Horizon 2020 - Project Design

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Outline

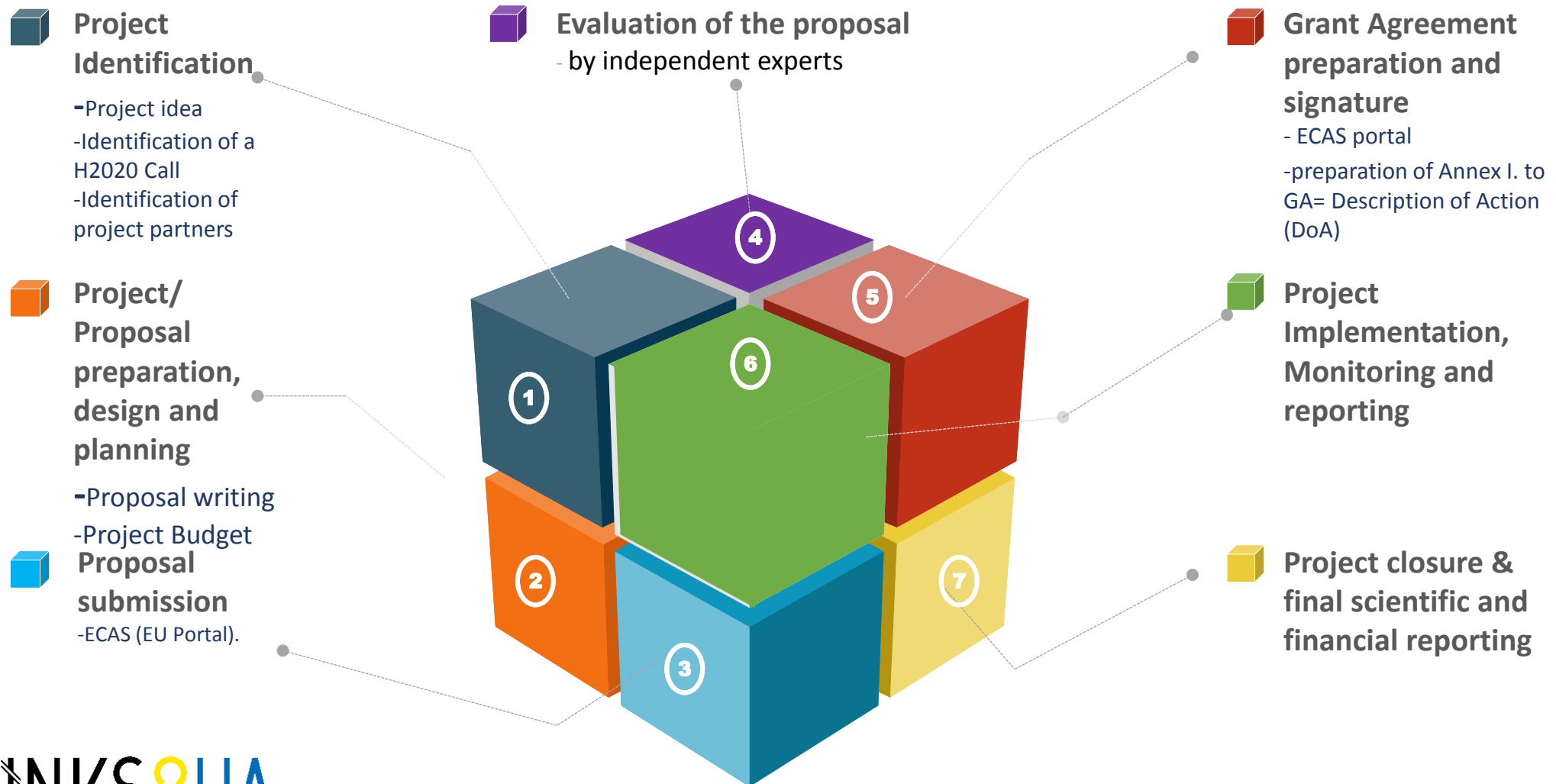1. **INTRODUCTION – FROM IDEA TO IMPLEMENTATION**
   - Project Idea; Finding a Call; Partners search,
   - Your Profile

2. **PROPOSAL PREPARATION**
   - APPLICATION PROCEDURES (1 OR 2 STAGE PROPOSALS)
   - TYPES OF ACTIONS (PROPOSALS) IN HORIZON 2020
   - TLRs - Technology Readiness Levels
   - Q&A

Project Management Cycle in H2020 projects

Project Identification

-Project idea
-Identification of a H2020 Call
-Identification of project partners

Project/ Proposal preparation, design and planning

-Proposal writing
-Project Budget

Proposal submission

-ECAS (EU Portal).

Evaluation of the proposal
- by independent experts

Grant Agreement preparation and signature

- ECAS portal
-preparation of Annex I. to GA= Description of Action (DoA)

Project Implementation, Monitoring and reporting

Project closure & final scientific and financial reporting

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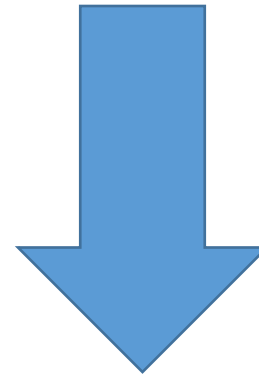↗ Project idea
↗ Identification of the call, partners

1 PROJECT IDENTIFICATION

- ✓ *Provides baseline and contextual information for the project*
- ✓ *Involves understanding of the initial situation in question and the key factors*

CORE STEPS

- **Project Idea** =>
- **Identification of the Horizon 2020 Call that matches your project idea**
- **Preparation of your Research Profile (profile of your institution)**
- **Identification of partners in EU relevant to the Call**
- Register in ECAS (get a PIC number and validate your institution)
- Read the latest EU documents related to your topic:
    - Work programme (https://ec.europa.eu/programmes/horizon2020/h2020-sections)
    - Europe 2020 strategy (http://ec.europa.eu/europe2020/index_en.htm)
    - EU policies (http://ec.europa.eu/policies/index_en.htm)
- Read the **latest scientific papers** related to your topic

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Project IDEA

- **Project Idea (in H2020)** => concept with high innovation potential

Innovation in H2020 =>> means successful exploitation of new ideas to produce tangible benefits, satisfying needs and wants

Questions?!

RELEVANT

| Idea |
| Approach |
| Partners |

➡ Realisation of the call and work programme's objectives

☞ What **kind of project** will I implement? (scope, limits, objectives, expected impact)

☞ What will I do with the **results**? (exploitation, dissemination, knowledge tranfer)

☞ **With whom** will I implement this project? Who does what? (consortium, respective tasks, responsabilities)

☞ **Why** should my project be funded by the EC? (European added value)

☞ **How** will I successfully carry it to term? (resources, management, methodology)

☞ How much will it **cost**? What funding can I expect? (budget plan and EC contribution)

☞ Do I have my organization's **support**? (human and financial resources)

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- Horizon 2020 offers a variety of funding opportunities
  - project idea => appropriate call:
- H2020 PARTICIPANT PORTAL

https://ec.europa.eu/programmes/horizon2020/find-your-area

How to find funding for your research idea? (2)

☞H2020 -> funding opporutunities

☞Search by topic/call ID…

https://ec.europa.eu/programmes/horizon2020/

HORIZON 2020
The EU Framework Programme for Research and Innovation

European Commission > Horizon 2020 > Find your area

What is Horizon 2020? | Find Your area | How to Get funding? | News, Events & Publications | Projects

What is Horizon 2020

Horizon 2020 Programme

Find your area

- Agriculture & Forestry
- Aquatic Resources
- Bio-based Industries
- Biotechnology
- Energy
- Environment & Climate Action
- Food & Healthy Diet
- Funding Researchers
- Health
- ICT Research & Innovation
- Innovation
- International Cooperation
- Key Enabling Technologies
- Partnerships with Industry and Member States
- Raw Materials
- Research Infrastructures
- Security
- SMEs

https://ec.europa.eu/programmes/horizon2020/find-your-area

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Role of your institution in project
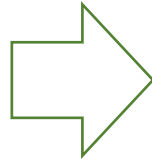
ROLES ⟹

| coordinator |
| partner |
| Third party |

☞What is the **role of my institution in the proposal consorium?**

☞Am I ready to **coordinate** /be a **partner**?

Roles of project participants

- **Each of the project partners can have different roles.**

- **Roles are defined in the project workplan description**

- **Roles:**

- **Work package leader**

- **Task leader**

- **Activity leader**

- **Task participant…**

Information about administrative issues

- Awareness about the legal, administrative and financial requirements – H2020 Funding Guide

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm
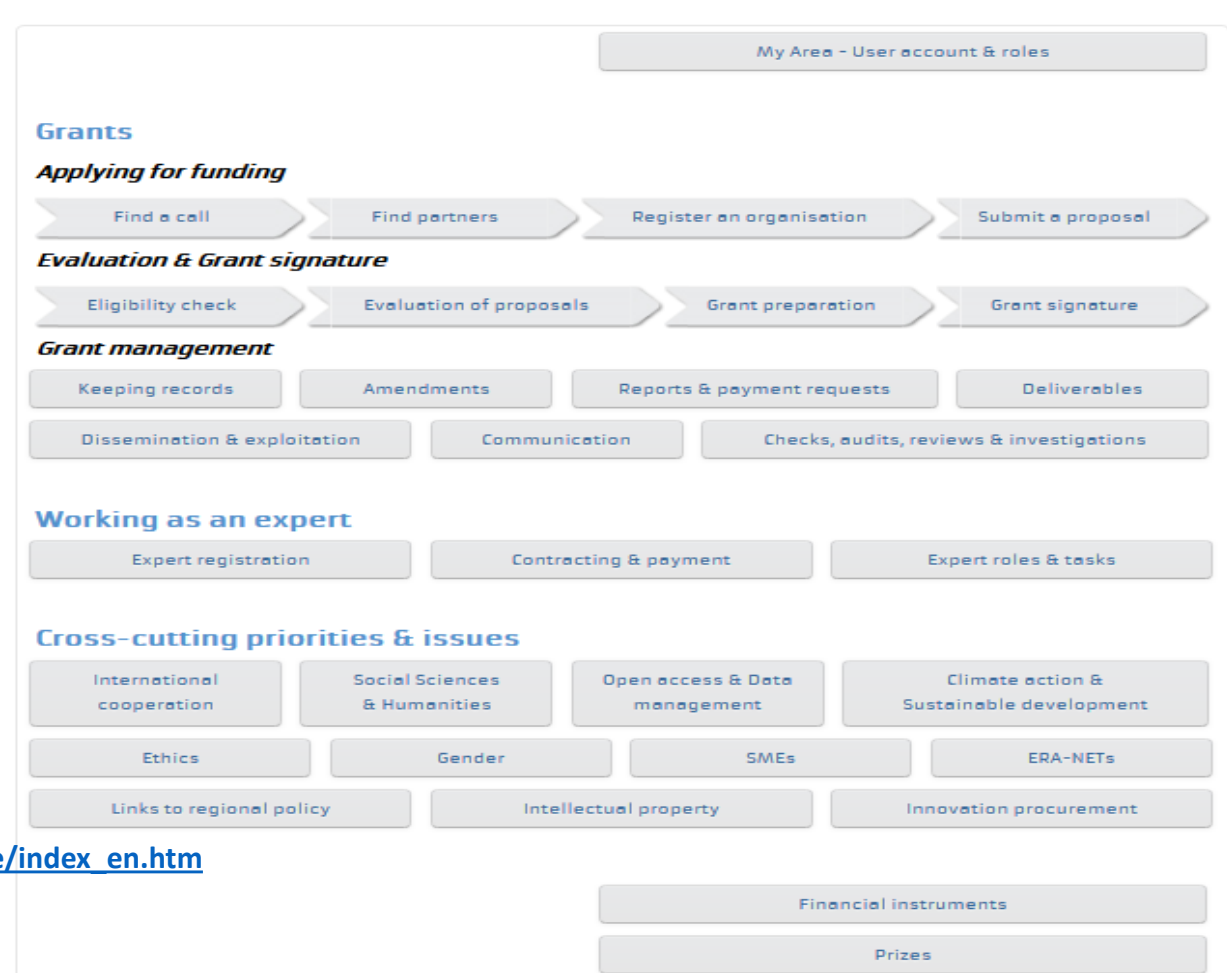
Profile of your institution

- **2 PAGES ONLY!**

- **Provide targeted information about your institution:**

- a **description of the your institution and your competences,** with an explanation of how its profile matches the tasks in the proposal **(half page limit)**

- **CVs** of the persons, including their gender, who will be primarily responsible for carrying out the proposed research and/or innovation activities; (**6 lines maximum)**

- a **list of up to 5 relevant publications, and/or products, services** or other achievements relevant to the call content;

- a **list of up to 5 relevant previous projects or activities**, connected to the subject of this proposal;

- a description of any **significant infrastructure and/or any major items of technical equipment, relevant to the proposed work;**

- **Include your logo**

- **Contact details of your institutions (Name in English/national language, Acronym/ PIC number, full address, contact details (including email, phone…)**

Partner Search

- Online Partner search databases
- Bilateral contacts
- Bilateral projects
- Young researchers
- Brokerage events
- International conferences/ workshops
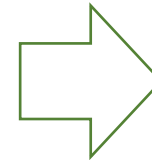
RI-LINKS2UA Grants

EAP Plus Grants

Other Grants, Call for papers

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Partner Search – Online Databases

- https://www.nmp-partnersearch.eu/

Home >> Partner Search >> NMP Partnersearch Home

PARTNER SEARCH

Login

Username (E-Mail address):

Password:

login

REGISTRATION

PASSWORD LOST?

PARTNER SEARCH HOME
LIST OF PARTNER SEARCHES
LIST OF PARTNER OFFERS
SEARCH FOR PARTNER ENTRIES
SEARCH FOR PARTNER PROFILES

Links

Get information on how to register and create your own partner searches and partner offers

Find out who is your national NMP NCP

Find partners for all HORIZON 2020 activities on the CORDIS service

Find partners on the Enterprise Europe Network partner search facility

Partner Search - Partner Offer

Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing in HORIZON 2020

The NMP TeAm Partner Search Facility has been established by the network on NMP NCPs in order to offer best support to its clients. This web service is strictly focused on the open calls for proposals of the key enabling technologies **Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing of HORIZON 2020,** related actions like FET open, ERA-NETs like SIINN and M-ERA.NET and inducement prize (Horizon Prize on materials for clean air). **The Partner Search Facility is open now for the NMBP-related call topics within the Horizon 2020 Work Programme 2016/2017.**

On this web-service we discern between

• **Partner Offer** - Researchers who offer their research expertise and who seek for collaboration in possible project consortia and

• **Partner Search** - Researchers or consortia with a definite idea for a project who are looking for further partners to complement the expertise scope of the consortium

In order to get information on the already published entries, please enter: Search for partner entries

In order to submit your own partner offer or partner search you first have to register.
With the related online forms, you have the opportunity to upload your own partner offer or partner search. The information will appear online as soon as it has been quality checked by the responsible country specific NCP.

The user manual (release 13/10/15) provides detailed information on the use of this service.

Partner Search – Online Databases

CORDIS
Community Research and Development Information Service

https://cordis.europa.eu/partners/web/guest

Research Partners

You can:

- Search for partners [Search]
- Query more with an advanced search
- Browse these active profiles and collaboration requests to build your network:
    - 10518 Partner profiles
    - 60 Open Calls for Proposals
    - 5511 Partnership requests
        - 1337 Proposing project
        - 4174 Offering collaboration
    - 384 Groups
- Contact National Contact Point networks to get further support to find partners in your specific theme
- View the help pages and video tutorials

Create or update your profile

Username: [   ]

Password: [   ]

Forgot your username or password?
Not yet registered?

[Log in]

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http://cordis.europa.eu/projects/home_en.html

2 PROJECT PREPARATION, DESIGN AND PLANNING

↗ APPLICATION PROCEDURES (1 OR 2 STAGE PROPOSALS)
↗ TYPES OF ACTIONS (PROPOSALS) IN HORIZON 2020
↗ TLRs - Technology Readiness Levels

✓ *Defining the project´s objectives, purpose, expected outputs, impacts and activities and overall budget*

ACTIVITIES

- Setting the overall objectives
- Key activities/sub-activities
- Preparing a project outline incl. expected outcomes
- Defining impact indicators (specific, measurable, achievable, relevant and time-bound)
- Preparing a project implementation plan using the logical framework approach
- Defining the dissemination and exploitation activities
- Setting the overall project budget (calculating the PMs, other direct costs, subcontracting…)
- Writing the whole proposal
- Defining and negotiating the budget of all individual partners /third parties involved
- Completing the Administrative forms/ financial forms
- Submit the proposal

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Administrative procedures

↗ Single/Two-stage proposals
↗ Types of Actions
↗ Technology Readiness Levels (TLRs)

Application procedures

- **Application procedures** -> indicated in the Call for proposals
- **2 Models:**
- **Single stage:** at the indicated deadline a full proposal will is submitted
- **Two- stage:** At 1st stage a brief project outline is submitted (sections 1 and 2
- from the application form)-> „First stage proposal". following a successful evaluation. a full proposal will be prepared in the 2nd Stage.

Types of Actions

Main types of actions

Research and Innovation Actions	Innovation Actions	Coordination and Support Actions

Other targeted types of actions

SME Instrument	ERANET Co-fund	Pre-commercial Procurement Co- fund

Public Procurement of Innovative Solutions Co-fund

Types of Actions/Instruments

Type of Action[1]	Code	Minimum Conditions[2]	Funding Rate	Typical Duration	Average EC Contribution			Aim
Research & Innovation Action	RIA	≥ 3 legal entities from 3 MS/AC	100%	36-48 months	€ 2.0 – 5.0M			collaborative research projects
Innovation Action	IA	≥ 3 legal entities from 3 MS/AC	70%[3]	30-36 months	€ 2.0 – 5.0M			produce plans & arrangements or designs for new, altered or improved products, processes or services
Coordination & Support Action	CSA	1 legal entity	100%	12-30 months	€ 0.5 – 2.0M			accompanying measures (standardisation, dissemination, policy dialogues etc.) no research
MSCA[4] (except Cofund)	MSCA	see separate factsheet						facilitate mobility of researchers for training & career development
ERC Grants	ERC	1 legal entity in MS/AC	100%	60 months	Starting: ≤ € 2.0M Consolidator: ≤ € 2.75M Advanced: ≤ € 3.5M			support excellent investigators and their research teams to pursue ground-breaking, high-gain/ high-risk research
Prizes	PRI	1 legal entity	n/a	n/a	variable; see respective topic			- recognise past achievements - induce future activities
SME Instrument	SME	1 SME in MS/AC	3 phases: • Phase 1: lump sum of € 50K / project • Phase 2: € 1 – 2.5M / project (1-2 years) (70% of eligible costs reimbursed) • Phase 3 : no funding					combination of demonstration activities (testing, prototyping, …), market replication
Fast Track to Innovation	FTI	≤ 5 legal entities from 5 MS/AC	70%[3]	tbd	≤ € 3.0M			produce plans & arrangements or designs for new, altered or improved products, processes or services

[1] Defined in the Work Programme.
[2] Additional conditions may be listed in the respective Work Programmes.
[3] 100% for non-profit organisation (= any legal entity except companies)
[4] MSCA = Marie Skłodowska Curie Actions

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Research and Innovation Actions - RIA

- Funding for research projects tackling clearly defined challenges, which can lead to the development of new knowledge or a new technology.
- Both basic and applied research, technology development and integration, testing, validation on a small-scale prototype in a laboratory or simulated environment.
- **Limited demonstration or pilot activities** aiming to show technical feasibility in a near to operational environment.

- Minimum: three independent legal entities **(Consortium of partners from different countries, industry and academia)**, established in different Member States or Associated Countries -> Possible additional conditions in Work Programmes!
- Funding: 100% of eligible costs

Innovation Actions - IA

- **Innovation actions - IA**
  - established in different Member States or Associated Countries -Funding is more focused on closer-to-the-market activities. For example, prototyping, testing, demonstrating, piloting, scaling-up etc. if they aim at producing new or improved products or services.

  - Minimum: three independent legal entities (Consortium of partners from different countries, industry and academia) , > Possible additional conditions in Work Programmes!
- Funding: 70% funding for profit and 100% for non-profit participants of eligible costs

Coordination and Support Actions - CSA

- Accompanying measures such as **standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including design studies** for new infrastructure and may also include complementary activities of networking and coordination between programmes in different countries.

- Minimum one legal entity established a Member State or associated country -> Possible additional conditions in Work Programmes!

- Funding: 100% of eligible costs

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SME Instrument

- This instrument is aimed at highly innovative SMEs with the ambition to develop their growth potential. It offers lump sums for feasibility studies, grants for an innovation project's main phase (demonstration, prototyping, testing, application development...); lastly, the commercialisation phase is supported indirectly through facilitated access to debt and equity financial instruments.

- Only SMEs can participate. Either a single SME or a consortium of SMEs established in an EU or Associated Country.

THE THREE PHASES

Phase 1: Proof of Concept

Input:
Idea/Concept in "Business Plan I" (~ 10 pages)

Main Activities:
- Feasibility of concept
- Risk assessment
- IP regime
- Partner search
- Design study
- Pilot application

Output: elaborated "Business plan II"

Lump sum: around 50.000 €
~ 6 months

Phase 2: Development and Demonstration

Input:
"Business plan II" + "Description of activities under Phase2" (~ 30 pages)

Main Activities:
- Development Prototyping
- Testing
- Piloting
- Miniaturisation
- Scaling-up
- Market replication

- Design & creation of innovative applications to foster the delivery of mobile public services
- New business model for SMEs in traditional sector to innovate

Output: investor-ready "Business plan III"
Output based payments:
1 to 2,5 M€ EU funding
~ 12 to 24 months

Phase 3: Go-to-Market, commercialisation

Input:
"Business plan III"

Opportunities:
'Quality label' for successful Phase 1 & 2

Easier access to private finance

Support via networking, training, coaching, information, addressing i.a. IP management, knowledge sharing, dissemination

SME window in the EU financial facilities (debt facility and equity facility)

No direct funding

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Marie Skłodowska-Curie actions

- **Funding for international research fellowships in the public or private sector, research training, staff exchanges.**
- Types:
- Research networks (ITN): support for Innovative Training Networks
- Individual fellowships (IF): support for experienced researchers undertaking mobility between countries, optionally to the non-academic sector
- International and inter-sectoral cooperation through the Research and Innovation Staff Exchanges (RISE)
- Etc. (https://ec.europa.eu/programmes/horizon2020/en/h2020-section(h/marie-sklodowska-curie-actions)
- Early stage researchers or experienced researchers (of any nationality), technical staff, national/regional research mobility programmes.

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Fast Track to Innovation Pilot

- The Fast Track to Innovation (FTI) pilot is a fully-bottom-up measure in Horizon 2020 to promote close-to-the-market innovation activities, and open to all types of participants. https://ec.europa.eu/programmes/horizon2020/en/h2020-section/fast-track-innovation-pilot

Aims:

- reduce time from idea to market,

- stimulate the participation of first-time applicants to EU research and innovation funding, and

- increase private sector investment in research and innovation.

- Proposals for funding must be submitted by consortia comprising between three and five legal entities established in at least three different EU Member States or countries associated to Horizon 2020.

Technology Readiness Levels (TRLs)

- ✓ The TRL is a **new dimension in Horizon 2020.**
- ✓ Many of the call topics have a defined TRL at which the implementation of the proposal is intended to start, as well as a target TRL.
- ✓ The use of Technology Readiness Levels (TRLs) as a measurement of the maturity level of particular technologies is a new development in Horizon 2020.

- ✓ This measurement system [provides a common understanding of technology status and addresses the entire innovation chain.](provides)
- ✓ By evaluating a technology project against the parameters for each Technology Readiness Level one can assign a TRL rating to the project based on its stage of progress.
- ✓ There are nine technology readiness levels; TRL 1 being the lowest and TRL 9 the highest.
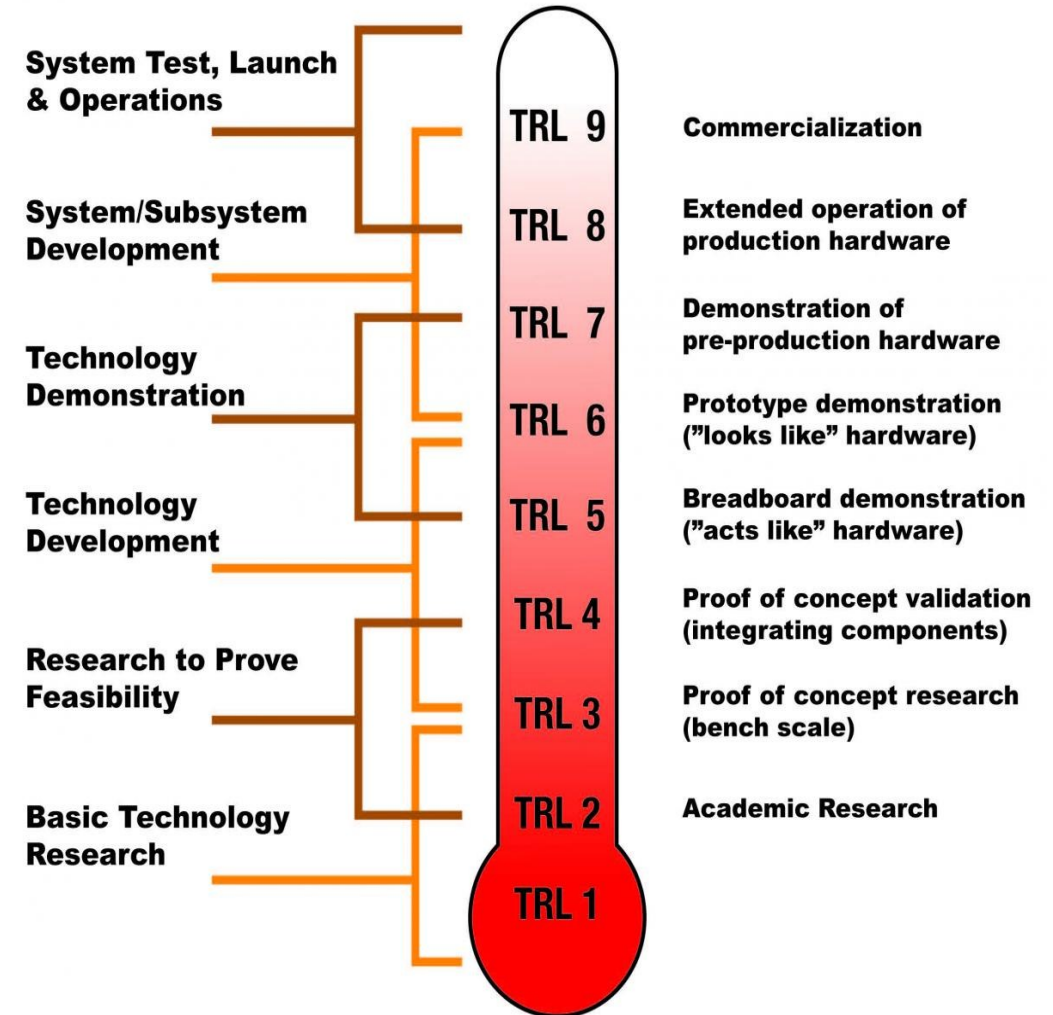
THANK YOU FOR YOUR ATTENTION!

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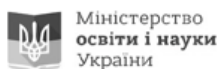**Project co-coordinator**
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