5b. ESA & WP9: effort and recovery plan

1. Welcome and introduction (15m)
2. WP9 – Earth Observation Applications (50m)
3. ESA and WP9: infrastr, appl, TB 0/1 (50m)
4. Demonstration of EO applications (45m)
5. ESA and WP9: scale up, effort, recovery plan (50m)
6. Side ESA actions related to GRID (30m)
7. Reviewer separate meeting (60m)
8. Conclusions (30m)

ESA DataGrid Review
Frascati, 10 June 2002

Summary

- DataGrid ESA effort and commitments
  - initial committed effort, present situation, recovery plan
  - reporting and cost statement issues

ESA performance in year 1

- ESA has by no means under-performed
- "overspending in effort" shall not be considered critical
  - Unplanned tasks were covered
    - Detailed technical involvement in middleware
    - initial gigabit linking with ENEA
    - procurement of the computing cluster,
    - formal agreement with RSI Inc.
    - Middleware integration in ESRIN infrastructure
  - All planned task completed, some work anticipated

Effort WP9 committed in TA, funded and agreed internally

Task	mm (tot)	mm (fun)	ESA	KNMI	IPSL	ENEA	BADC
9.1 - requir.	9	5	6	3	1		6
9.2 - status	6	4	5	1	2	3	
9.3 - system	39	35	38	1	12	3	
9.4 - applicat	41	41	21	20	12		
9.5 - scale up	25	25	24	1	9		
mm(tot)	120+ 48		94	26	36	6	6
mm(fun)		110	84	26	0	0	0

ESA participation to DataGrid has been granted with not more than 84 mm funding over 3 years and shall deploy at least 94 mm

Reporting and cost statement issues

- ESA QR / CS reporting efforts
  - effort performed by ESA staff or staff funded by other ESA programmes (e.g. ESA research fellowships, internal system support, …) has been considered as "unfunded"
  - effort performed by staff specifically employed / contracted within the DataGrid project activities has been reported as "funded".
  - Cost Statement summarised consistent efforts as reported in QR
  - Effort performed by ESA in y1 was larger than anticipated (unplanned tasks, cold start, …)

Reporting and cost statement issues

- ESA QR / CS reporting efforts - 2
  - ESA funding in DataGrid will be limited to 84 man months total, against the ESA deployment of at least 94 man months total.
  - ESA suggested that, for the purpose of "cost statement approval", EC considers for funding only the "percentage of completion of tasks" assuming a flat deployment of resources for the duration of the same task, which is estimated for year 1 in about 38 mm.
  - EC to confirm acceptable approach (as requested by fax in February)

ESA Effort WP9 committed in TA vs new proposed plans (after y1)

Task PM start/stop	mm (tot)	Plan Y1	Plan Y2	Plan Y3	Used Y1	new Y2	New Y3
9.1 (1-6)	6	6.0	0.0	0.0	6.1	0.0	0.0
9.2 (1-18)	5	3.4	1.6	0.0	13.5	3.0	0.0
9.3 (7-30)	38	9.5	19.0	9.5	16.0	14.0	12.0
9.4 (13-36)	21	0.1	10.4	10.5	6.0	10.0	12.0
9.5 (7-18)	24	12.0	12.0	0.0	8.0	5.0	0.0
mm(tot)	94	31.0	43.0	20.0	38(*)	32	24
mm(fun)	84	27.0	33.0	24.0	34.0	28.4	21.4

(*) out of delivered 57.2 (inc 7mm for management) mm in QR4, ESA wishes to be approved as "deployed" effort in y1 38 mm, instead of the 31 mm (planned); The new proposed funding plan is also indicated (corresponding fraction of 84/94)

WP9 year 2 deliverable status

- Y2 plan is fully consistent with the initial commitments. Deliverables:
  - D9.6 (Report) Month 18:

    From testbed to full-scale EO application: Report on the EO Application scaling study, just introduced in previous presentation
  - D9.3 (Prototype, Report) Month 24:

    Prototype, Report of second software components release. A demonstration of the integrated Ozone DataGrid processing and validation chain, involving all EO partners will be presented by end of 2002.
- No delays planned for WP9 in y2!

Discussion on recovery plan

- More resources available for y3 testing of Middleware
  - Concentrate on "EO application demonstration in production environment".
  - Include in Ozone demonstration ENVISAT data
  - Explore other applications
  - Promote use of DataGRID in EO community

Conclusions

- We have demonstrated that ESA investments in GRID technologies development and utilisation are far beyond anticipated commitments for participation to DataGrid in terms of:

Integration — *The contributions of ESA to the overall objectives of the project has be clearly demonstrated*

More users — *There is large involvement of other potential EO users.*

More applications — *For EO, the use of the grid infrastructure appears to have great potential. The EO community has application which can greatly benefit.*

Resources — *There is little justified gap between the planned and the spent / deployed resources (which include the large unfunded effort)*

A recovery plan (a new financial plan is not needed) for the remainder of the project needs is provided.