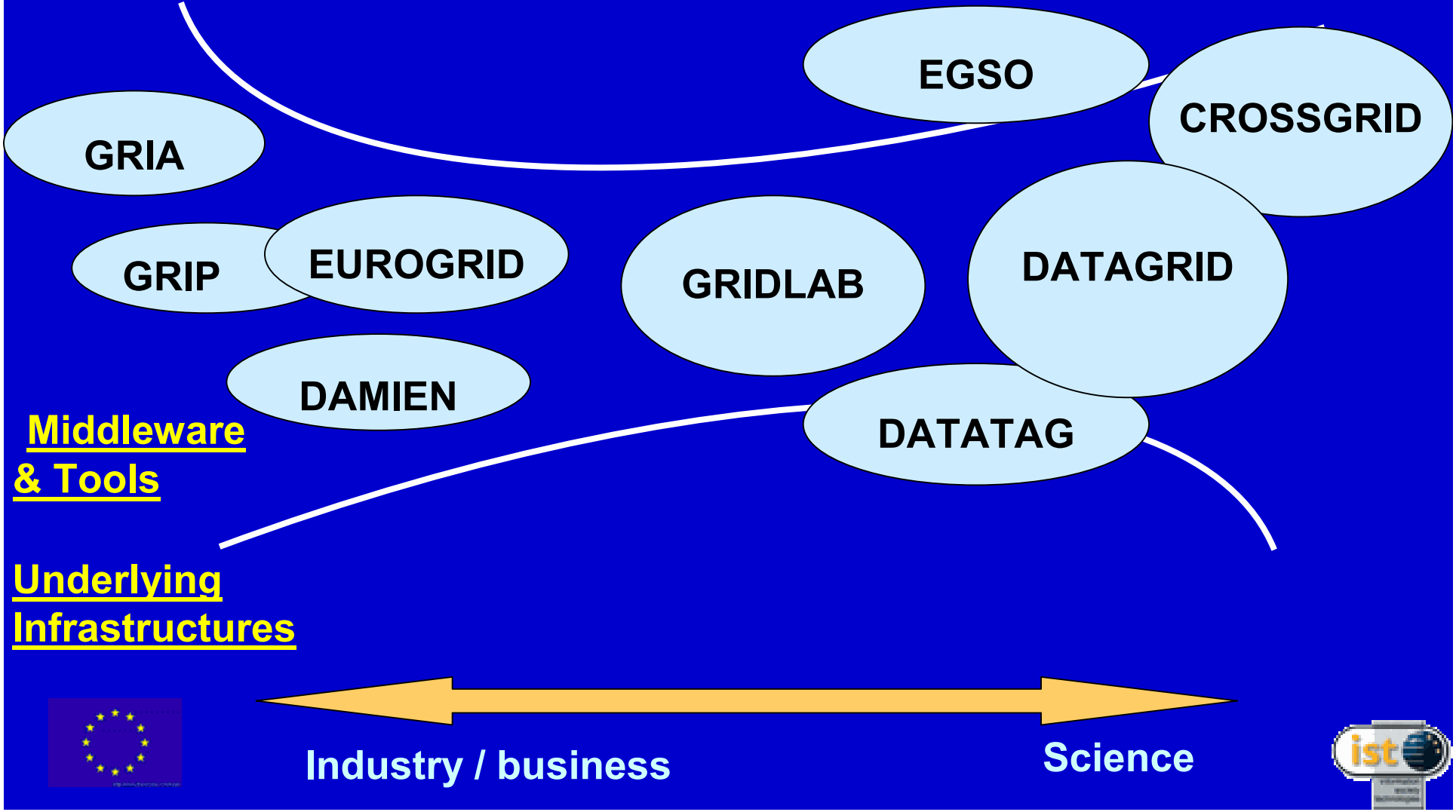
CrossGrid – DataGrid Collaboration (Framework)

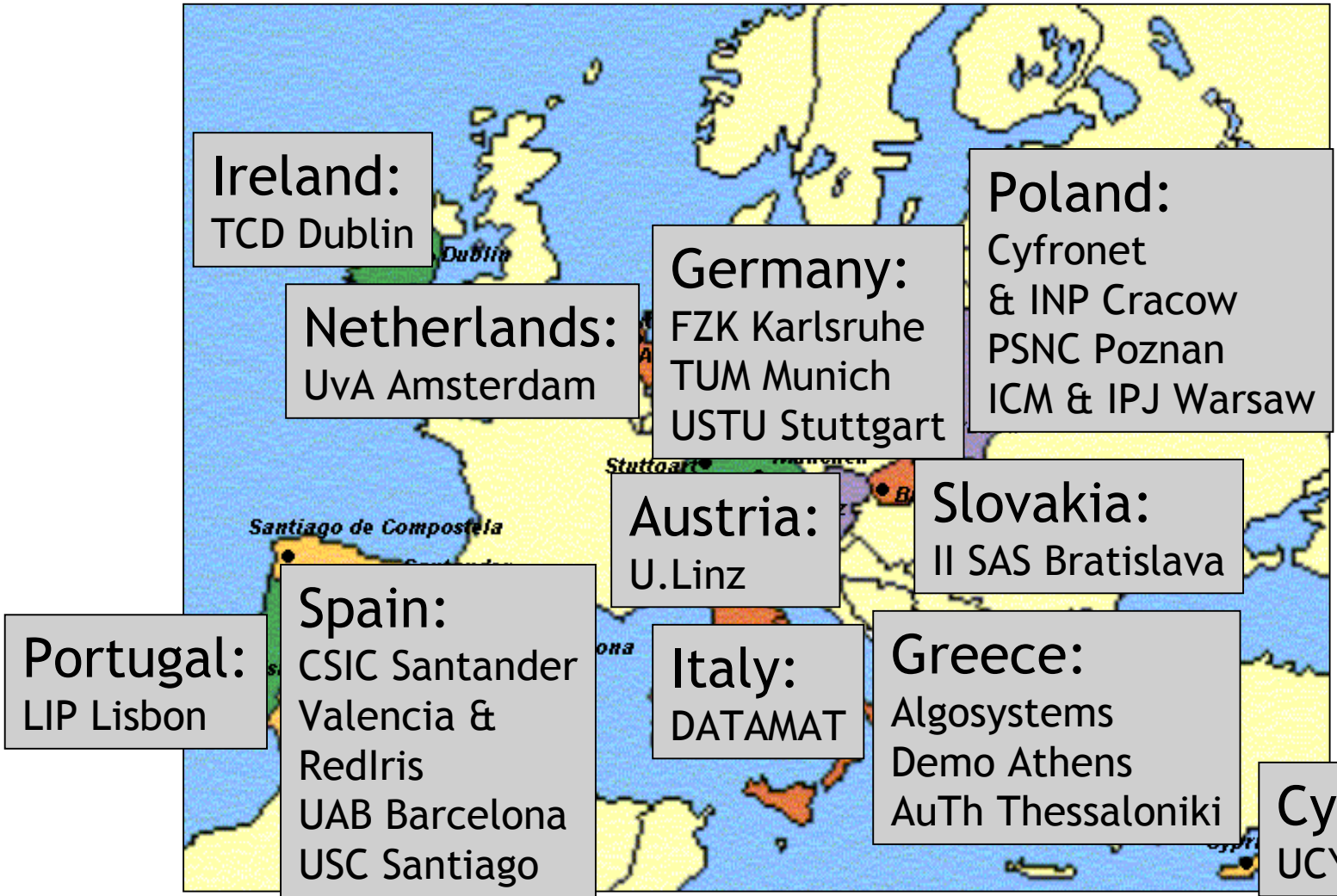
Marian Bubak and Bob Jones

A new IST Grid project space (Kyriakos Baxevanidis)

- *Links with European National efforts*
- *Links with US projects (GriPhyN, PPDG, iVDGL,…)*



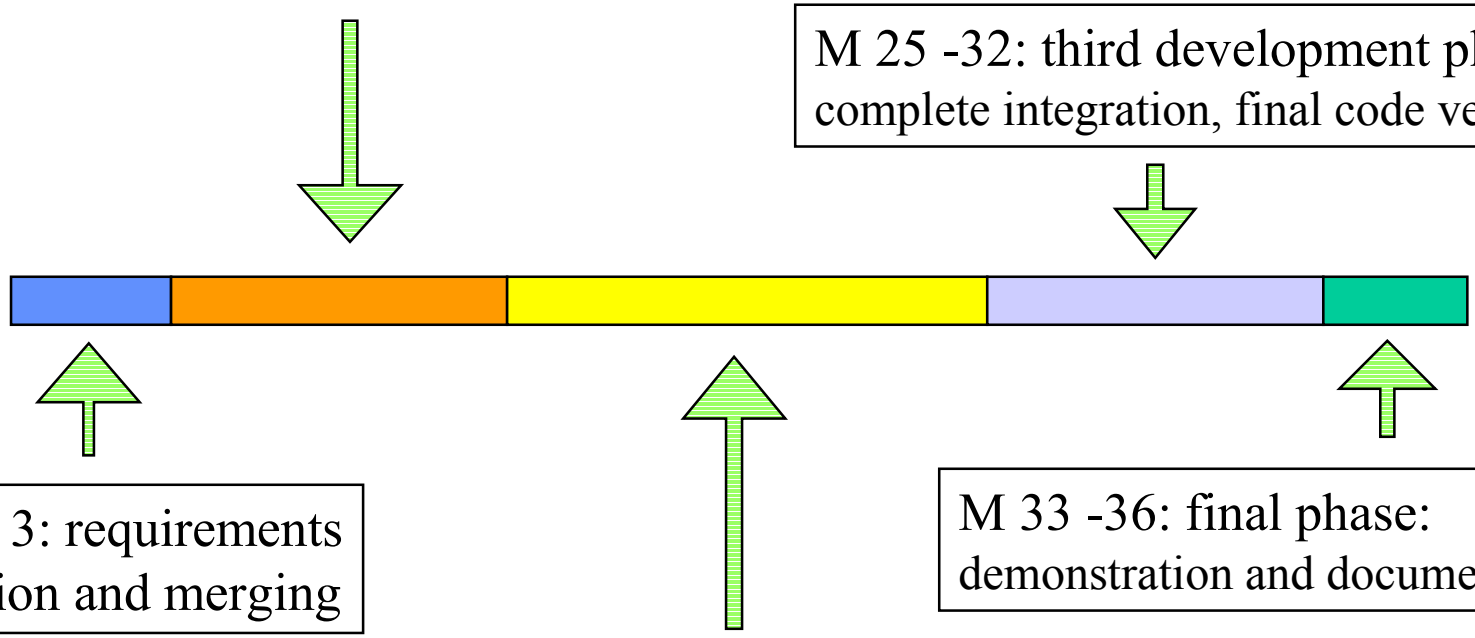
CrossGrid Collaboration



Project Phases (from March 1, 2002)

M 4 - 12: first development phase: design, 1st prototypes, refinement of requirements

M 25 -32: third development phase: complete integration, final code versions

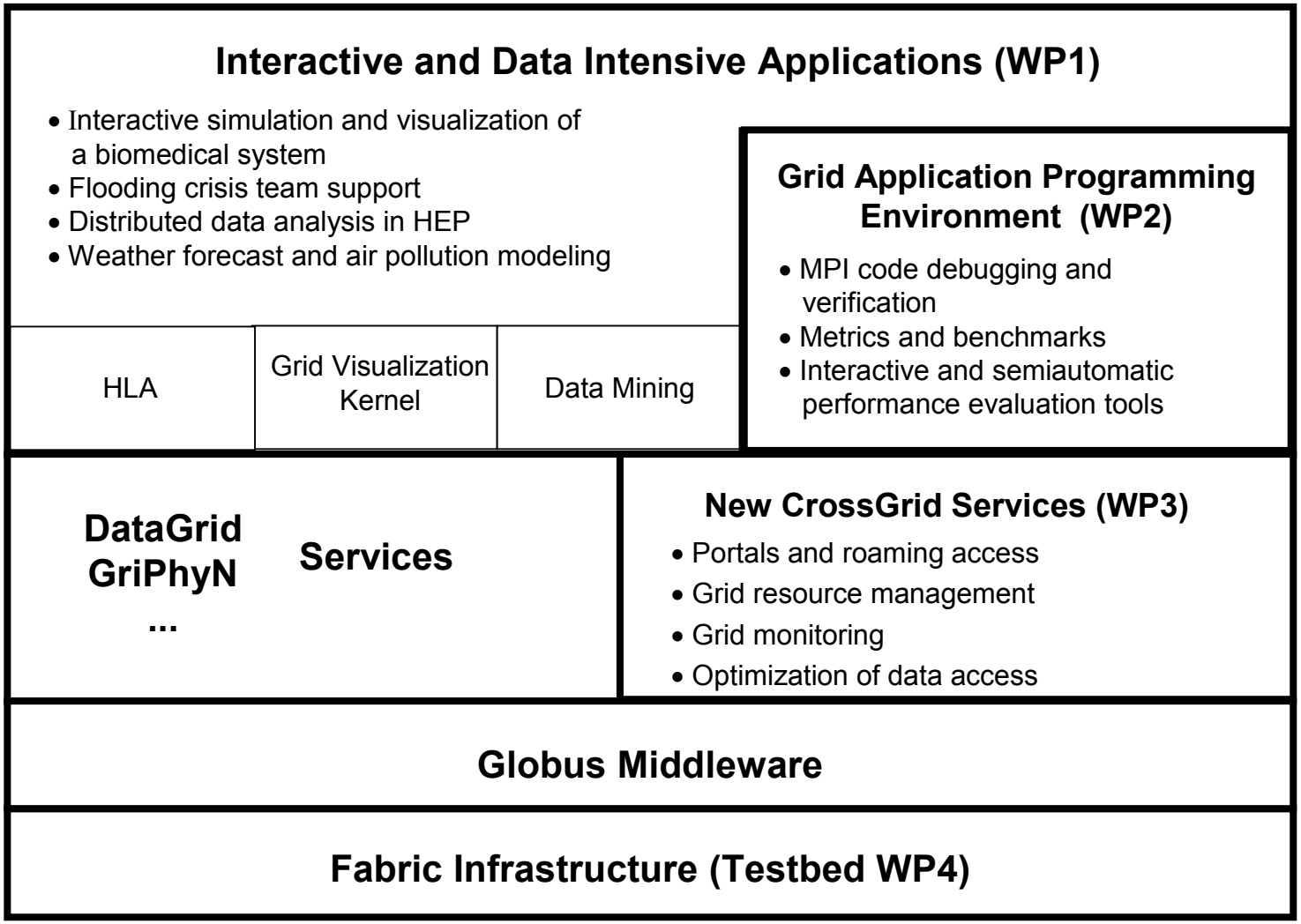


M 1 - 3: requirements definition and merging

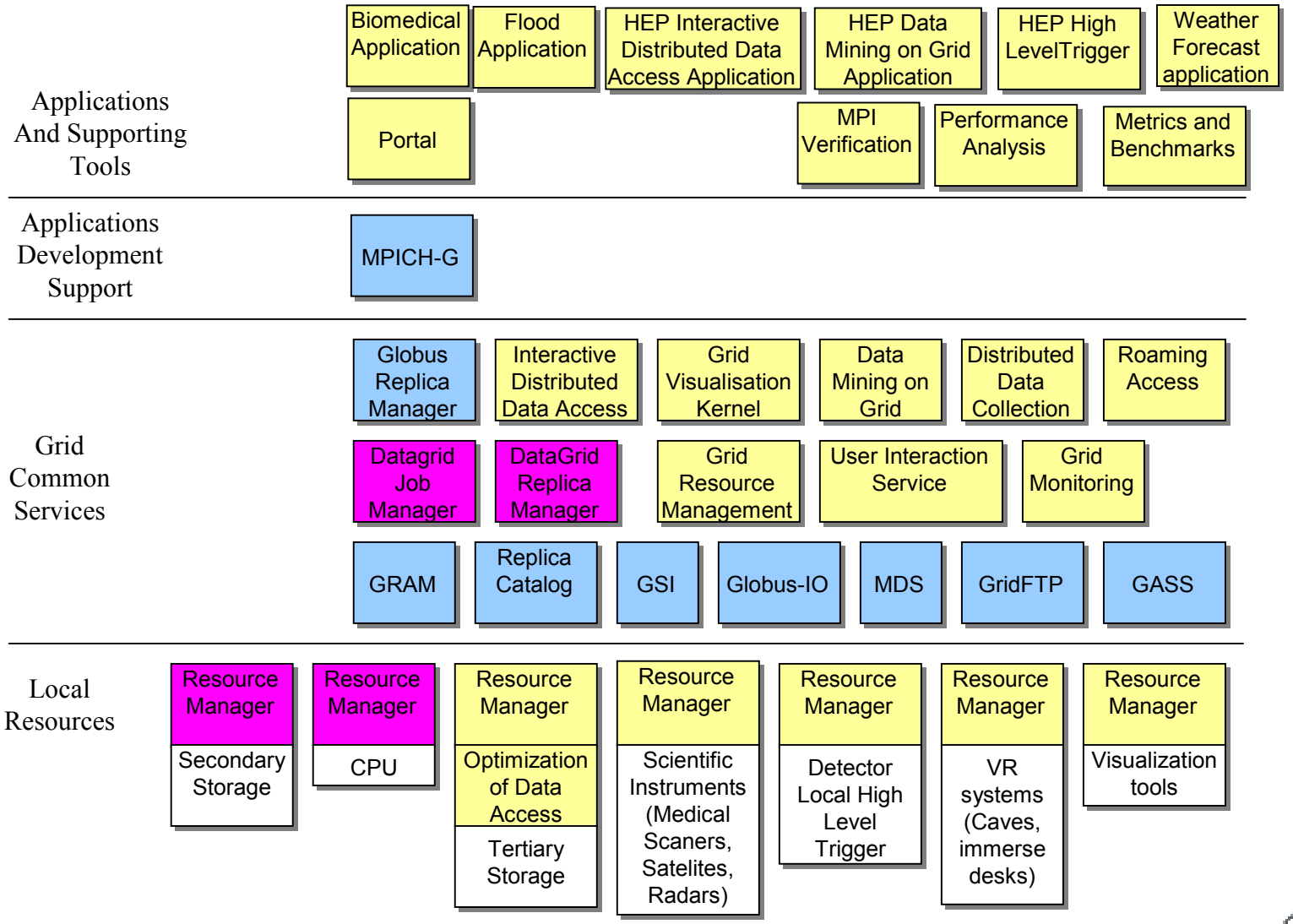
M 33 -36: final phase: demonstration and documentation

M 13 -24: second development phase: integration of components, 2nd prototypes

Layered Structure of X#



CrossGrid Architecture



Grid Architecture

Similar layered structure, similar functionality of components

- Interoperability of Grids
- Reuse of Grid components
- Joint proposals to GGF
- Participation of chairmen of EDG ATF and X# AT in meetings and other activities

Applications

- Interactive applications
  - Methodology
  - Generic structure
  - Grid services
  - Data security for medical applications
- HEP applications
  - X# will extend functionality of EDG sw

Benchmarks and Application Monitoring

- Information
  - about application performance
  - about performance of grid components
- Used for testing of EDG software

Testbed

- Goal: Interoperability of EDG and X# testbeds
- Joint Grid infrastructure for HEP applications
- Already X# members from Spain, Germany and Portugal are taking part in EDG testbed
- Collaboration of testbed support teams
- Mutual recognition of Certification Authorities
- Elaboration of common access/usage policy and procedures
- Common installation/configuration procedures

Software Testing

– X# will test early beta releases of EDG middleware; this sw will be integrated with X# sw

Dissemination

- Joint Industry and Research Forum
- Exchange of deliverables

Management

- Regular contacts of project managements – the project managers - members of EDG PMB and X# Steering Group
- Exchange of operation procedures
- Exchange of reviewers