Structure & Content of the Presentation

1. ERC in general
2. ERC Evaluation System
3. ERC Research Information System
What is the ERC?

ERC is a new type of funding body in Europe to support excellence in frontier research through a bottom-up, individual-team, pan-European competition.

Budget: € 7.5 billion (2007-2013)

Legislation
- Independent Scientific Council with 22 members
- Support by the ERC Executive Agency
- Significant budget (1.1 billion €/year)
- Excellence as the only valid criterion

Strategy
- Support for the individual scientist – no networks!
- International peer-review
- No predetermined subjects (bottom-up)
- Support of frontier research in all fields of science and humanities
## ERC Competitions 2007 - 2011

<table>
<thead>
<tr>
<th>Type of Grant</th>
<th>Total number of applications received</th>
<th>Evaluated*</th>
<th>Funded</th>
<th>Success rates**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting Grant 2007</td>
<td>9,167</td>
<td>8,794</td>
<td>299</td>
<td>3.4</td>
</tr>
<tr>
<td>Starting Grant 2009</td>
<td>2,503</td>
<td>2,392</td>
<td>245</td>
<td>10.2</td>
</tr>
<tr>
<td>Starting Grant 2010</td>
<td>2,873</td>
<td>2,767</td>
<td>436</td>
<td>15.8</td>
</tr>
<tr>
<td>Starting Grant 2011</td>
<td>4,080</td>
<td>4,005</td>
<td>480</td>
<td>12.0</td>
</tr>
<tr>
<td><strong>Starting Grant</strong></td>
<td><strong>18,623</strong></td>
<td><strong>4,005</strong></td>
<td><strong>1,460</strong></td>
<td><strong>10.3</strong></td>
</tr>
<tr>
<td>Advanced Grant 2008</td>
<td>2,167</td>
<td>2,043</td>
<td>282</td>
<td>13.8</td>
</tr>
<tr>
<td>Advanced Grant 2009</td>
<td>1,587</td>
<td>1,526</td>
<td>245</td>
<td>16.1</td>
</tr>
<tr>
<td>Advanced Grant 2010</td>
<td>2,009</td>
<td>1,967</td>
<td>271</td>
<td>13.8</td>
</tr>
<tr>
<td>Advanced Grant 2011***</td>
<td>2,284</td>
<td>2,246</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Grant</strong></td>
<td><strong>8,047</strong></td>
<td><strong>7,782</strong></td>
<td><strong>798</strong></td>
<td><strong>14.5</strong></td>
</tr>
</tbody>
</table>

* withdrawn and ineligible proposals not taken into account;
** percentage of funded proposals in relation to evaluated proposals
*** evaluation not yet completed
Structure & Content of the Presentation

1. ERC in general
2. ERC Evaluation System
3. ERC Research Information System
ERC AME – a task of the ERC Scientific Council

Legal basis:
The ERC Scientific Council is entrusted – among others - with the task “to monitor quality of operations and evaluate programme implementation and achievements and make recommendations for corrective or future actions”

Monitoring

Inform decision making of the ERC council and ERCEA senior management

Evaluation

Provide evidence base for the ERC Assessment (mid-term review, ex-post evaluation … by the EC& reporting obligations of the ERC/ERCEA)

Inform stakeholders, partners and the public on ERC activities, performance and impact
A Framework to organize the M&E activities

Objectives

- Stable, effective administration
- Reinforce excellence, dynamism and creativity
- Attractiveness of Europe for best researchers
- Attract industrial research investment, exploit research assets, foster innovation

Dimension

- Performance
  - Performance in Science Management and Organisation efficiency
- Direct impact
  - Advancing the frontier of knowledge and training
- Structural impact
  - Impact on researchers, research institutions and research policies
- Derived impact
  - Socio-economic Impact

Components

- Accountability & Information
- Science Management
- Management Efficiency
- Advancing knowledge & dissemination
- Emerging research areas
- Training
- Researchers (career, mobility)
- Research organisations
- Research policies & funding structures
- Economic benefits
- Societal benefits
- Innovation systems
Structure & Content of the Presentation

1. ERC in general
2. ERC Evaluation System
3. ERC Research Information System
A Platform to enable ERCEA to meet its reporting obligation on ERC achievements and impact of its funding activities

MAIN FUNCTIONALITIES:

- Collect and management of outputs and related data
- Support analysis
- Browse/Search/Display

**STATUS**: in development; testing planned in December, **deployment in February**
Background

Analysis of existing CRIS

Analysis of evaluation systems in various national funding organizations
Data Model

WITHOUT ASKING THE GRANTEES’
Management of Output data (publications)

Harvesting
- Scopus
- Web of Science
- ArXiv
- PubMed

Cleaning
- Clean full publication records (PI)

Validation
- ERC attribution
  - Non ERC
  - ERC

Enrich
- Journal level metrics
  - e.g. JCR; SCIMAGO Journal Ranks
- Article level metrics
  - e.g. Faculty of 1000; subject to “Perspective”; Viewpoint, or research highlight

Data model
- Res. Highlights
- Further checks / validation
- Without Acknowledgment
- With Acknowledgment
- Full publication record

Other sources?
- e.g. SPIRES High Energy Physics
  - e.g. duplicates, linking data from various sources
  - e.g. Confirm authorship (see problems with AuthorID), identify editorial materials
- Publication records where PI not author, but with acknowledgment
  - e.g. On the basis of “acknowledgment” but also mid-term reports (e.g. Later also PI validation)

A good DOI resolver would make things easier

Collate publications records from various sources
- Identify groups (ERC, not ERC; etc.)
- Store „enrich data“
Enrich: “post-publication” and “post-acceptance” peer review

Viewpoints ... focus on single paper and put the result into broader context.
Enrich: Scientific magazines: editors’ choice

< not own papers >
Several issues to be solved

• Some data sources are not yet tested (e.g. Web services of the US Library of Congress)

• Attribution / Linking project to outputs
  ➔ Currently “acknowledgments”
  ➔ Experimenting with text mining techniques
  ➔ Possibly later : Grantees’ confirmation

• Resources for further developments (Manual work required on some items, quality assurance; Grantees’ interface; Public interface)

• Benchmark data (partly needs to be bought)
Release Plan

1) INTERNAL – reporting tool

- α-Release: Publications (J.Art.)
- β-Release: Other Publications type Patents/ Related Projects
- γ-Release: Benchmark data

Selected non-funded applicants or Selected researchers funded by other sources & (macro-level) performance benchmark (EU/US, Global)

2) Link to SESAM (Grantees’ Reporting Tool)

3) Public Interface