CINECA OVERVIEW
Arrow Plus Kick Off
Bologna 29/06/2011
The Consortium

CINECA is a Consortium of 50* Italian Universities, the National Research Council (CNR), the National Institute of Oceanography and Experimental Geophysics (OGS) and the Ministry of University and Research (MIUR).

It is the most important computing centre in Italy and one of the most advanced in Europe, ranked among the top worldwide supercomputing organizations: the **TOP500** list.

The Consortium

CINECA was established in 1969 by Ministry of University and Research as a no-profit Consortium of Italian Universities for high performance computing and information processing.

The Consortium dimension

- over 350 employees
- Building: ~ 7.200 mq
  CINECA’s property
The Consortium Mission

CINECA solutions and services:
✓ high performance scientific computing,
✓ Scientific visualization and interactive virtual environments
✓ Information systems
✓ Knowledge management, web portals, multimedia, e-learning
✓ Data center and application service providers
Main activities

ICT & HPC services for:
- member & non-member universities
- MUR - Ministry of University and Research
- public research institutions

Technology Transfer to:
- P.A. & L.A.
- private companies
- E.U.
Hosting Services

- Hardware, operating system, Oracle and software licenses
- Hardware and operating systems installation and management
- Oracle database installation, management and hosting in HA
- Application software installation and management
- Systems and infrastructure tuning and customization
- Systems monitoring services
- Daily data saving and restoring (including incremental backup)
- System assistance and network management
CINECA expertise in Bibliographic databases

CINECA has specific expertise in designing, developing and maintaining bibliographic databases based on standard for the publishing sector:

**DOI Registration Agency:**
- mEDRA project was born in 2002 in the eContent programme.
- mEDRA is the multilingual European Registration Agency of DOI, the ISO standard for the persistent identification of any form of intellectual property in a digital environment.
- Launched in 2004 as joint venture by AIE and Cineca, mEDRA provides the DOI registration service to publishers in EU market, both directly and through the partnership with MVB in the German linguistic area.

**OPOCE DOI Registration Agency (since 2006...)**

**Digital Library frameworks like Fedora**
CINECA expertise in Bibliographic databases

**Italian ISBN Agency:**
- Italian Publishers’ database and Back Office service
- Bibliographic database and the respectively services for Publishers
- Interoperable with the Italian BIP


**Metadata:** mEDRA provides services for metadata interoperability in the book trade and has expertise in ONIX (AIE is Editeur board member) and other metadata standards.
WP4 System enhancement and maintenance (CINECA)

Bologna 29 June 2011
WP4: Global Overview

<table>
<thead>
<tr>
<th>Start Month</th>
<th>End Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>CIN</th>
<th>AIE</th>
<th>KB</th>
<th>MV B</th>
<th>Editeur</th>
<th>ICL A</th>
<th>BOE K</th>
<th>EKT</th>
<th>PK</th>
<th>CIEL A</th>
<th>DIT ECH .IT</th>
<th>UIB K</th>
<th>OS DEL</th>
<th>CED RO</th>
<th>DIT ECH -RO</th>
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<tbody>
<tr>
<td>116</td>
<td>18</td>
<td>50</td>
<td>8</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>23</td>
<td>12</td>
<td>3</td>
<td>3</td>
<td>24,5</td>
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</table>
WP4: management strategy
WP4: Management of Technical Providers

- CINECA coordinates the work to be done by TEL, mEDRA and Ditech.IT.
- Ditech.IT coordinates the implementations done by Ditech.RO.
- TEL coordinates with CIN and AIE concerning the definition of a role of EKT at support of data conversion (ingestion of national library catalogues)
WP4: Agile Project Management

- It’s an iterative method for determining project requirements for software
- It allows to deliver projects in a highly flexible and interactive manner
- It stems from Agile Software Development
- ASD is based on iterative and incremental development (every 2 weeks)
- APM best comes to fruition in projects which by definition change constantly and which specifications cannot be cast in stone
WP4: Agile PM in practice

- Establish a reference person for each WP
- Provide partial deliverables
- Have periodic conference calls (every two weeks)
  - For WP3 organise a meeting for each country with the relevant stakeholders
  - For WP5 at M6 to have a first meeting with FEP, MVB and CEDRO in order to obtain a partial deliverable
  - For WP6 at M6 to have a first meeting with EVA, AIE, Editeur and CEPIC.
## WP4: Expected results, outputs, dependences

<table>
<thead>
<tr>
<th>Task</th>
<th>Details</th>
<th>Dependencies</th>
</tr>
</thead>
</table>
| System Enhancement                         | • System maintenance  
• Use Cases (Welcome Trust)  
• Enhancements                                                          | CINECA-TEL-mEDRA  
D4.1 - M13                                                             |
| New countries inclusion                    | • Integration of new data providers in new countries (roadmap for inclusion) | CINECA-TEL-Ditech  
D4.4 - M30                                                           |
| Set up BIP service                         | • Minimum set of core functionalities, according to the technical specifications (MVB) | CINECA-mEDRA-Ditech  
D4.2 - M18                                                           |
| Set up RRO service                         | • Minimum set of core functionalities, according to the technical specs (CEDRO) | CINECA-mEDRA-Ditech  
D4.3 – M20...M23                                                      |
| Integration of visual material             | • Enhance metadata schema  
• Review the Arrow business logic                                         | CINECA-TEL-Ditech  
D4.4 – M30                                                           |
| Registry of Orphan Work                    | • Design and implementation of new tools for rightholders claiming of rights in collaboration with UIBK. | CINECA-mEDRA  
D4.4 – M30                                                           |

**ARROW**
WP4: Criticalities
<table>
<thead>
<tr>
<th>Action</th>
<th>Output (also including final deliverables)</th>
<th>Partner and person in charge</th>
<th>Other partners with primary responsibility</th>
<th>Date of completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhancement : Welcome Trust use case</td>
<td>Diligent search enhancement (no-match) • Validation step automation framework • Decision handlers extension • Procedures and external tools - &quot;Wellcome Trust&quot; specific in the staging environment</td>
<td>CINECA – Gabriella Scipione</td>
<td>mEDRA - Giuseppe Trotta</td>
<td>15/06/11</td>
</tr>
<tr>
<td>Arrow FrontEnd Enhancement</td>
<td>New interfaces • Integration of partial results views for advanced users in the staging environment</td>
<td>CINECA – Gabriella Scipione</td>
<td>mEDRA - Giuseppe Trotta</td>
<td>15/06/11</td>
</tr>
<tr>
<td>Arrow FrontEnd Enhancement</td>
<td>Glossary adjustments in the staging environment</td>
<td>CINECA – Gabriella Scipione</td>
<td>mEDRA - Giuseppe Trotta</td>
<td>31/08/11</td>
</tr>
<tr>
<td>Arrow FrontEnd Enhancement</td>
<td>Usability and performance Improvement in the staging environment</td>
<td>CINECA – Gabriella Scipione</td>
<td>mEDRA - Giuseppe Trotta</td>
<td>31/08/11</td>
</tr>
<tr>
<td>Arrow FrontEnd Enhancement</td>
<td>Deploy of the previous tasks in production environment</td>
<td>CINECA – Gabriella Scipione</td>
<td>mEDRA - Giuseppe Trotta</td>
<td>31/08/11</td>
</tr>
<tr>
<td>System analysis, identification of areas of improvements</td>
<td>Documentation of the proposed improvements</td>
<td>CINECA – Gabriella Scipione</td>
<td>Ditech.IT - Giorgio Gamberini mEDRA – Elda Rrapi</td>
<td>31/08/11</td>
</tr>
<tr>
<td>CINECA maintenance service</td>
<td>Continuos maintenance of the system</td>
<td>CINECA – Cinzia Caroli</td>
<td></td>
<td>End of the project</td>
</tr>
</tbody>
</table>
FURTHER INFORMATION

GABRIELLA SCIPIONE

CINECA
VIA MAGNANELLI 6/3
CASALECCHIO DI RENO (BO) 40127
ITALY

http://www.arrow-net.eu

g.scipione@cineca.it