

The background of the slide is a photograph of a modern university campus. In the center, a tall, curved glass building with a blue-tinted facade stands prominently. To its left, another glass building is partially visible. The foreground is dominated by a large, dark pond with a central fountain that sprays water high into the air, creating a rainbow. The scene is framed by lush green trees and a clear blue sky.

# ERC Research Information System

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# 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

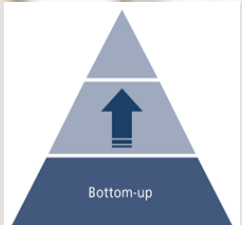
**Budget:** € 7.5billion (2007-2013)

## 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

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

\* withdrawn and ineligible proposals not taken into account;

\*\* percentage of funded proposals in relation to evaluated proposals

\*\*\* evaluation not yet completed

~ 2,600

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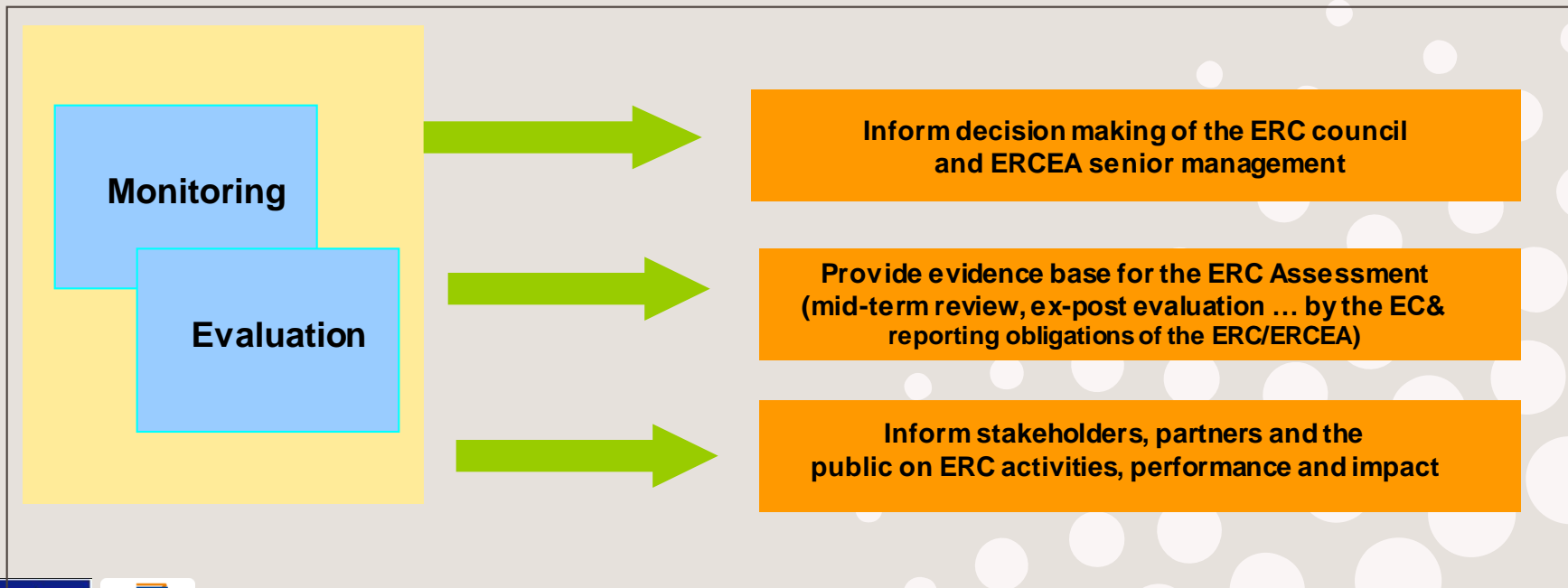
3 **ERC Research Information System**



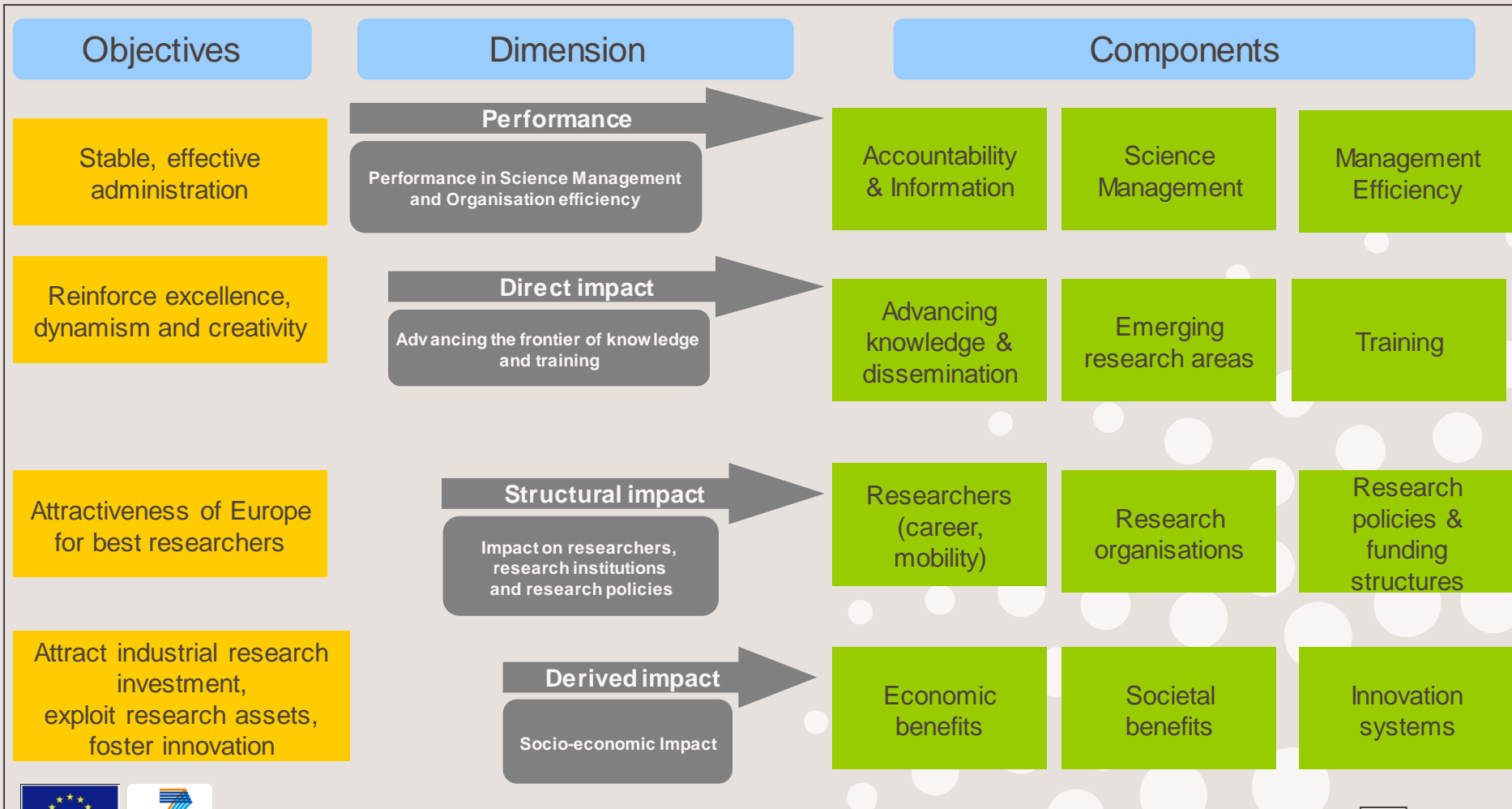
# ERC AME – a task of the ERC Scientific Council

## 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*”



# A Framework to organize the M&E activities



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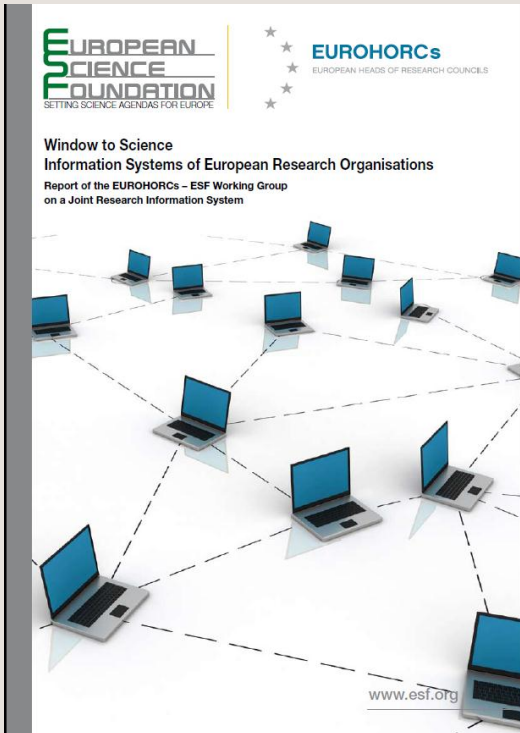
## A Platform to enable ERCEA to meet its reporting obligation on ERC achievements and impact of its funding activities

### 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**

## Analysis of existing CRIS



**EUROPEAN SCIENCE FOUNDATION**  
SETTING SCIENCE AGENDAS FOR EUROPE

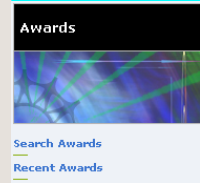
**EUROHORCs**  
EUROPEAN HEADS OF RESEARCH COUNCILS

Window to Science  
Information Systems of European Research Organisations  
Report of the EUROHORCs – ESF Working Group  
on a Joint Research Information System


www.esf.org

## Analysis of evaluation systems in various national funding organizations

### NSF



Awards



[Search Awards](#)

[Recent Awards](#)

Award Abstract #1049463

**Collaborative Research: Comparative Studies of Circum-Arctic Neoproterozoic-Paleozoic Terranes**

NSF Org: [EAR](#)  
[Division of Earth Sciences](#)

Initial Amendment Date: February 18, 2011



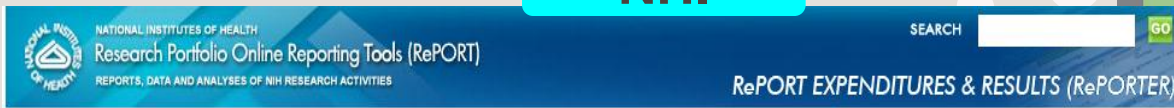
**EUROPEAN SCIENCE FOUNDATION**  
SETTING SCIENCE AGENDAS FOR EUROPE

**MEMBER ORGANISATION FORUM**

Evaluation in National Research Funding Agencies: approaches, experiences and case studies  
A report of the ESF Member Organisation Forum on Ex-Post Evaluation of Funding Schemes and Research Programmes

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### NHI



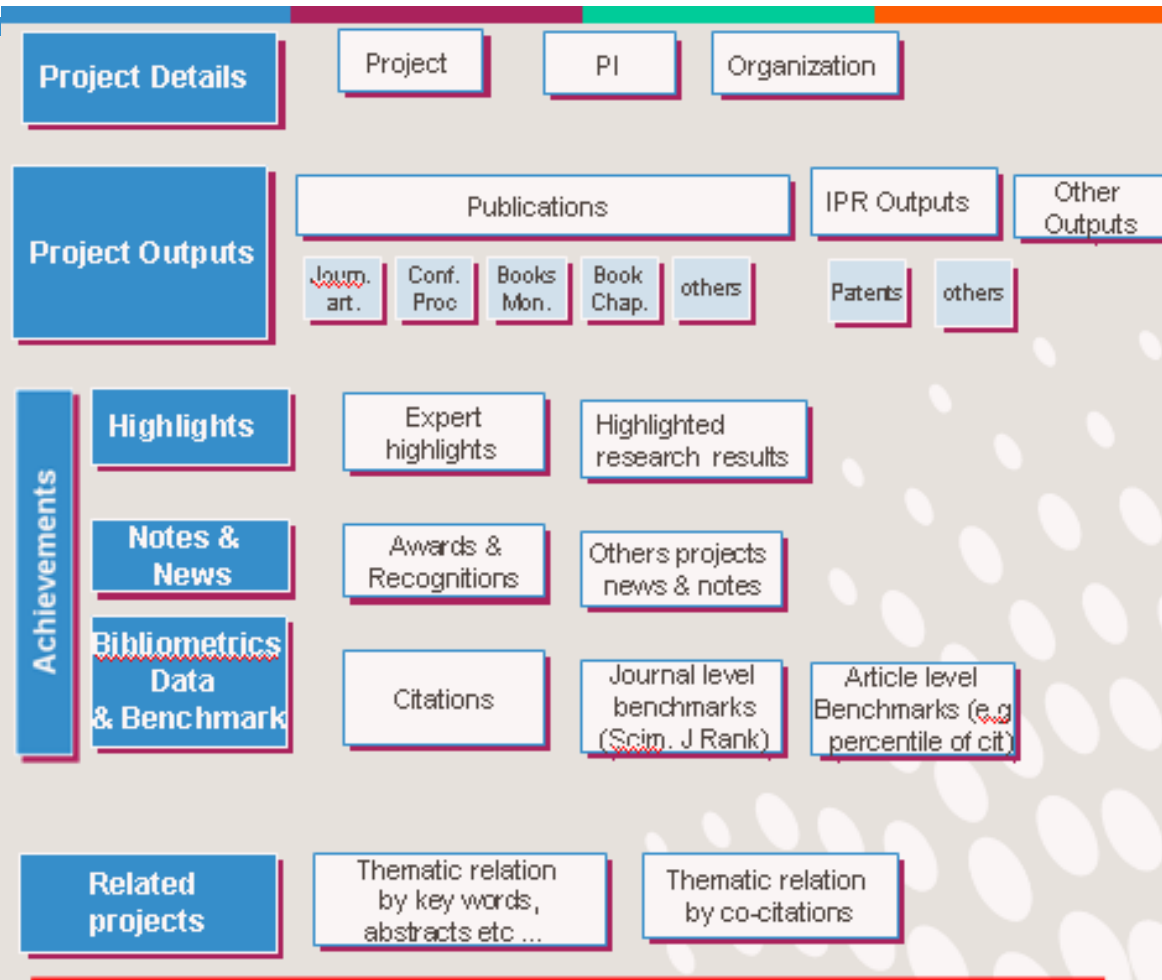
**NATIONAL INSTITUTES OF HEALTH**  
Research Portfolio Online Reporting Tools (RePORT)  
REPORTS, DATA AND ANALYSES OF NIH RESEARCH ACTIVITIES

SEARCH  [GO](#)

RePORT EXPENDITURES & RESULTS (RePORTER)

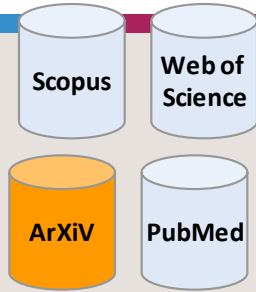


## WITHOUT ASKING THE GRANTEES'





# Management of Output data (publications)



Harvesting

Other sources ?

e.g. SPIRES High Energy Physics

Cleaning

e.g. duplicates, linking data from various sources

Clean full publication records (PI)

Validation

e.g. Confirm authorship (see problems with AuthorID), identify editorial materials

Publication records where PI not author, but with acknowledgment

Full publication record

Without Acknowledgment

With Acknowledgment

ERC attribution

e.g. On the basis of "acknowledgment" but also mid-term reports (ev. Later also PI validation)

Further checks / validation

Non ERC

ERC

e.g. JCR; SCIMAGO Journal Ranks

Journal level metrics

Enrich

A good DOI resolver would make things easier

e.g. Faculty of 1000; subject to "Perspective"; Viewpoint, or research highlight

Article level metrics

Res. Highlights

Data model

- 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

< involves Peer Review >



# Enrich: Scientific magazines : editors' choice



RESEARCH HIGHLIGHTS

nature  
biotechnology

nature  
genetics

nature  
medicine

nature  
photonics

nature  
chemistry

nature  
physics

nature  
materials

nature  
cell biology

nature  
neuroscience

< 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

$\alpha$ -Release: Publications (J.Art.)

$\beta$ -Release: Other Publications type  
Patents/ Related Projects

$\gamma$ -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

?