



ERA
LEARN
2020

ERA-LEARN 2020 Guide for impact assessment of P2Ps

**[https://www.era-learn.eu/monitoring-and-
assessment/Monitoring-and-impact-assessment-of-networks](https://www.era-learn.eu/monitoring-and-assessment/Monitoring-and-impact-assessment-of-networks)**

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The ERA-LEARN 2020 Guide for P2P IA

- Step 1: Defining the intervention logic of the P2P
- Step 2: Linking the challenges and objectives
- Step 3: What are the inputs and activities that will achieve the objectives
- Step 4: What are the outputs of the programme and project activities?
- Step 5: What are intermediate and global impacts?
- Step 6: Setting up a monitoring system of inputs, outputs and outcomes
- Step 7: Defining output, outcome and impact indicators
- Step 8: Data collection and analysis methods
- Step 9: From planning to actually conducting a P2P evaluation

But before we start...

The clearer the intended purposes of an evaluation are outlined in advance, the more useful an evaluation can be.

1. **Who is performing** the evaluation (i.e. external evaluators, managing authorities, or funding agencies) and how will transparency be ensured?
2. What are the **objectives** of the evaluation?
3. **At what times** must different evaluation outputs be finalized (reports, meetings, etc.)?
4. What will be **the results/outputs** of the evaluation?
5. How will the evaluation outputs be **used, published and communicated** to decision-makers?

But before we start...

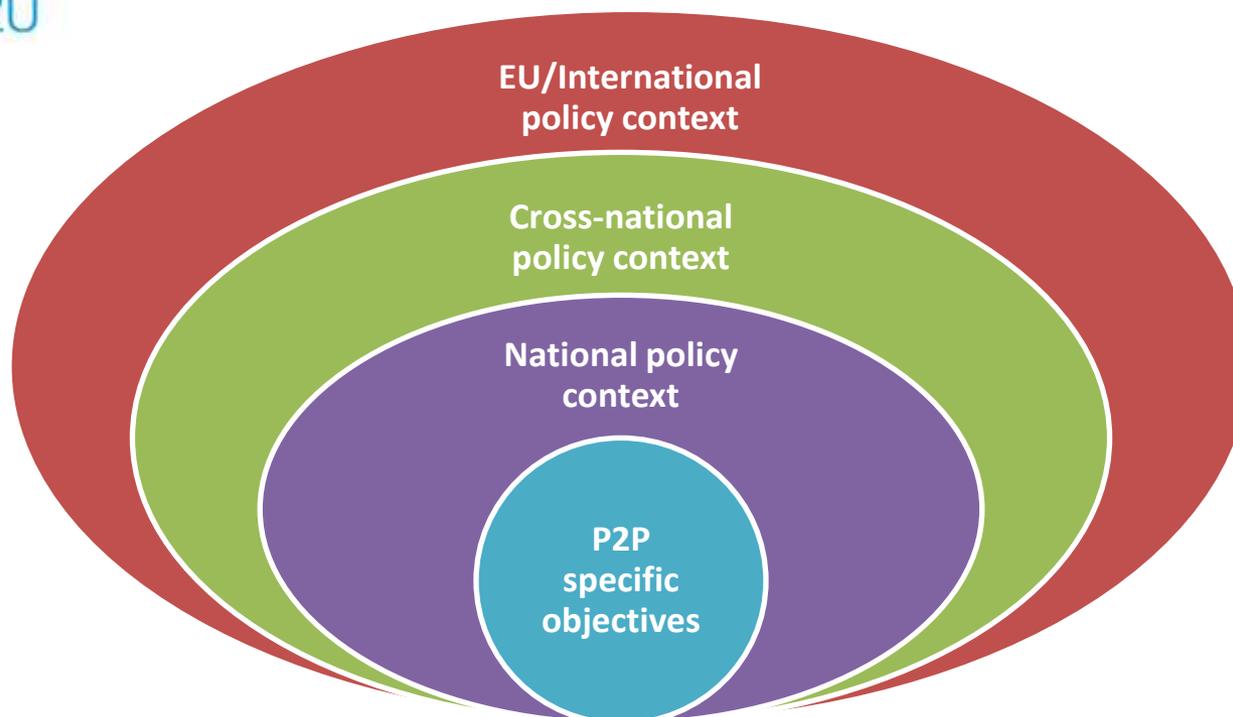
- *The **more stakeholders are involved** in the evaluation, the more **useful evaluations** are and vice versa;*
- ***Dissemination** of the results **widens the usefulness** of an evaluation - utilisation and dissemination plans should be part of the evaluation design;*
- *We need to **understand how decisions and activities occur** in a diffused decision-making model such as a P2P network;*
- *We need to recognise that networks evolve through stages of development and that their **shape and structure are important** influences on their development as well as delivery of impacts;*
- *We need to acknowledge that **it takes time** to organize networks effectively and show results - however, it is possible to see progress*

Step 1: Defining the intervention logic



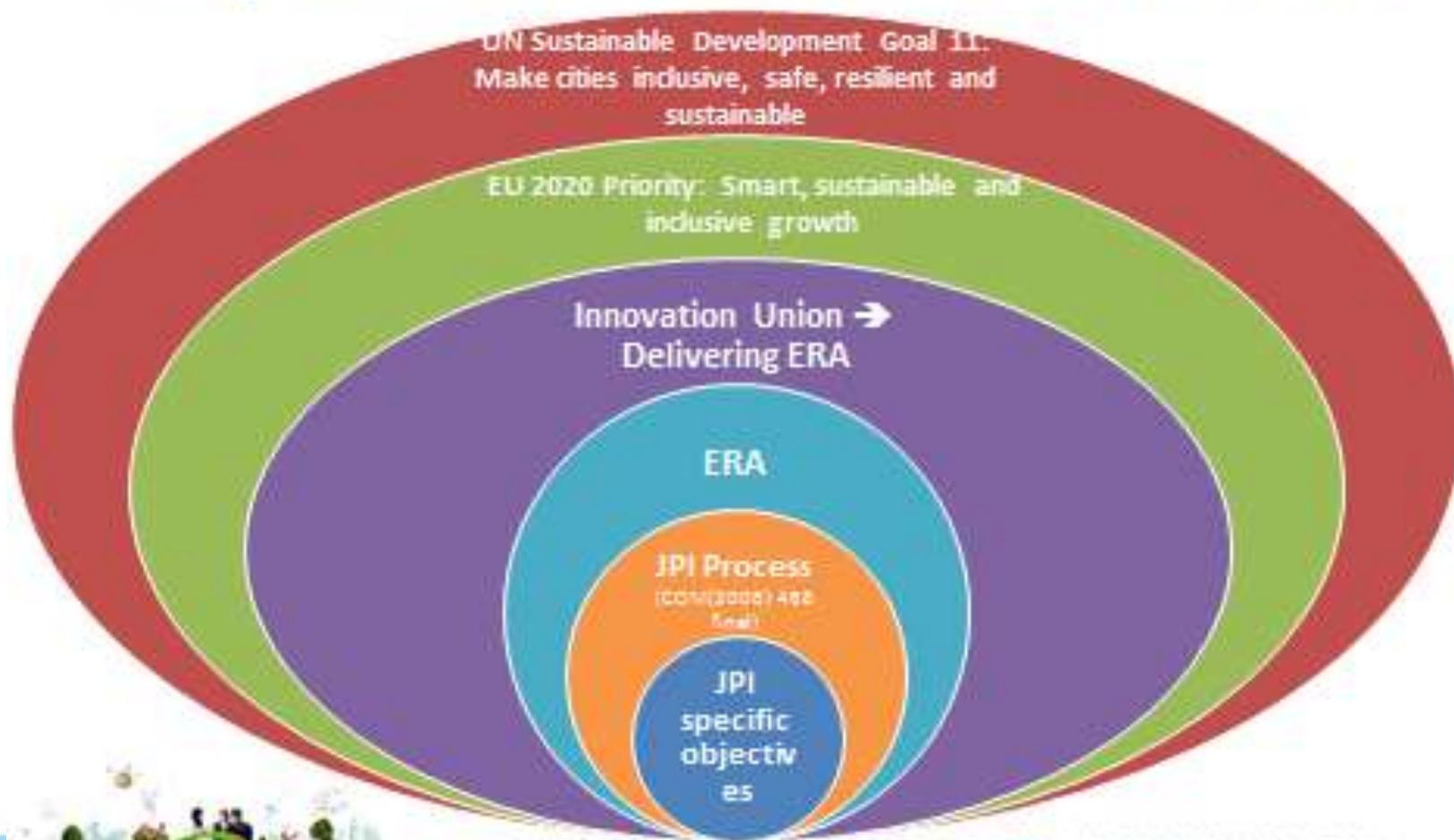
- *The **clearer and more verifiable the objectives** of a programme, the more useful its evaluation;*
- *We need to consider that networks have a “**chain of impact**” that includes*
 - *the network’s impact on its members (network level)*
 - *the members’ impacts on their local environments, (national level)*
 - *the members’ combined impact on their broader environment (trans-national)*
- *Evaluations designed to examine impact must **understand the relationship** between these three levels and be clear about where their focus lies.*

Step 2: Linking the challenges and objectives



- ***Why** was the P2P established? Which challenge, problem, or situation does it aim to address?*
- *What are the main **assumptions** about the way the specific challenge, problem, or situation should be addressed?*
- *What are the short-term, operational **objectives**, the medium-term, intermediate objectives and longer-term, global objectives of the specific P2P?*

Policy Context and Embeddedness of JPIs II



Step 2: Example

Figure 1: Objectives Hierarchy of MNT ERA-NET (<http://www.mnt-era.net/MNT/>)

- Smart, sustainable, inclusive growth
- Effective national research systems; Optimal TN co-operation & competition; Open labour market for researchers; Gender equality & mainstr.; Dig. ERA

Global objectives
(Europe 2020 & ERA
related)

- excellent science, industrial leadership and tackling societal challenges
- support the coordination of non-Community research programmes

Intermediate Objectives
(ERA-NET Scheme;
H2020)

- Best possible integration of regional and national MNT strategies with European needs and visions,
- ensure complementarities with other funding instruments

Specific objectives
(Specific network - here
MNT ERA-NET)

- support collaborative research projects in micro and nanotechnologies encouraging especially the participation of SMEs and newcomers in small consortia

Operational objectives
(calls' objectives)



Step 2: Linking the challenges and objectives

Objectives need to be SMART:

- **Specific:** should be precise and concrete enough to avoid being open to varying interpretation.
- **Measurable:** Objectives should refer to a desired future state (as compared to the baseline situation) so that it is possible at some later date to see whether the objective has been achieved or not.
- **Accepted:** If objectives and target levels are intended to influence behaviour, they must be accepted, understood and interpreted similarly by all of those who are expected to take responsibility for achieving them.
- **Realistic:** Objectives and target levels should be ambitious but they should also be potentially achievable so that those responsible see them as meaningful.
- **Time-dependent:** Objectives and target levels remain vague if they are not related to a fixed date or time period.



Step 3: What are the inputs and activities that will achieve the objectives

Inputs

- Financial, human resources, skills, infrastructures, costs of beneficiaries and end-users, but also
- network structures and processes

Activities

- Implementing transnational calls; additional joint calls
- Dissemination / Up-Take of research results
- Foresight and common vision building
- Strategic Research Agenda / Implementation Plan
- Mapping national/trans-national activities
- Knowledge sharing amongst researchers, Mobility and training
- Research infrastructures; Widening participation; Internationalisation
- Monitoring and evaluation/assessment activities



Step 3: What are the inputs and activities that will achieve the objectives

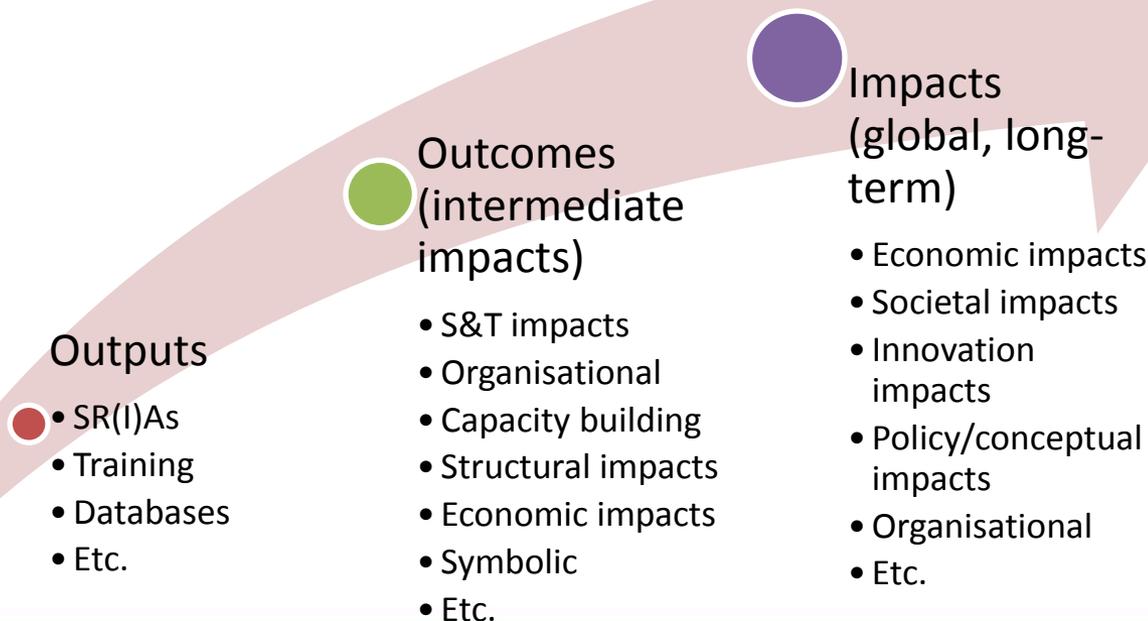
- Which **activities** are expected to help achieve the objectives set (research collaboration, dissemination of results, training, mobility, sharing of infrastructure, network expansion, strategy building, monitoring and evaluation of the P2P, etc.)?
- What are the **key inputs** that these activities require (in terms of money, time, human resources, and capacities)?
- What are the **governance and management structures** and processes that will govern the implementation of these activities (decision making processes, management processes, internal/external reporting processes, etc.)?

Step 4 & 5: What are the output, intermediate and global impacts?

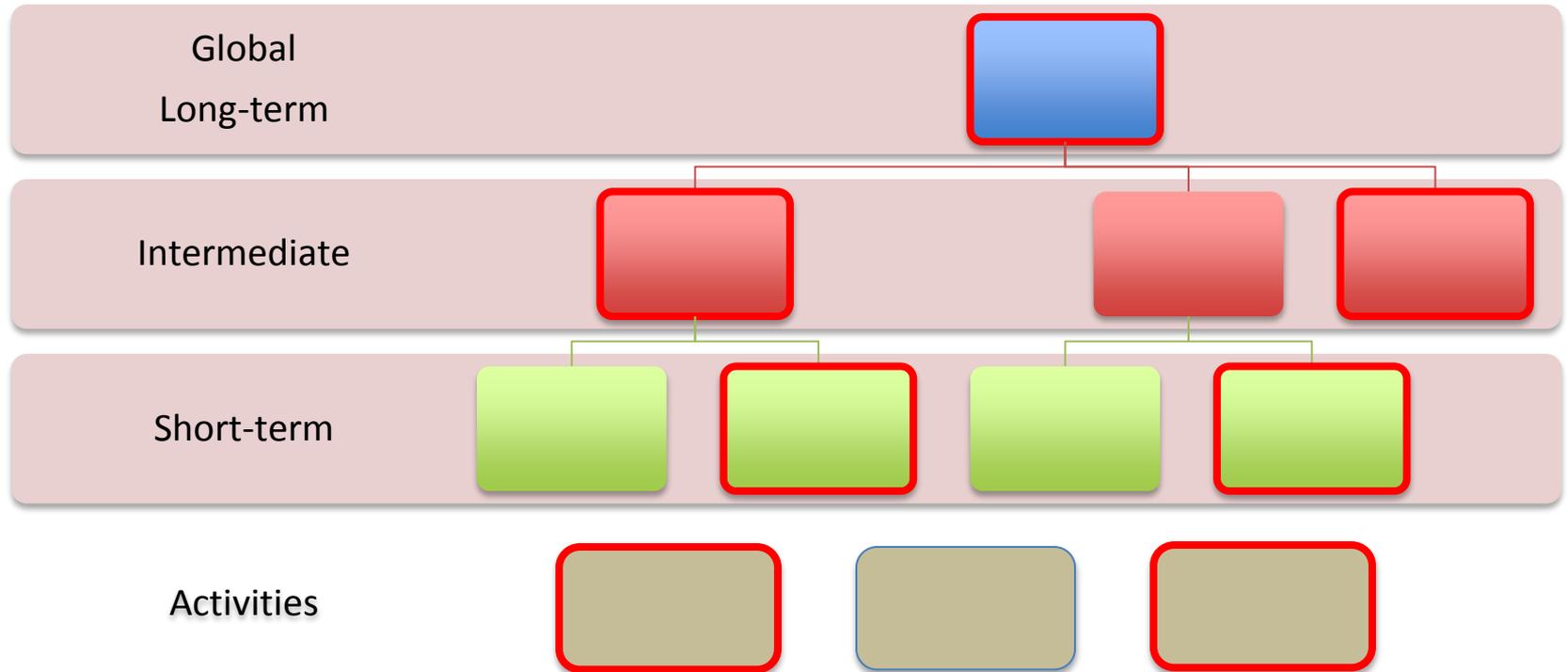
Outputs are items directly produced by certain activities (e.g. workshop reports, Strategic Research and Innovation Agendas, databases of programmes, etc.) and are typically produced within the short-term.

Outcomes can be defined as the likely or achieved short-term and medium-term effects of an intervention's outputs.

Impacts can be defined as positive and negative, primary and secondary long-term effects produced by an intervention, directly or indirectly, intended or unintended.



Objectives' / Impacts' Hierarchy



Types and timing of impacts

	Short-term	Intermediate	Long-term
Societal	Researchers' posts created	Change of consumer practices	Solutions for specific challenge
Economic	More national resources in as area	A national programme	Increased R&D spending in area
R&I	New knowledge Patents, prototypes	Commercialisation of invention	Innovation upscaling
Policy	More attention to the field addressed	A national strategy in the field	Influence of EU/world strategies
Structural	Inter-ministerial bodies for coord	More coordinated national p-making	Creation of inter' al structure
Behavioural	Change of user behaviour	More org. collaborations	International coop. strategies
Symbolic	Improved reputation	Increased track record in projects	Increased international collab

Step 4 & 5: What are the output, intermediate and global impacts?

- *What are the **key outputs** of the activity examined? How are the outputs likely to **influence direct beneficiaries** in the **short-term** time? How are they to **affect indirect beneficiaries**? How are they to affect a **broader set of stakeholders** in the medium to long-term?*
- *How are the various **outcomes** of the P2P likely to **affect the wider environment** in which the P2P is situated, particularly in the **long-term**? (consider all levels: national, cross-national and European/international).*
- *What is the **correspondence** between outputs, intermediate and global impacts with the Objectives' Hierarchy?*



Step 6: Setting up a monitoring system of inputs, outputs and outcomes

- Monitoring is a **continuous and systematic process** of data collection about an intervention.
- Ensure that the monitoring system works **from the outset** and that data will be **collected reliably and smoothly** from the appropriate sources.
- Many monitoring indicators can only be created and developed when the activity is implemented, because you need the **cooperation and agreement of stakeholders** in developing them and in collecting the relevant information.
- Consider carefully and **provide for the cost** of setting up and maintaining a monitoring system over the time life of an intervention. This cost may not be negligible; either to the administrators who need to collect the required information and data or to those expected to deliver it.

Step 6: Setting up a monitoring system of inputs, outputs and outcomes

- *How much will the setting up of the monitoring system **cost and what kind of resources** will be needed to run it? Are these resources (human, financial, time) **in place** and can they be ensured?*
- ***What** data needs to be collected and how is it to be used (for inputs, outputs as well as outcomes)?*
- ***When** should the relevant data be collected (during the monitoring phase, ex-post, how often, etc.)?*
- ***By whom** should the required data be collected (e.g. P2P management team, project team, a centralised P2P systems)? Is the required capacity both in time and skills resources available?*
- *Can the **process be aligned** with the monitoring/reviewing process of the P2P partners? Can the process be aligned with the reporting schedule for the evaluation/impact assessment?*



Step 6: Setting up a monitoring system of inputs, outputs and outcomes

- *How will required data be gathered and stored? Where will the data be stored? Can this be aligned with other monitoring systems?*
- *What are the necessary **data protection protocols** to ensure the system will meet security and data sharing requirements?*
- *How and by whom will the data be **verified** to ensure it is accurate and consistent with the relevant requirements? Are the required skills and resources available for this task?*
- *What are **suitable methods and instruments** for collecting, storing and processing follow-up data?*

Step 7: Defining output, outcome and impact indicators

- Before proposing **new data requirements**, you should carefully assess to what extent the **existing data reflect the objectives set** and whether the missing key data can be collected via **existing monitoring structures**.
- It is essential to understand that **indicators** are subject to a number of **limitations**. They cannot measure all aspects of the reality while indicators that are defined ex-ante can only capture intended impacts. Societal impacts appear especially difficult to measure but **don't fall into the trap that 'Impact is only what we can measure'!**
- It may be the case that the most accurate indicators are extremely **resource intensive** to collect; thus a balance will have to be struck between indicator suitability and ease of collection.
- **Qualitative indicators** can be highly illustrative of the outputs and impacts of activities but are more difficult to aggregate and to subject to quantitative analyses.
- The **appropriateness** of indicators is **case and context dependent**.

Step 7: Defining output, outcome and impact indicators

All indicators should be '**RACER**', i.e.:

- Relevant to the objectives and should measure the right thing;
- Accepted (e.g. by staff, stakeholders who hold responsibility)
- Credible for non-experts, unambiguous and easy to interpret.
- Easy to monitor (e.g. data collection should be possible at low cost).
- Robust against manipulation (e.g. If the target is to reduce administrative burdens to businesses, the burdens might not be reduced, but just shifted from businesses to public administration).
- Examples of indicators from several JPIs (JPICH, FACCE-JPI, MYBL, JPND)
- Examples of indicators at project and network level in the Guide

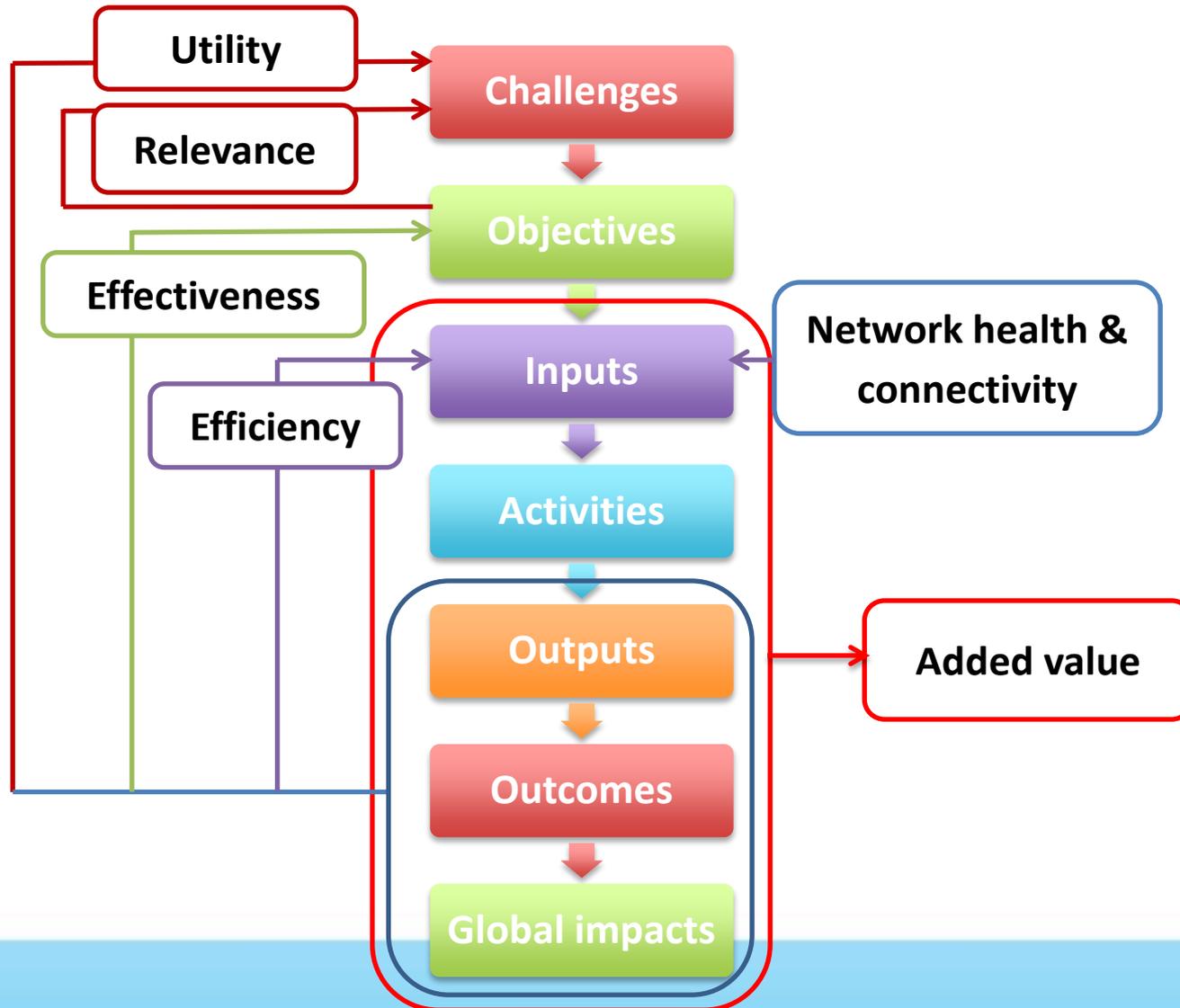
<https://www.era-learn.eu/monitoring-and-assessment/Monitoring-and-impact-assessment-of-networks>

Step 7: Defining output, outcome and impact indicators

- Which are the **key outputs, outcomes and impacts** of an activity?
- For each one of these, **how** can they best be **measured/captured**?
- Is there a **quantitative or qualitative way** (or both) that they can be measured / captured?
- What is the **added value** of applying a quantifiable or a qualitative measurement or a combined approach in measurement?
- Is the **cost** of gathering data for the indicators set affordable? Are the necessary **skills** available?
- Are any relevant **indicators already being estimated** at Member State or EC level?
Can access and compatibility be ensured?

Step 8: Data collection and analysis methods

- *What are the **evaluation issues** and associated evaluation questions that we need to examine?*
- *What are the **key activities and associated outputs, outcomes and impacts** that can contribute to answering the respective evaluation issues and questions?*
- *Which of the relevant output, outcome and impact indicators we shall examine?*
- *How can the **data** for the selected indicators **best be captured** (through monitoring data already available, through new data; quantitatively, qualitatively, both)?*
- *Based on the above what are the **suitable methods** to apply? (consider also time, and resources limitations).*





Step 9: From planning to actually conducting a P2P evaluation

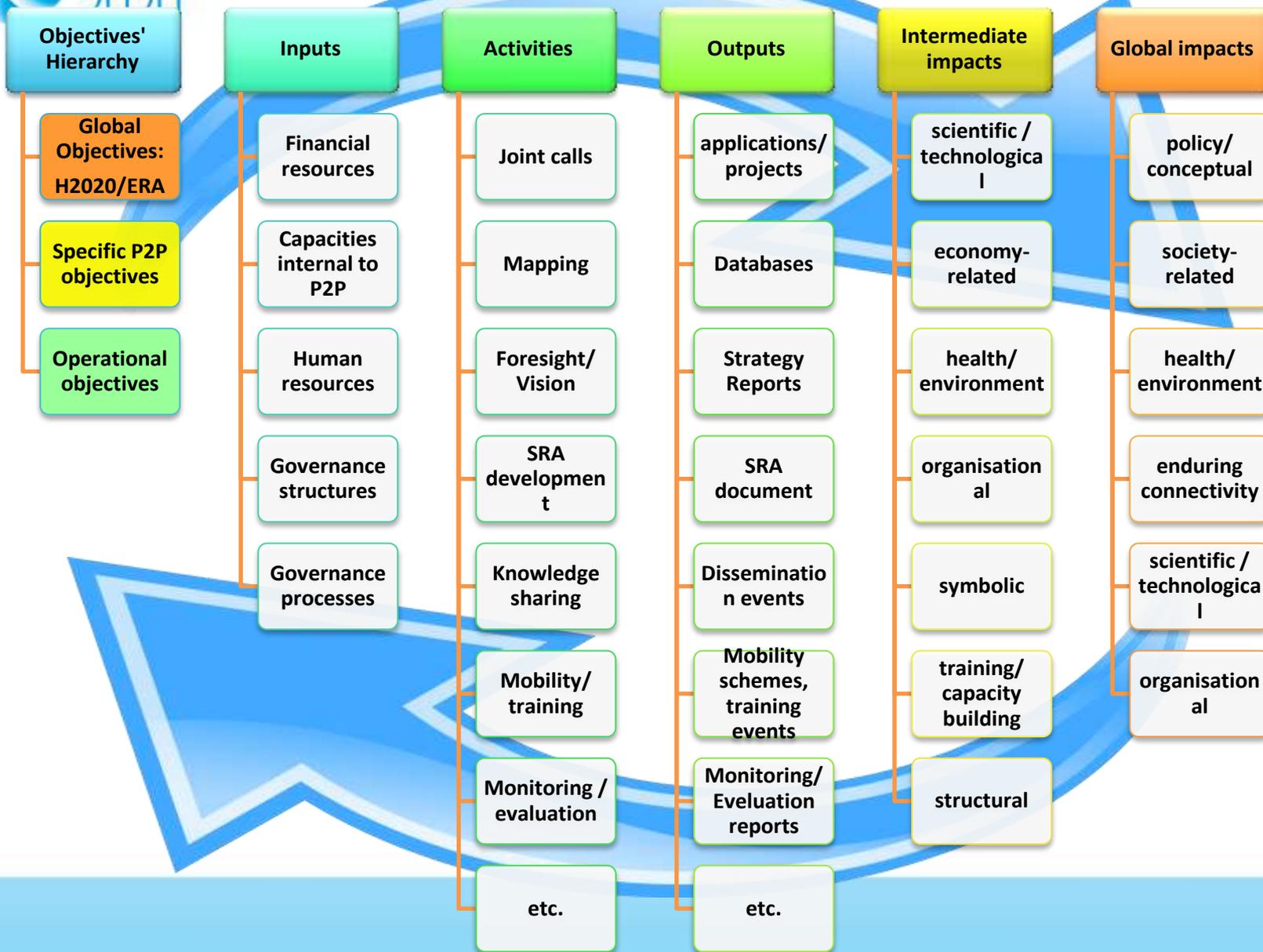
- *Decision Task 1. Defining the audience for the evaluation*
- *Decision Task 2. Selecting the evaluation issues and associated questions*
- *Decision Task 3. Identifying the data requirements*
- *Decision Task 4. Conducting the evaluation*
- *Decision Task 5. Using and disseminating the evaluation findings*



Thank you for your attention!

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The P2P Logical Framework



Assumptions in relation to

- **inputs**

(enough skills, resources)

- **activities and outputs**

(proper activities to lead to envisaged outputs; adequate interest)

- **activities and outputs vis-à-vis impacts**

(high quality outputs, M&E, adequate research capacities, national interest)

- **impacts vis-à-vis objectives**

(favourable wider conditions, impacts not contradicting each other)