

Avenues for openlab evolution

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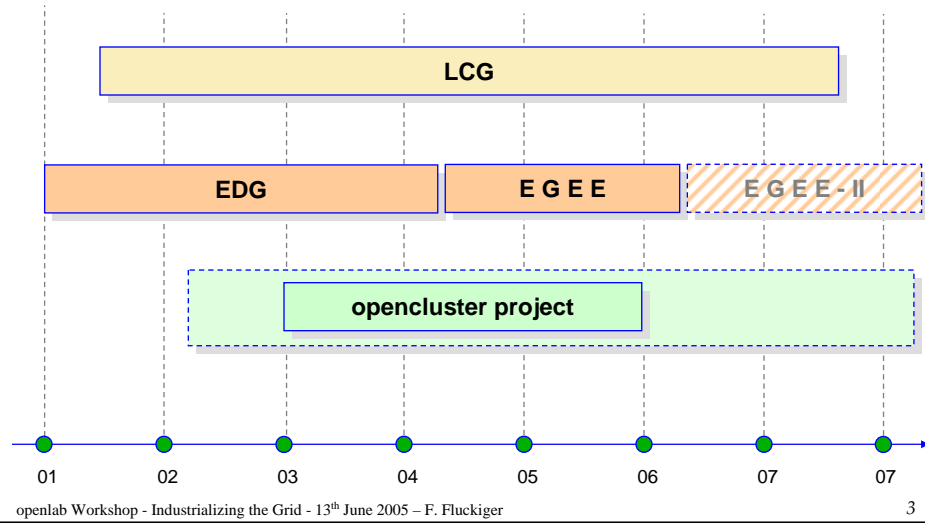


Objective of this presentation

- One step in the process of discussing openlab evolution and opportunities
 - May CERN/IT Internal strategic discussions
 - June Grid workshop
 - June One-to-one discussions with partners
 - July 6th BoS Meeting

- Why this discussions now?
 - 1st project (opencluster) ending at the end of the year
 - LCG entering 2-year deployment phase
 - In this important phase, IT has to carefully
 - set priorities
 - optimize resource allocation

LCG, EGEE, openlab



openlab objectives

- A **framework** for
 - IT **R&D**
 - in collaboration with **Industry**
- To Evaluate and Integrate cutting edge **technologies**

openlab
framework



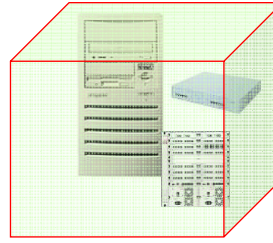
1st Project: opencluster

- 1st project: **opencluster**

- Focus: **HPCN**
Technologies of potential
Interest for the **LCG**

(LHC Computing Grid
project)

openlab
framework



opencluster project

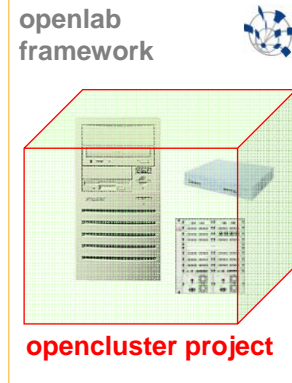
Partners



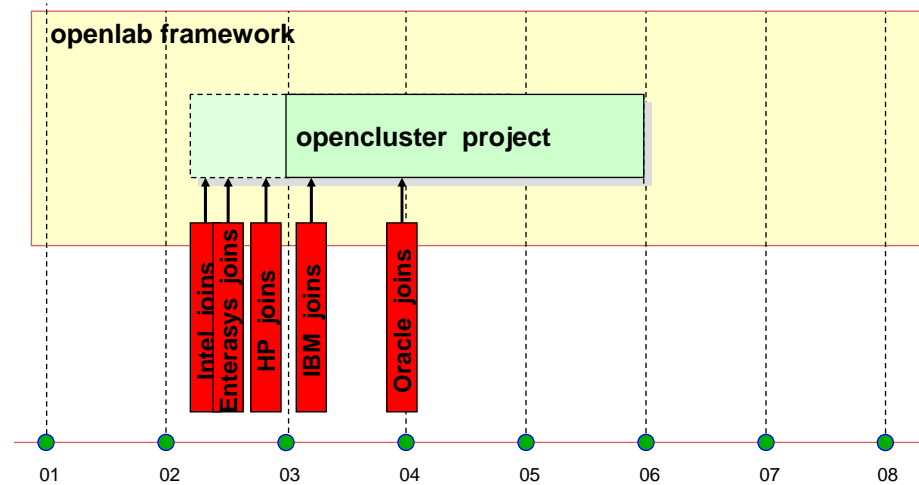
opencluster partner solutions

Partner solutions evaluated

- 64b Processors **Itanium2** (HP + Intel)
 - SAN FS **StorageTank** (IBM))
 - Databases **10g servers** (Oracle)
 - Networking **10 Gb Ethernet** (Enterasys + Intel)
- Infiniband*
(Voltaire, contributor)



opencluster timeline



3 opencluster Characteristics

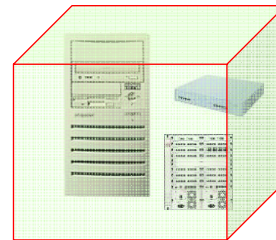
1. Framed project

2. Common objective

3. Large size

- Long Duration
- Significant Contributions
- Large resulting system

openlab
framework



opencluster project

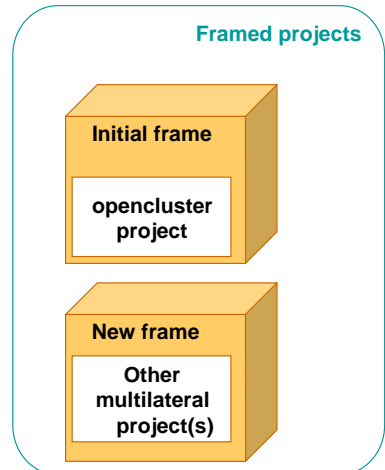
opencluster: a Framed project

- **Common status** for all partners *
- Duration
- Contribution level
- “Gives and Gets”

* Since 2004, two statuses: Partner and Contributor

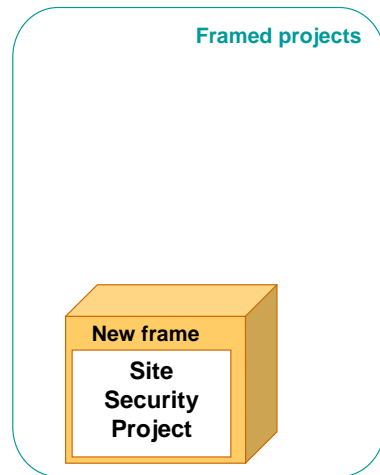
- Several (non-mutually) options being considered
 - Create new frame for new (lighter) project(s)
 - Host non-framed activities (for “tactical” projects)
 - Contribute to industrial dimension of other projects (EGEE-II)
- Options only relevant if mapped to actual projects / activities matching needs / priorities

- **New Frame**
 - For other multilateral project(s)
 - Project(s) Likely to be
 - shorter
 - lighter



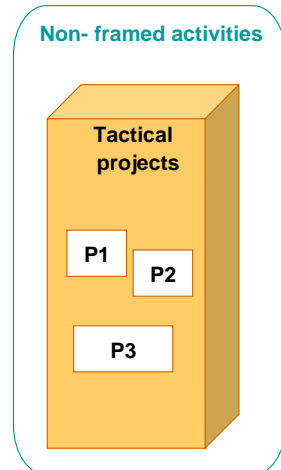
■ Possible new frame for Site Security Project

- As a follow up of fall 2004 initiative
- Discussions with
 - 2 Finish companies
 - 4 UK companies



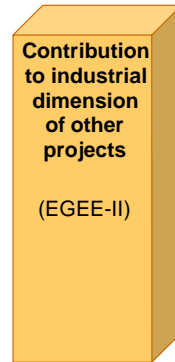
■ Unframed projects

- For
 - **Tactical** activities
 - Matching IT Dep. needs / priorities
- Conditions decided on a case-by-case basis
- Essentially for bilateral projects



- **Contribution to industrial dimension of other projects (EGEE-II)**
- Complement Industrial Fora activities of EGEE-II
- Offer a structure to host joint activities with companies interested in being **associated** with EGEE-II

Other Industrial Activities



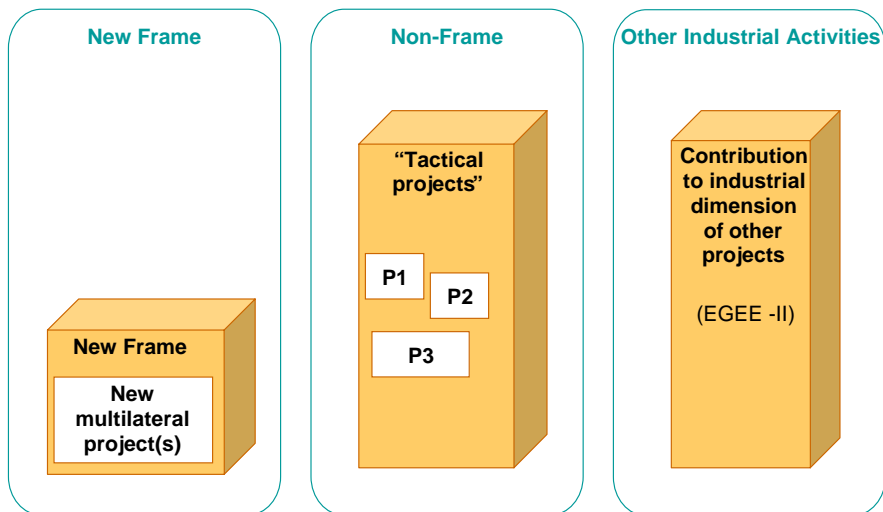
openlab as a structure to host industrial activities of EGEE-II

- Areas of industrial interest
 - Exploitation of Grid Technologies
 - Development of products or services based on Grid technology
- Segmentation of industry
Interest different whether core activity of industrial partner is:
 - Not in the ICT business: A Grid “**end-user**”
 - In the ICT business: Interested in developing **products**
 - In the ICT business: Interested in developing **services**

What could the openlab do concretely for EGEE-II

- Act as the focal point of contact with companies **Associated with EGEE-II**
- Identify common issues/concern and propose ways of furthering them
- Organize and follow-up one-to-one partnerships:
 - e.g. where relevant, provide the framework for contributions to specific activities from Associated companies

Examples of new opportunities: Summary



- **Partnership with selected Public Institutions**
- On topics relevant to openlab activities
 - e.g. Integrated Site Security
 - Helsinki University
 - Geneva Public Institutions
- Status of “Associated Institution”

