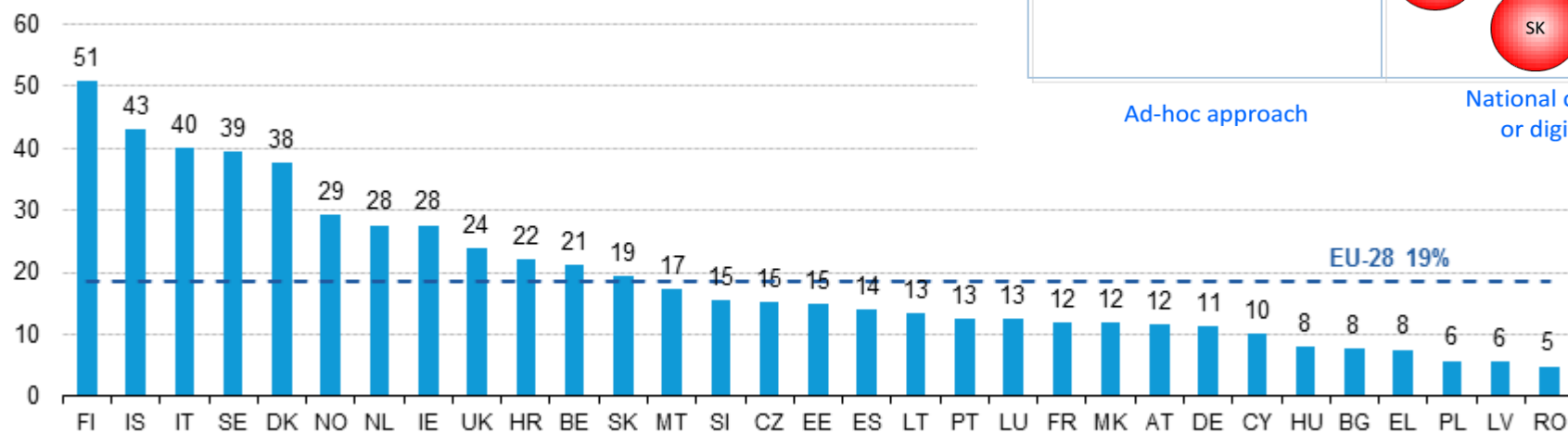
Peter Kissa Principal Software Engineer

InterWay, a.s.

Mlynské Nivy 71, 821 05 Bratislava, Slovenská republika

T: +421 2 3278 8888 | **M:** sales@interway.sk | **W:** www.interway.sk





Agenda

- ▶ European Cloud Partnership
- ▶ C4E intro
 - ▶ Timeline
 - ▶ Consortium
- ▶ Federated Certified Services Brokerage
- ▶ Secure Legislation Aware Storage
- ▶ What's next



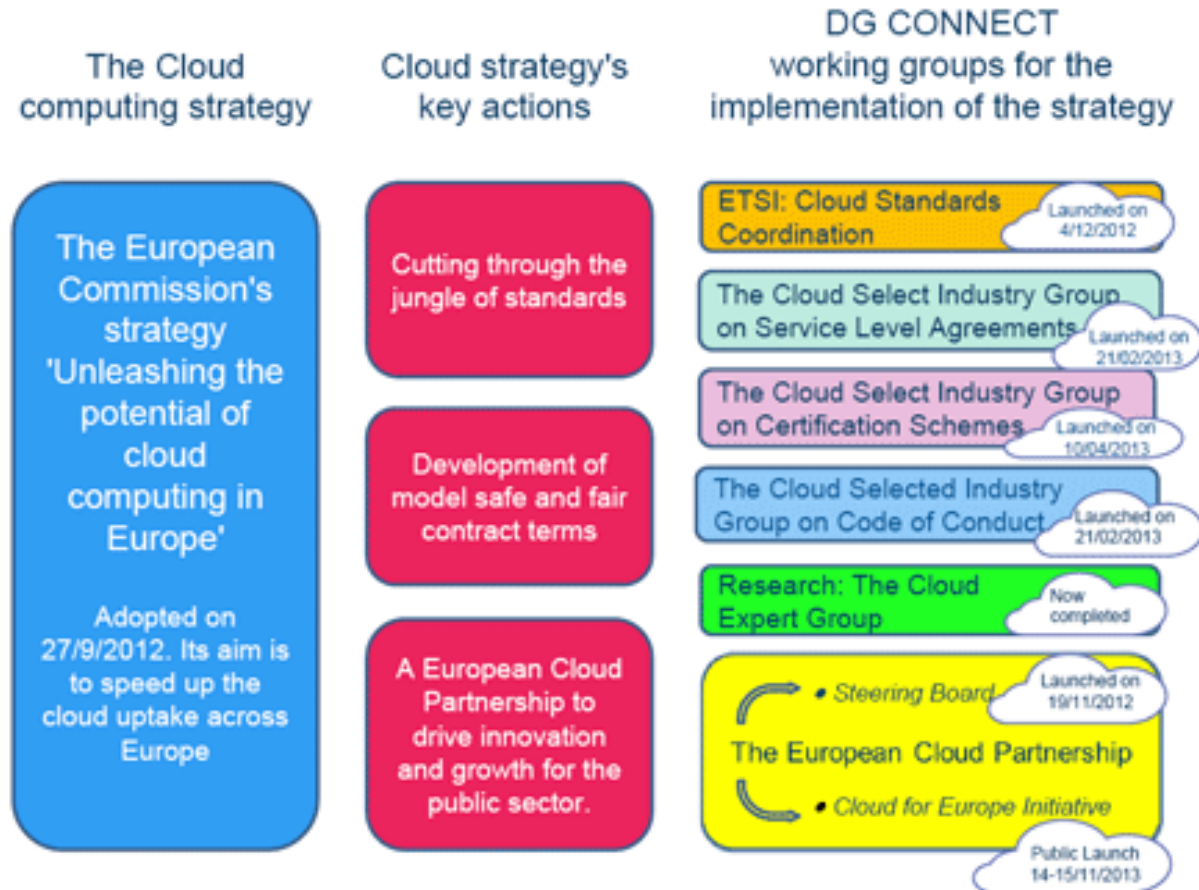


European Cloud Partnership /ECP/



ECP: EU Cloud Strategy

► "Unleashing the Potential of Cloud Computing in Europe" *September 2012*



ECP: Agenda & Goals

- ▶ Research Program aka FP7 – Cloud For Europe
- ▶ Horizon 2020 – 2015 Work package (40)
 - ▶ ICT 8 - Boosting public sector productivity and innovation through cloud computing services
- ▶ Trusted Cloud Europe
 - ▶ Framework for supporting the definition of common cloud computing best practices
 - ▶ Survey (Marec-Máj 2014) - questions surrounding cloud-active policy, procurement rules, geographical restrictions, and single digital market





Cloud for Europe /C4E/



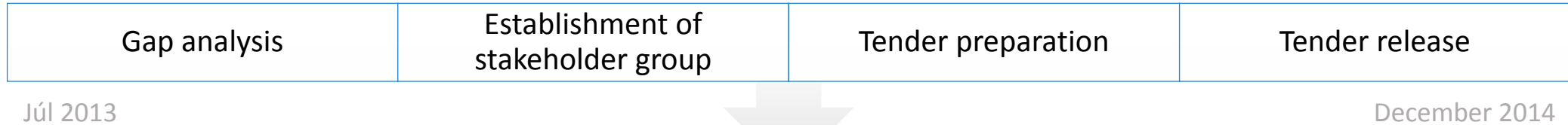
C4E: Intro

- ▶ Started in June 2013 and runs until November 2016
 - ▶ Managed by AGID
- ▶ Consortium of **24 partners**, from **12 countries**
 - ▶ ..., MF SR, ...
- ▶ Goals
 - ▶ **Identifying obstacles** for cloud use in the public sector
 - ▶ Defining services that **overcome** these obstacles
 - ▶ Procuring research from industry to find **innovative solutions** for cloud services

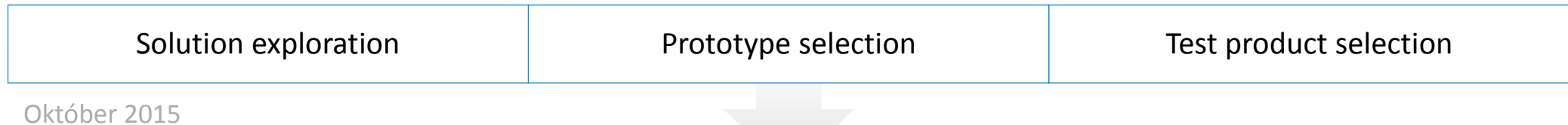


C4E: Timeline

Pre-commercial procurement (PCP) preparation



PCP tender implementation



Sharing



C4E: Consortium



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► InterWay

- 1997, BA/ZA/LM, 51-200, Cloud/Strategy/Architecture/Integration/...

► Liberologico

- 1999, Pisa IT, 11-50, Cloud/IoT/Mobility/SocialCRM/...

► TeamNet / Ymens

- 2001, RO/HR/TR/BG/BE, 800+, Cloud/Integration/Healthcare/Engineering/...

► University of Messina

- 1548, Messina IT, 11 Faculties, Distributed and Parallel Computation Systems/...





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Federated Certified Services Brokerage /FCSB/



FCSB: Lot specific requirements

► Interoperability

- Declarative and distributed service metadata registry governance
- Intelligent service discovery mechanism operating in federated ecosystem of services
- Orchestration logic for determining plan and overseeing service migration

► Certification

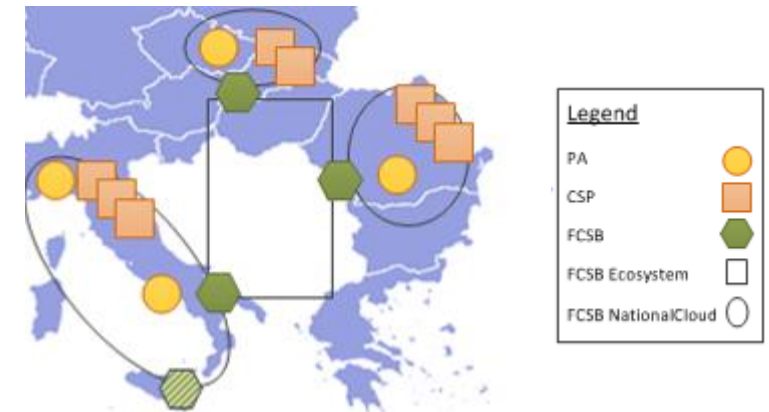
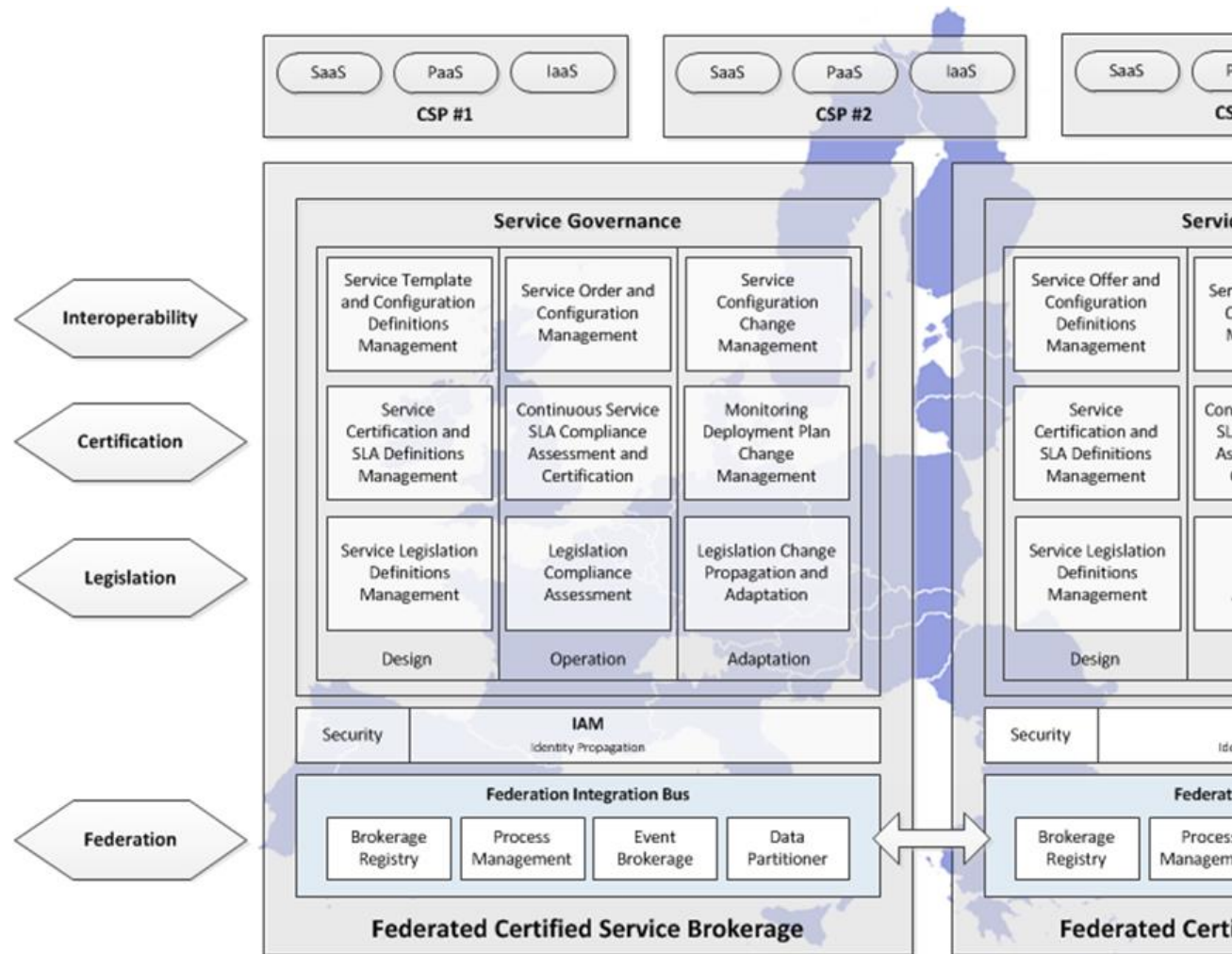
- Service location-aware monitoring platform
- Distributed monitoring platform for last mile verification

► Legislation

- Complex and agile data model for legislative domain
- Develop the methods and interfaces for easy legislative change propagation
- Develop the methods and interfaces for securing services legislative compliance



FCSB: Vision





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Secure Legislation Aware Storage /SLAS/



SLAS: Lot specific requirements

► Digital Archiving and Preservation

- Long term preservation of data to be implemented in new cloud storage services
- Provide a solution for data snapshots and data replication.
- Ensure data integrity and data recovery

► Legislation-Compliance of a Cloud Storage Service

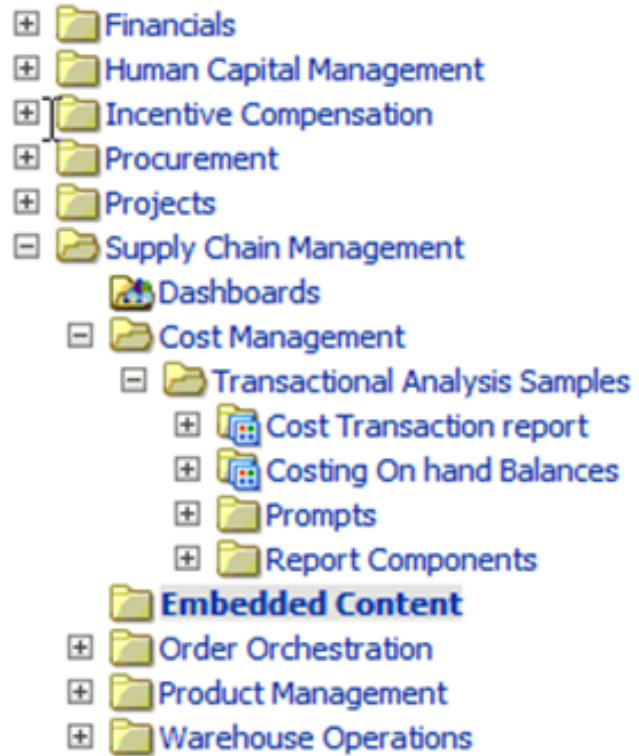
- Auditing of the cloud storage service for assess the adequacy and compliance with the target legislation framework
- Designed to scale up to about 100.000 customers, tens of cloud storage providers and hundreds of different cloud services

► Legislation-aware Data Provision and Access

- Define legal rules and constraints in a structured way and associate these rules to data objects
- The assisted, semi-automatic or automatic, management of dynamic data authorization



SLAS: Vision





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Quo Vadis

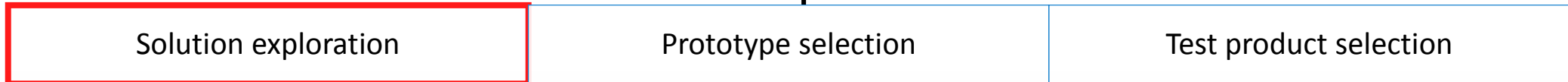


FCSB & SLAS: Solution Exploration

Pre-commercial procurement (PCP) preparation



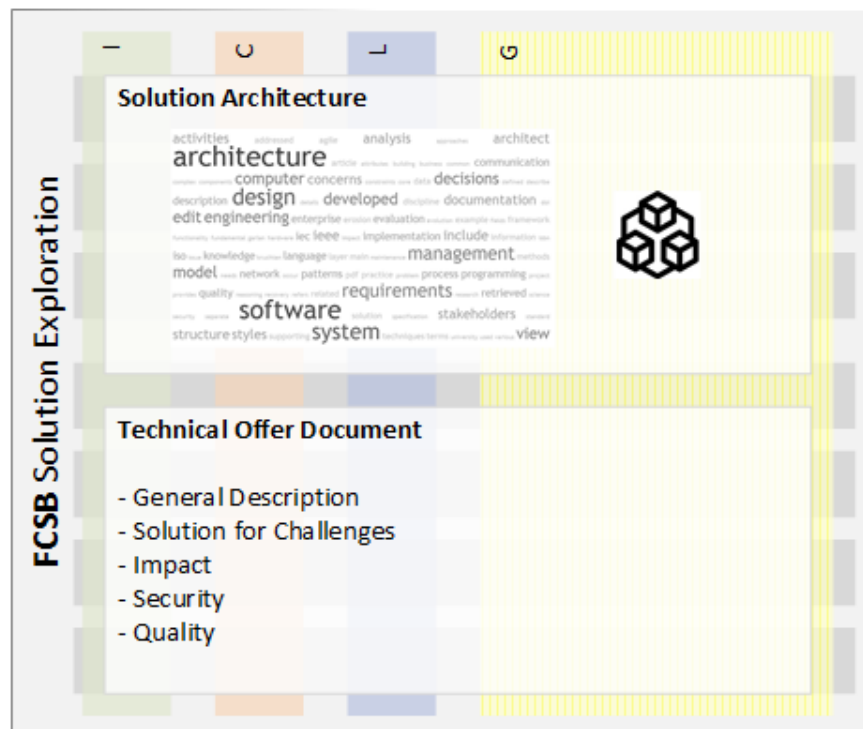
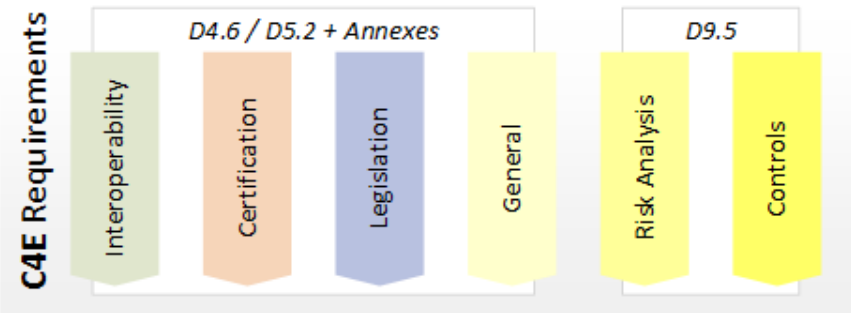
PCP tender implementation



Október 2015

Sharing





Ďakujem za pozornosť



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