Cloud for Europe – challenging the European market for public administrations

Radu Boncea

Bucharest, 15 January 2015
Our Mission

Cloud for Europe brings together public authorities and industry to support public sector cloud use.

• Identify **obstacles** for cloud use in the public sector
• Define **services** that overcome those obstacles
• Procure research from industry to find **innovative solutions** for cloud services
Who we are
Major Public Deliverables (1/2)

• Legal studies
  • Legal implications of cloud computing on public authorities (May 2014)
  • Legal conclusions of the PCP process (November 2016)

• Gap analyses
  • Standards, Normalisation and Certifications Associated (May 2014)
  • Public sector study (coming soon)
  • Study of market vendors’ offering and public administrations’ requirements (coming soon)
Major Public Deliverables (2/2)

- PCP tender
  - Services catalogue (March 2014)
  - Tender pre-information notice (May 2014)
  - Public cloud PCP tender documentation (December 2014)
- Valitation
  - Certification framework & evaluation methodology (2015)
  - Evaluation reports for solution selection, prototypes and test products (2015-2016)
- Dissemination
  - Communication packages for industry and public sector (October 2014 + yearly updates)
Expected Outcomes

• Public sector in Europe is empowered to procure cost-effective, secure and reliable cloud services

• Pre-commercial procurement terms, do's and don'ts, opportunities and pitfalls are understood

• Industry prepared through the PCP research and experience to meet public sector needs
# Challenges addressed

<table>
<thead>
<tr>
<th>Phase</th>
<th>No.</th>
<th>Challenge Summary</th>
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<tbody>
<tr>
<td>Design, Procurement</td>
<td>1</td>
<td>Interoperability for cross-country federated cloud service selection and competition</td>
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<tr>
<td></td>
<td>2</td>
<td>Matching customer requirements with cloud service specification</td>
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<td>3</td>
<td>Assessing the legislation compliance of a cloud storage service to its contractual and functional description</td>
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<tr>
<td>Transition, Delivery</td>
<td>4</td>
<td>Defining means of assuring service compliance with legislation of EU countries</td>
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<td></td>
<td>5</td>
<td>Digital archiving and preservation</td>
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<td></td>
<td>6</td>
<td>Federated cross-border workflow engine</td>
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<td></td>
<td>7</td>
<td>Legislation-aware data provision and access</td>
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<td>8</td>
<td>Overcome, or address legal barriers to cloud computing</td>
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<td>9</td>
<td>Enable the cloud development community to create and maintain legislation execution</td>
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<tr>
<td>Operation</td>
<td>10</td>
<td>Legislation awareness, dynamic management, and propagation</td>
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<td></td>
<td>11</td>
<td>Cloud service SLA assessment and monitoring</td>
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<td></td>
<td>12</td>
<td>Seamless change of service provider</td>
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Services as solutions to be procured

• Federated Certified Services Brokerage for EU Public Administration Cloud

• Secure Legislation-Aware Storage

• Legislation Execution Cloud Services
Federated Certified Brokerage

Status quo

• Cross-border cloud services must be secure in terms of country and EU legislation, privacy protection and security

• Current fragmentation can be overcome by federated EU public administration cloud

• Dynamic real time cross-border service certification monitoring

Issues to be solved

• Interoperability (service governance, data portability, identity propagation)

• Service certification (architecture of components, automated certification)

• Legislation awareness (legislation compliance, definition and assessment, interface for legislative changes propagation)
Secure Legislation-Aware Storage

Status quo

• Limited service offers for legislation awareness and security mechanisms to ensure integrity

• Encryption performed by the user or cloud provider claims to encrypt

• Cloud storage offering often not clearly perceived as legislation compliant

• Multi-legislation requirements difficult and expensive to satisfy

Issues to be solved

• Establish trust by contractual means

• Simplify selection/procurement of legislation compliant cloud (storage) services

• Create tools to manage citizen access rights to personal data in a legislation compliant way

• Tackle multiple regulations concerning the storing of data: archiving, disclosure, and restricted access to backups
<table>
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<tr>
<th>Status quo</th>
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<tbody>
<tr>
<td>• Some legal barriers lead to no go decisions for cloud adoption</td>
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<td>• For sensitive data only private or community clouds are used</td>
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<tr>
<td>• Example: no automatic notification of unauthorised access to data owner and service provider</td>
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<table>
<thead>
<tr>
<th>Issues to be solved</th>
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<tr>
<td>• Developing a cloud service that meets requirements imposed upon cloud actors by national or international legislation</td>
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<th>Possible solutions</th>
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<tr>
<td>• A framework (methodology, guidelines, specifications)</td>
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<td>• Generic services to be combined with business services</td>
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<td>• Services, integrated with business services</td>
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Pre-Commercial Procurement (PCP)

PCP is one particular approach for **procuring R&D services** only, which enables public procurers to:

- Develop solutions for concrete public sector needs, whilst comparing/validating alternative solution approaches
- Share risks and benefits with participating companies in a way that does not involve State Aid
- Create optimal conditions for **wide commercialisation** of R&D results
Joint cross-border PCP

Combining the procurement actions of all the contracting authorities

Only **one tender** published on behalf of all participating authorities (in English)

Only **one entity** awarding the resulting R&D service contracts for all PCP phases on behalf of all participating authorities

(Lead Procurer: AGID, Italy)
1. Solution design (~2 months)

- Consortium A
- Consortium B
- Company C
- Company D

2. Prototype (~7 months)

- Consortium A
- Company C
- Company D

3. Test Products / Pilot (~5 months)

- Consortium A
- Company C

- Tendered through functional specification
- Framework contract governs all 3 phases
- Industry keeps IPR

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**Benefits**

**FOR INDUSTRY**
- International leadership in new markets
- Shorter time to market
- Wider market size
- Shared risks and benefits
- IPR

**FOR PUBLIC PROCUREMENTS**
- Better quality products
- Opportunity to share development risks with suppliers – license free use for procurers

**FOR CITIZENS & POLITICIANS**
- Quality and efficiency of public services
- Highly qualified employment
- Attracting foreign investment
- Optimising public R&D spending
## Tender Info

| Tender web page               | [http://www.agid.gov.it/cloudforeurope](http://www.agid.gov.it/cloudforeurope)  
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<tr>
<td>Agenzia per l'Italia Digitale (AgID)</td>
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<tr>
<td>Tender language</td>
<td>English</td>
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<tr>
<td>Legal framework</td>
<td>PCP under Italian law</td>
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<tr>
<td>Value of tender</td>
<td>EUR 4,000,000</td>
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<tr>
<td>Duration</td>
<td>18 months</td>
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<td>13/12/2014</td>
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<td>Time limit for requests for</td>
<td>06/02/2015</td>
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<tr>
<td>clarification</td>
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<tr>
<td>Email</td>
<td><a href="mailto:C4E-tender@agid.gov.it">C4E-tender@agid.gov.it</a></td>
</tr>
<tr>
<td>Fax</td>
<td>+39.(0)6.85264.372</td>
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How to engage C4E?

• Visit www.cloudforeurope.eu
• Join Cloud for Europe stakeholder mailing list www.cloudforeurope.eu/stakeholder-area
• Send questions to info@cloudforeurope.eu
• Follow us and engage in discussions @cloudforeurope
  group: Cloud for Europe