



IMPACT-SC5

KEY IMPACT PATHWAYS IN HORIZON EUROPE

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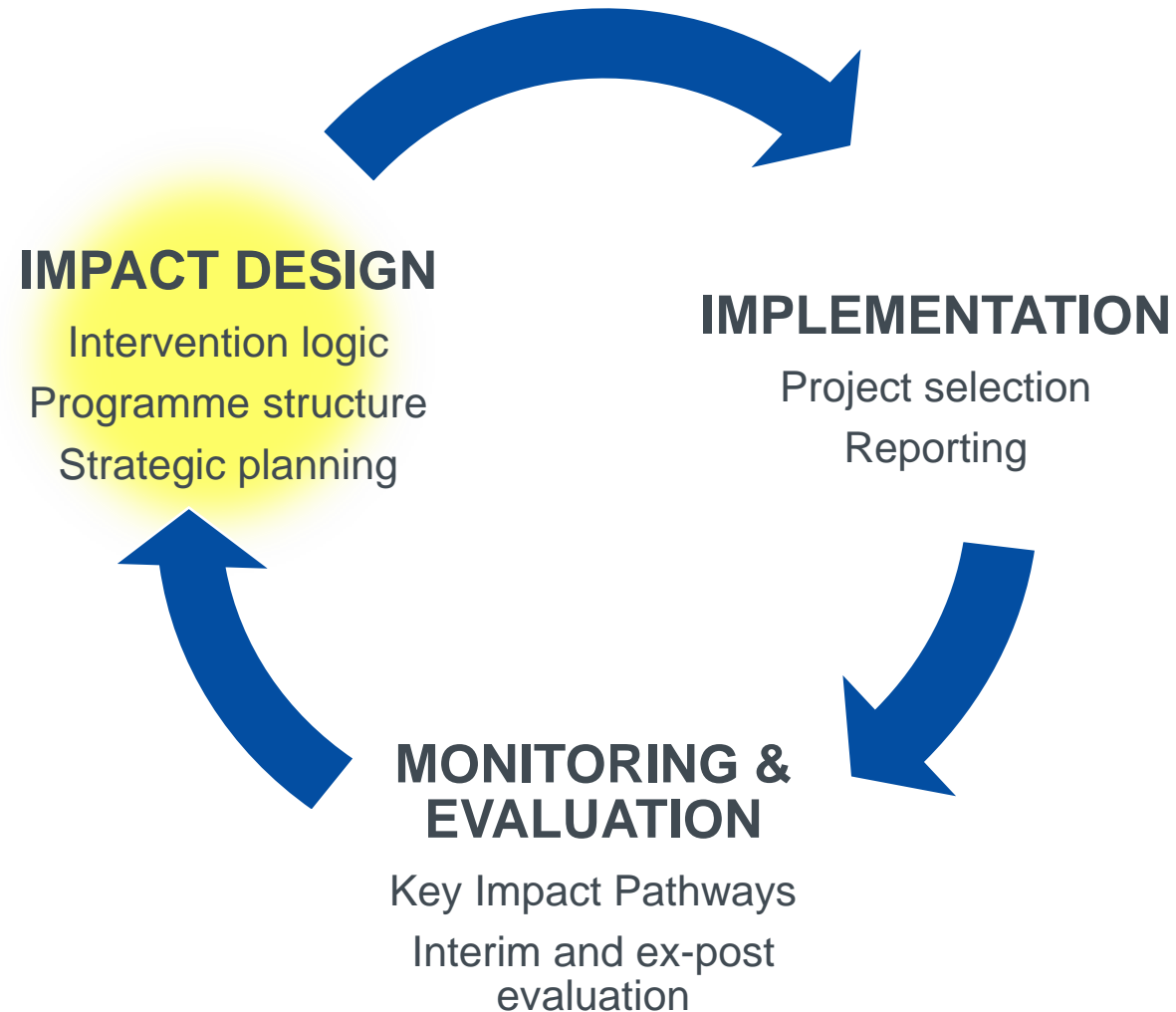
Directorate-General for Research and Innovation, unit G2

European Commission, June 2021



HORIZON EUROPE CYCLE

Impact-driven Framework Programme



IMPACT DESIGN: PROGRAMME

Horizon Europe objectives



Scientific impact

Promote scientific excellence, support the creation and diffusion of high-quality new fundamental and applied knowledge, skills, training and mobility of researchers, attract talent at all levels, and contribute to full engagement of Union's talent pool in actions supported under the Programme



Societal impact

Generate knowledge, strengthen the impact of R&I in developing, supporting and implementing Union policies, and support the uptake of innovative solutions in industry, notably in SMEs, and society to address global challenges, inter alia the SDGs



Economic impact

Foster all forms of innovation, facilitate technological development, demonstration and knowledge transfer, and strengthen deployment of innovative solutions

IMPACT DESIGN: PROGRAMME

Linked to programme evaluation

Economic pathway 7: Generating innovation-based growth



STORY LINE: Horizon Europe generates innovation-based growth, shown by its micro-economic effect on supported companies and its macro-economic effect on EU's economy.

Societal pathway 4: Addressing EU policy priorities and global challenges

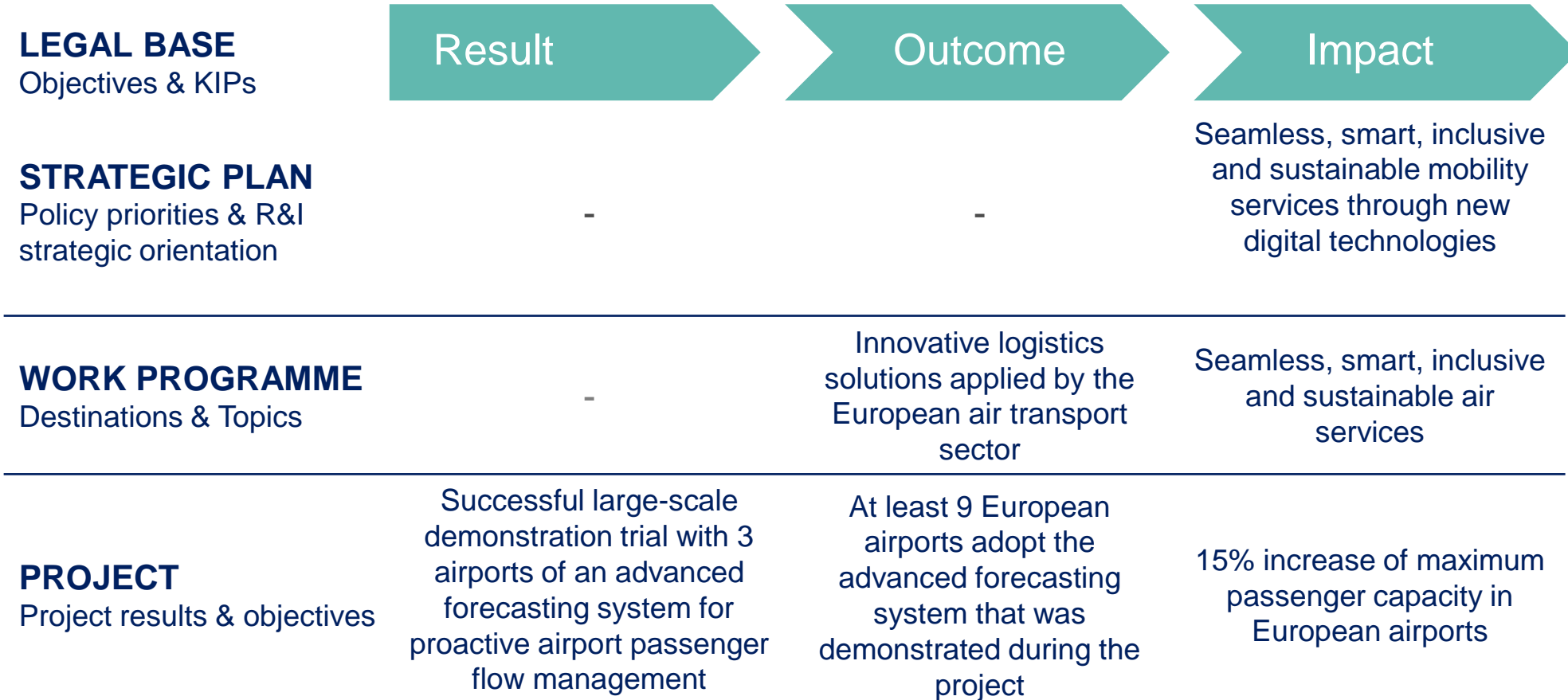


STORY LINE: Horizon Europe addresses EU policy priorities and global challenges through R&I, including the Sustainable-Development Goals.

IMPACT DESIGN: PROJECTS

Linked to project selection

Strategic planning



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Credibility of the project's pathway to impact, and the estimated contribution to the work programme's objectives.

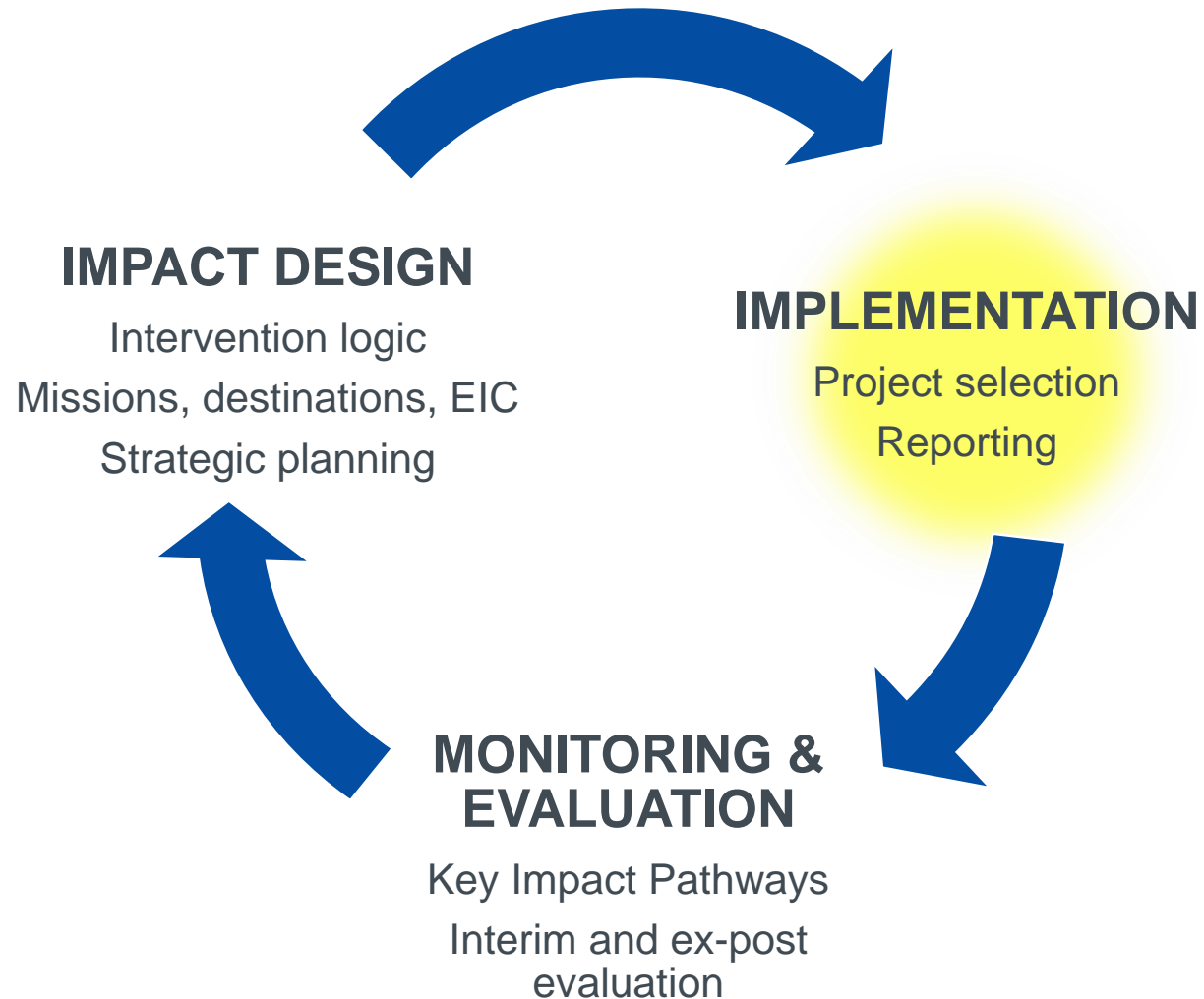
Impact project evaluation criteria
Horizon Europe top-down programme calls shortened

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PROJECT REPORTING

Proximity: capturing unique identifiers

Attribution: establishing causal impacts with traditional and new methods;

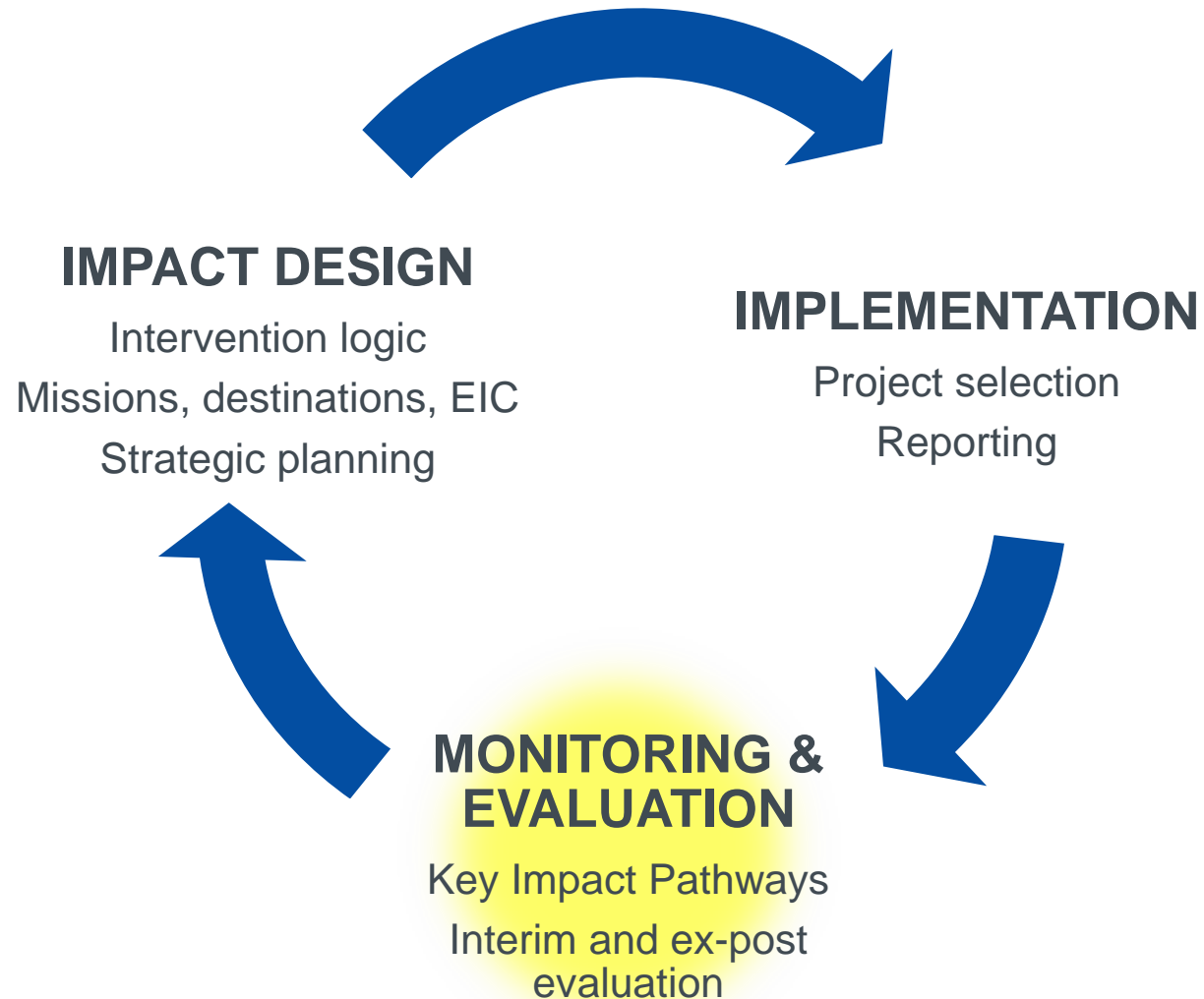
Traceability: tracing through external databases & limiting additional reporting

Holism: understanding the whole programme

Stability: increasing data quality using current IT tools

HORIZON EUROPE CYCLE

Impact-driven Framework Programme



MONITORING: ECONOMIC IMPACT

Pathway 7: Generating innovation-based growth



STORY LINE: Horizon Europe generates innovation-based growth, shown by its micro-economic effect on supported companies and the macro-economic effect on EU's economy.

Indicators (short, medium, long-term)



Self-reported: innovative results, methods, processes; IPRs; company identifiers (including unsuccessful applicants), input for macro-economic models.

External: patent performance, company performance, macro-economic modelling, counter-factual analysis.

MONITORING: SOCIETAL IMPACT

Pathway 4: Addressing EU policy priorities and global challenges



STORY LINE: Horizon Europe addresses EU policy priorities and global challenges through R&I, including the Sustainable-Development Goals.

MONITORING: SOCIETAL IMPACT

Pathway 4: Addressing EU policy priorities and global challenges



Indicators (short, medium, long-term)

Typically
As of YEAR 1+

Number and share of results aimed at addressing identified policy priorities

Project classification

- ✓ Self-reporting
- ✓ Top-down programming
- ✓ Expert input
- ✓ AI classifiers

Typically
As of YEAR 3+

Performance of innovations and research outcomes addressing identified Union policy priorities

Results classification

- ✓ Patents, publications, etc.
- ✓ Subset of other indicators

External databases

- ✓ Covid-19 research, e.g.
- ✓ Climate patents, e.g.

Typically
As of YEAR 5+

Aggregated estimated effects from use of FP-funded results on tackling specific EU priorities

Surveys

- ✓ Directed to correct projects
- ✓ Over-reporting

Expert assessment

- ✓ In-house or external

Problem-specific modelling

- ✓ CO2 reduction potential, e.g.
- ✓ Life cycle analysis, e.g.

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EXPECTATIONS

What is the experience with the Key Impact Pathways

How to analyse project portfolios

How to aggregate impact from multiple projects

What is the appropriate level of analysis

What are the lessons learned for evaluation

