



Innovation
Research
Centre

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4th Set of Indicators for Monitoring & Evaluation



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Useful indicators

- Related with strategy and policy objectives of the organisation
- Comparable internationally between the organisations of the same type/same mission
- Provide support for strategic decision



Purpose of Using Indicators

Monitoring and Evaluating

- International Research Activities
- Policies, programmes and fundings for internationalization

Compare / Benchmark

- National and regional efforts and performances (intra-EU and EU to extra-EU)



The Indicators are designed ...

- By Type of Organisations
 - Funding Agencies
 - Research performing organisations
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- A blue oval containing the word 'Hybrid' in white text. Two light blue arrows originate from the oval: one points to the right of 'Funding Agencies' and the other points to the right of 'Research performing organisations'.

Different type of organisations may employ

- Common indicators for different purposes
- Different indicators that are organisation specific



Proposed Short List of Indicators by Functions

Resource flow and Funding indicators

Indicators on Knowledge Production

- A. FA supported knowledge production
- B. RPO knowledge production

Knowledge Circulation indicators

- A. Facilitating knowledge circulation by FA
- B. Knowledge circulation indicators for RPO

Collaborative and Networking indicators

- A. Internationally shared/used (large) facilities
- B. Volume of internationalisation

Organisational and Procedural Indicators



I. Resource flow and Funding Indicators

Funding Agency	Status
Dedicated budget for internationalization EUR %	A
Sum of budget spending abroad (money going out) EUR %	AC
Sum of budget to attract foreigners (total) EUR %	AC
Sum of funding dedicated to joint and matching research programs, sub-programs	AC
Sum of budget coming from international sources (money inflow)	A

RPO	Status
Sum of funding dedicated to joint and matching research programs, sub-programs	AC

Sum of budget coming from international sources (money inflow)	A
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In the column of 'status' here and other tables:

A = available in ready format

AC = data are accessible for calculating the indicator

Source: IAS (Budget of FA /RPO), OS(Eurostat)



II. Indicators on Knowledge Production

Funding Agency: Supported Knowledge Production	Status
Number of international co-authored papers to total publications of researchers funded by FA	A/AC
Number of co-patents with international partners to total patents from research activities funded by FA	A/AC
Number of publications in internationally relevant journals to total publication of researchers funded by FA (internationalization of scientific field is the benchmark)	A/AC

Source: IAS (WoK, Scopus), EAS (EPO)



II. Indicators on Knowledge Production cont.

RPO: Knowledge Production	Status
Number of international co-authored papers to total publications of the country	A
Number of co-patents with international partners to total national patents	A
Number of publication in internationally relevant journals to total publication of the country (internationalization of scientific field is the benchmark)	A
Citation Indices	A/AC



Source: IAS (Internal administrative sources)



III. Knowledge circulation indicators

FA Facilitating Knowledge Circulation	Status
Sum of dedicated fund for going abroad to total budget (%)	AC
Sum of dedicated fund for going abroad	A
Nr. of people funded to go abroad	AC

RPO Knowledge Circulation indicator	Status
Share of staff from abroad (%)	AC
Inward/outward mobility %	AC
Nr. of people hired from abroad	A
Nr. of PhDs studying abroad	A

Source: IAS (Internal administrative sources)



IV. Collaborative & Networking Indicators

A.) Internationally shared/used (large) facilities

Funding Agency	Status
% of annual budget spent on large facilities (investment, operational cost)	AC
Sum spent on internationally large facilities	AC

RPO	Status
Working hours at internationally large facilities by employees	AC
Working hours at own facilities by foreign users	AC
Sum spent on internationally large facilities used by RPO	AC
Amount of fund spent on using internationally large facilities by RPO employees	AC
Nr. of own facilities shares internationally	AC

Source: IAS (Internal administrative sources)



IV. Collaborative & Networking Indicators cont.

B.) Volume of internationalization

Funding Agency	Status
Nr of units abroad	A
Nr of recruited permanent researchers from abroad	AC

RPO	Status
Nr of units abroad	A

Source: IAS (Internal administrative sources)



V. Organisational and Procedural Indicators

Funding Agency	Status	RPO	Status
% of foreign reviewer and panellist	A	% of foreign reviewer and panellist	A
Number of joint programmes via bilateral agreements	A	Number of joint programmes via bilateral agreements	A
Number of joint programmes via multinational agreements	A	Number of joint programmes via multinational agreements	A

Demand: international programming

Source: IAS (Internal administrative sources)



Future tasks

- Detailed description of indicators and classification
- Prepare indicators for that fields where demand is present
- Identify further data sources for indicators
- Feasibility / Pilot Survey
- Analysis
- Guideline for latecomers



Work in Groups Today:

- Clarify indicators if needed
- Prioritise the list of indicators by function (to reach a workable short list of indicators)
- Agree on the level of aggregation/disaggregation
- Identify the potential problems with
 - International comparability
 - Realibility
 - Quality
 - Sources
 - Time



*Thank you for your
kind attention!*

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