

Funding your Industry 4.0 project

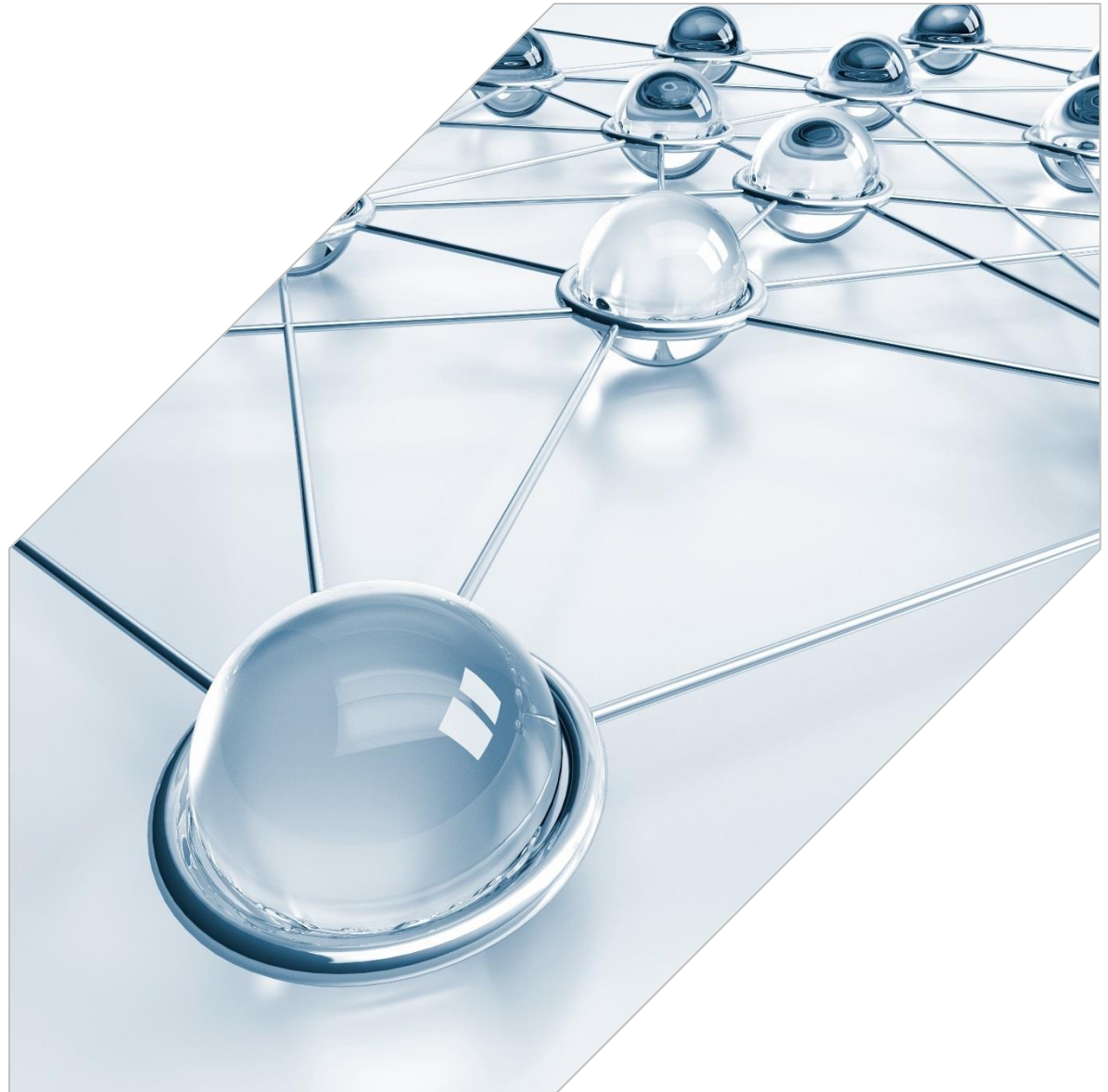
Financial aid for
research, development
and innovation



LUXINNOVATION

TRUSTED PARTNER FOR BUSINESS

Part 1 – Cases



Part 1 – Cases (all enterprises)

Use of **artificial intelligence** to automate manufacturing process.

Deep learning: advanced technologies to turn data into information.

Flexible automation (computer vision,)

Can be supported through R&D aid scheme, also for large enterprises

Part 1 – Cases (SMEs)

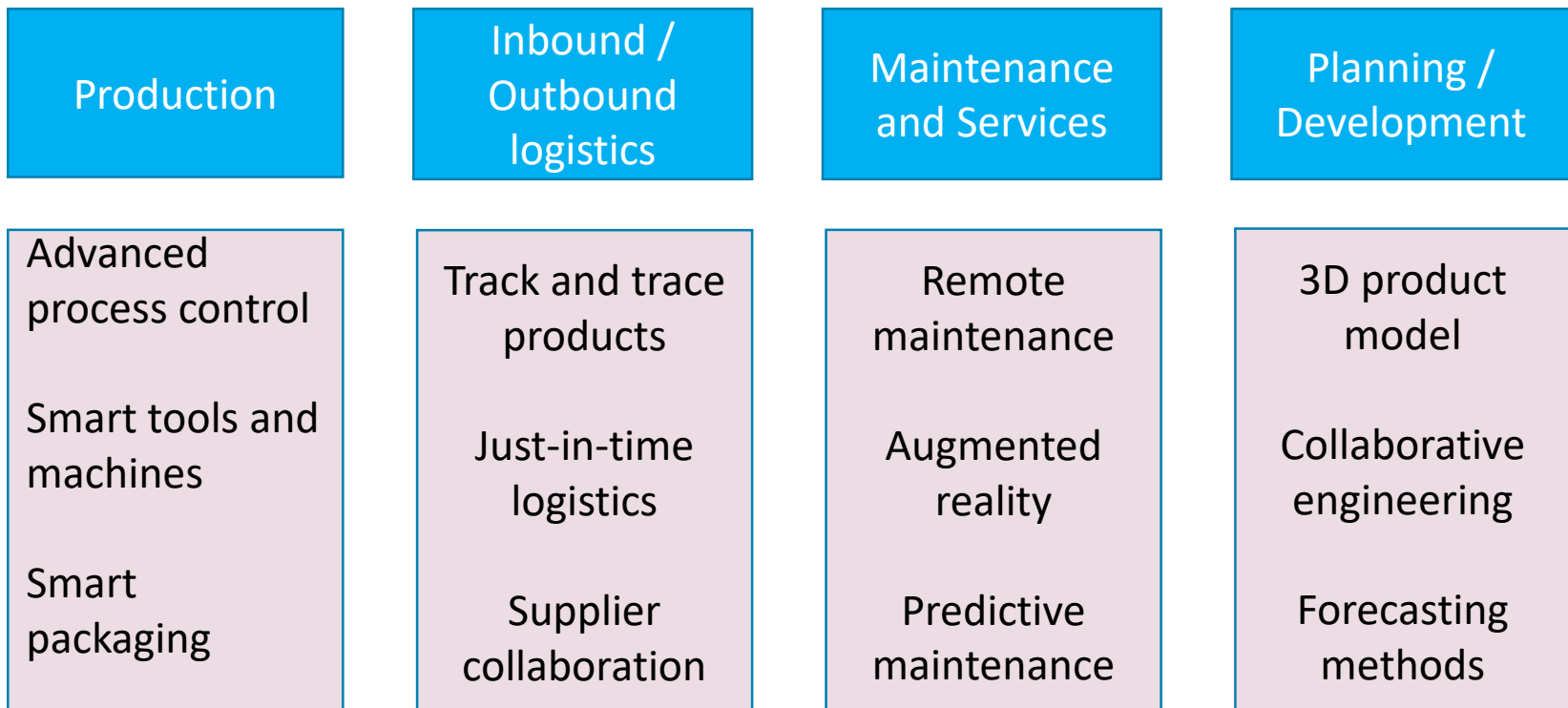
Implementation of new production or delivery method:
advanced customization platform (**design by order**);
reduction of manufacturing delay through **3D printing**;
Zero defect manufacturing, etc...

Implementation of a new organisational method:
supply chain optimisation (integration / digitalisation);
real-time factory (bottom-up production reschedule).

Can be supported through process and
organisational innovation aid scheme, only
for SMEs

Part 1 – Cases (SMEs)

**Main activities enabled by Industry 4.0 technologies →
covered by process and organizational innovation aid scheme**



Part 1 – Summary

Funding / subsidies available for all enterprises.

R&D required for large enterprises.

Any implementation of a new production process or organizational method can be supported for SMEs.



Part 1 – SME Definition

So when does an enterprise qualify as an SME?

According to the European SME definition, it is required to **agglomerate company data of all linked and partner enterprises** (including companies held through holding companies or through physical persons).

Company category	Staff headcount	Turnover	or	Balance sheet total
Medium-sized	< 250	≤ € 50 m		≤ € 43 m
Small	< 50	≤ € 10 m		≤ € 10 m
Micro	< 10	≤ € 2 m		≤ € 2 m

Part 2 – How does it work?

- **Subsidies** to encourage companies to carry out R&D and innovation activities
- Individual assessment of each single project
- The **innovation fund** budget is adapted to the needs of the projects
- Luxinnovation provides support services to help companies meeting the admission criteria

Law of 17 May 2017 for the promotion of research, development and innovation

Part 2 - Main Criteria to benefit from a financial aid

Co-financing Capacity

Equity/free cash flow

Capital Increase

Bank Loans

Economic impact

Substance

Exploitation of assets resulting from the project activities

Innovation

Competitive advantage on the market

New or improved product, process, service

New marketing method/ New organizational method

Incentive Effect

Application before start of works

Δ project

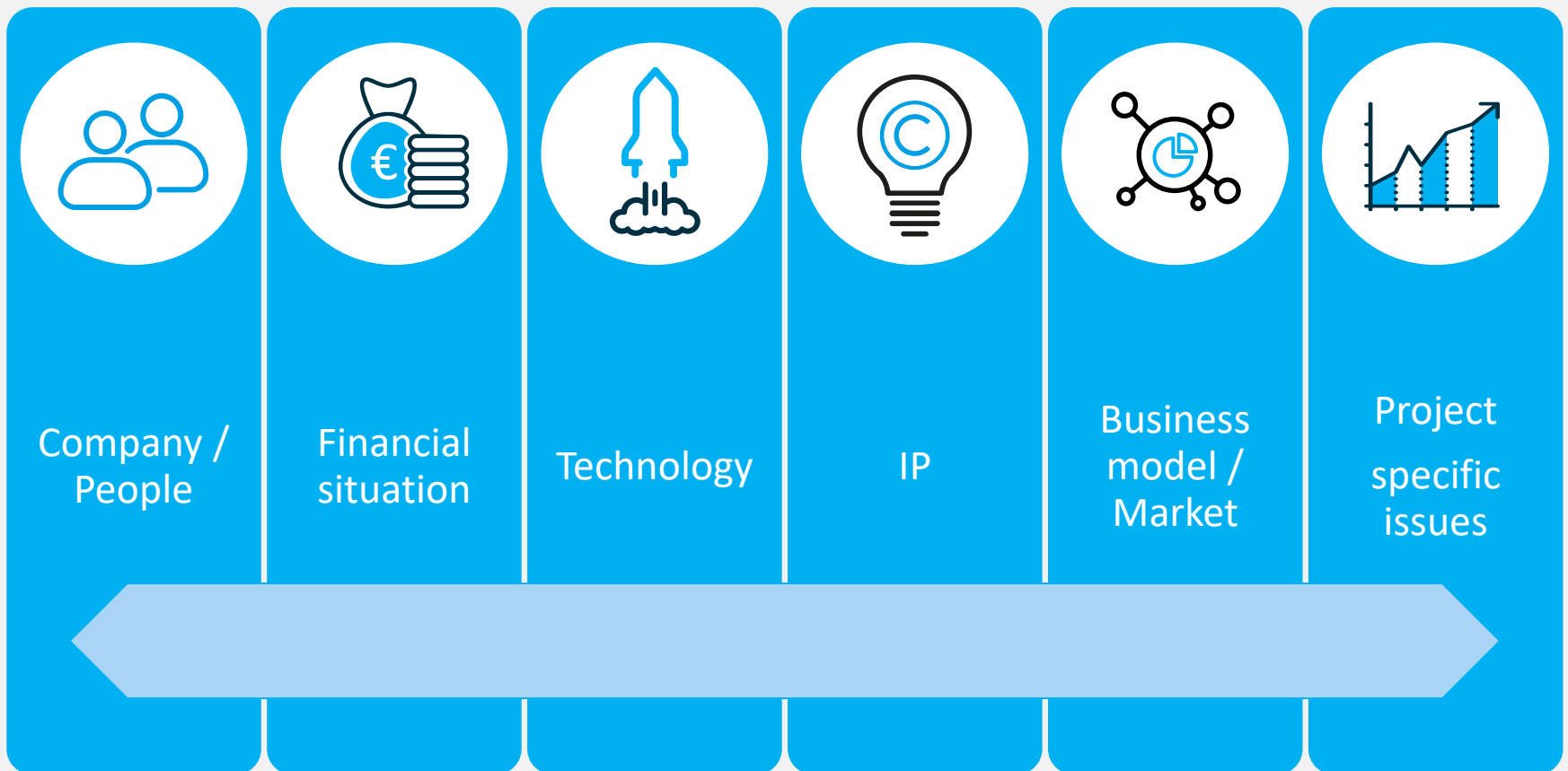
Scheme specific criteria

Technological challenges (R&D)

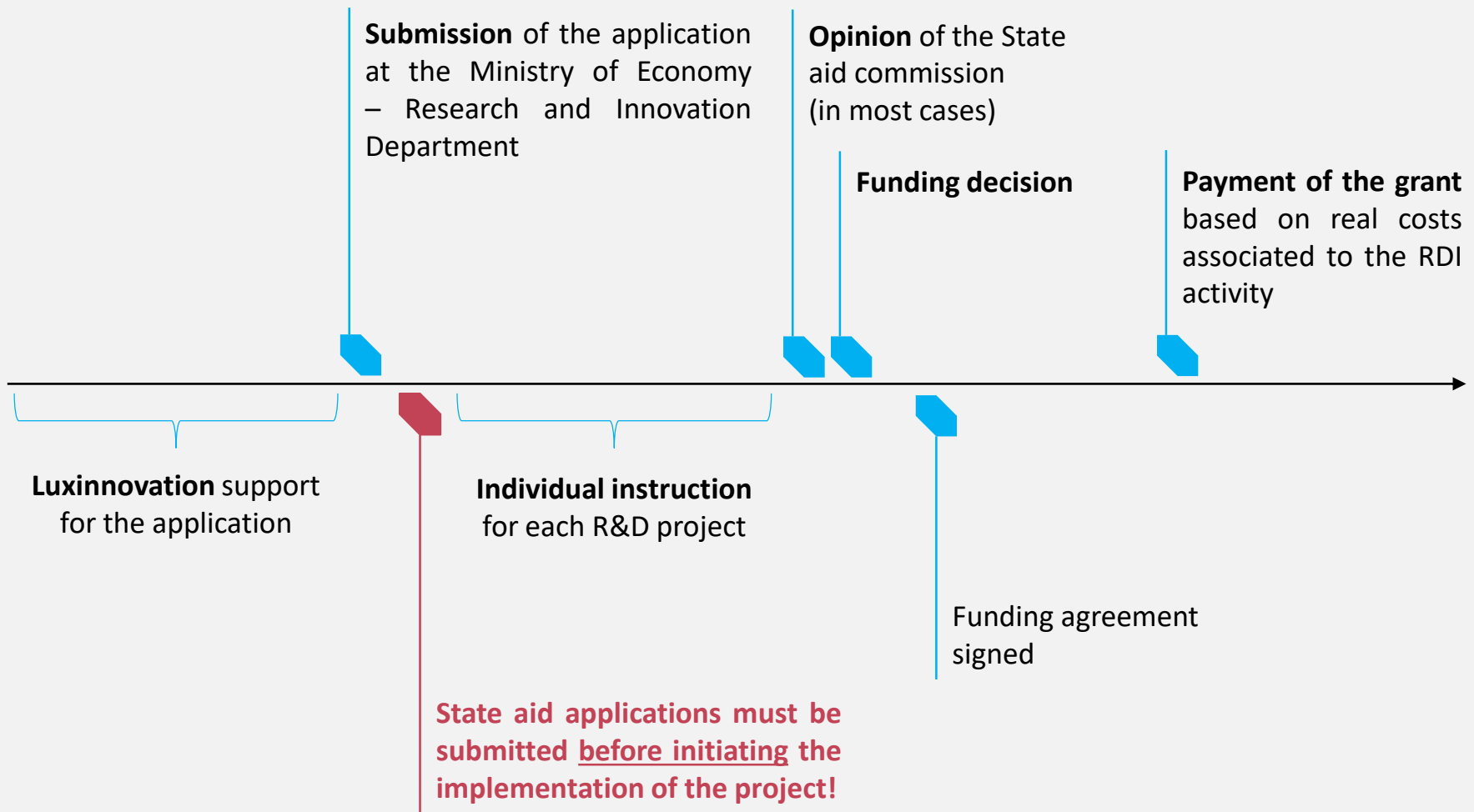
Risk of failure (IOS)

Scoping of R&D activities (feasibility)

Part 2 - Main Criteria to benefit from a financial aid (2)



Part 2 - Decision Process



Part 2 – Applicable aid schemes

Maximum aid intensities (as a % of eligible costs)		Large Enterprise	Medium Ent	Small Ent
Process and organisational innovation		≤ 15% (effective collaboration required)	≤ 50%	≤ 50%
Feasibility Studies		≤ 50%	≤ 60%	≤ 70%
Research and Development				
Experimental development	Collaboration bonus: + max 15% in case of an effective collaboration with a maximum of 80%	≤ 25%	≤ 35%	≤ 45%
Industrial research		≤ 50%	≤ 60%	≤ 70%

Part 3 - Public private R&D collaborations



THE GOVERNMENT
OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of the Economy



Luxembourg National
Research Fund

Cooperation between a company and a public research organization

	R&D project	AFR PPP	Core PPP
beneficiary	Company	PhD Student/Post Doc contracted by Public research organization: <ul style="list-style-type: none"> - national ; - foreign (on condition of cooperating with a Luxembourg based company) - Company authorised by the Ministry of Economy 	Public research organisation in Luxembourg
subsidy	15% bonus on the R&D budget of the company	Coverage of labour costs of the PhD Student/ Post Doc	Maximum grant 500k €
deadlines	continuously open	17th March and 1st September	

Part 4 – European R&D collaborations

Manu-Net

Combining the power of a European Research, Development and Innovation initiative with the flexibility of national aid schemes.

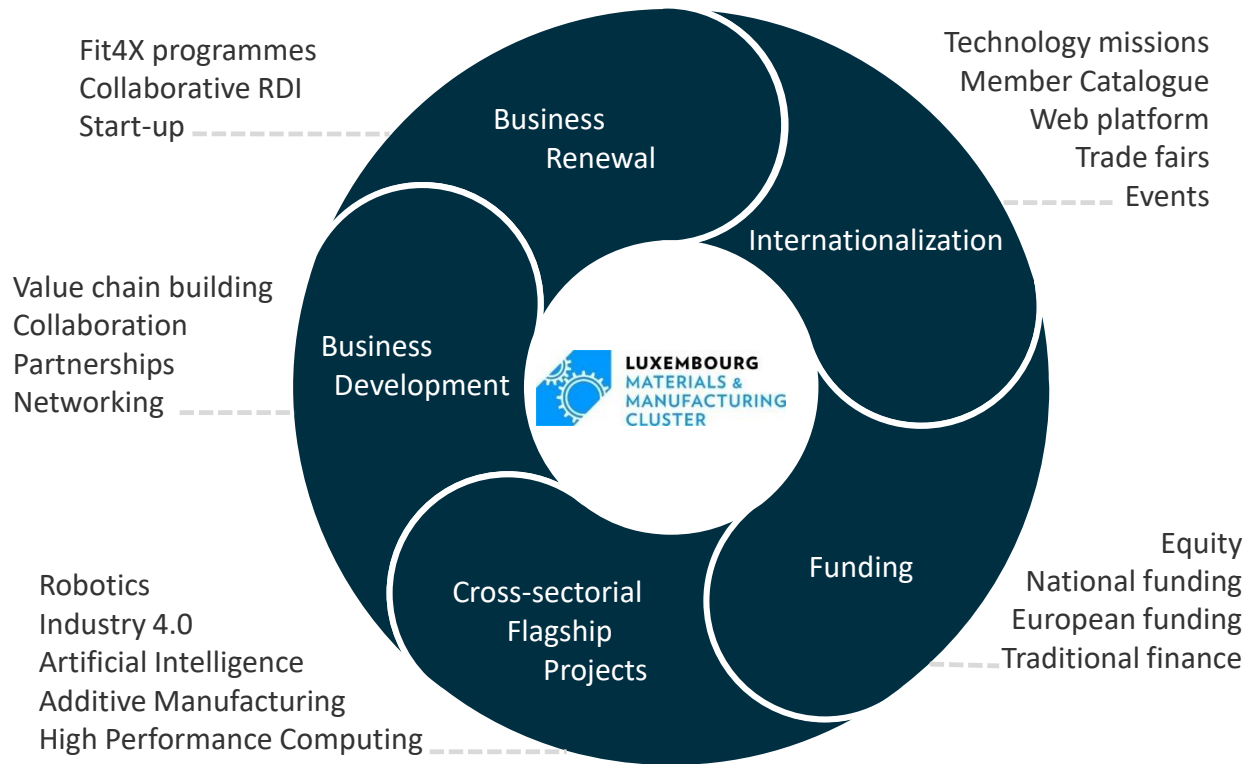
Annual call for proposals.

Next call closes in **March 2018**.

Small project consortia with at least 2 SMEs from 2 different participating countries.



... added value partnership



Company Technology Roadmap

Market drivers
Business drivers

Products
Services

Technologies (RDI)

Resources
staff, funding, partners...

Thank you!



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Ministry of the Economy

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