

Part I: EGI & EGI-Engage Part II: PICSE

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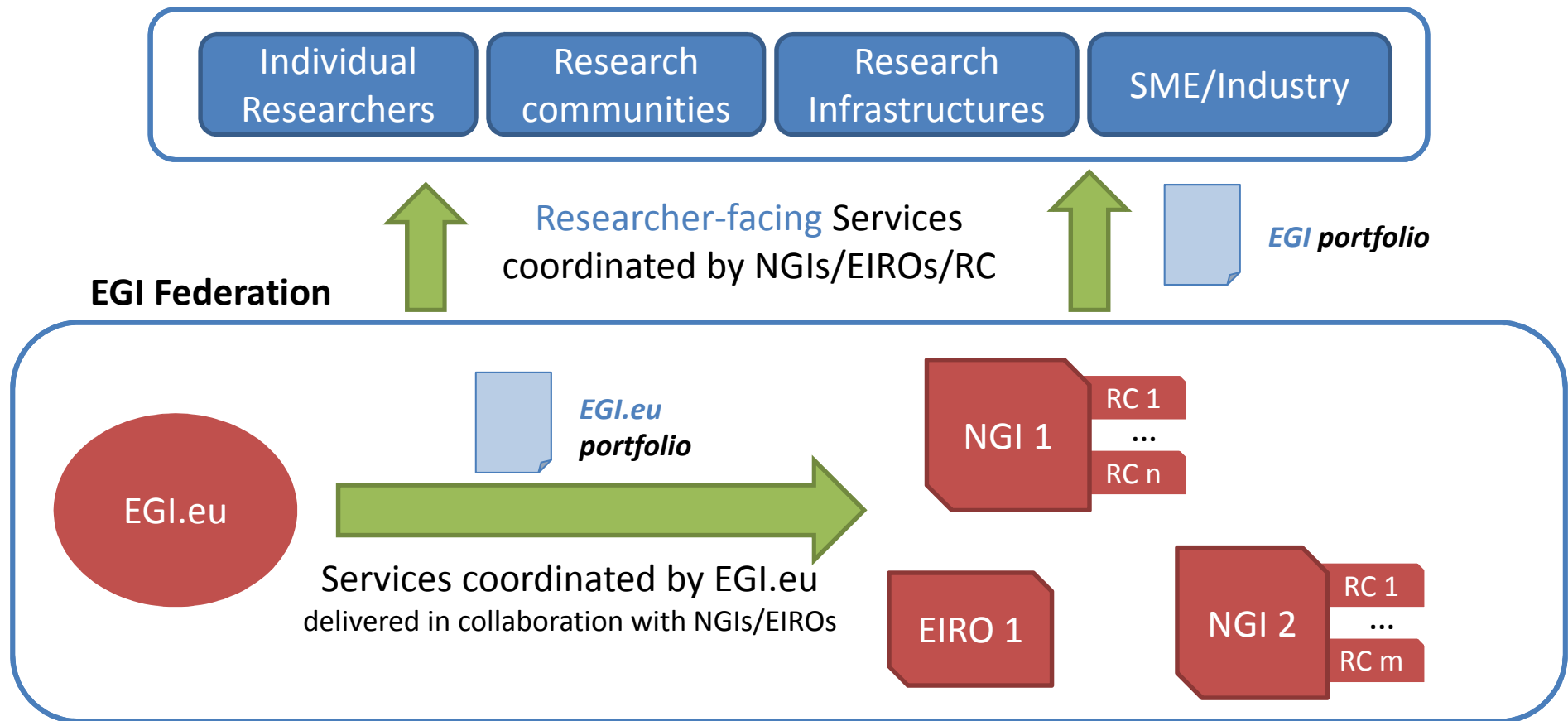
TF-MSP: Joint/Aggregated Procurement
in the Community

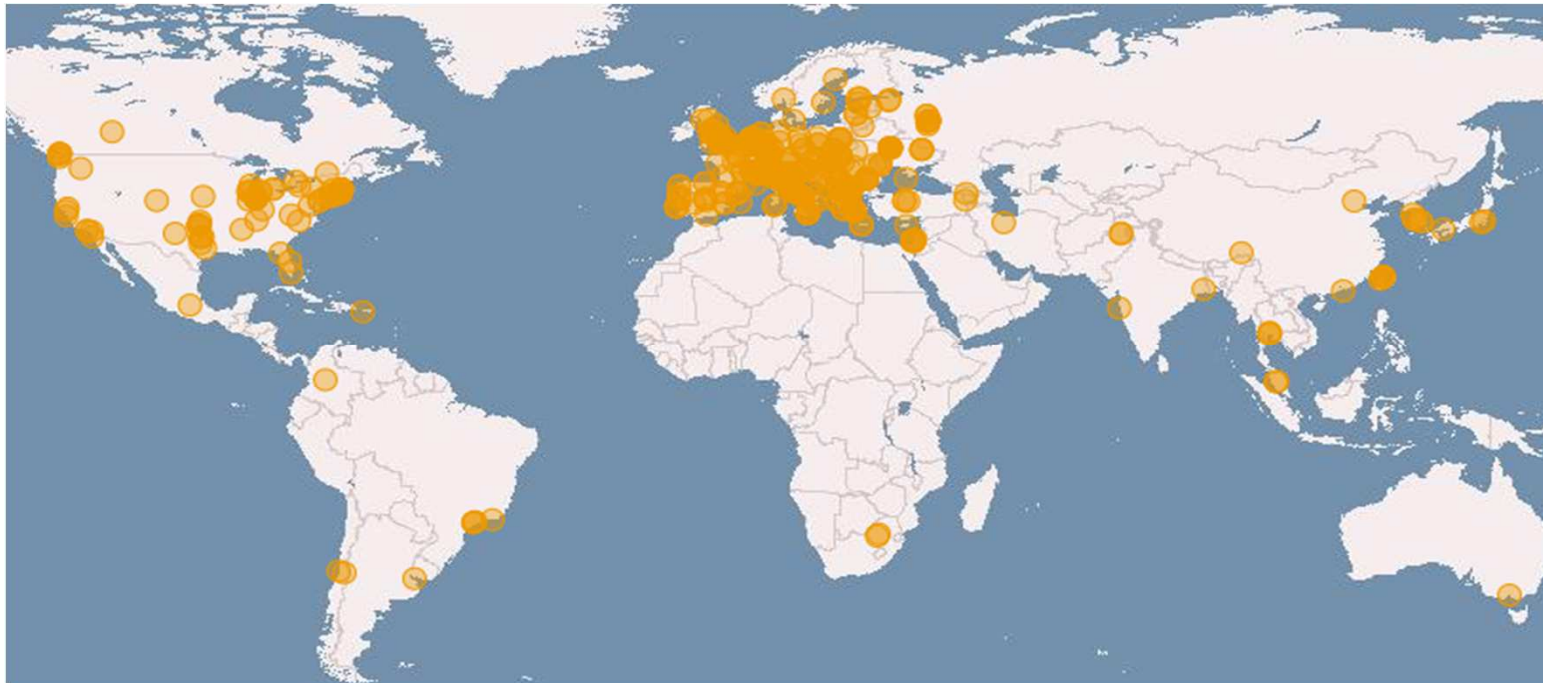


- EGI
 - Organisational model
 - Infrastructure/Service/Solution View
 - Pay for Use proof of concept
- EGI-Engage (H2020 project)
 - EGI role for an Open Science Commons
 - Procurement study
- PICSE (H2020 project)
 - Procurement Innovation for Cloud Services in Europe

EGI Organisational View

EGI Mission: to provide solutions for big and open science, research and innovation by federating digital capabilities, data, people, and knowledge



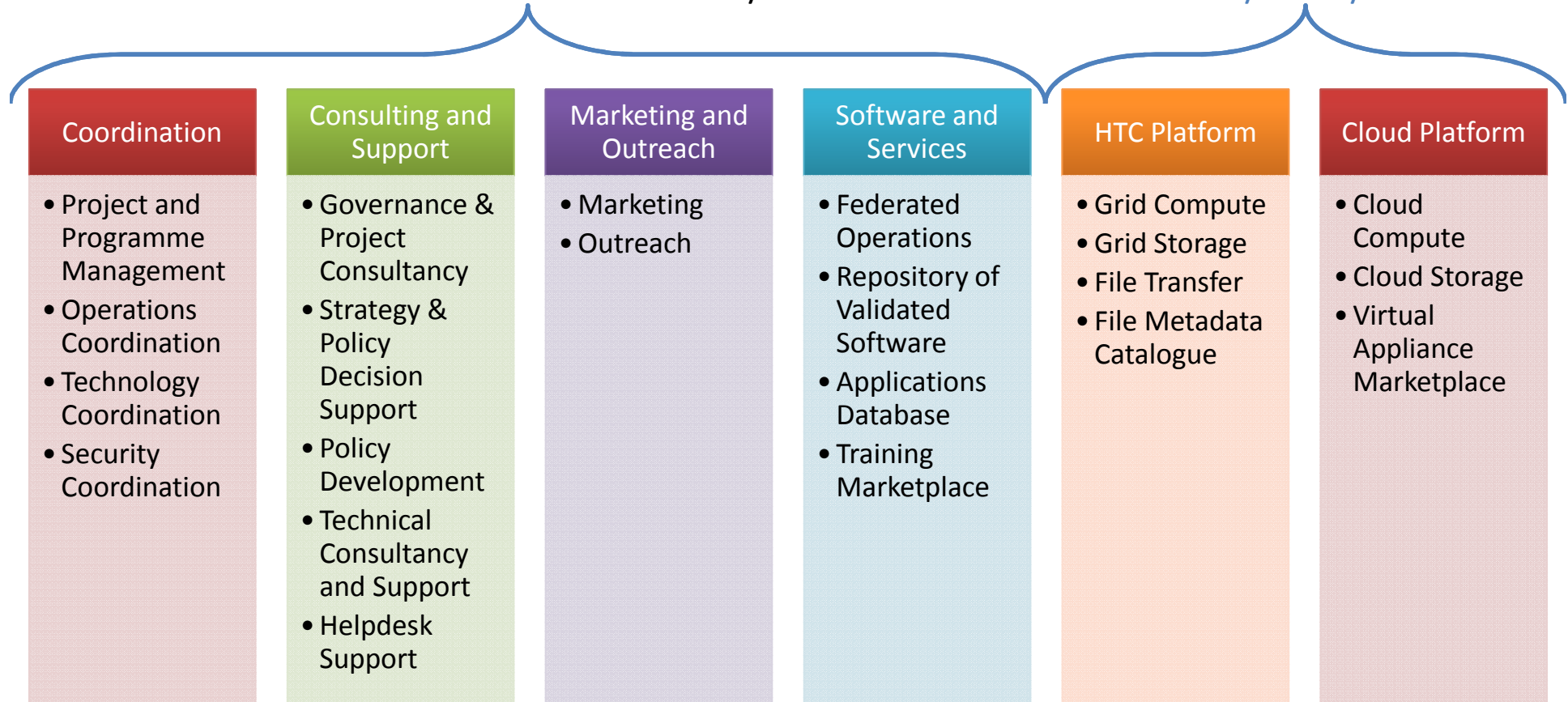


- Distributed and federated data and computing facilities
- Grid and Cloud compute platform
- 354 data centres in 39 National Grid Initiatives/EIROs
- 531,000 logical CPU cores
- Supporting science for over 10 years
- > 200 research projects
- 296 PB disk, 180 PB tape
- 1.6 M jobs/day
- > 99.6% reliability

Jan. 2015

Services coordinated by [EGI.eu](http://www.egi.eu) and delivered in collaboration with NGIs/EIROs

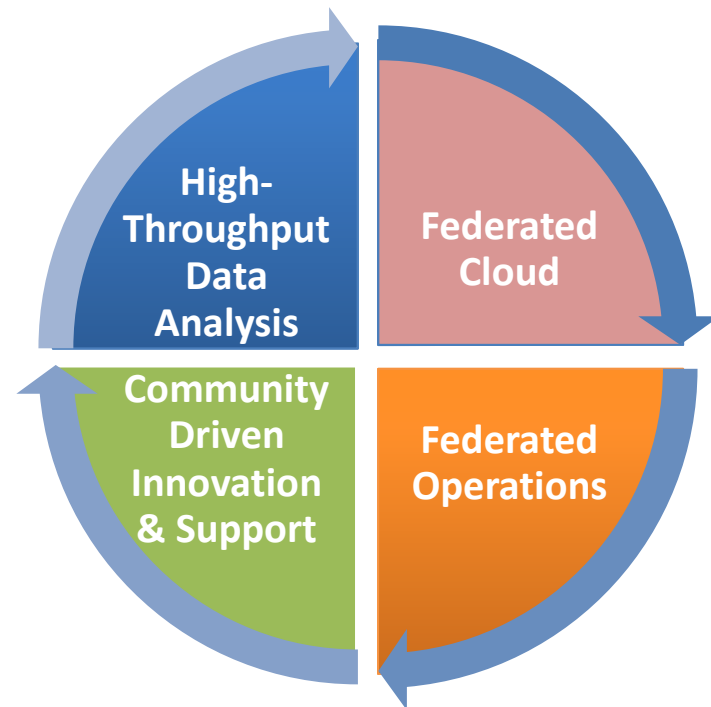
Services coordinated by NGIs/EIROs/RCs



<http://www.egi.eu/services/>

EGI – Solutions View

A combination of products, services, and intellectual property focused on solving a problem (opportunity) that creates and/or drives value (measurable) and can be significantly standardised



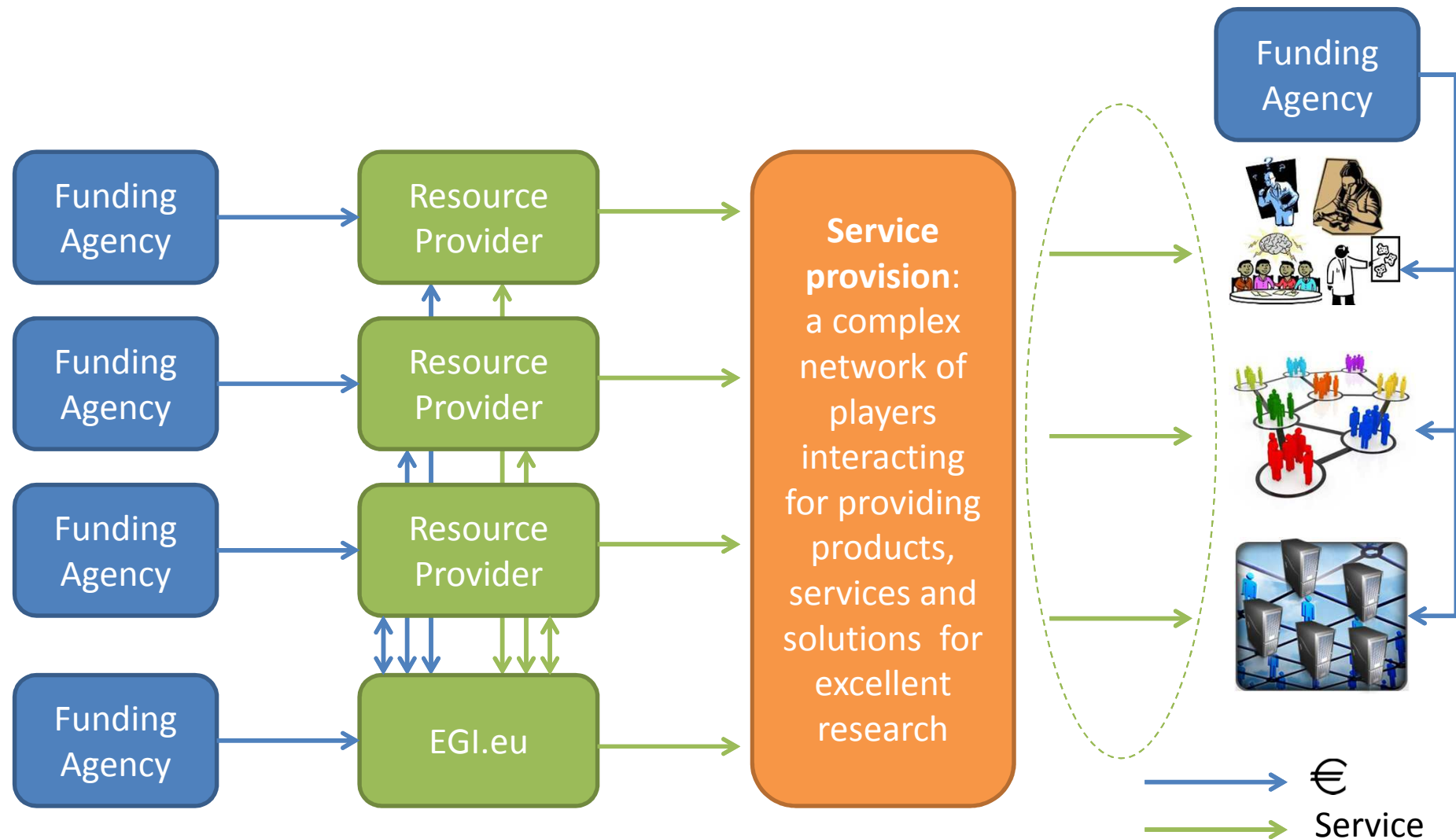
Ingredients from the EGI community:

- Services from EGI.eu
- Services from NGI/Resource Centres
- Software products from technology providers
- Data, knowledge, expertise from the community

Access Modes to EGI services

Access Mode	Description
Policy-based	Users are granted access based on policies defined by the EGI resource providers or by EGI.eu; such policies usually apply to resources being offered “free at point of use” to meet some national or EU level objective
Excellence-driven	Users are granted access based on the scientific excellence, originality, quality, technical and ethical feasibility of the work; this access mode is applied by some EGI resource providers
Market-driven	Users can negotiate a fee to access services either directly with EGI resource providers or indirectly with EGI.eu
Membership-based	Becoming participants of EGI.eu by paying an annual membership fee allows to access a number of benefits (e.g., use of services for federating infrastructures)

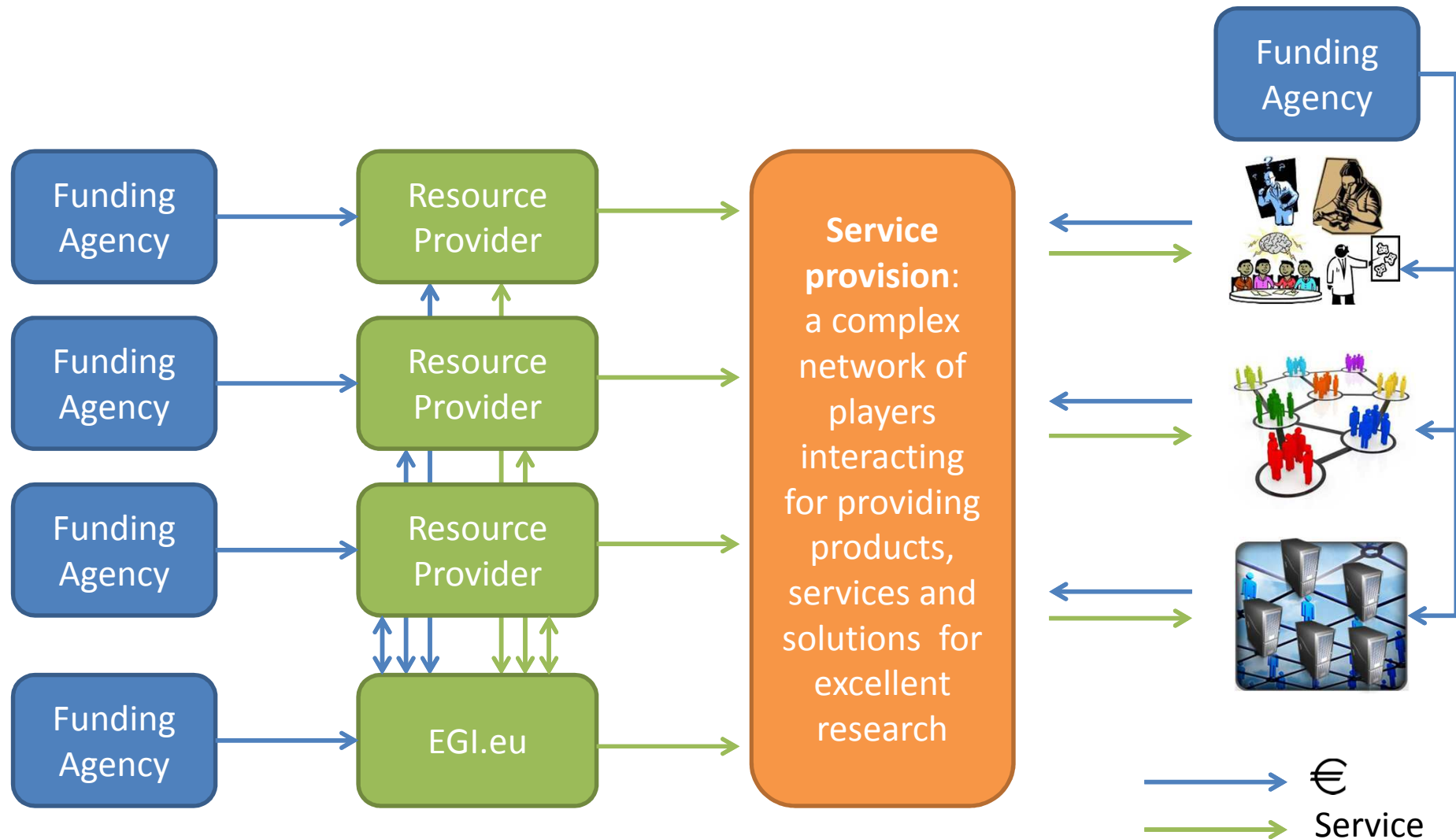
Current charge model for policy-based and excellence-driven access modes: Free at Point of Use



Pay-for-use Proof of Concept: Motivations

- Increase awareness of economic value for service delivered
- Incentivise resource providers to expand user base outside their own remit
- Intercept increasing revenue streams from customers focusing on OPEX for *IT as a Service*

Model under analysis to support market-driven access mode: Charging for Services



- Objectives

- Articulate business and responsibility models
- Define prices for services from
- Understand required agreements
- Identify the tools and necessary development
- Analyse the changes to roll out new functionalities into production
- Evaluate legal, policy, and organizational issues

- Final Report

- Full report available at: <https://documents.egi.eu/document/2377>

- Tools adaptation
 - Registry extensions added to set prices
 - Accounting Portal accounting information
 - e-GRANT Broker/User Interface
- EGI Resource Providers
 - 30 providers publishing pricing information (20 Grid, 10 Cloud)
- Legal and Policy solutions emerging
 - e.g. research-only purpose statements; joint collaborations
- Business Cases being explored
 - Helix Nebula Marketplace, GEANT Catalogue, Business Eng., ...

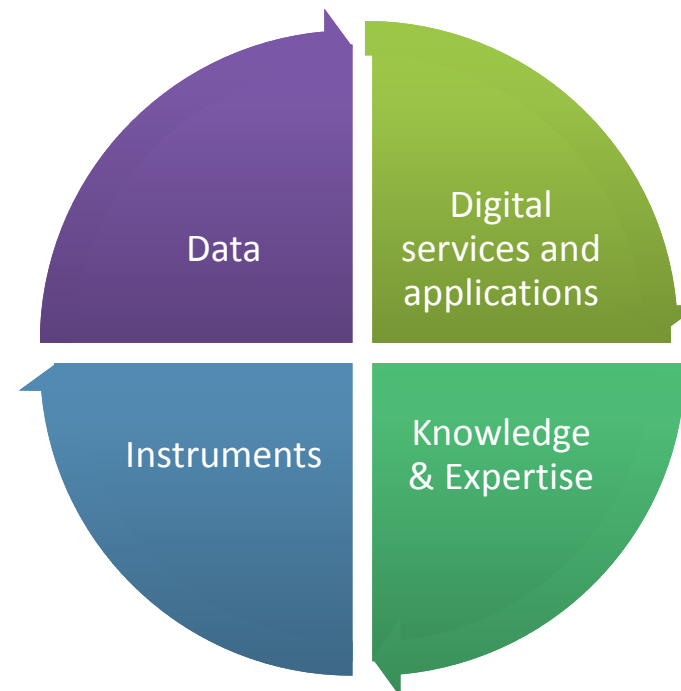
EGI-Engage

Engaging the Research Community towards
an Open Science Commons

<http://go.egi.eu/eng>

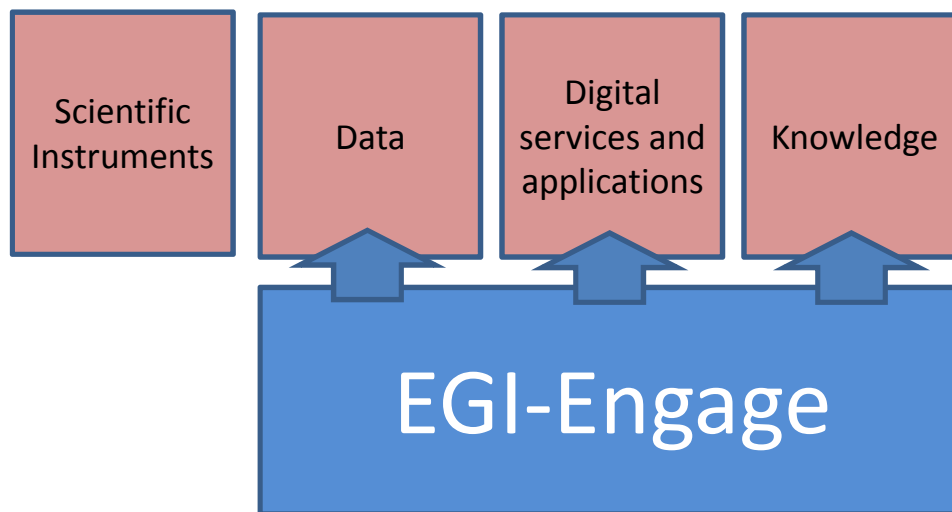
An overarching vision for all stakeholders involved in Open Science

Researchers from *all disciplines* have easy, integrated and open access to the advanced *digital services, scientific instruments, data, knowledge and expertise* they need to collaborate to achieve *excellence in science, research and innovation*



website: www.opensciencecommons.org - paper: <http://go.egi.eu/osc>

Implementing the Open Science Commons: the role of EGI



- EC Funded project
- 30 months, Start: 1/March/2015
- 61 partners
- 8M Euro EC contribution
- 42 Beneficiaries (35 funded)

Ensure the continued coordination of the EGI Community

- Strategy, policy and business development, to continue and expand activities including the evolution of the EGI governance

Evolve the EGI Solutions, related business models and access policies for the long tail of science, Research Infrastructures and industry/SMEs

- Bring new solutions to full maturity and tailor the solutions to the need of specific user groups
- Engagement with commercial service providers and consumers for the development and adoption of a common service marketplace

Offer and expand an e-Infrastructure Commons solution

- Security operations and AAI infrastructure, accounting, monitoring...
- Discoverability of services through a European federated marketplace
- Cross e-Infrastructure access policies and business models
- Cross-border service procurement with e-Infrastructures and Research Infrastructures

Implement the Knowledge Commons

- Open access to training, education material, coordinated user support effort
- Open access to scientific codes, and virtual appliances for repeatability of science

Evolve the EGI Cloud towards a Open Data Cloud combining IaaS, PaaS, SaaS and open data publication, access and re-use

- Fostering re-use of open data

User-driven innovation through a network of eight Competence Centres (BBMRI, DARIAH, EISCAT-3D, ELIXIR, EPOS, INSTRUCT, LifeWatch and environmental science)

- The EGI technical platforms will be evolved according to the needs of the user community and will be integrated with the services of other e-Infrastructures in Europe and world wide

Analyse opportunities and barriers for cross-border procurement of e-Infrastructure services and identify best practices that could enable RIs or large research collaborations to acquire services to support their research agenda collectively

Activity led by CERN - RIs involved:

- EPOS
- LifeWatch
- BBMRI-ERIC
- DARIAH

Public report on opportunities, barriers, use cases, best practices in Mar'17

https://wiki.egi.eu/wiki/EGI-Engage:WP2#TASK_NA2.2_Strategy.2C_Business_Development_and_Exploitation

Workshop about cross-border joint procurement



21 May 2015 11:00-12:30, Lisbon, Portugal
Cross-border Join procurement Workshop

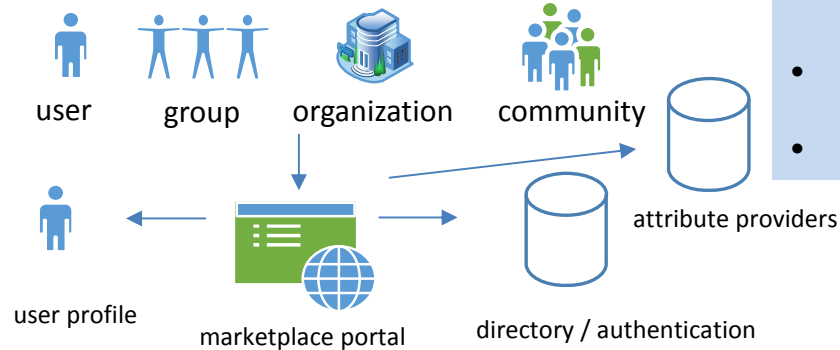
<http://indico.egi.eu/indico/sessionDisplay.py?sessionId=73&confId=2452#20150521>

- Report on Barrier to Procurement and Research Procurement Model from PICSE project
- Selected Research Infrastructures to present their vision on IT service procurement
- Discussion to identify a work-plan for the study

EGI-Engage Marketplace: Initial Concept

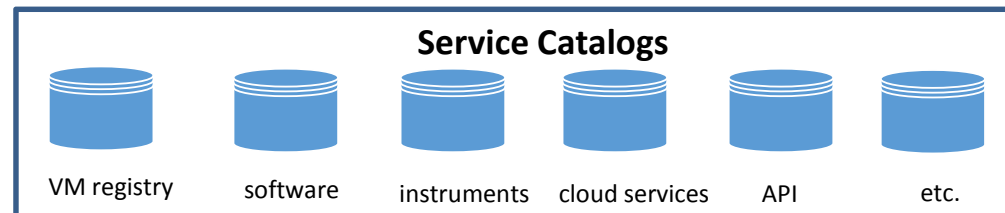
Enable people to share and discover ANY resource they need for science

- Favorites
- Ratings
- Etc.

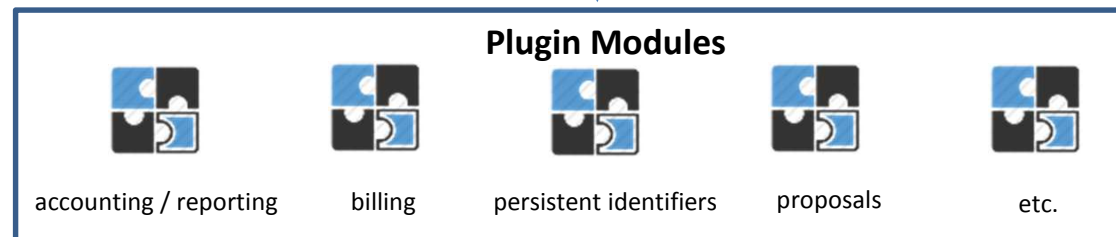


- Authentication (eduGAIN, social, enterprise)
- Group management (organizational, local)
- Attributes (billing information)

- Search across all service types



- Different catalogs (AppDB, GOCDB, HNX, IRIS)
- Catalogs should deliver additional value to providers
- Can have multiple of the same type of catalog



- Different plugins for catalogs (e-GRANT)
- Deliver additional value
- Not mandatory
- Multiples of the same type of plugin



Procurement Innovation for Cloud Services in Europe

Procurement Innovation for Cloud Services in Europe - PICSE

Slides courtesy of Bob Jones, CERN



Procurement Innovation for Cloud Services in Europe

TOP FIVE OBJECTIVES



Who is PICSE for?



Public Research
Organisations



Libraries

Stay Tuned!



www.picse.eu
info@picse.eu

- H2020 Coordination and Support Action
- Total budget: 500 K€
- Duration: 18 months
- Start date: 1 Oct. 2014
- Partners:



cloud
CSA security
alliance®



Trust-IT Services Ltd
Communicating ICT to markets



A simpler procurement model for cloud services

How cloud is impacting standard procurement procedures?

- ✓ Different skills and competences
- ✓ New legal-organizational issues linked to cloud service deployments
- ✓ Security and interoperability influence decisions when identifying the cloud solutions to purchase
- ✓ Risk of vendor lock-in
- ✓ Different performance & billing monitoring systems
- ✓ Vendor contract negotiation is complex and critical (no standards SLAs, contractual terms)



Standard procurement procedures of ICT services in public research organisations/libraries

PICSE outputs (June 2015)

✓ A simpler model to procure cloud services



✓ A template for the self-assessment and evaluation of procurement procedures




✓ PICSE Procurement Wizard (A web-based guide on Procuring Cloud Services)





Consulting public sector organisations: the PICSE Case Studies

Early Findings

- Organisations with expertise in the cloud can manage the procurement process easily
 - Many current procurement policies do not foresee purchasing on-demand services
 - The most widespread procurement actions concern IaaS
 - Buying IaaS, combined with an independent performance test, is similar to purchasing traditional ICT goods
 - Defining vendor neutral technical specs is challenging for SaaS/PaaS
- 
- Developing a standalone test to verify the suitability is not easy
 - A standard legal and contractual framework for cloud services does not exist
 - Dialogue with industry helps procurers to better understand what the cloud market has to offer and identify gaps
 - Joint procurement saves a lot of time, offers a larger negotiation with the vendor, unburdens legal management

Procurement trends in Europe

Open tenders



Deadline 20 February 2015

<http://ted.europa.eu/udl?uri=TED:NOTICE:424518-2014:TEXT:EN:HTML&src=0>



Deadline 1 April 2015

<https://etendering.ted.europa.eu/document/document-file-download.html?docFileId=7469>

Ongoing initiatives

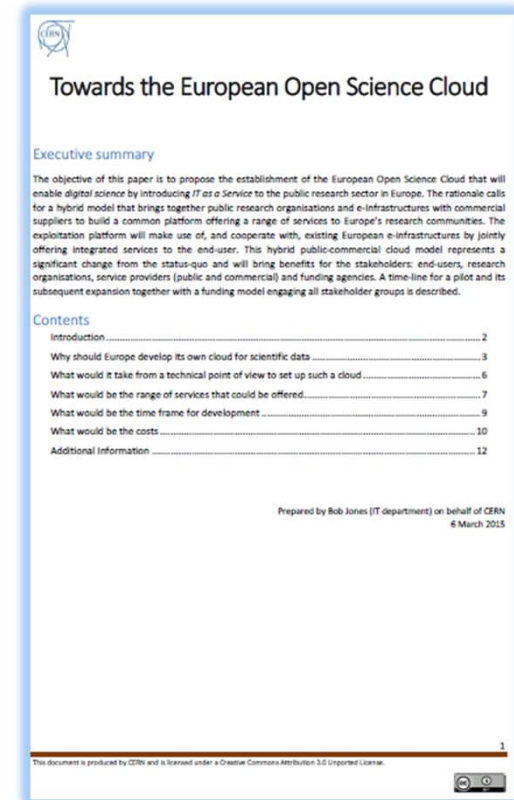


Towards the European Open Science Cloud

Address the growing needs of data intensive research

Build a common platform offering a range of services by bringing together
public research organisations
e-Infrastructures
commercial suppliers

Start with a pilot using the H2020 PCP instrument for a joint-procurement by public research organisations of cloud services in a hybrid public-private model



<https://zenodo.org/record/16001>

- EGI is a global service provider for big and open science
 - Federates digital capabilities, data, people, and knowledge
- New research infrastructures are emerging with needs for innovative services and large capacity
- Procurement frameworks are emerging
 - Public procurement, PCP, PPI, ...
- The right business models need to be established to deliver value sustainably



Members of the EGI-Engage
collaboration thank the EC for
supporting EGI