



EDGI

European Desktop Grid Initiative

<http://edgi-project.eu>

NA2

2011-10-24

Start date: 2010-06-01

Duration: 24 months

EDGI consortium

EDGI is supported by the FP7 Capacities Programme under contract nr RI-261556





EDGI/DEGISCO/IDGF





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Start - International Desktop Grid Federation

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On the EDGE

EDGI and VENUS-C sign MoU at EGI Technical Forum in Lyon

9/28/11 8:46 AM

On Friday 23 September 2011, EDGI and VENUS-C have signed a Memorandum of Understanding at the EGI Technical Forum in Lyon, France. "As part of this new cooperation agreement with EDGI, VENUS-C will provide support and access to Cloud resources, including two Pilots recruited through the Open Call, while benefiting from EDGI support to interested users of VENUS-C. We are very excited about creating closer links with EDGI as part of a 'win-win' strategy that will generate new know-how by sharing experiences gained on both sides", stated Andrea Manieri, VENUS-C Project Director. "The partner agreement with VENUS-C is quite essential for EDGI as it will bring the Desktop Grid infrastructure into the Cloud. VENUS-C will provide EDGI with the required Cloud resources, thus allowing EDGI to improve the Quality of Service of its production infrastructure. On the other hand, EDGI is most happy to assist VENUS-C in deploying in the Cloud images of OpenNebula with BOINC client applications. In this way, both partners will deliver best-of-class efforts to reinforce and

EDGI

EDGI will develop middleware that consolidates the results achieved in the EDGeS project concerning the extension of Service Grids with Desktop Grids (DGs) in order to support European Grid Initiative (EGI) and National Grid Initiative user communities that are heavy users of Distributed Computing Infrastructures (DCIs) and require an extremely large number of CPUs and cores. EDGI will go beyond existing DCIs that are typically cluster Grids and supercomputer Grids, and will extend them with public and institutional Desktop Grids and Clouds. EDGI will integrate software components of ARC, gLite, Unicore, BOINC, XWHEP, 3G Bridge, and Cloud middleware such as OpenNebula and Eucalyptus into SG-DG-Cloud platforms for service provision and as a result EDGI will extend ARC, gLite and Unicore Grids with volunteer and institutional DG systems.

DEGISCO, EDGI & EDGeS

EDGI will develop DG-Cloud bridge middleware with the goal to get instantly available additional resources for DG systems if the application has some QoS requirements that could not be satisfied by the available resources of the DG system. EDGI will improve Desktop Grid middleware (BOINC and XtremWebHEP-E) in order to handle QoS requirements and the SG-DG bridge middleware in order to support data-intensive applications. EDGI will deploy a production infrastructure that integrates ARC-, gLite- and Unicore-based Grids with Desktop Grids based on the bridge middleware developed in EDGI.

The production EDGI infrastructure will also enable the dynamic, on-demand extensions of the connected Desktop Grids with Cloud resources. As such EDGI users can benefit of the versatile and flexible eco-system provided by EDGI. The EDGI production infrastructure will be offered as service for EGI and NGI user communities. It will also serve as a demonstration for NGIs to extend their eco-system with Desktop Grids and Clouds. EDGI will establish a European Desktop Grid federation to coordinate DG-related activities in Europe both for solving technical issues as well as to attract volunteer DG resource donors by disseminating results of the EDGI and





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DEGISCO Desktop Grids For International Scientific Collaboration

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DEGISCO Digest

Jubilee 10th IDGF workshop at Universiti Putra Malaysia

10/13/11 12:20 PM



A successful Desktop Grid workshop was conducted on 27 until 30 September 2011 in Universiti Putra Malaysia (UPM) in the framework of an initiative from UPM and IDGF to promote Desktop Grid technology among Malaysian researchers and also service grid operators. The workshop started with an open seminar delivered by Dr. Robert Lovas from MTA-SZTAKI, remote presentation from Prof. Stephen C. Winter from University of Westminster, UK and Dr. Rohaya Latip from Universiti Putra Malaysia. The open seminar was attended by 52 participants and followed by a 3-day workshop with hands-ons that was attended by 23 participants. The outcome from the workshop are two desktop grid deployment plans from UPM and University of Technology Petronas (UTP) and one identified application to be ported and running on the desktop grid infrastructure from University of Technical Malaysia Melaka (UTeM).

Source: Dr. Rohaya Latip (UPM)
More info: <http://idgf.upm.edu.my/DesktopGrid>

DEGISCO

The FP7 **EDGeS** project has successfully set up a production-level distributed computing infrastructure (DCI) consisting of more than 100.000 PCs from several volunteer and low-cost Desktop Grids, which have been connected to existing Service Grids (including EGEE, SEE-GRID, etc. with about 150.000 processors) based on the new 3G Bridge technology and application development methodology. The main aim of the DEGISCO project is the further extension of the European DCI infrastructure that is already interconnected by EDGeS to International Cooperation Partner Countries (ICPC) in strong collaboration with on the one hand local partners in ICPC countries and on the other hand European e-Infrastructure experts (including 3G Bridge know-how) and thus, reinforce the global relevance and impact of European distributed infrastructures. The dissemination and training activities promote via various channels such interoperation between Desktop Grid and Service Grid infrastructures on a global scale, which leads to more awareness under the general public of computational science and distributed computing co-funded by the EC. As a result more citizens, students, and companies are expected to donate resources to scientific purposes. As part of these activities the International Desktop Grid Federation is operated allowing for effective exchange of information through participation.

DEGISCO, EDGI & EDGeS



Supercomputer based service grids
Cluster based service grids
Volunteer or organisational desktop grids
Academic Cloud Of Computers
European Union
Worldwide

DEGISCO | EDGI | EDGeS

International Desktop Grid Federation

IDGF DEGISCO supports the International Desktop Grid Federation. IDGF brings together Desktop Grid operators, developers, organisations and companies working with Desktop Grids and intergration with other infrastructures through EDGeS Bridge Technology.





EDGI/DEGISCO/IDGF

Start - International Desktop Grid Federation

http://desktopgridfederation.org/start?p_p_id=33&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=_118_IN: [RSS] [Star] [Google]

Start - International Desktop Grid Federation

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Latest news (Start)

[Siberian branch of RAS to launch SAT@home](#)

10/18/11 8:21 AM

The Siberian branch of the Russian Academy of Sciences (RAS) has successfully launched SAT@home. SAT@home is a research project that uses Internet-connected computers to solve difficult and practically relevant problems, such as discrete functions inversion problems, discrete optimization, bioinformatics, etc., that can be effectively reduced to satisfiability (SAT). Satisfiability is the...

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By Leslie Versweyveld

[RSS \(Opens New Window\)](#)

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Start

The International Desktop Grid federation brings together every one interested in the world in Desktop Grid computing and related technologies.

- Read the latest version of the "Desktop Grids for eScience Road map"
- Apply for membership
- Meet us at the next events: 8th IDGF work shop in Hannover; EGI TF in Lyon

Spotlight

Prev Play Next

The first year of DEGISCO - Robert Lovas

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Join

[Join today our:](#)

- 175 Individual members
- 35 Organisational members

Proud participant of

Get News

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IDGF on Twitter

On Twitter

Find members

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Become member

Apply for membership today:

- [Membership application form](#)

Find volunteers

Are you operating a Volunteer Desktop Grid and want to increase the





Branding

- ▶ IDGF brand for general communication activities
 - ▶ With appropriate acknowledgement of EDGI support, and EC support
- ▶ EDGI for project related information
 - ▶ Plans, work done, partners, EC support





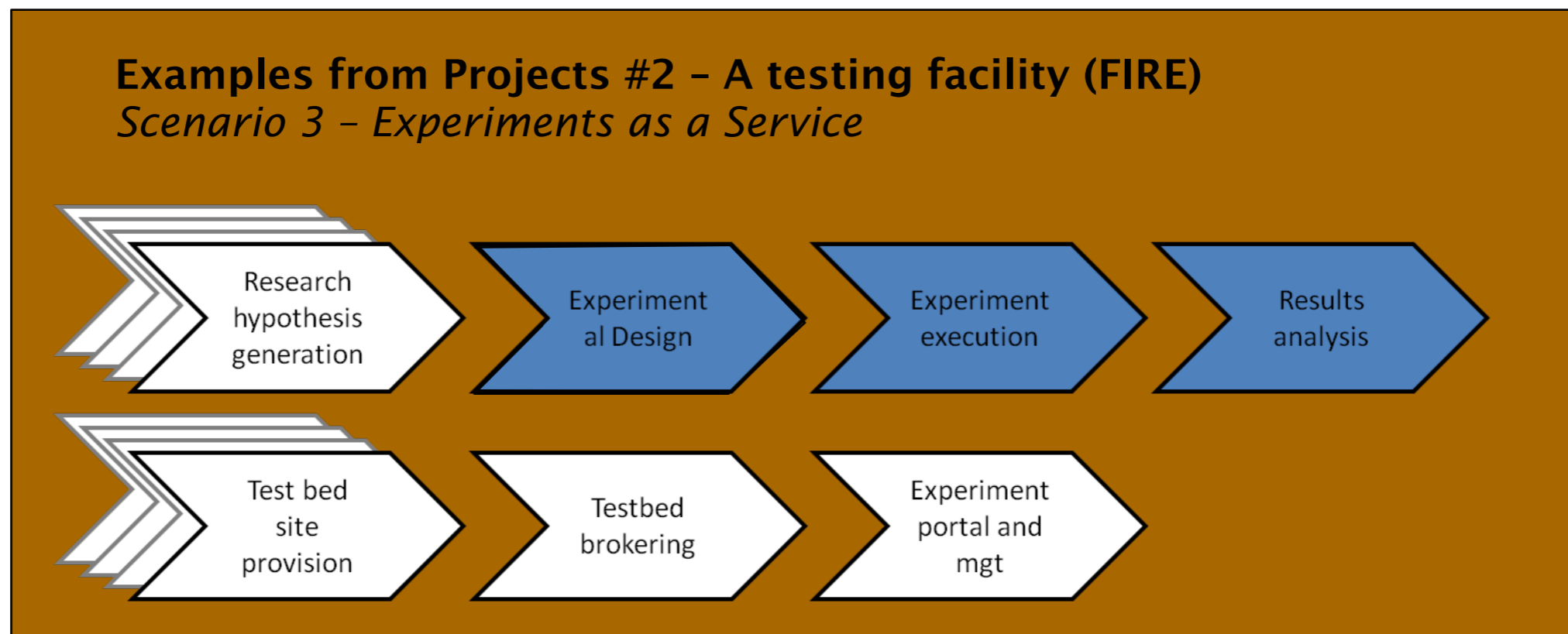


Initial analysis



Explore use of value chain analysis

- ▶ Classical business tool
- ▶ Atos claims it also works for (European) projects too
- ▶ Tool to identify exploitable components, and join them into a sustainable business





Activities in our value chains

- ▶ Cost activities
- ▶ Revenue generating activities
- ▶ External 3rd party activities
- ▶ EDGI project, DEGISCO project,
International Desktop Grid Federation





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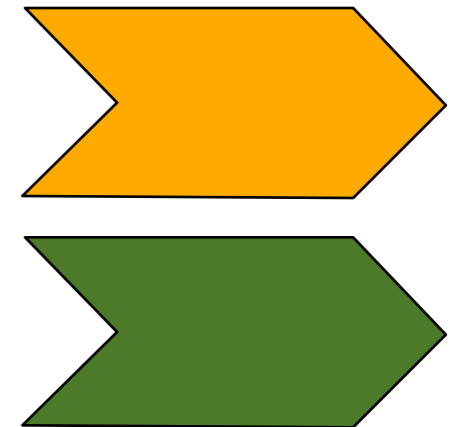
Activities in our value chains

▶ Cost activities

▶ Revenue generating activities

▶ External 3rd party activities

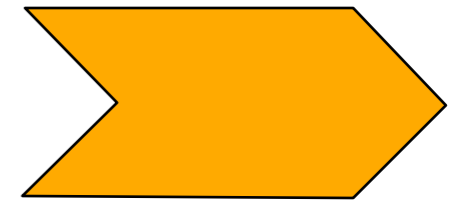
▶ EDGI project, DEGISCO project,
International Desktop Grid Federation





Activities in our value chains

▶ Cost activities



▶ Revenue generating activities



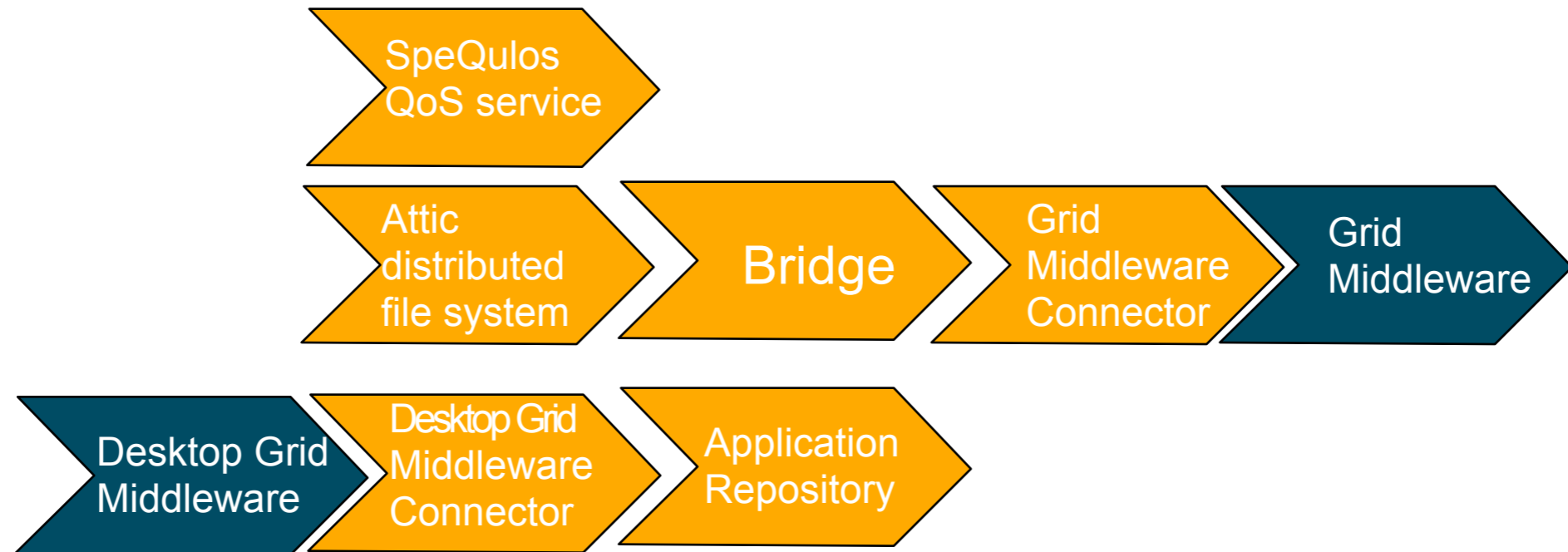
▶ External 3rd party activities



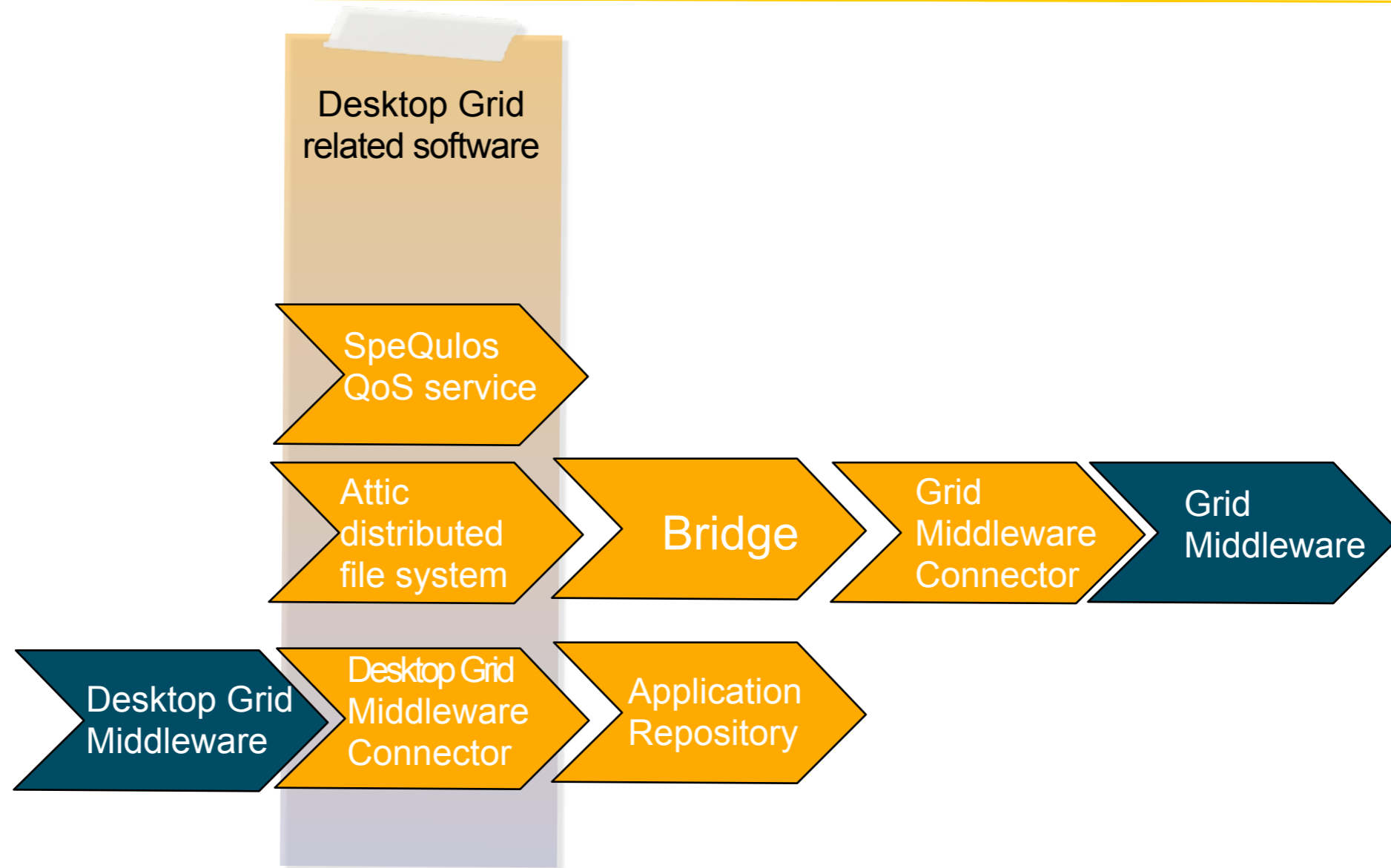
▶ EDGI project, DEGISCO project,
International Desktop Grid Federation



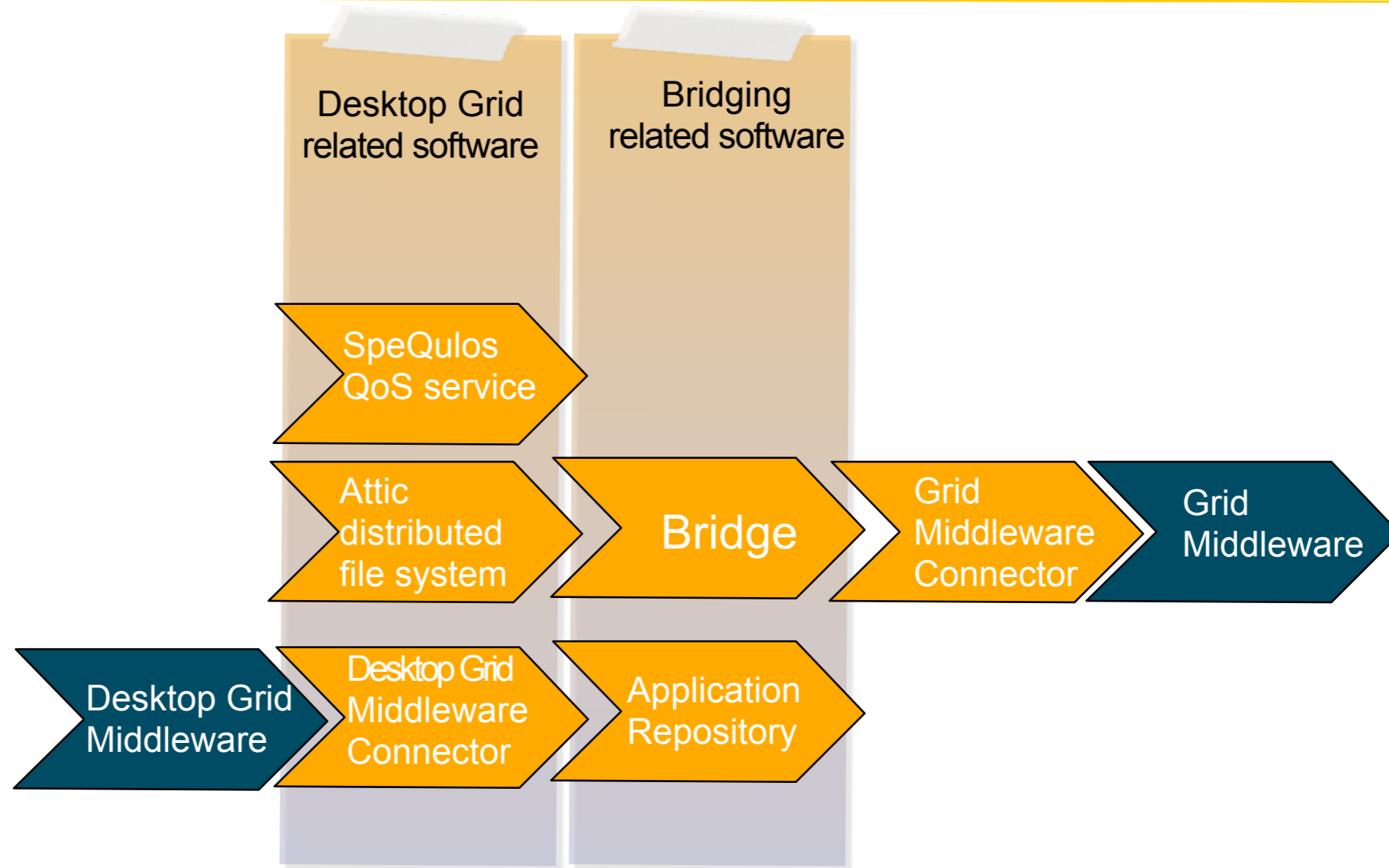
Software value chain overview



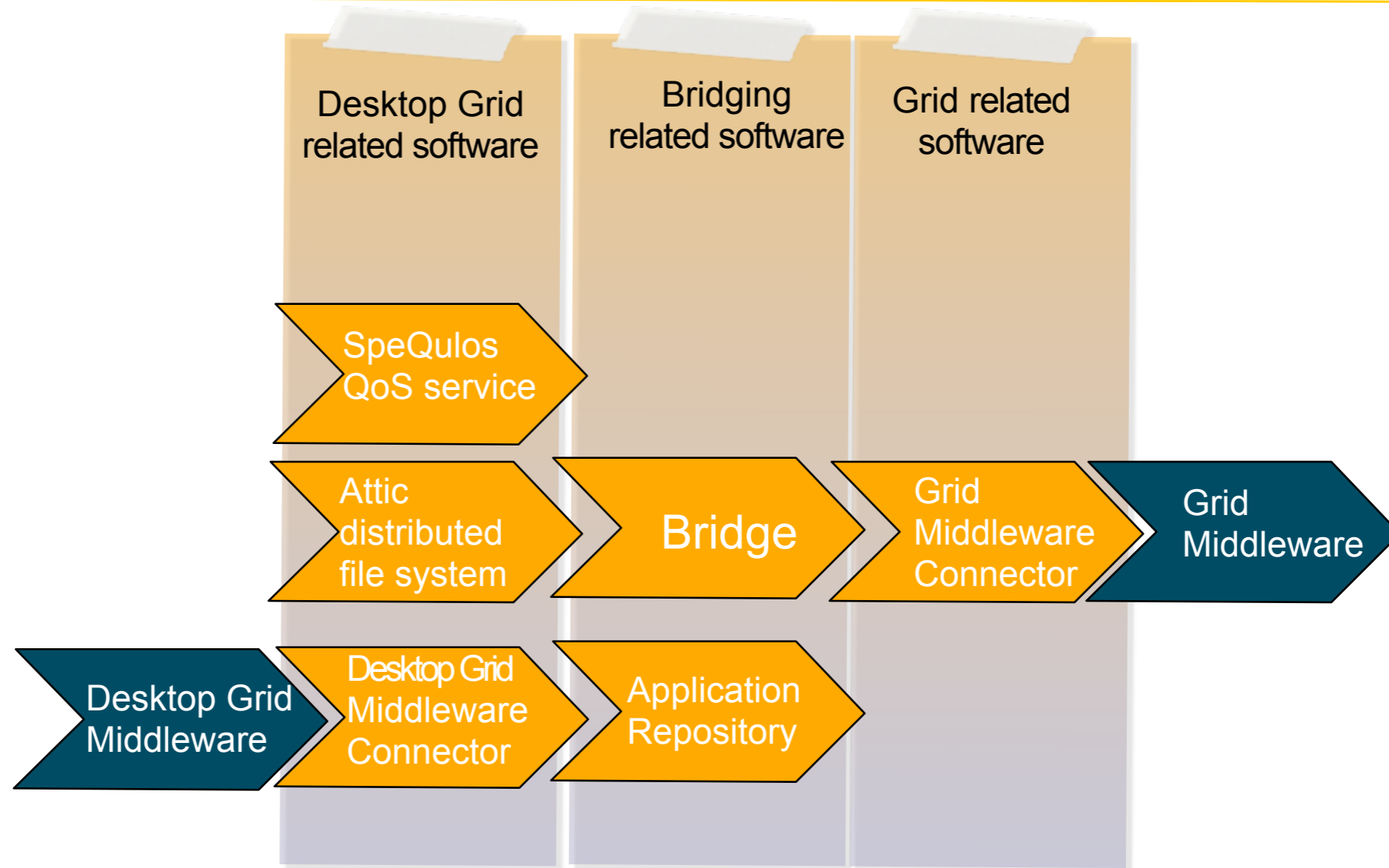
Software value chain overview



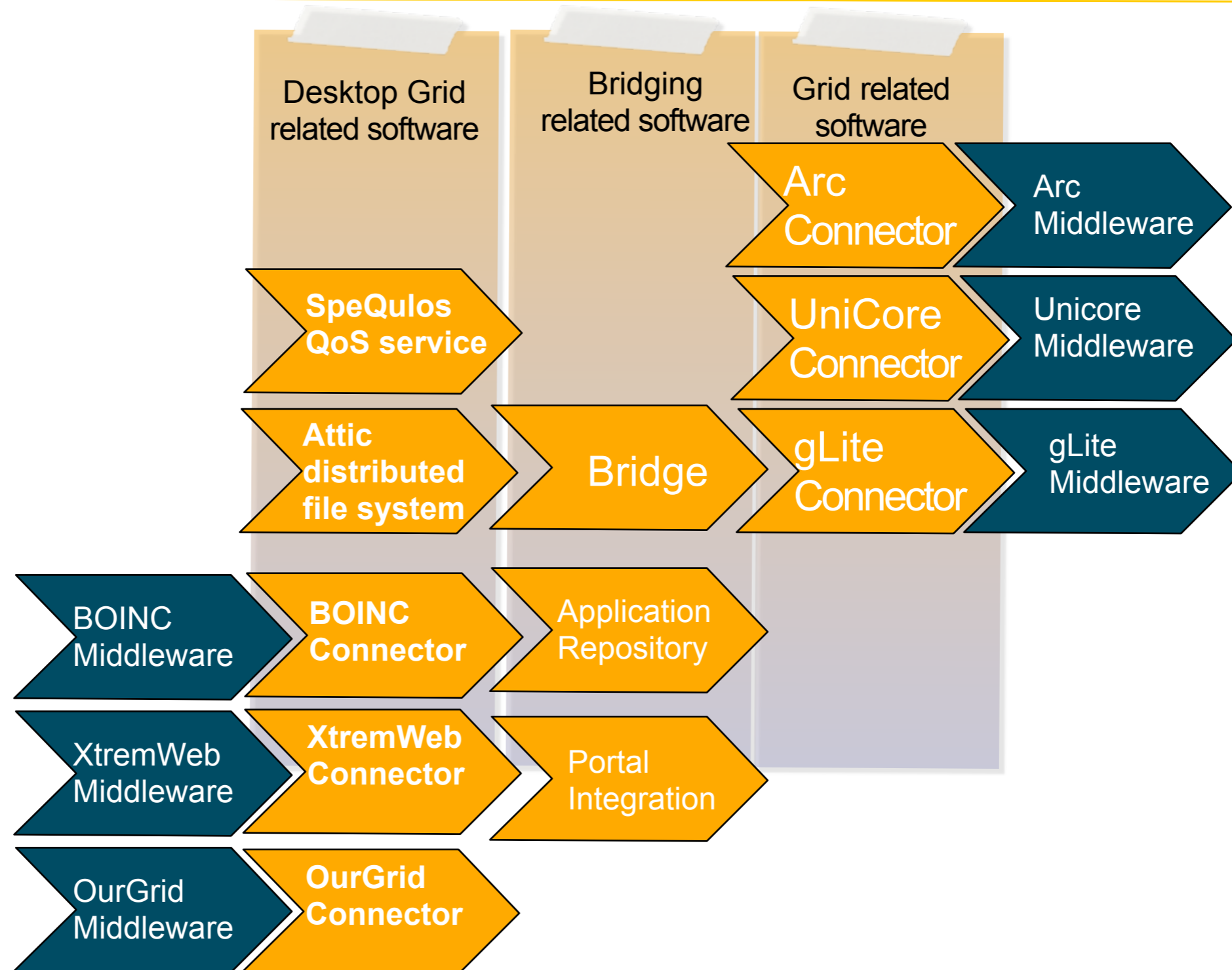
Software value chain overview



Software value chain overview

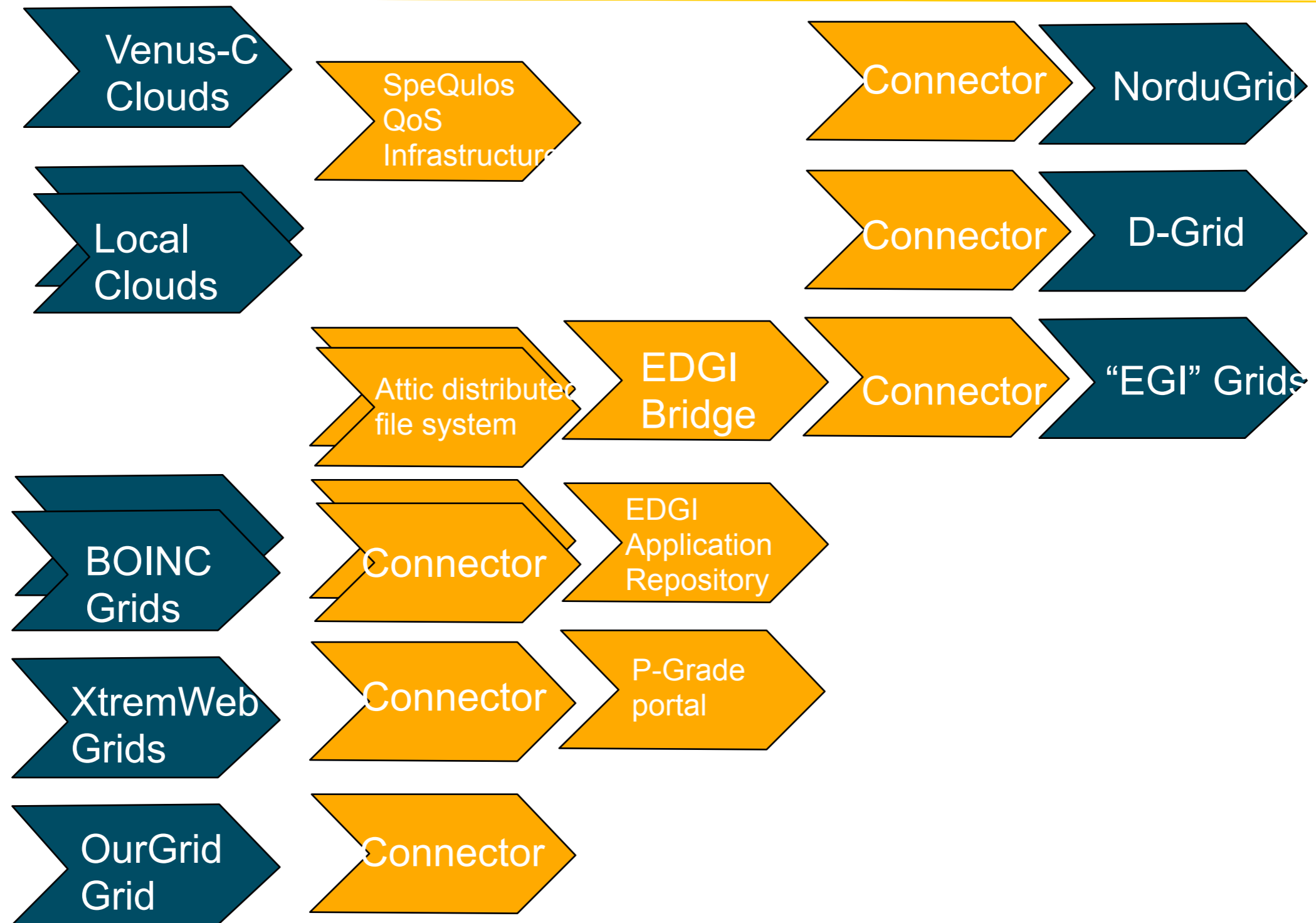


Software value chain a bit more detail



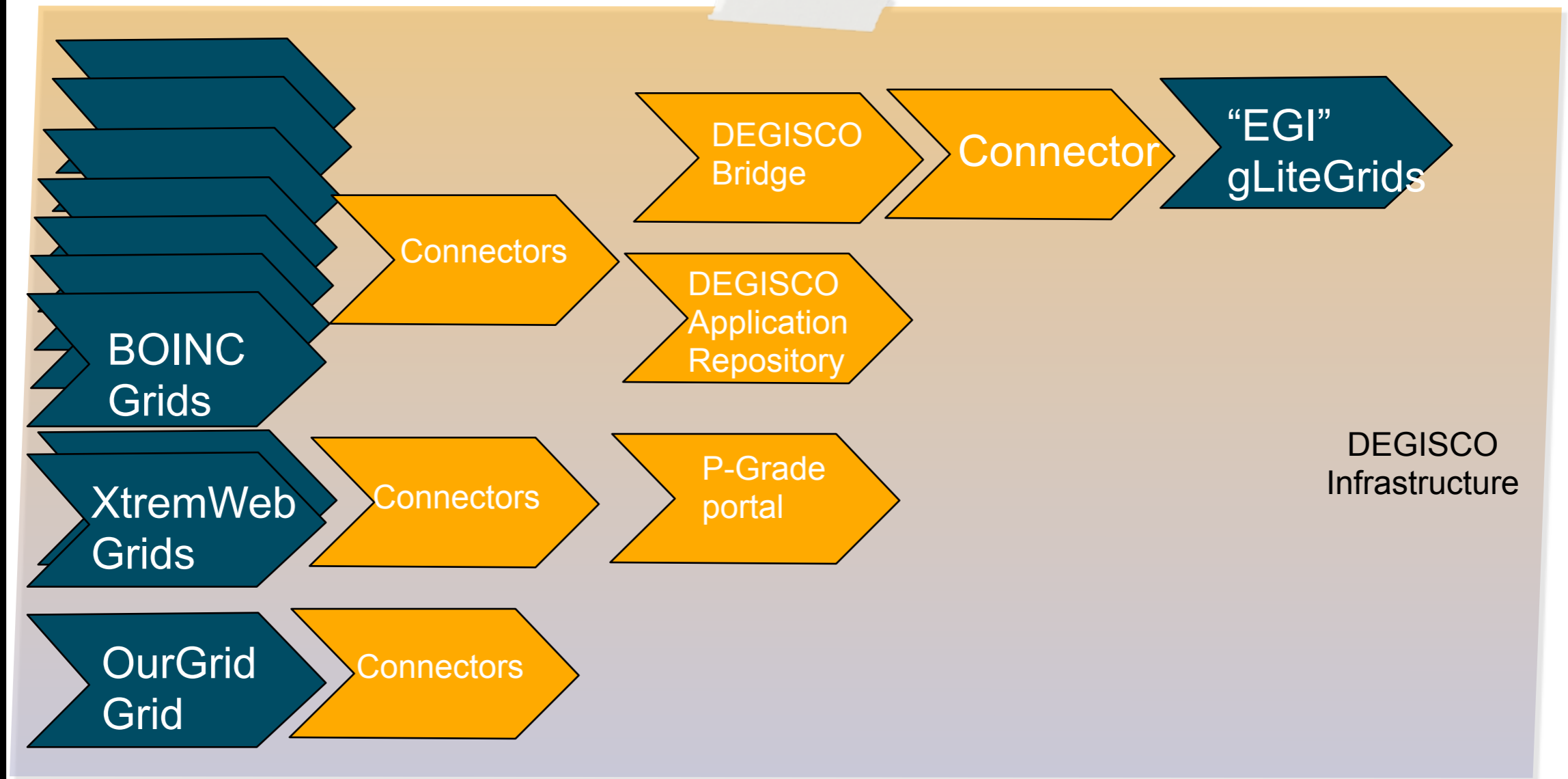


Infrastructure value chain EDGI



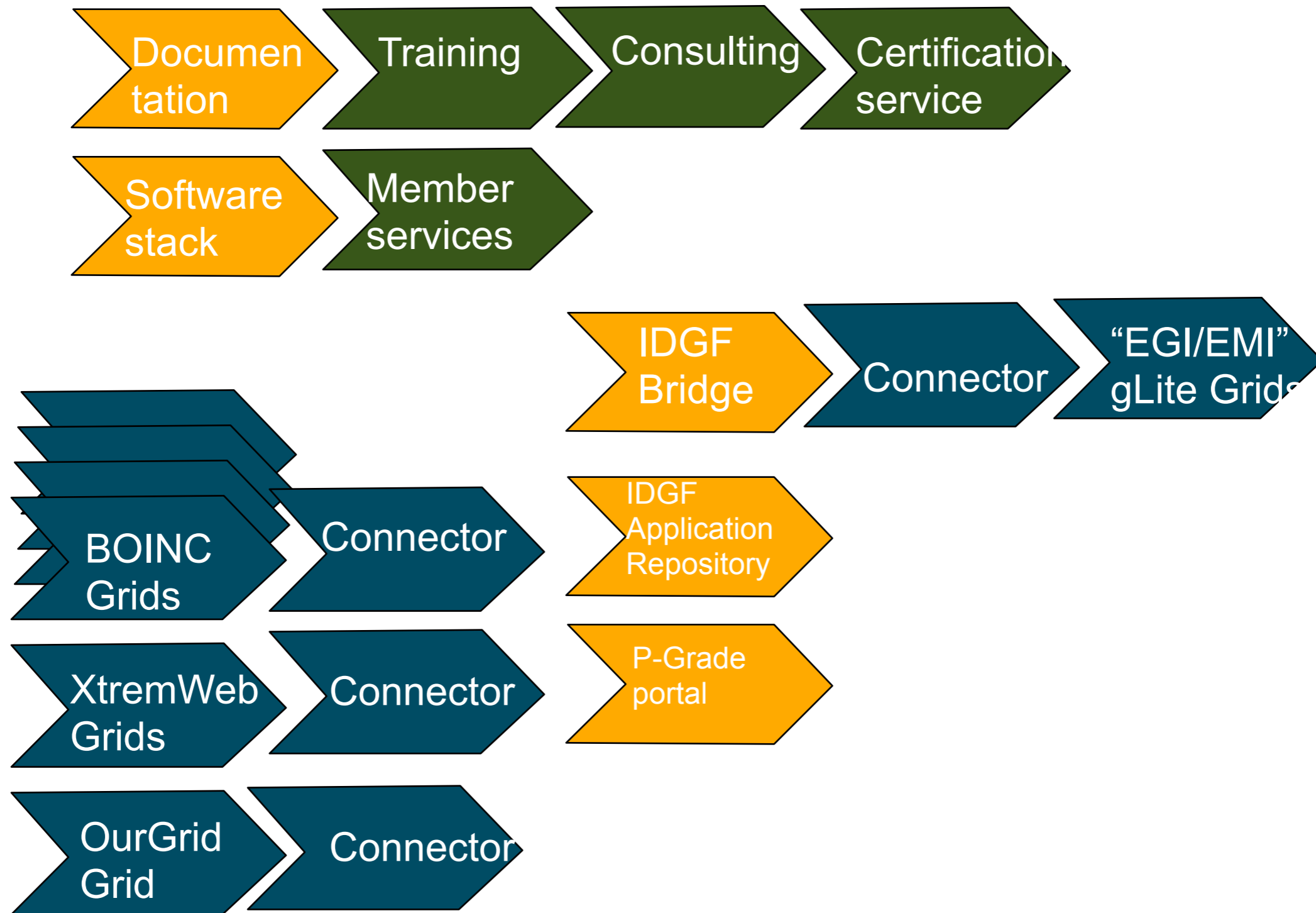


Infrastructure value chain DEGISCO





IDGF value chain plan after projects end





Initial analysis









IDGF & sustainability plans





IDGF Initial Business model - Objective and Mission

- ▶ The International Desktop Grid Federation (IDGF) brings together organisations and persons interested in Desktop grid computing and related technologies.
- ▶ Focuses on *application developers* and *Desktop grid operators*.
- ▶ IDGF is a member organisation that provides services for its members (legally: participants).
- ▶ IDGF brings them together, so they can get better information, documentation and training, a platform to exchange experiences.
- ▶ IDGF serves as a marketing channel for its members





IDGF Market analysis

- ▶ Profile of organisations that could join IDGF and benefit from paying membership fee:
 - ▶ Organisations that support scientific users (like NGIs)
 - ▶ Technology experts (like some EDGI/DEGISCO partners) that provide expertise
 - ▶ Marketing and communication experts (like some EDGI/DEGISCO partners) that provide expertise
 - ▶ Desktop Grid operators that operate an (isolated) Desktop Grid
 - ▶ Universities and Research organisations' IT departments that want to lower their costs.



Saving GBP 500.000 over 4 years



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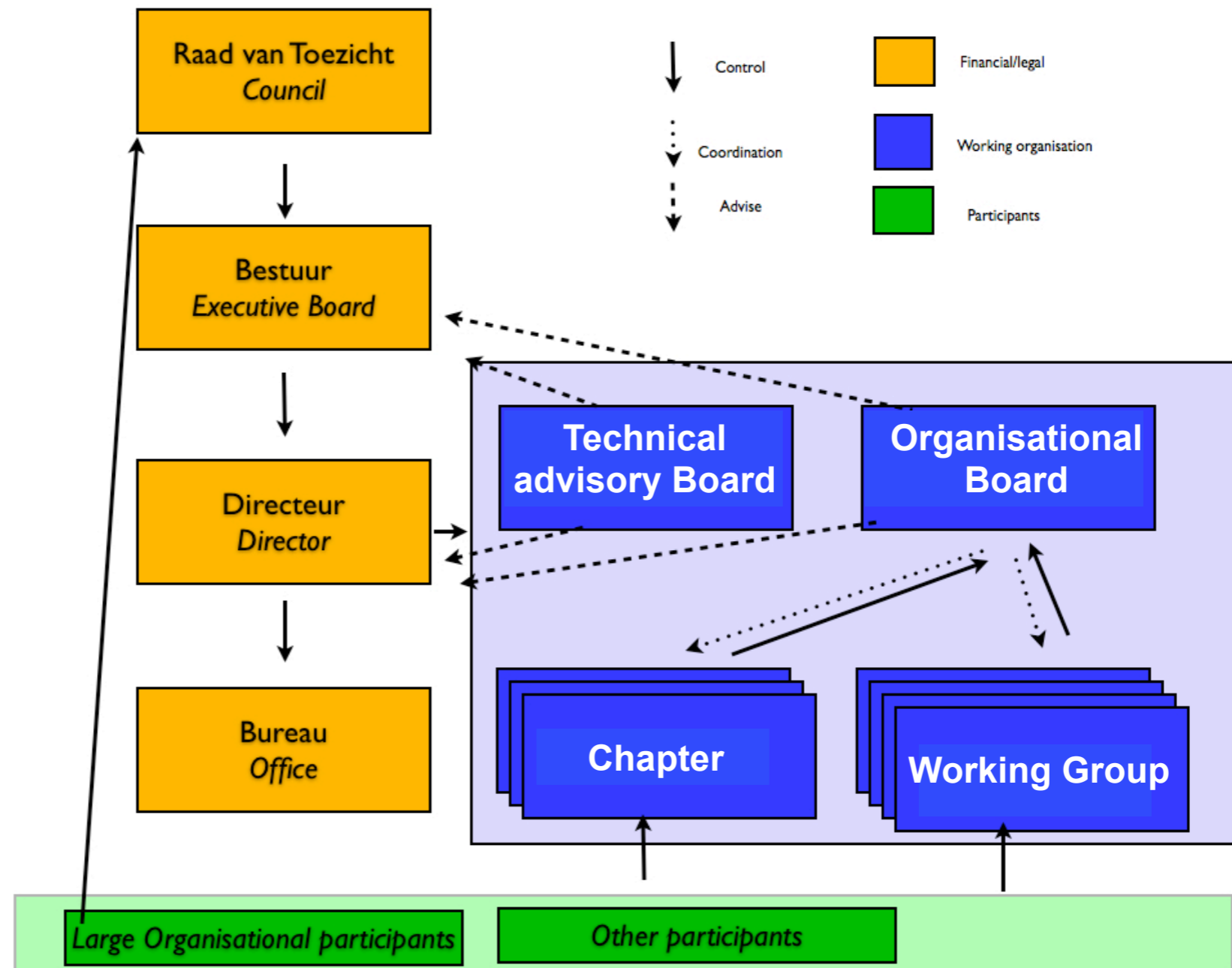
University of Westminster launches new DIY supercomputer saving hundreds of thousands of pounds

29-03-2011

- UK Universities could be sitting on the resources needed to save institutions millions of pounds
- System uses spare PC capacity to generate calculations
- Development can help universities, pharma and healthcare companies to save money and speed up crucial research

The University of Westminster has launched the UK's first BOINC-based (the Berkeley Open Infrastructure for Network Computing) desktop grid system that connects university teaching laboratory PCs into a university-wide high-performance computing infrastructure. This powerful network restricts the need for universities to purchase supercomputers, the value of which can run into millions of pounds. Universities across the UK are investing in increasingly powerful computing resources to support the work of their research scientists and in doing so they have to invest every three or four years in a new supercomputer. Conservative estimates from academics at the University of Westminster put potential savings for universities using the desktop grid system at £500,000 every four years, a significant amount for universities trying to minimise costs, particularly in the current environment.

Legal structure of IDGF



General IDGF core services



Service	Participant of IDGF	Others
Access to external portal	Free	Free
Access to participant list	Free	No
Become member of a working group	Free	No
Become member of a Chapter	Free (if it fits the chapter)	No
Access to message boards	Free	Free/Restricted
Access to technical documentation	Free	Free/Restricted
Access to experts	Free/Reduced fee	Full Fee
Access to events	Number of free tickets/ sometimes reduced fees	Full Fee





Different member categories

Category	Voting rights Council	Voting rights Technical Board	Access to closed part of Portal	Description on open part of the portal	Advertise services to IDGF participants	Using and adapting IDGF generated marketing material	Provide IDGF certified services	Number of free access tickets to IDGF events (per year. estimate)
A	√	√	√	√	√	√	√	10
B		√	√	√	√	√	√	5
C			√		√	√		2
D (persons)			√					1





EDGI/DEGISCO partners

Exploitation plans

- ▶ Based on IDGF as a marketing organisation
- ▶ Being member Category A or B, offers the opportunity to advertise your service and expertise
- ▶ Individual partners will create bigger revenues than cost of IDGF participant ship
- ▶ Of course, not all project partners will opt for that, because some create a specific piece of software, or contribute specific research in the project





IDGF & sustainability plans









End





DEGISCO facts

Contract n°:	RI-261561
Project type:	CSA-SA
Start date:	01/06/2010
Duration:	24 months
Total budget:	871,702 €
Funding from the EC:	800.000 €
Total funded effort in person-month:	320
Partners:	MTA SZTAKI, HU; CNRS, FR; UNIZAR-IBERCIVIS, ES; ALMEREGRID, NL; UoW, UK; ASGC, TW; ISA RAS, RU; IMP, UA; KBTU, KZ; UFCG, BR; HUST, CN; ATOS ORIGIN, ES
Project website:	http://degisco.eu





EDGI Facts

Contract n°:	RI-261556
Project type:	CP-CSA
Start date:	01/06/2010
Duration:	24 months
Total budget:	2,436,000 €
Funding from the EC:	2,150,000 €
Total funded effort in person-month:	281
Partners:	MTA SZTAKI, HU; INRIA, FR; CNRS, FR; UoW, UK; CU, UK; Unizar-Ibercivis, ES; FCTUC, PT; AlmereGrid, NL; UPB, DE; UCPH, DK
Project website:	http://edgi-project.eu





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<http://edgi-project.eu>
<http://desktopgridfederation.org>



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