

Horizon 2020 Policy Support Facility



MLE on 'National Strategies and Roadmaps for Intl. Coop. in R&I'

Assessing Progress

Country Visit France
Paris, 2019-06-03

Purpose

- Check how the internationalisation of the R&I system develops
- Assess how international activity contributes to the overall internationalisation objectives
- Evaluation to assess
 - status quo of the internationalisation of the system (ex-ante [e.g. before the strategy] and ex-post [after the termination of the strategy])
 - embedding of the internationalisation strategy in the overall national R&I strategy (continuous)
 - Evaluating the adequacy, relevance, outputs, outcomes (results) and impacts of the internationalisation measures (and how they contribute to the internationalisation objectives)



Attribution Challenge

- There are many R&I internationalisation indicators, but do they indicate properties and the ToC of the R&I internationalisation strategy?
 - Examples:
 - International co-publications – ‘natural’ growth, also depending on the openness of partners
 - Export quotas of the economy – depending on a country’s market size and the competitiveness of companies (often not targeted by int. R&I strategies)
- Differentiate between R&I internationalisation strategy and R&I internationalisation programmes/instruments/measures



Indicator issues

- No one-size-fits all indicators (e.g. need of different indicators for different considerations)
- Quantitative and qualitative assessments – we need both (+ relational assessment – e.g. related to number of R&D personnel)
- Metrics need to be universal, precise, unambiguous and relevant
- Limited scope of Frascati and Oslo Manual
- Benchmarks are unknown (who is the best in the class? Relational benchmarking recommended)



Data issues

- Uneven data and limited comparability (e.g. depending on availability of RIS; non-harmonised intellectual capital sheets of R&D organisations)
- Often surveys due to lacking secondary data (could be within R&D surveys of national statistics office)
- European pilot surveys should be encouraged
- Dependency from commercial providers (Scopus etc.)
- Internat. unique identifiers improving (e.g. ORCID)
- Repeated statistical surveys for monitoring needed



Indicators related to embedding of the R&I internationalisation strategy

- How many of the national programmes/instruments/tools have an R&I internationalisation component (or are fit and open for it in general) (mainstreaming)?
- How much budget is allocated for R&I internationalisation in these programmes ...?
- What is the scope and size of targeted (uni-, bi- and multi-lateral) R&I internationalisation measures?
- Number of participation, volume and share in int. R&I schemes (JPIs, int. ERA-NETs, RIs)



Indicators at system's level

- Embedding indicators (and those related to main programmes etc.)(see slide before)
- Financial indicators (R&D budget inflow/outflow; share of high-tech exports)
- Int. representation related indicators (R&D offices abroad; staff in intern. R&I organisations; participation in regulatory or standards setting)
- Scientometrics (differentiated by themes, countries, regions; EPO and USTPO patents)
- Mobility patterns (share of foreign academic staff; share of intern. Graduates)
- Project related indicators (juste retour from FPs)



Indicators at the level of organisations

- Financial indicators (e.g. export quota; share of foreign owners; int. licensing)
- Scientometrics (co-publications & impacts; patents)
- International rankings
- PR related indicators (google hits)
- Personnel related indicators (int. appointments; share of foreign personnel)
- Mobility indicators (guest professors; foreign students)
- Offshoring and int. joint ventures
- Project related indicators (participations, coordinations, raised int. third party financing)



Indicators at the level of individuals

- Publication related indicators (quantity and quality)
- Patent related indicators
- Scientific and non-scientific speeches (e.g. active conference attendance)
- Participation in international bodies (e.g. advisory groups of the EC; editorial boards ...)
- Mobility related indicators (e.g. intern. research stays; intern. appointments)
- Degrees obtained abroad
- Number of cotutelle de thèse
- Project related indicators (e.g. participation in FPs; coordination of FP projects; raised intern. funding)



Open reflection and discussion

Inspiring examples and lessons learnt from the participating countries

Which indicators are used and how are benchmarks set?

Examples of monitoring practices

