

SURF
NET

GLIF Tech: What's next?

Erik-Jan Bos – GLIF Tech

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E-Infrastructures users today experience...



- Many separate components of the e-Infrastructure:
 - Computing
 - Storage & Data Management
 - Networks
 - Identity management systems & solutions
 - Tools and applications
 - Scientific instruments
- Components that are not aligned and do not interoperate well today



E-Infrastructure Vision

- Researchers can work together simply and efficiently by seamlessly linking all kinds of e-Infrastructure services
- The development of new applications for the e-Infrastructure is stimulated
- Middleware enables the usability of these e-Infrastructure services in a user-friendly way
- Bandwidth, for IP & Lightpaths, does not need to be scarce



Some observations: User perspective



- More and more data-centered
- Research within virtual organisations
- Research is a global activity
- Clouds and cloud services are coming towards us fast, fuelling the discussion “build or buy”
- Open Access
- Facilities shared and linked by ICT



Some observations: Provider perspective



- Requirements ahead of general needs and markets
- High demands coming from ICT-competent users
- Growing set of demands coming from researchers without ICT knowledge
- Huge amount of ICT-service offerings outside of the institutes



Hence...



- It's about services and their integration
- Close collaboration with users and e-Infrastructure providers is urgently needed
- Coordination between domains on a worldwide scale should be our focus
- Open innovation is KEY

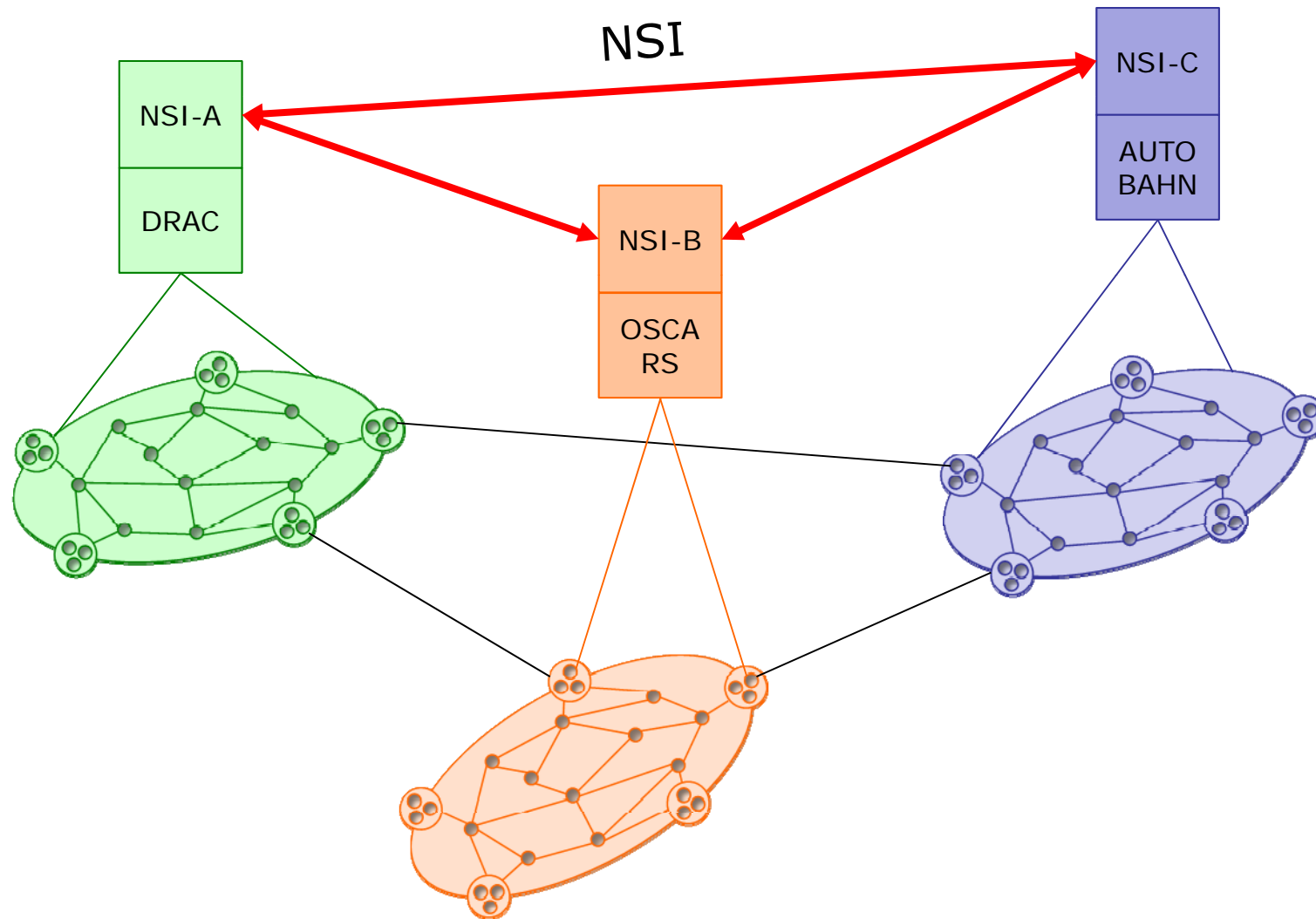


E-Infrastructure is global

- Environment is inherently multi-domain
- Each domain is progressing at its own pace
- Federated services
- Open standards
- Hardened software
- (Re-)using best current practices
- Users and providers together need to work on finding and walking on an optimal path forward:
 - Nurture domains and grow them strong
 - Avoiding lowest common denominators



Federated Multi-Domain Networking





What's Next?

- Continue in line with what John presented
- Kees: "Providing users with seamless access to a global e-Infrastructure Ecosystem"
- Reach out to other communities, like the Grid community (computing & storage) & scientific domains



Work ahead of us for Resource Allocation TF



- Somebody's to take the lead to bring together various componts
- We're well positioned: Resource Allocation TF
- Build relationships with WG in EGI and others
- Work with projects like GEYSERS
- Find out about there requirements & needs
- Find out about opportunities



Wrap up



- Successful demos; A Big Thank You to people who worked very hard for these!
- Continue the Task Forces, as discussed:
 - DTOX
 - Campus Networking
 - Resource Allocation
 - Next Gen GOLE (next meeting: white paper & wrap up)
- Stimulate domain controllers to adopt pre-standard NSI as soon as possible:
 - Each domain responsible for his own
 - Stimulate 2 or more interworking NSI implementations as soon as possible



Thank you! Questions?

Please mark your calendar for the:

15th GLIF Tech WG Meeting
24-25 February 2011
Hong Kong, China

Colocated with APRICOT-APAN 2011, 21-25 Feb 2011:

<http://www.apricot-apan.asia/>



Main Conference: 21-25 Feb, 2011
Workshop: 15-19 Feb, 2011

Hong Kong Convention and Exhibition Centre

