

EGI Future Plans

T. Ferrari/EGI.eu



- Development of a European cloud platform
- Technical innovation
- Business Development
- Towards e-Infrastructure Commons
- EGI-Engage

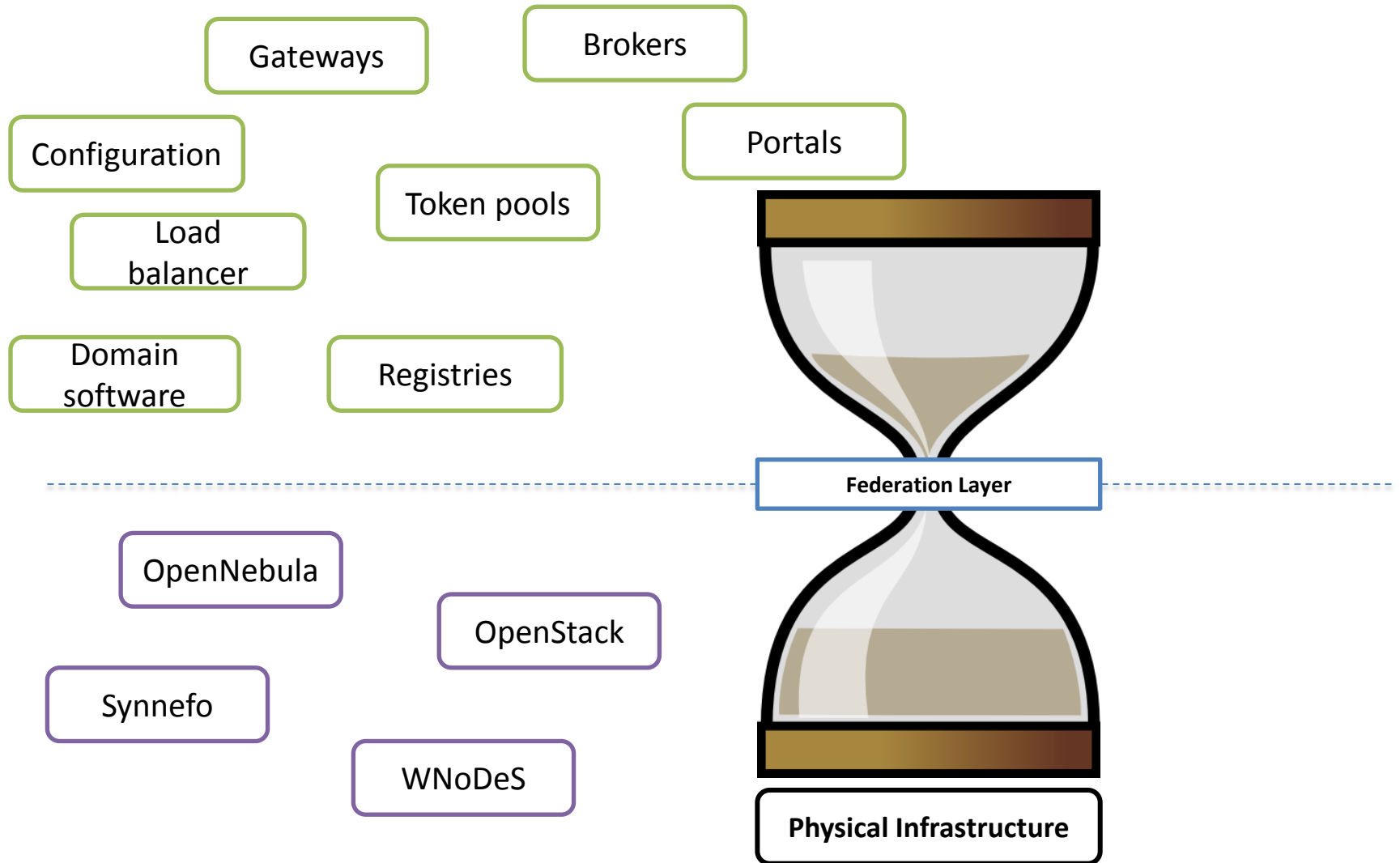
Development of a European cloud platform



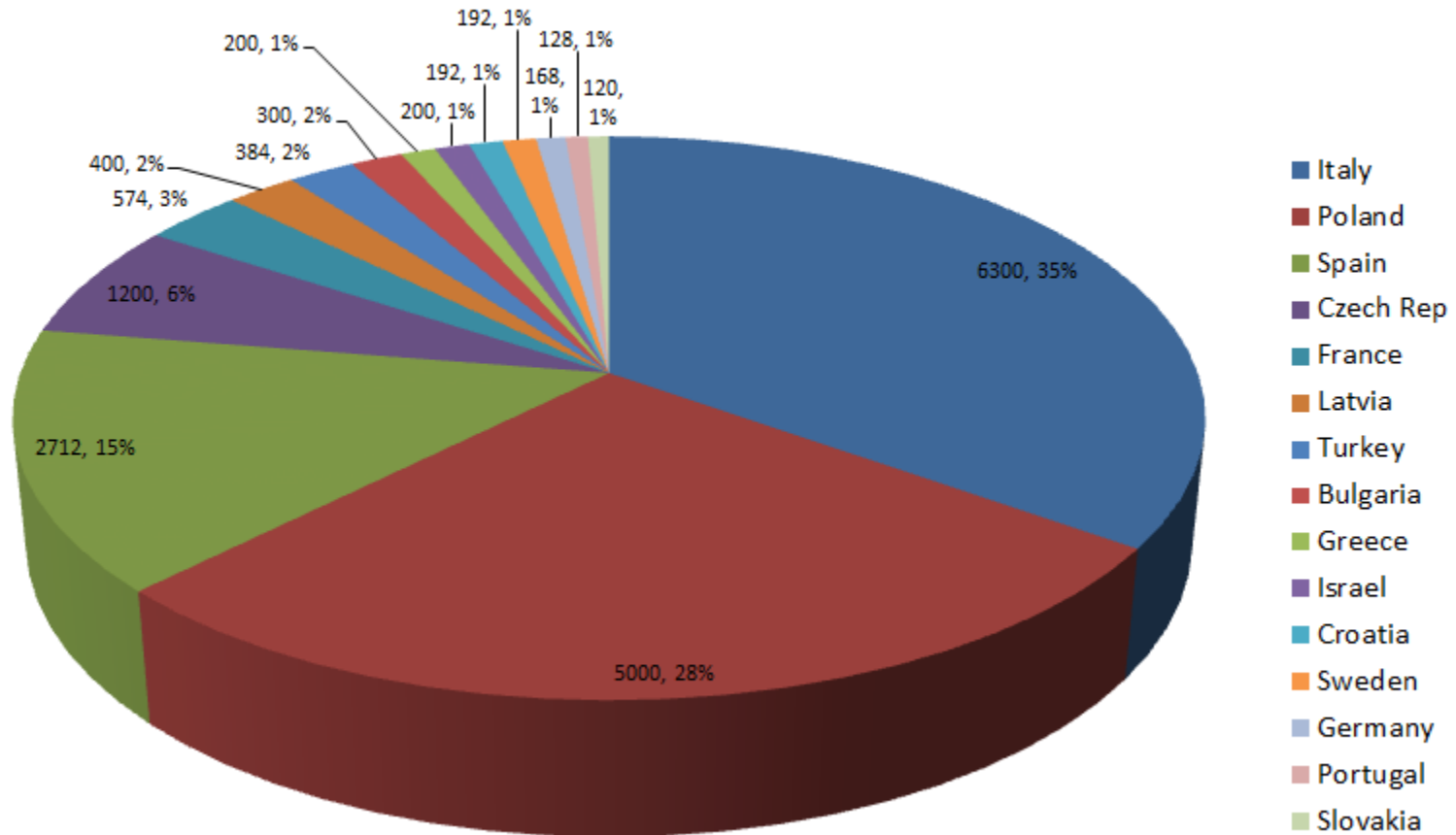
- Build a network of **trusted** cloud providers
 - compliance to **security policies** and **data privacy regulations**, **security auditing** and **certification**
- **Discoverability** of cloud services
 - service catalogue → market place
- **Ease deployment** of services from independent existing community publicly funded clouds through
 - AAI, accounting, discovery, VM management
- Address the need of **big data analysis requirements**
 - Institutional/national/community distributed data archives → cloud services move to data, discovery and brokering capabilities, VM migration → adoption of cloud open standards
 - Deploy and host community-specific services rely (PaaS and SaaS)

- Two federation profiles
 - Basic
 - Security compliance, AAI, accounting
 - Advanced
 - Adoption of cloud open standards
 - VM management
 - Cloud service information
 - SLA, availability/reliability management
- See also: [EGI Federated Cloud](#)

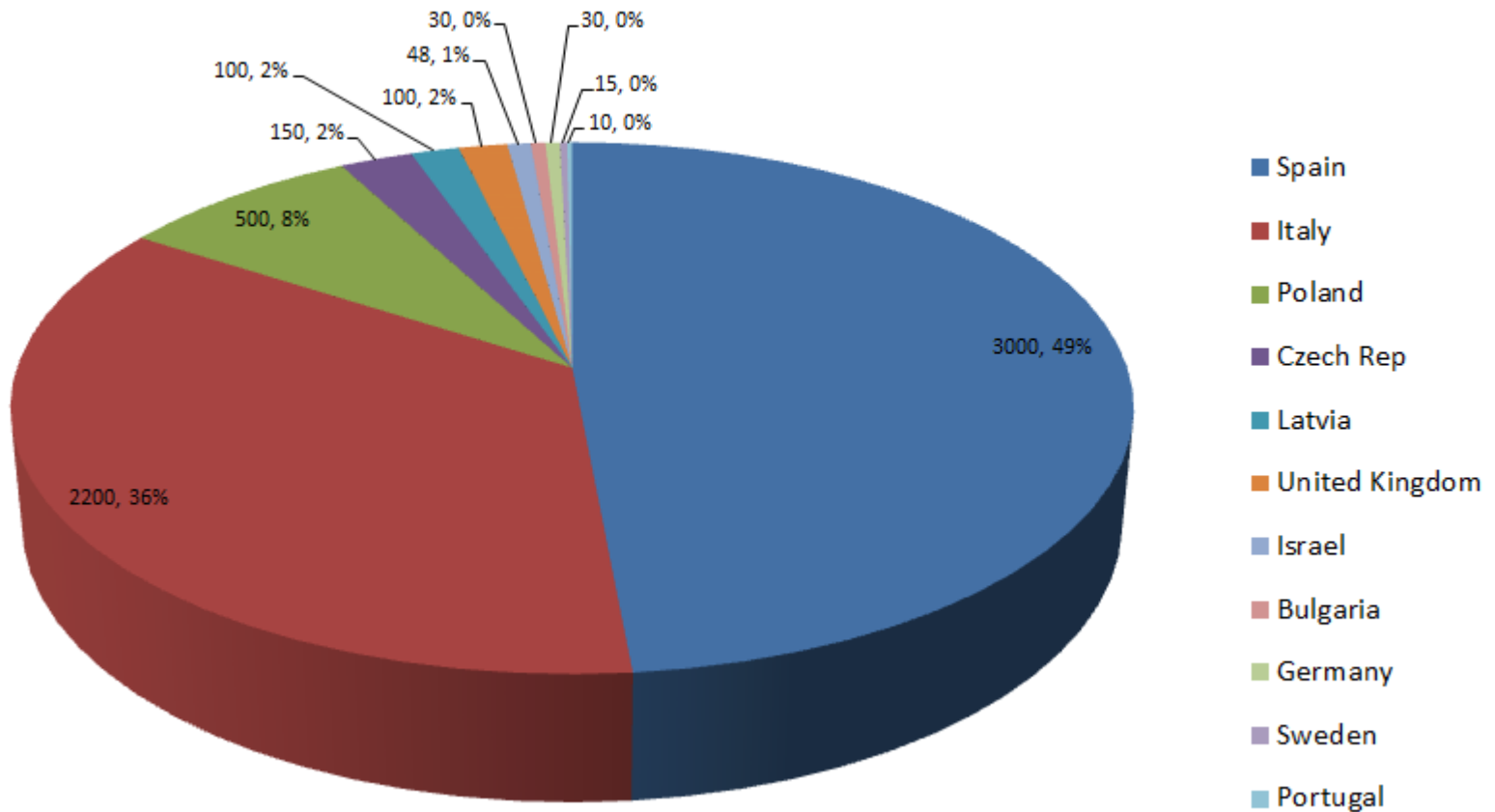
- Start of [production](#) activities in [May 2014](#)
- Complete the federation integration and extend the federated IaaS layer
 - Open standard support integration
 - Cloud and storage including personal storage, secure data storage
 - Adoption of federated IdM
- User-driven co-development of [PaaS](#) and [SaaS](#)
 - federated secure data analysis platform PaaS for commercial and scientific users on top of a standard-based Cloud IaaS federating heterogeneous cloud infrastructures
 - Development → testing → operations → market place
 - current [proof of concepts](#)
- From service catalogue to a EGI market place
 - In collaboration with other e-Infrastructures
 - Combining different business models



Federated Cloud Cores, 2014 (TOT: 18070)



Federated Storage, 2014 (TOT: 6.2 PB)



- **EGI Marketplace**
 - Rich and diverse set of community offerings
 - Application/VM Image repository
 - User community choice of provider at all levels
 - Academic and commercial resource & service providers
 - Extend to a service marketplace
- **Helix Nebula Marketplace**
 - EGI Federated Cloud as service provider
 - “Hidden” behind a single technical and policy broker
- **EU Cloud for Europe marketplace**
 - Integrate EGI’s solution and service portfolio
 - Provide services for academia, government and business

Technical Innovation



- Federated ID management
 - Improve AAI Inter-operability among existing e-Infrastructures, policy and best practices harmonisation
 - Develop/Support a set of community use cases
- Evolution of the EGI operations tools
 - Grid and cloud platforms
 - EGI operation tools towards open source projects for wider deployment across e-Infrastructures and RIs (e.g. SAM now ARGO)

A large, light purple arrow pointing upwards, positioned on the left side of the slide. The text 'Value added services for VRCs' is written vertically inside the arrow.

Value added services for VRCs

- Use federated IaaS Cloud as EGIs backbone
- Open standards for open platforms
- Innovate and deploy PaaS & SaaS on top
 - Innovate on EGI service tiers 2, 3 and 4
- Engaging in Proof of Concepts
- Strategic EC project proposals

- Establish a network of thematic and/or discipline-oriented competence centres
 - Providing training, consultancy and engaged in a number of community-oriented projects
 - Partners
 - International user communities (requirements, co-development, sustainability)
 - Developers (development, testing, sustainability)
 - Service providers (exploitation) – NGIs, RCs
 - International engagement → Europe, US, Asia Pacific and other regions (discussions in progress)
 - Distributed, European footprint, collaborating with national e-Science centres and CoEs
 - Call: April-May, selection May-June → EGI-Engage project proposal

Business Development



Model	Certification	API	Consultancy	Allocation	MSA	Accounting Reports	Invoicing
Invisible Federator	✓	✓					
Advisor	✓	✓	✓				
Matchmaker	✓	✓	✓	✓	(✓)		
Trusted Third Party	✓	✓	✓	✓	✓	✓	
One Stop Shop	✓	✓	✓	✓	✓	✓	✓

Each role has different implications in the functions and structure of EGI.eu

- **Free at the point of use**
 - accounted resource consumption, best effort support, no direct reimbursement of accrued costs
- **Try before you buy**
 - Limited access to free resources, expires after defined time.
 - Facilitates conversion rate from user to customer
- **Pay-as-you-go**
 - Fixed price per consumption unit, fees directly correlate with consumed resources
- **Wholesale resource guarantee**
 - Soft-quota, 2-tier cost plan: Resources within quota paid as you go on wholesale price, overdraft within limits costed at pay-as-you-go plan
- **Reserved resources**
 - Exclusive resource reservation up to agreed limits. Overdraft not allowed, fixed payments

- **Basic**
 - Managed through EGI OLA framework
 - Available at all Cloud service providers
 - “Free at the point of use” billing plan and higher
- **Advanced**
 - Available on a subset of Cloud service providers
 - “Pay-as-you-go” plan or higher
- **Custom/Premier**
 - Tailored to community requirements
 - Advanced SLAs subject to research and innovation
 - Applicable to subset of providers

Towards E-Infrastructure Commons



- Ensuring continued e-Infrastructure technical and operations coordination
- Common service catalogue
- Coordination on training, outreach, user forum through the distributed competence centres

- March. Consultation with council members
- Objectives agreed
 - Coordination of operations, software provisioning, tool development, user engagement
 - User-driven innovation for provisioning of new services (compute and data)
 - Development of the grid and cloud platform
 - EGI market place and business development
 - International cooperation with other e-Infrastructures
- Consortium
 - Strong user community participation, NGIs, technology providers
- Out of scope
 - EGI central operations services no longer supported through EC funding as of 01 May, relying on EGI council fees (40%) and NGI in-kind contributions (total cost: 1.5 MEuro) - https://wiki.egi.eu/wiki/Core_EGI_Activities
 - NGI operations (35% EC funding in EGI-InSPIRE until April 2014)

- Editorial board core defined /T. Ferrari coordinating
- Mid Apr: call for competence centres
 - Proposing projects with user communities for innovation
 - Providing support and training
 - with involvement of other e-infrastructures
- May: submissions of competence centre proposals
- June: evaluation
- Proposal preparation
 - I draft for council discussion at the May meeting (CF2014)
 - 30/06: II draft for council review
 - 31/07: III draft + budget