



# ESA DataGrid Review

## 1. Welcome and Introduction

Frascati, 10 June 2002



# Agenda

1. **Welcome and introduction (15m)**
  - Introduction and EU review report actions (LF)
2. **WP9 - Earth Observation Applications (50m)**
  - DataGrid EO requirements (LF, 15m)
  - DataGrid WP9 tasks, WP9 Plan, ESA activities (JL, 15m)
3. **ESA and WP9 part 1 (50m)**
  - DataGrid ESA infrastructure (AT, 7.5m)
  - ESA GOME application (SC, 7.5m)
  - ESA experience in using DataGrid testbed 0 and testbed 1 (JL, 15m)
4. **Demonstration of EO applications (JL, MF, SM 45m)**
5. **ESA and WP9 part 2 (50m)**
  - DataGrid EO Scaling up vision (JL, MM, 10m)
  - DataGrid ESA initial committed effort, present situation and recovery plan (LF, 20m)
6. **Side ESA actions related to GRID (30m)**

Lunch break
7. **PO and reviewer separate meeting (60m),**
8. **Conclusions (30m)**

# DataGrid EO partners

- **Key partners (as in Techn Annex):**
  - Funded: ESA-ESRIN (I), KNMI (NL),
  - Unfunded: IPSL (F)
  
- **Associated partners (not funded):**
  - ENEA (I) - active
  - BADC (UK) - only initially active (possible new cooperation)
  - University of Lecce (I) - still planned to contribute
  
- **EO VO Distributed in 4 countries:**
  - no single central focus
  - CE, SE elements in EO community (first just installed at ESRIN)

# Attendees

- **Project Officer:** Kyriakos Baxevanidis
- **Reviewers:** Karsten Decker, Salvatore Filippone, George Samaras
- **DataGrid Project Manager:** Fabrizio Gagliardi
- **ESA team:** Luigi Fusco, Julian Linford, Stefano Casadio, Marco Fulcoli, Pedro Gonzalez, Marcello Mariucci, Fabrizio Rossi, Annalisa Terracina
- **WP9 partners representatives:** ENEA: Silivio Migliori; KNMI: Sylvia Barlag; IPSL: Monique Petitdidier
- **SpaceGrid:** Stefano Beco, Pier Giorgio Marchetti

# Introduction



- ◆ Objectives of the ESA dedicated review
- ◆ Issues identified at the 1<sup>st</sup> year Review



# Objectives of ESA dedicated review (1)



## ◆ Seen from EC - Reviewers (*cover letter of 1<sup>st</sup> review*)

- "... to **draw safer and more concrete conclusions about the next steps** that are required to be decided to ensure that the project will reach all its objectives ...", "... to more **closely review the ESA activities** with regards to DataGrid ..." "ESA to present and **demonstrates in more details their work** in the project..."
- ... review at Frascati will **focus on the ESA activities**... and only a representative team of this part of the project work... will need to participate ...

*which translates in:*

Verify that ESA role in DataGrid is coherent with initial plans (from the technical content and funded resources) as stated in the Contract Technical Annex

# Issues identified at the 1<sup>st</sup> Review (1)

## ◆ In the cover letter

- ... the concern about the *integration of the ESA work into the project and the contribution ... to the project objectives...*

## ◆ In review report - executive summary - pag 3

- Integration**
- *The integration of ESA into the projects needs to be significantly improved. The contributions of ESA to the overall objectives of the project need to be clearly demonstrated, as this was not sufficiently clear from the presentation of the Earth Observation package at the project review meeting.*

===>>> Hopefully there will be demonstrated during the day

- Resources**
- *The gap between the planned and the spent resources in the first project year should be explained in much more details, and a financial plan for the remainder of the project needs to be provided in writing and submitted to the attention of the project officer*

===>>> ESA provided a formal written response just after the Cost Statement of year 1 and has proposed a recovery plan

This will be discussed in agenda point 5

# Issues identified at the 1<sup>st</sup> Review (2)

## ◆ In review report - conformity of work ... EO Applications - Recommendations: pag. 5 / 6

- *There is too little involvement of other potential EO users.*
- *The use of the grid infrastructure appears to be restricted to parallel execution of a single application...*

More users

===>>> responded in the DataGrid formal reply to EU review; many opportunity to discuss this issue during the day

- *The partners should very much involve other potential EO users with a strong publicity effort.*

More applications

- *The EO application users should investigate additional exploitations of the grid infrastructure which go beyond using the grid as a parallel computing resource to bring computing time down*

===>>> responded in the DataGrid formal reply to EU review; part of the dedicated scale-up tasks in WP9; discussed in various points in agenda



# Issues identified at the 1<sup>st</sup> Review (3)

## ◆ In review report - Project Management ... -Recommendations: pag. 7

- *The main standing issues from a management point of view is the recovery plan for those partners, most notably ESA, who have significantly overspent and/or under performed during the first project year.*

==>>> ESA has used "some" more resources than planned for believed justified reasons and has not under-performed. This will be discussed in agenda point 5

- *For ESA, we suggest a supplementary review, to address the issues raised during the review meeting in Geneva.*

==>>> here we are.

EO and ESA input to DataGrid Response to 1<sup>st</sup> EU review report includes:

- ESA Specific funding issues and proposed recovery plan
- WP9 deliverables status for 2002
- WP9 and ESA comments to review report (integrated in DataGrid response)

# Objectives of ESA dedicated review (2)



## ◆ Seen from ESA

- Ensure EC and reviewers that ESA was, is and will continue to **contribute "substantially" to the success** of DataGrid
- Illustrate **plans to complete** the initially agreed DataGrid activities

*Which translates in:*

Demonstrate that ESA investments in GRID technologies development and utilisation are far beyond anticipated commitments for participation to DataGrid