



Enabling Grids for E-scienceE

# Technical Network Liaison Committee

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[www.eu-egee.org](http://www.eu-egee.org)



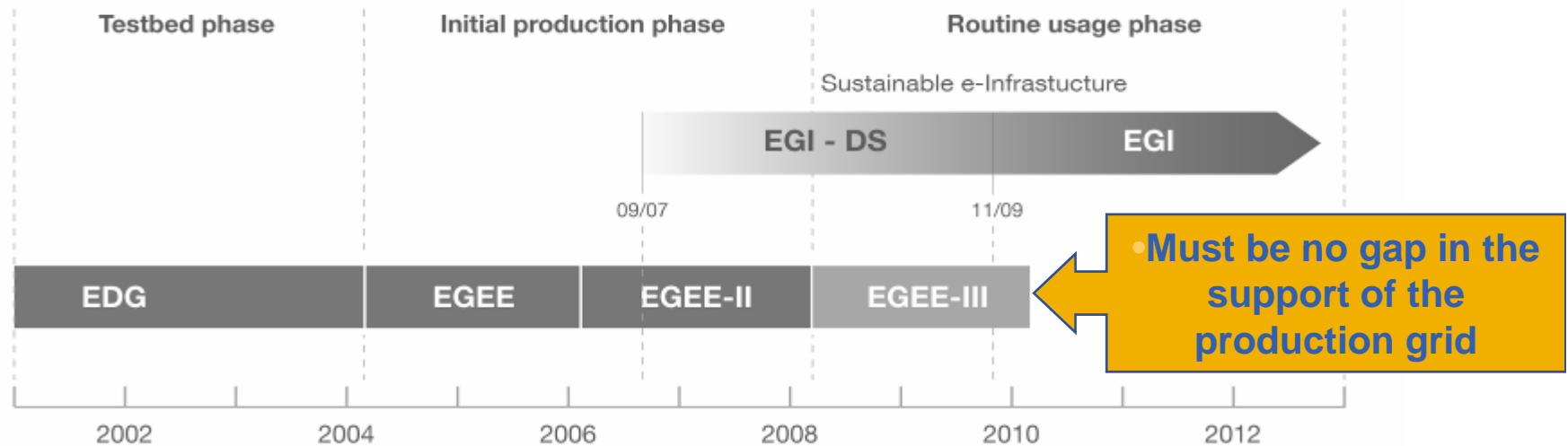
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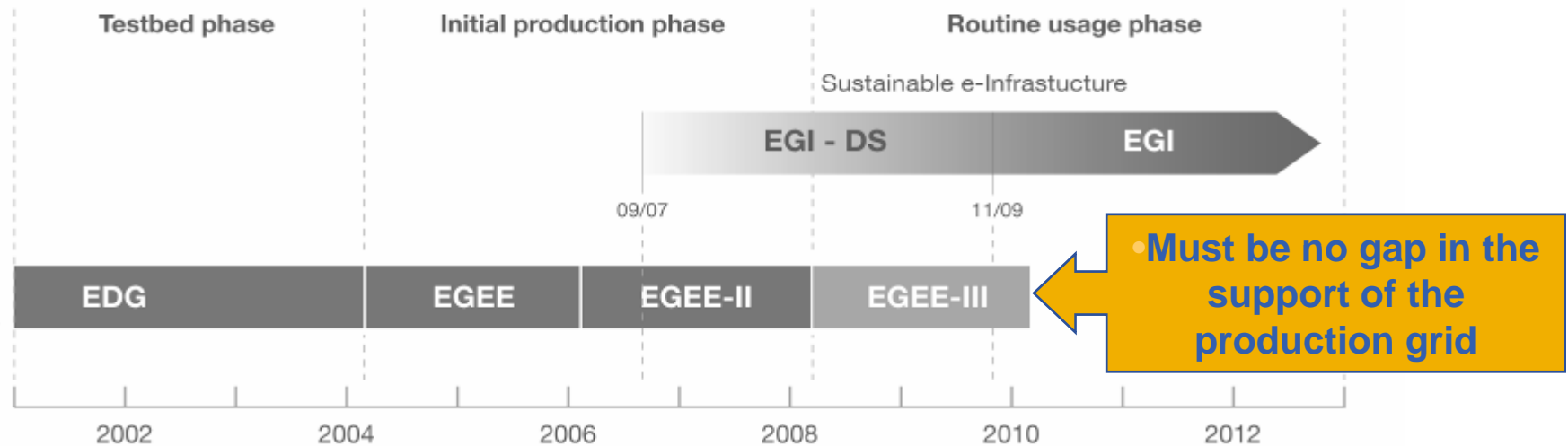
- **EGI-NGI**
- **Troubleshooting network**
  - See presentation of software of the university of Erlangen/DFN.
- **Grid monitoring**
  - A service for the Grid projects
  - An open subject
- **Advanced Network Services**
  - Best effort, what else can we expect?
  - AMPS
  - Other experimental services: Autobhan, Phosphorus
- **ticket exchange**
  - normalization
  - better assessment of the impact of the trouble ticket on the Grid

- **Technical Network Liaison Committee – TNLC**
  - Facilitate cooperation between EGEE on the one hand and GÉANT2 and the NRENs on the other hand
  - CERN; CNRS, France; DANTE, UK - the GÉANT2 operator; RRC KI, Russia; DFN-Verein, Germany; GARR, Italy; GRNET, Greece; RedIRIS Spain  
but also  
SWITCH Switzerland, BELNET Belgium, Nordunet Nordic backbone network (Finnish, Icelandic Swedish, Danish NREN), EENET (Estonian NREN), SRCE (Croatian EGEE partner).
  - A light weight committee, 2 meetings per years

- Need to prepare permanent Grid infrastructure
- The different grid projects are uniting behind the EGI-NGI (EGEE, PRACE, ...)
- The grid is definitely within the competence of the NREN
- A major stake for NRENs
- Establish at EGI level a sustainable collaboration between Grid and Network people



- Should we propose to the EGI to establish a committee made up of NRENs and Grid projects?
- How to organize it?
  - Merge the TNLC inside the new committee
  - Federate different initiatives
  - Joint meeting (minimize travel)



- **Developed by the university of Erlangen**
- **Active measure on demand, light weight PerfSONAR version with a specific plug-in**
- **Look for beta-tester sites**
- **NRENs can take advantage of the deployment of this software**
  - To troubleshoot their own grid nodes

- **The monitoring could be seen as a service from the grid project point of view**
- **Currently no solution is foreseen considering the different constraints: multi-domains, multiplicity of tools used, etc.**  
→an open subject.
- **A real benefit for the collaboration between Grid and NRENs.**

- **Enable access for applications to the advanced services provided by the NRENs**
- **SLA automation in multi-domain environment through AMPS (Advance Multi-domain Provisioning )**
  - Overcome the lack of automated mechanisms
- **SLA monitoring in EGEE**
  - Automate the monitoring procedure and generate alarms.
  - perfSONAR
- **Investigate the new advanced network services soon available**
  - AutoBHAN
  - Phosphorus



- **Trouble ticket harmonization**

- Defined by the TNLC during EGEE-II (CNRS, GARR, GRNET, RCC-KI, SRCE)
- Standard trouble tickets is a benefit for both Grid projects and NREN
- The translation can be done in
  - The ENOC, central server translating NREN's ticket into standard ticket
  - The NREN domain
- Software will be soon available

- **A better assessment of the impact of trouble on the grid**

- When a link failure is reported in a trouble ticket, how can we know the real impact without knowing the backup links available?

# Thank you.