

Vision for European DCIs

Steven Newhouse

Project Director, EGI-InSPIRE

Call 7 DCI Projects

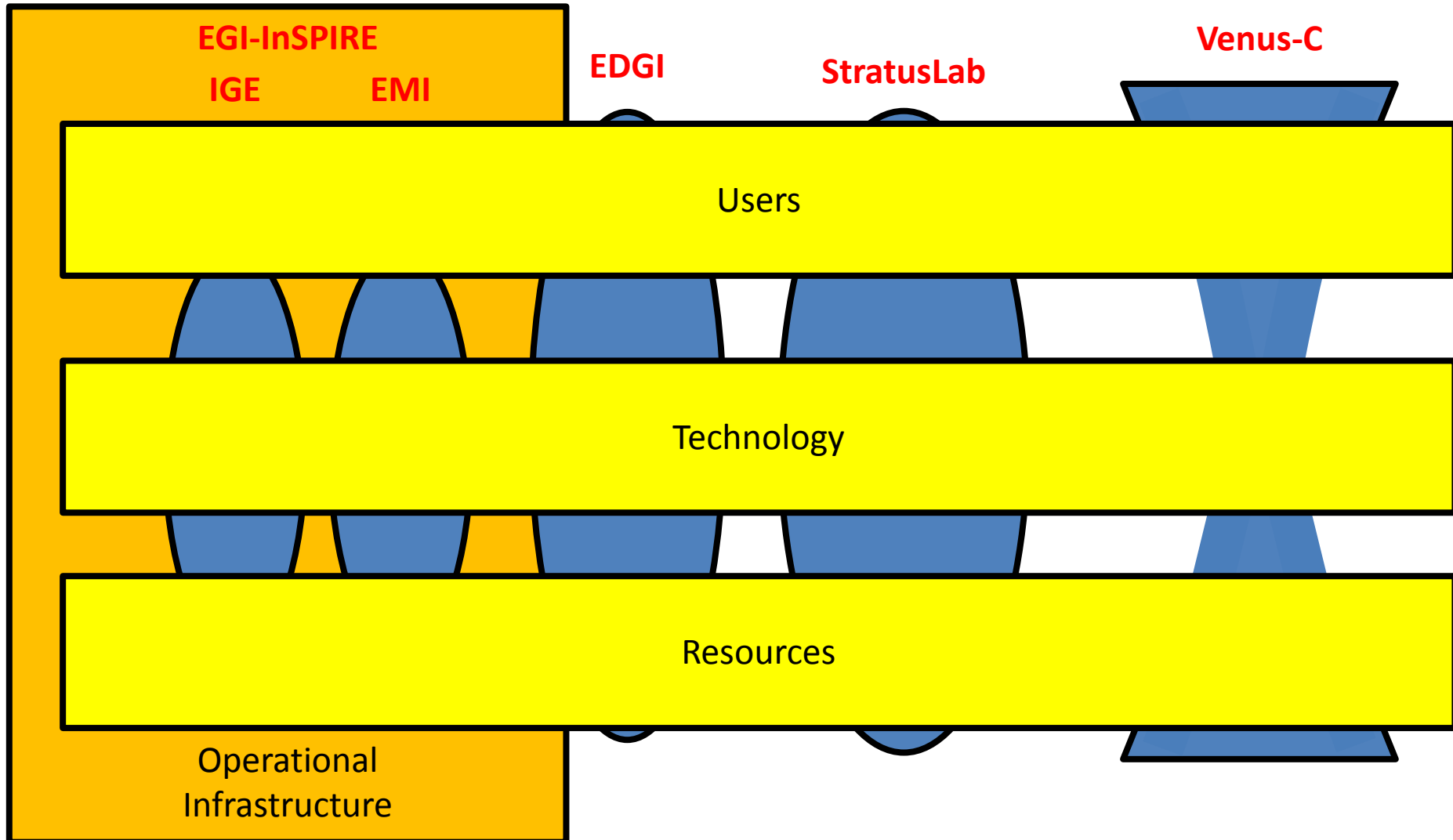
| Project | EGI-InSPIRE | EMI | IGE | EDGI | StratusLab | VENUS-C |
|------------------------------|--------------|--------------|-------------|-------------|-------------|-------------|
| Start Date | 01/05/2010 | 01/05/2010 | 01/10/2010 | 01/06/2010 | 01/06/2010 | 01/06/2010 |
| Duration (months) | 48 | 36 | 30 | 24 | 24 | 24 |
| Total Budget | 72,000,000 € | 24,000,000 € | 3,693,000 € | 2,436,000 € | 3,137,221 € | 8,803,046 € |
| Funding from the EC | 25,000,000 € | 12,000,000 € | 2,350,000 € | 2,150,000 € | 2,300,000 € | 4,500,000 € |
| Total effort in person-month | 9241 | 2236 | 277 | 281 | 340 | 639 |

- Alignment across the community
 - Technology
 - Deployments
 - Standards
- SIENA: **S**tandards and **I**nteroperability for **e**-Infrastructure impleme**n**tation initi**a**tive
 - Community driven standards roadmap
 - Integration of Grid and Clouds





<https://documents.egi.eu/document/172>



- Sustainability of e-Infrastructures has not been clear
For multi-year projects this is a risk – addressed partially by EGI
- Advances in ICT have matched data analysis needs
ESFRI and related projects will push these boundaries
- Computation beyond the desktop is still very hard
Virtualisation and new computing models will simplify this task
- Service offerings do not match needs of new users
Meet needs through a flexible federated production infrastructure
- Value, benefits and costs need to be exposed
Compare costs & features of public & commercial offerings

- Compute resources near storage resources
 - Co-locate the processing near the data
- ‘Free’ High Speed Networks
 - Massive bandwidth allows data to be moved
- Ability & processes to share resources
 - Over a decades experience of building trust
- Close links to data-oriented users
 - Data use and patterns unique to researchers

A Virtualised Future?

End-User Technology Experts
(National, European & Global Collaborations)



Infrastructure Providers
(Research & Commercial – National, European & Global)

A Virtualised Future?

VO Specific Operations Staff



Virtual Op

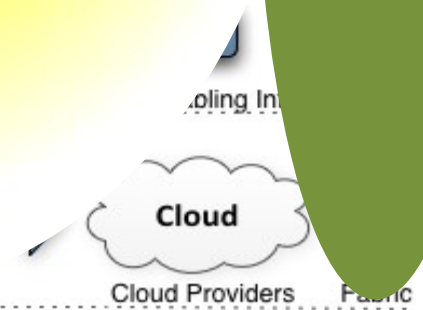
EMI & IGE

EDGI

EGI

StratusLab

Venus-C



Which leaves us where?

- Able to meet the challenges of scaling out to new communities with diverse needs
- Brings the definition & selection a software environment to the end-user
- Gradual migration from real to virtualised services
- Deployment of innovative ICT developed within Europe

Questions?

EGI User Forum 2011

11-15 April
Vilnius, Lithuania



European Middleware Initiative

Hosts: NGI LitGrid, presented by
Vilnius University and Baltic Amadeus
infrastruktūros paslaugos (BAIP)

Organisers: AIM Group Baltic UAB

- Call for participation
 - <http://uf2011.egi.eu>
- Join programme committee
 - User Communities
 - VRC Projects
 - Collaborating projects
- Contact:
 - Steven Newhouse
 - director@egi.eu