



Globus.org Web Service

EGI Technical Forum Amsterdam

Florian Zrenner

Leibniz Supercomputing Centre, Munich

Zrenner@lrz.de



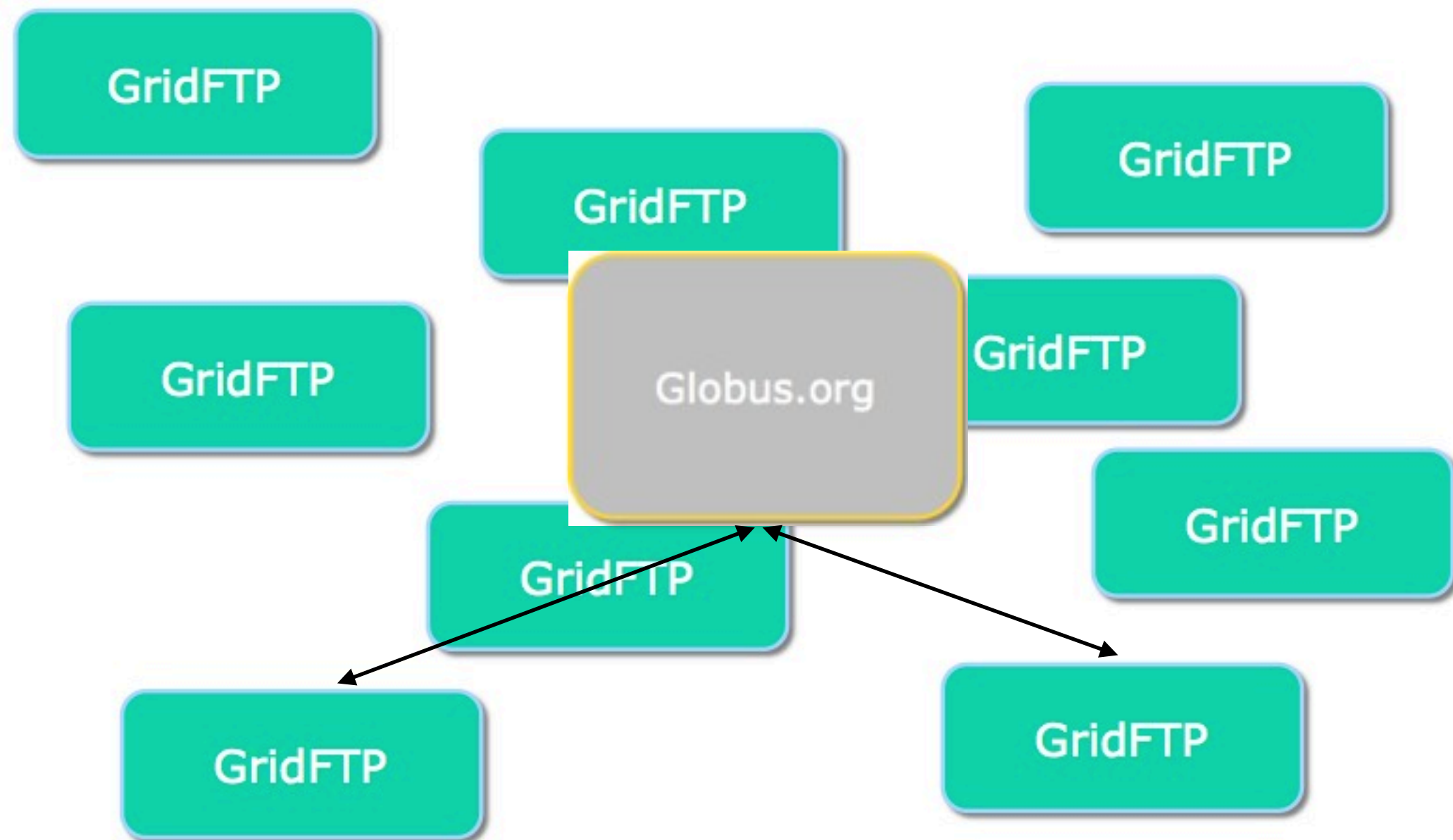
- Globus Toolkit not intended for end-users
 - Components for ‘Grid Builders’
 - Security, data movement, remote job management
- End-users just need end-to-end systems
- IT non-expert end-users who need to move substantial files around

***"Just get my files from A to B
without bothering me
with the details."***



- SaaS providing file transfer capabilities
- Asynchronous "Fire and Forget"
 - One common interface
 - Useful for large amounts of data
- Automatically recover from failures
 - Resume transfers interrupted by network failures, end systems, etc.

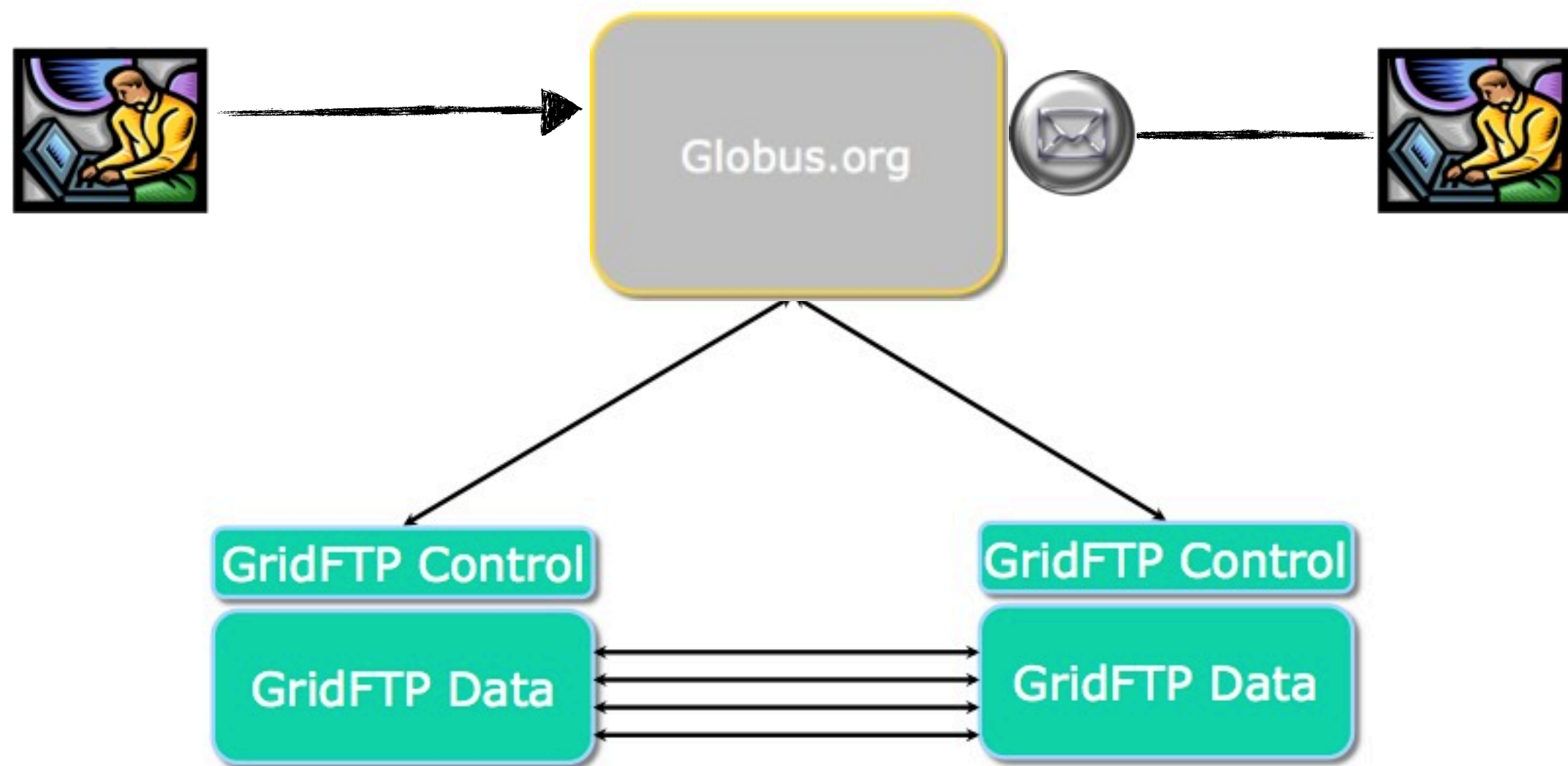
Distributed Data Nodes Text



- <http://www.mcs.anl.gov/~childers/GlobusWorld2010/>



Globus.org Manages 3rd Party Transfers





How To Access Globus.org

- CLI
 - User access
 - Ssh or Gsissh command line client
- REST Interface
 - Developer access
 - Minimize software deployment
 - Enable mash-ups
 - Notification via email
 - E.g. IM, SMS, Twitter, etc.



Anatomy of globus.org CLI call

- `gsissh -p 2222 host command`

```
echo "cineca:/home/a2824cl/file  
hlrb2:/home/grid/a2824cl/file2" | gsissh  
cli.globus.org xfer -d 360
```

```
Fri Jul 16 19:52:35 UTC 2010
```

```
Welcome to globus.org
```

```
af190bec-9113-11df-ae8c-123139143882
```

```
1 |
```

```
Complete
```



Anatomy of globus.org CLI call

- `gsissh -p 2222 host command`

```
gsissh florian@cli.globus.org summary  
af190bec-9113-11df-ae8c-123139143882
```

```
Welcome to globus.org
```

```
GRP: af190bec-9113-11df-ae8c-123139143882
```

```
Total: 1
```

```
Added: 1
```

```
Complete: 1
```

```
Successful: 1
```

```
MegaBytes: 997.00
```

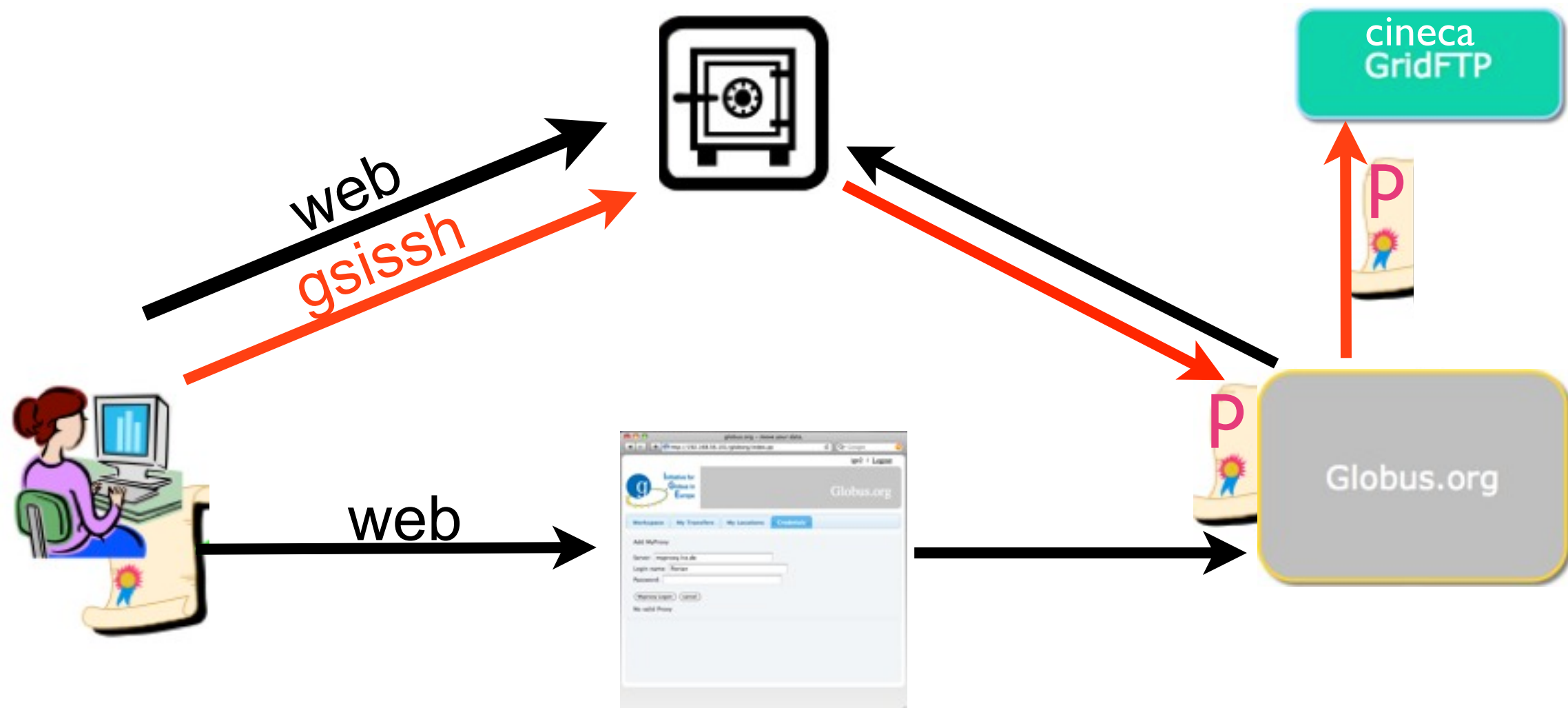
```
Mb/s: 765.03
```




- Globus.org web based app
 - Graphical user interface
 - Web 2.0 Application
- Functionality
 - See files on GridFTP Servers as in a local file browser
 - Handle data on different GridFTP Servers as you are used to handle data in different folders
- Benefits

„Easily manage your Grid data from everywhere.“

MyProxy - Credential Repository



Firefox plugin for delegating proxy certificate to MyProxy



- Globus.org is about scientific data
 - Large data
 - Many files
 - Recursive folder copy
 - Multiple files in one “data transfer job”
- CLI for scripted workflows
- Web app for interactive transfers



- Collaboration in IGE with globus.org
'user interface group' (University of Chicago)
- Bring 'File Listing' functionality into globus.org codebase
- Hosting decision (SaaS)
 - Own service in europe
 - IGE action!



- <http://www.ige-project.eu>
- <http://www.globus.org/service/>
 - Globus.org service information
- Please let us know about special requirements, use cases and your thoughts: info@ige-project.eu