



LHC Computing Grid Project - LCG

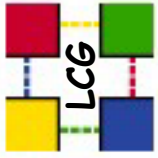
Phase 2 Planning Update

GDB - 15 June 2004

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CERN – European Organization for Nuclear Research
Geneva, Switzerland

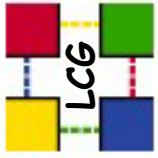
les.robertson@cern.ch





Status of Planning for Phase 2

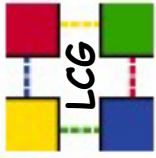
- Common facilities and services at CERN
 - June 2003 - Re-assessment of capacity, costs, technology
 - October 2003 - Review of human resources for services at CERN
 - March 2004 - Equipment acquisition planning agreed
- April 2004 -
 - Re-assessment of requirements for Phase 2 in Tier-1s, Tier-2s
 - to be reviewed by LHCC by September
 - Summary of basic computing models, resources provided to the MoU Task Force
- May 2004 - Review of long-term human resources for Applications Support completed



Phase 2 Planning Outline

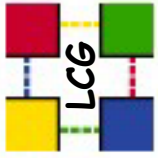
Agreed by POB
3 June 03

- June 2003 - Establish editorial board for LCG TDR
- September 2004 - Consolidated Tier-1, Tier-2 Regional Centre Plan
 - Background for the draft MoU → October C-RRB
 - Revised version of basic computing models
 - Revised estimates of overall Tier-1, Tier-2 resources
 - Current state of commitments of resources
Regional Centres ↔ Experiments
 - High-level plan for ramping up the Tier-1 and large Tier-2 centres
 - Prepared by planning team including experiments, LCG management and regional centre representatives
- October 2004 C-RRB - Draft MoU
- End 2004 - Initial computing models agreed by experiments
- April 2005 C-RRB - Final MoU
- End June 2005 - TDR



Phase 2 Planning Team

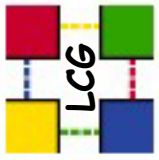
- Experiments
 - ALICE - Alberto Masoni
 - ATLAS - Dario Barberis, Roger Jones
 - CMS - David STickland
 - LHCb - Philippe Charpentier, Nick Brook
 - LCG mgt - Chris Eck, David Foster, Bernd Panzer, Les Robertson (chair)
 - Regional Centres - Paolo Capiluppi (INFN), Nicanor Colino (CIEMAT), US person (to be confirmed)
 - no other volunteers! -
- We will need the cooperation of all large centres



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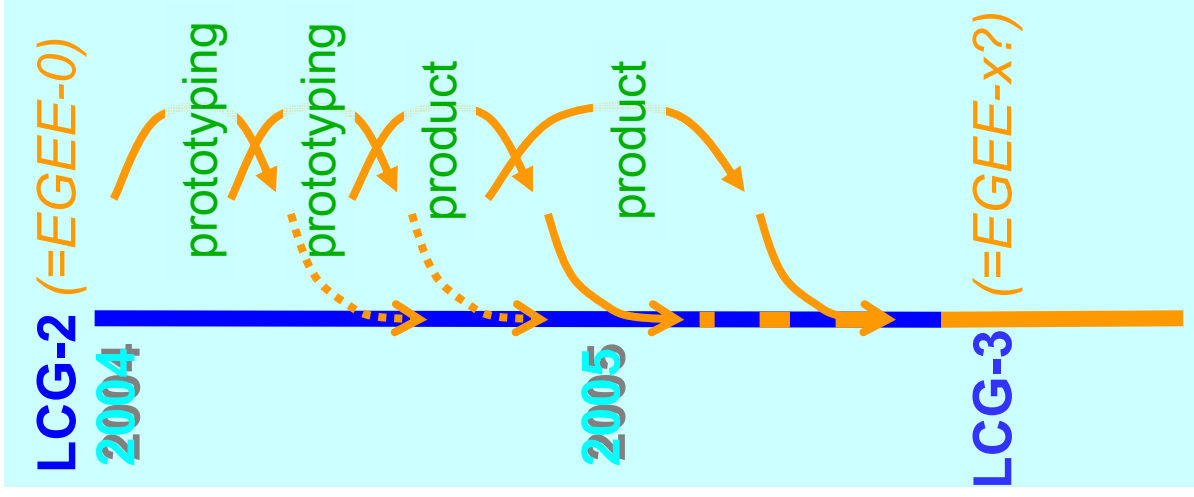


LCG-2

focus on production,
large-scale data handling

- The service for the 2004 data challenges
- Provides experience on operating and managing a global grid service
- Strong development programme driven by data challenge experience
- Evolves to LCG-3 as components progressively replaced with new middleware

LCG-2 and Next Generation Middleware



Next generation middleware
focus on analysis

- Developed by EGEE project in collaboration with VDT (US)
- LHC applications and users closely involved in prototyping & development (ARDA project)
- Short development cycles
- Completed components integrated in LCG-2

