

Horizon 2020 for beginners

Horizon2020 guidance by NCP Flanders
Information and networking event
Brussels 4 december 2017 15:10 – 16:10
Margot Beereboom

To start with

Horizon2020 - General overview

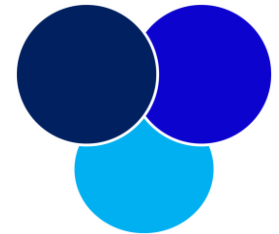
<https://www.youtube.com/watch?v=CimJI88c4fE>

Content of presentation

- ▶ Introduction Horizon2020
- ▶ Planning and submitting a proposal
- ▶ Overview of open and forthcoming topics/calls - work programmes 2018-2020

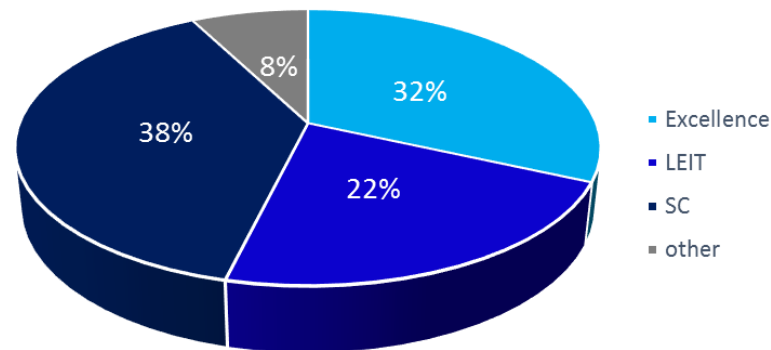
HORIZON 2020

- ▶ Supports a full research and innovation ecosystem
- ▶ Focus on expected impact & societal challenges
- ▶ Many different topics
- ▶ Three main pillars
 - ▶ Excellence in the science base (**EXCELLENCE**)
 - ▶ Creating Industrial Leadership (**LEIT**)
 - ▶ Tackling Societal Challenges (SC)



Budget breakdown (in billion euro)

- ▶ Excellent Science: 24,441
 - ▶ ERC, FET, MSCA, RI
- ▶ Industrial leadership: 17,016
 - ▶ ICT, NMBP, BIO, SPACE, SME
- ▶ Societal Challenges: 29,679
 - ▶ Health, food, energy, transport, climate, changing world, security
- ▶ Other fields: 5,892
 - ▶ Widening, SwafS, EIT, JRC, ...



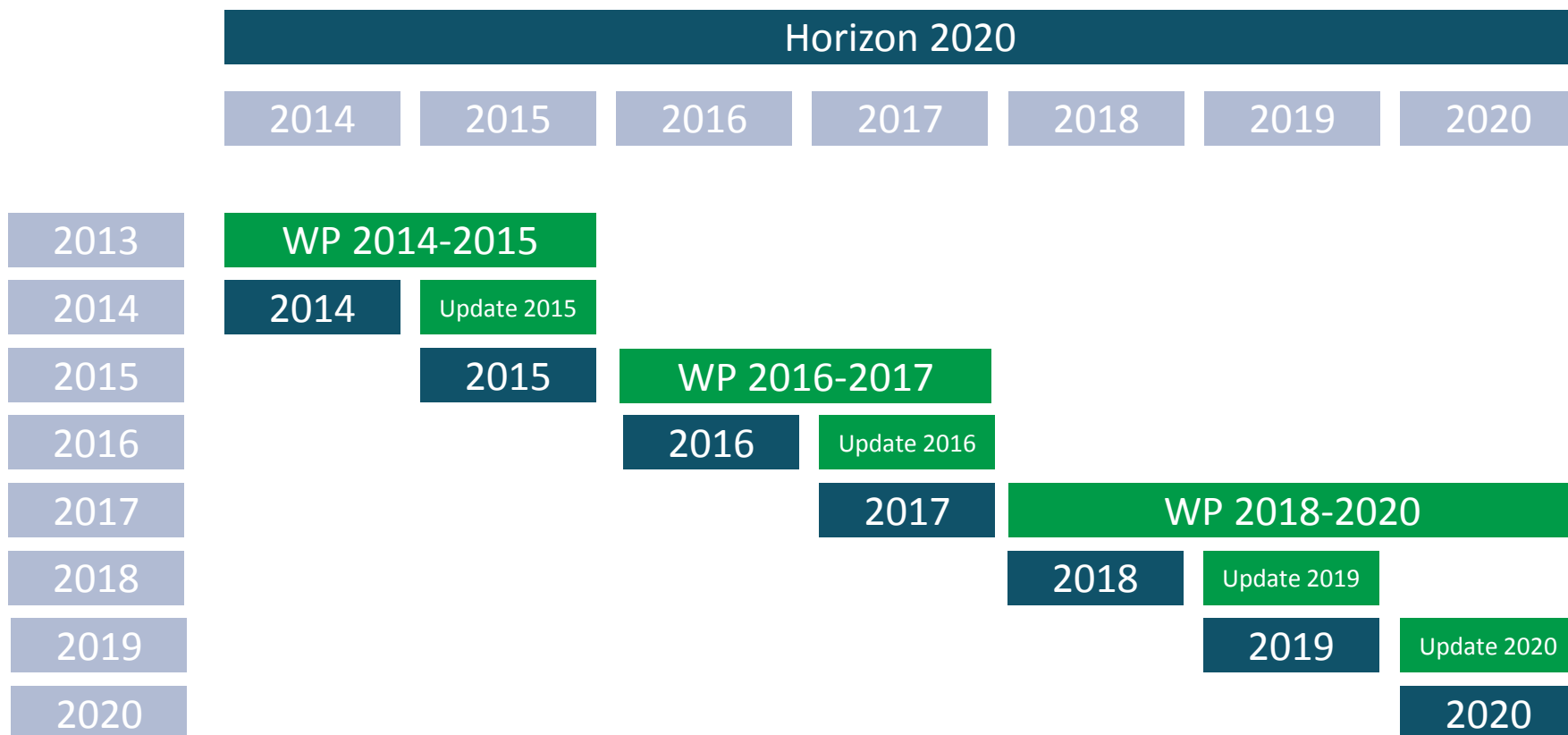
TAKE AWAY

77 billion - 7 years

Work programmes

defintion

Calls launched



Work programme development

2015	
January-July	WP 2016-17 drafting
2nd half June - 1st half July	Commission inter-service consultation
24 June	Programme Committee: discussion on WP 2016-17 (based on a complete draft)
2nd half July or later	Programme Committee: formal opinion
October	WP 2016-17 adoption, and publication of calls for 2016

Types of action (for all)

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

Types of action

(for gov/funding bodies)

Type of Action ¹	Funding Code	Minimum Conditions ²	Funding Rate	Typical Duration	EC Contribution	Comment
MSCA Cofund ³	MSCA Cofund	1 legal entity	50%	36-60 months	≤ € 10.0 M	Co-funding of regional, national & international doctoral & fellowship programmes
ERA-NETs	ERA-NET	≥ 2 legal entities in MS/AC	33%	60 months	variable, see respective topic	coordinate research efforts of participating MS/AC in the field described & implement joint transnational call for proposals with EU co-funding
Pre-Commercial Procurement	PCP	≥ 3 public procurers from MS/AC	70%	18-48 months for 2 Phases: A) Preparation B) Execution	variable, see respective topic	enable the public sector as a technologically demanding buyer to encourage research, development and validation of breakthrough solutions in areas of public interest
Public Procurement of Innovative Solutions	PPI	≥ 3 public procurers from MS/AC	20%	18-48 months for 2 Phases: A) Preparation B) Execution	variable, see respective topic	enable trans-national buyer groups of procurers to share the risks of acting as early adopters of innovative goods or services which are not yet available on a large-scale commercial basis

All forms of innovation...

► Technology Readiness Levels (TRL)

1	2	3	4	5	6	7	8	9
Basic Principles Observed	Technology Concept Formulated	Experimental Proof of Concept	Technology Validation in Lab	Techn. Valid. in Relevant Environment	Demo in Relevant Environment	Demo in Operational Environment	System Complete & Qualified	Successful mission operations

RIA (≈ research)

SMEinst

IA (≈ development)

CSA (≈ support)

TIP: Need more background on TRL?

- <https://www.youtube.com/watch?v=in4TnQZGYj4&sns=em>

Simple rules for participation

Minimum conditions

- ▶ At least 3 independent legal entities
- ▶ established in different member states (MS) or AC

(Additional conditions may apply, see work programme)

State of mind

- ▶ for problems with international dimension
- ▶ tackled by balanced European consortia
- ▶ with just enough relevant partners

H2020 – types of countries

- ▶ ■ EU Member States (MS) => automatic EU funding
- ▶ ■ Associated Countries (AC) => automatic EU funding
- ▶ Third Countries
 - ▶ ■ Eligible for H2020 funding (check [full list](#))
 - ▶ ■ Own funding through automatic mechanisms
 - ▶ ■ Partners need to look for own funding

! Let partner always check current status

! Unless mentioned otherwise in topic description



H2020 = open to the world

International cooperation = cross-cutting priority

- ▶ General openness
- ▶ Specific topics that encourage/require cooperation
 - ▶ Joint or coordinated calls
 - ▶ Specific Joint Initiatives
 - ▶ Twinning: networking between projects

1) You can always include international collaboration

- ▶ Be explicit about contribution/need of international partner
 - ▶ E.g. expertise, equipment or methodologies or access to unique resources such as biodiversity, communities or geographies

2) Check funding possibilities for international partner

- ▶ Automatic (MS, AC) or not (3rd countries)
- ▶ Developing countries: special opportunities

Main partners of Belgium in H2020

1	Germany
2	United Kingdom
3	Spain
4	France
5	Italy

Simple rationale for funding

- ▶ A single set of rules
 - adapted for the whole research and innovation cycle
 - coherent with all other EU Programmes
- ▶ Simple rules for grants
 - Budget
 - personnel costs + direct costs
 - Increased with 25% flat rate for indirect costs)
 - Funding rates
 - RIA/CSA = 100% for all partners
 - IA = 70% (profit)/ 100% (non-profit)
- ▶ Few, well-targeted controls and audits

Example

Personnel costs
- 2 PY = 150 kEUR
Direct costs
- Travel: 12 kEUR
- Consumables: 8 kEUR
- Other: 10 kEUR
Indirect costs
- 25% flat fee: 45 kEUR
BUDGET: 225 kEUR

FUNDING:

- RIA/CSA: 225 kEUR
- IA: 157,5 kEUR

HORIZON 2020

planning project, writing and evaluation

Planning – Find calls

H2020 calls
are published on
the **participant portal**

(A-Z) Sitemap About this site Contact Legal Notice Search English

RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME **FUNDING OPPORTUNITIES** HOW TO PARTICIPATE EXPERTS SUPPORT Search LOGIN REGISTER

Horizon 2020 Funding

Starting from 1/1/2014

On this site you can find and secure **funding** for projects under the following EU programmes:

- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)
- 3rd Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, Internal Security Fund Borders, Internal Security Fund Police, Justice Programme, Promotion of Agricultural Products Programme, Rights, Equality and Citizenship Programme and Research Fund for Coal & Steel

Non-registered users

- search for funding
- read the H2020 Online Manual & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

Registered users

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle
- register as expert advising the Commission

WHAT'S NEW? **FUNDING OPPORTUNITIES** HOW TO PARTICIPATE WORK AS AN EXPERT MY PERSONAL AREA INFORMATION AND SUPPORT

<https://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Planning – Find calls

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RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE PROJECTS & RESULTS EXPERTS SUPPORT LOGIN REGISTER

EU Programmes 2014-2020

Search Topics

Updates

Calls

H2020

3rd Health Programme

Asylum, Migration and Integration Fund

Consumer Programme

COSME

European Statistics Programme

Hercule III Programme

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Pilot Projects & Preparatory Actions

Promotion of Agricultural Products

Research Fund for Coal & Steel

Rights, Equality and Citizenship Programme

Union Civil Protection Mechanism

Calls for Proposals

Horizon 2020 [Advanced search for topics](#)
[Calls for tenders on TED](#)

- Excellent Science
 - European Research Council (ERC)
 - Future and Emerging Technologies (FET)
 - Marie-Sklodowska-Curie Actions
 - Research Infrastructures
- Industrial Leadership
 - Leadership in enabling and industrial technologies (LEIT)
 - Information and Communication Technologies

Status Calls with forthcoming topics Calls with open topics Calls with only closed topics

Sort by Call title Call identifier Publication date

Excellent Science FET Proactive – Boosting emerging technologies H2020-FETPROACT-2018-2020 Publication date: 27 October 2017	Excellent Science FET Proactive – High Performance Computing H2020-FETHPC-2018-2020 Publication date: 27 October 2017	Excellent Science FET Open – Novel ideas for radically new technologies H2020-FETOPEN-2018-2020 Publication date: 27 October 2017
Excellent Science FET FLAGSHIPS – Tackling grand interdisciplinary science and tech ... H2020-FETFLAG-2018-2020 Publication date: 27 October 2017		

In addition to the search facilities, the full list of H2020 Calls can be found [here](#).

Browse calls by following the H2020 structure

Planning – Find topics

The screenshot displays the 'RESEARCH & INNOVATION Participant Portal' with a search bar and navigation menu. The main content area is titled 'EU Programmes 2014-2020' and lists various funding opportunities. A callout box on the left highlights that 'Calls are divided into TOPICS'. Three orange arrows point from this box to the 'EU Programmes 2014-2020' section, the 'FP7 & CIP Programmes 2007-2013' section, and the 'Other Funding Opportunities' section. The 'EU Programmes 2014-2020' section features a 'CALL: FET OPEN – NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES' with a 'Call budget overview' link. Below this, there are sections for 'Call summary and aims', 'Call updates', and 'Topics and submission service'. The 'Topics and submission service' section includes a table of topics with their respective publication dates, types of action, and deadlines.

Topic	Publication date	Types of action	DeadlineModel	Opening date	Deadline	Time Zone
FETOPEN-01-2018-2019-2020: FET-Open Challenging Current Thinking	27 October 2017	RIA Research and Innovation action multiple cut-off	multiple cut-off	07 November 2017	16 May 2018 17:00:00 24 January 2019 17:00:00 18 September 2019 17:00:00 13 May 2020 17:00:00	(Brussels time)
FETOPEN-02-2018: FET-Open Coordination and Support Actions	27 October 2017	CSA Coordination and support action	single-stage	07 November 2017	11 April 2018 17:00:00	(Brussels time)
FETOPEN-03-2018-2019-2020: FET Innovation Launchpad	27 October 2017	CSA Coordination and support action				

Calls are divided into
TOPICS

Planning – Find topics

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RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search LOGIN REGISTER

382 Results
Keyword Search Find a topic
If you don't find your topic, you can also use the free text search.
Hold the CTRL key to select several programmes.
H2020
3rd Health Programme
Asylum, Migration and Integration Fund (AMIF)

Status Forthcoming Open Closed

Sort by (Planned) opening date Deadline Topic title Topic identifier

Topic: [ART-01-2017: ICT infrastructure to enable the transition towards road transport automation](#) [Open](#)
Publication date: 14 October 2015
Types of action: IA Innovation action
DeadlineModel: two-stage
Opening date: 20 September 2016
Deadline: 26 January 2017 17:00:00
2nd stage Deadline: 27 September 2017 17:00:00
Time Zone : (Brussels time)

Topic: [ART-03-2017: Multi-Brand platooning in real traffic conditions](#) [Open](#)
Publication date: 14 October 2015
Types of action: IA Innovation action
DeadlineModel: two-stage
Opening date: 20 September 2016
Deadline: 26 January 2017 17:00:00
2nd stage Deadline: 27 September 2017 17:00:00
Time Zone : (Brussels time)

Topic: [ART-07-2017: Full-scale demonstration of urban road transport automation](#) [Open](#)
Publication date: 14 October 2015
Types of action: IA Innovation action
DeadlineModel: two-stage
Opening date: 20 September 2016
Deadline: 26 January 2017 17:00:00
2nd stage Deadline: 27 September 2017 17:00:00
Time Zone : (Brussels time)

Topic: [BB-02-2017: Towards a method for the collection of statistical data on bio-based industries and bio-based products](#) [Open](#)
Publication date: 14 October 2015
Types of action: RIA Research and Innovation action
DeadlineModel: two-stage
Opening date: 04 October 2016
Deadline: 14 February 2017 17:00:00
2nd stage Deadline: 13 September 2017 17:00:00
Time Zone : (Brussels time)

Keyword search

Text search

Planning – Understand a topic

(A-Z) Sitemap About this site Contact Legal Notice Search English

RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search LOGIN REGISTER

EU Programmes 2014-2020

Search Topics

Updates

Cells

H2020

3rd Health Programme

Asylum, Migration and Integration Fund

Consumer Programme

COSME

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Promotion of Agricultural Products

Research Fund for Coal & Steel

Rights, Equality and Citizenship Programme

FP7 & CIP Programmes 2007-2013

calls

Other Funding Opportunities

TOPIC : Towards a method for the collection of statistical data on bio-based industries and bio-based products

Topic identifier: BB-02-2017
Publication date: 14 October 2015

Types of action: RIA Research and Innovation action
Deadline: 14 February 2017 17:00:00
DeadlineModel: two-stage
2nd stage Deadline: 13 September 2017 17:00:00
Opening date: 04 October 2016
Time Zone : (Brussels time)

Horizon 2020
Pillar: Societal Challenges
Work Programme Year: H2020-2016-2017
Work Programme Part: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy
Call : H2020-BB-2016-2017
H2020 website
Call budget overview

Topic Description - Less

Specific Challenge:

As compared to bioeconomy sectors such as food-chain or bioenergy which keep hold of consolidated official statistics, there is a current lack of reliable and uniform ones on bio-based industries and bio-based products. In spite of progress made by the European Bioeconomy Observatory and other initiatives to gather data on the use of biomass for bio-based products, the following hurdles are still laying ahead to reach a widespread data availability: (i) There is lack of a comprehensive database with statistics for industrial uses of biomass from primary and secondary sources, (ii) The flow from raw materials to end products cannot be inferred from existing databases, (iii) There is insufficient comparability between different databases, (iv) Methodologies for data collection are not always transparent and existing data rely to a large extent on industry surveys and estimations of experts. This data gap hinders the development of economic models enabling the quantification of the bioeconomy and its economic, environmental and social effects. In turn, it has a negative effect on the ability of policy-makers to set the most appropriate policies to encourage investment in the bioeconomy in view of factors such as competition/synergies and possible trade-offs between various biomass uses.

Scope:

Proposals shall develop and implement a method for the collection of data on bio-based products, taking into consideration the incorporation of the data in the European statistical infrastructure (Eurostat), building on and contributing to on-going activities on exemplary bio-based products (Bio-based Succinic Acid & 1,4-Butanediol, lubricants). The following aspects will represent the framework for developing the proposals: (1) links with current CEN standardisation work on bio-based products; (2) training support or technical inputs to official customs and competent laboratory staff in Member States and to relevant activities within the existing programmes such as Customs 2020 and European Union Customs Competency Framework (EU Customs CPW); (3) definition of the minimum bio-based carbon and/or bio-based content for some bio-based product groups (except bio-based lubricants); (4) data compatibility with European and international databases (e.g. FAOSTAT, PSD, etc.). Data generated should be fed into economic models, existing or newly developed, enabling the description of the development of the bioeconomy, its interaction with the rest of the economy, and its economic, environmental and social impact. Consortia should include a balanced combination of expertise on bio-based products, statistical reporting from Member States and modelling. Proposals should build upon the existing work of completed and on-going projects, including the current activities of the

Title
Opening date
Deadline
Type of action

Challenge
Scope
Expected impact

Indicative budget
TRL

Planning – more information about a topic

Type of Action	Research and Innovation action [RIA]	START SUBMISSION
Topic	FET-Open Challenging Current Thinking - FETOPEN-01-2018-2019-2020	
Guidance on proposal submission:	H2020 ONLINE MANUAL	
IT Guidance:	HOW TO	

Get support - Less

[H2020 Online Manual](#) is your guide on the procedures from proposal submission to managing your grant.

[Participant Portal FAQ](#) - submission of proposals.

[National Contact Points \(NCP\)](#) - contact your NCP for further assistance in your national language(s).

[Research Enquiry Service](#) - ask questions about any aspect of European research in general and the EU Research Framework Programmes in particular.

[Enterprise Europe Network](#) - contact your EEN national contact for advice to businesses with special focus on SMEs. The support includes guidance on the EU research funding.

[IT Helpdesk](#) - contact the Participant Portal IT helpdesk for questions such as forgotten passwords, access rights and roles, technical aspects of submission of proposals, etc.

[Ethics](#) - for compliance with ethical issues, see the [Online Manual](#) and [Science and Society Portal](#)

[European IPR Helpdesk](#) assists you on intellectual property issues

[CEN and CENELEC](#), the [European Standards Organisations](#), advise you how to tackle standardisation in your project proposal. Contact CEN-CENELEC Research Helpdesk at research@cenelec.eu

[The European Charter for Researchers and the Code of Conduct for their recruitment](#)

[Partner Search Services](#) help you find a partner organisation for your proposal.

HORIZON 2020 RESEARCH ON EUROPA HORIZON 2020 & FP7 PROJECTS & RESULTS OLAF

Planning – more information

Type of Action	Research and Innovation action [RIA]	START SUBMISSION
Topic	FET-Open Challenging Current Thinking - FETOPEN-01-2018-2019-2020	
Guidance on proposal submission:	H2020 ONLINE MANUAL	
IT Guidance:	 HOW TO	

Get support - Less

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Planning – more information

RESEARCH & INNOVATION
Participant Portal H2020 Online Manual

My Area - User account & roles

Grants

Applying for funding

Find a call → Find partners → Register an organisation → Submit a proposal

Evaluation & Grant signature

Eligibility check → Evaluation of proposals → Grant preparation → Grant signature

Grant management

Keeping records | Amendments | Reports & payment requests | Deliverables

Dissemination & exploitation | Communicating your project | Acknowledgement of EU funding | Checks, audits, reviews & investigations

Working as an expert

Expert registration | Contracting & payment | Expert roles & tasks

Cross-cutting priorities & issues

International cooperation | Social Sciences & Humanities | Open access & Data management | Climate action & Sustainable development

Ethics | Gender | SMEs | ERA-NETs

Links to regional policy | Intellectual property | Innovation procurement

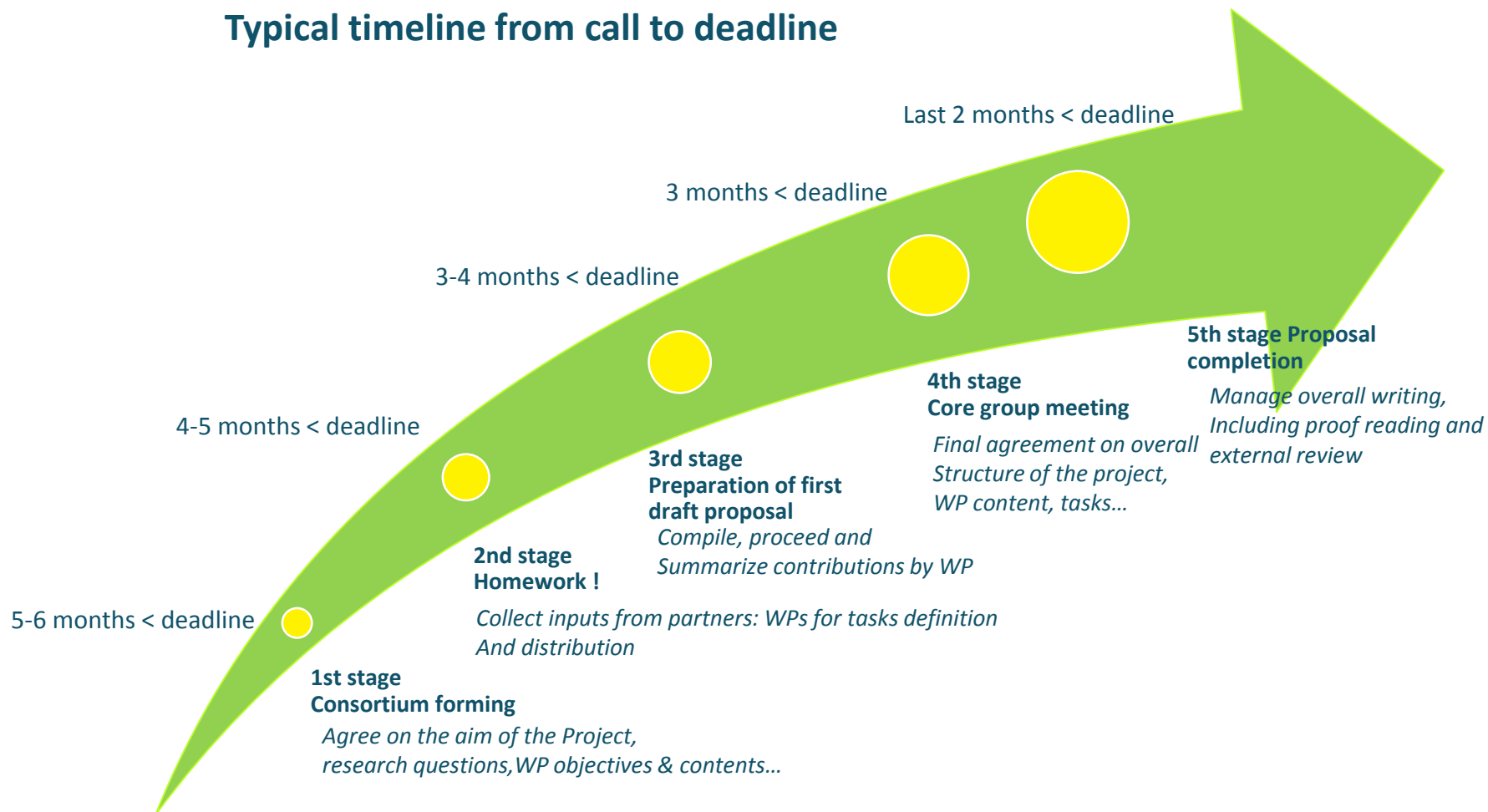
Financial instruments

Prizes

- H2020 Online Manual
 - My Area - User account & roles
 - EU Login
 - Roles & access rights
 - Terms and Conditions of Use
 - Grants
 - Applying for funding
 - Find a call
 - Horizon 2020 structure and budget
 - What you need to know about Horizon 2020 calls
 - Find partners or apply as individual
 - Register in the Beneficiary Register
 - Registration of your organisation
 - LEAR appointment
 - Validation of potential beneficiaries
 - Financial viability check
 - Data update
 - Certifications
 - Submit a proposal
 - Get prepared
 - Electronic proposal submission
 - From evaluation to grant signature
 - Eligibility check
 - Evaluation of proposals
 - Eligibility and evaluation criteria
 - Evaluation process and results
 - Grant preparation
 - Enter & submit grant data
 - Ethics review
 - Security scrutiny
 - Grant signature

Planning – Plan your project

Typical timeline from call to deadline



Writing & submitting

Keep in mind: 3 evaluation criteria

EXCELLENCE (section 1 of proposal template)

IMPACT (section 2)

IMPLEMENTATION ('excluded' first stage proposals) (section 3)

Self-evaluation form

**Research and innovation actions
Innovation actions**

This form is made available to applicants who may themselves wish to arrange an evaluation of their proposal (e.g. by an impartial colleague) prior to final editing, submission and deadline. The aim is to help applicants identify ways to improve their proposals.

The forms used by the experts for their evaluation reports will be broadly similar, although the detail and layout may differ.

These forms are based on the standard criteria, scores and thresholds. Check whether special schemes apply to the topics of interest to you. The definitive evaluation schemes are given in the work programme.

A self-evaluation, if carried out, is not to be submitted to the Commission, and has no bearing whatsoever on the conduct of the evaluation.

Scoring

Scores must be in the range 0-5. Half marks may be given. Evaluators will be asked to score proposals as they were submitted, rather than on their potential if certain changes were to be made. When an evaluator identifies significant shortcomings, he or she must reflect this by awarding a lower score for the criterion concerned.

Interpretation of the scores

0 — The proposal fails to address the criterion or cannot be assessed due to missing or incomplete information.

1 — Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.

2 — Fair. The proposal broadly addresses the criterion, but there are significant weaknesses.

3 — Good. The proposal addresses the criterion well, but a number of shortcomings are present.

4 — Very Good. The proposal addresses the criterion very well, but a small number of shortcomings are present.

5 — Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Thresholds

The threshold for individual criteria is 3. The overall threshold, applying to the sum of the three individual scores, is 10.

Two-stage submission schemes

The scheme below is applicable to a full proposal. For the evaluation of first-stage proposals under a two-stage submission procedure, only the criteria 'excellence' and 'impact' will be evaluated. Within these criteria, only the aspects in bold will be considered. The threshold for both individual criteria will be 4.

Weighting

For Innovation actions and the SME instrument (phases 1 and 2), to determine the ranking, the score for the criterion 'impact' will be given a weight of 1.5.

USE Self-evaluation form !

For RIA, IA and CSA in 2018-2020:

http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/ef/2018-2020/h2020-call-ef-ria-ia-csa-2018-20_en.pdf

Writing & submitting

SUBMIT (on time !) VIA PARTICIPANT PORTAL

Using the Proposal template

- **Part A = administrative**
- **Part B = technical**
 1. Excellence, Impact, Implementation
 2. Members of consortium, Ethics and societal impact, Security

Evaluation

Rules

- **What is written** in the proposals is evaluated by independent experts (3-4) on:
 - **Excellence/5**
 - **Impact/5** (x 1,5 for Innovation Actions)
 - **Implementation/5**
- **Minimum required scores:**
 - 3 (each criterion)
 - 10 in total

Evaluation

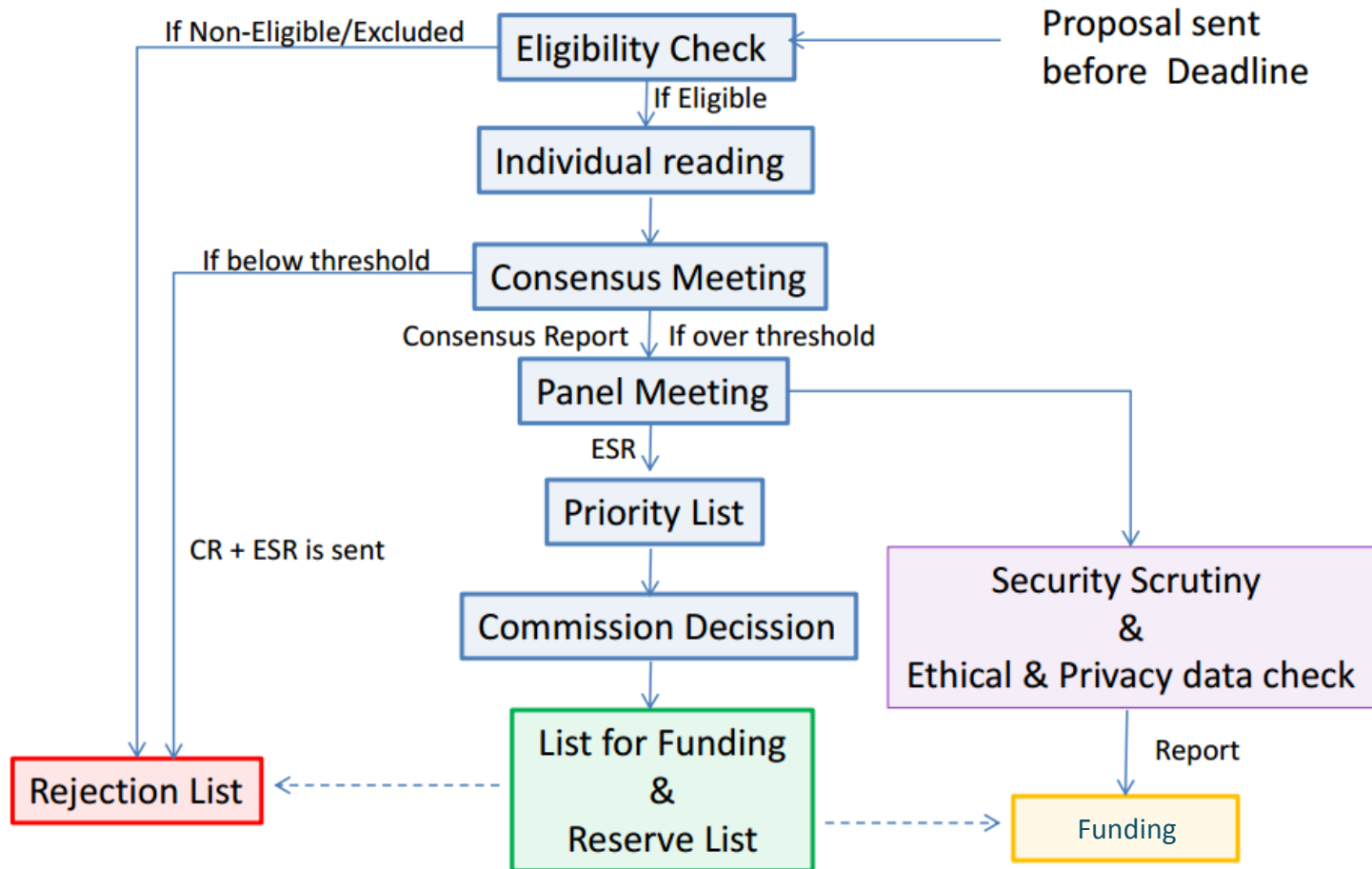
Scores

Good is NOT Good enough!!!

- **0 Not eligible** – Proposal fails to address the criterion or cannot be assessed due to **missing or incomplete information**
- **1 Poor** – The criterion is inadequately addressed, or there are **serious inherent weaknesses**
- **2 Fair** – The proposal broadly addresses the criterion, but there are **significant weaknesses**
- **3 Good** – The proposal addresses the criterion well, but with a **number of shortcomings**
- **4 Very Good** – The proposal addresses the criterion very well but with a **small number of shortcomings**
- **5 Excellent** – The proposal **successfully addresses all relevant aspects** of the criterion in question. Any shortcomings are minor

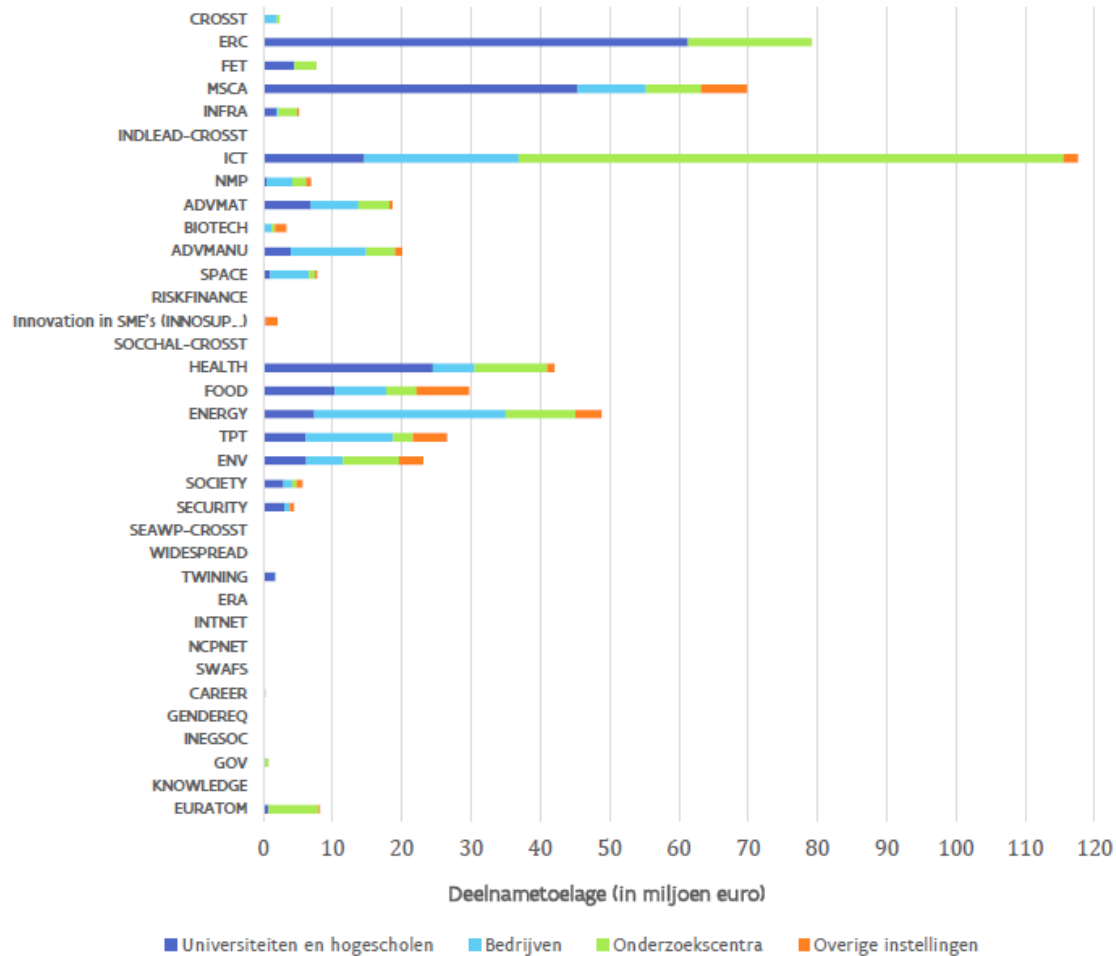
Evaluation

Procedure



HORIZON 2020

Flemish participation



HORIZON 2020

Top participants in Flanders

Instelling	# Deelnames	Deelnametoelage in miljoen euro
Katholieke Universiteit Leuven	165	96,03
Interuniversitair Micro-Elektronica Centrum vzw (IMEC)	53	63,28
Universiteit Gent	109	57,52
iMinds	35	28,23
Vlaamse Instelling voor Technologisch Onderzoek (VITO)	46	28,04
Vrije Universiteit Brussel	46	25,56
Vlaams Interuniversitair Instituut voor Biotechnologie (VIB)	36	24,80
Universiteit Antwerpen	36	15,22
Geo@Sea	1	8,31
Bio Base Europe Pilot Plant vzw	11	8,22

HORIZON 2020

Overview of open and forthcoming call topics - work
programmes 2018-2020

HORIZON 2020 work programmes 2018-2020

- ▶ ERC-grants (European Research Council)
 - ▶ *1 researcher; 1 host; 1 project; 1 selection criterion: scientific excellence*
 - ▶ Starting Grant
 - ▶ Consolidator Grant
 - ▶ Advanced Grant
 - ▶ Proof of Concept Grant
 - ▶ Synergy Grant

HORIZON 2020 work programmes 2018-2020

- ▶ MSCA (Marie Skłodowska-Curie actions)
 - ▶ *research-focused organisations / all stages of researchers' careers*
 - ▶ *encourage mobility (transnational, intersectoral & -disciplinary)*

- ▶ Innovative Training Networks (ITN)
- ▶ Individual fellowships (IF)
- ▶ Research and Innovation Staff Exchanges (RISE)
- ▶ COFUND
- ▶ NIGHT

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- ▶ FET (Future and Emerging Technologies)
 - ▶ *initiate radically new lines of technology*
 - ▶ *through unexplored collaborations*
 - ▶ *between advanced multidisciplinary science and cutting-edge engineering*

- ▶ FET Open (*radically new future technologies, at an early stage*)
 - ▶ FET Open also part of the European Innovation Council (EIC) pilot
- ▶ FET Proactive (*building up/structuring new interdisciplinary research communities*)
- ▶ FET Flagships (*1-billion, 10-year initiatives*)

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- ▶ RI (Research Infrastructures)
 - ▶ implementation and operation of the ESFRI and other worldclass research infrastructures
 - ▶ 6th calls:
 - ▶ Development and long-term sustainability of new pan-European research infrastructures
 - ▶ Implementing the European Open Science Cloud
 - ▶ Integrating and opening research infrastructures of European interest
 - ▶ European Data Infrastructure
 - ▶ Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation
 - ▶ Support to policy and international cooperation

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LEIT – Information and communication Technologies

- ▶ Migration, Transformation & Governance
- ▶ EU Data Infrastructure (HPC/Big Data/Cloud)
- ▶ Technologies for Digitising EU industry (Photonics, Electronics)
- ▶ Cyber Security & Digital Privacy
- ▶ Fintech / Arts
- ▶ Digital Innovation hubs & Platforms
- ▶ Next Generation Internet (AI, hyper-connected, multilingual)
- ▶ 5G & beyond (collaboration EU-US, EU-CHINA, EU-Taiwan)

- ▶ Digitising and transforming European industry and services
LEIT-ICT, LEIT-NMBP, LEIT-SACE, SC1, SC2, SC4 & SC6
- ▶ Boosting the effectiveness of the Security Union
LEIT-ICT, LEIT-SPACE, SC6, & SC7

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LEIT - Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

- ▶ Foundations for tomorrow's industry
 - ▶ Open Innovation Test Beds will provide the development and upscaling of advanced materials and nanotechnologies, combining digital, chemical and physical advances for innovative new products and services.
 - ▶ Advanced characterisation tools, predictive modelling of materials at different scales, and support for a framework to ensure public safety in nanotechnology.

- ▶ Transforming European Industry
 - ▶ Factories of the Future; Biotechnology; Medical technology innovations

- ▶ Industrial Sustainability
 - ▶ Sustainable process industry (SPIRE)
 - ▶ Catalysing circular economy
 - ▶ Clean energy through innovative materials
 - ▶ Cultural heritage
 - ▶ Energy Efficient Buildings

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LEIT - SPACE

- ▶ Space 2018-2020
 - ▶ Earth observation
 - ▶ Space business, entrepreneurship, outreach and education (Copernicus, start-ups)
 - ▶ Space technologies, science and exploration
 - ▶ Secure and safe space environment (space weather)
- ▶ EGNSS Market uptake (European Global Navigation Satellite System)

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ACCESS to RISK FINANCE

- ▶ Under 'Access to Risk Finance', Horizon 2020 helps companies and other types of organisations engaged in research and innovation (R&I) to gain easier access to debt and equity finance.
- ▶ Continues and sustains the financial instruments and accompanying measures launched in 2014-2015 and 2016-2017
- ▶ Access to risk finance works through financial intermediaries and in 2018-2020 the cooperation between InnovFin and EFSI (European Fund for Strategic Investments) will be intensified
- ▶ See: www.access4smes.eu/access-to-risk-finance & www.eib.org/efsi/
- ▶ Support for the preparatory/piloting phase of a potential European Innovation Council. See: <https://ec.europa.eu/research/eic/index.cfm>

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SME instrument

- ▶ For SMEs that are
 - ▶ Disruptive: innovative service/product
 - ▶ Ambitious: growing to international scale
 - ▶ Capable: expertise & experience

- ▶ Characteristics
 - ▶ Market-oriented
 - ▶ Bottom-up
 - ▶ Single SME (no consortium mandatory)

- ▶ Phase 1 = feasibility business plan (lump sum)
- ▶ Phase 2 = actual growth project (70%)
 - ▶ + coaching

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Societal Challenge 1: Health, demographic change and wellbeing

- ▶ Better Health and care, economic growth and sustainable health systems
 - ▶ Personalised medicine
 - ▶ Innovative health and care industry
 - ▶ Infectious diseases and improving global health
 - ▶ Innovative health and care systems - Integration of care
 - ▶ Decoding the role of the environment, including climate change, for health and well-being

- ▶ Digital transformation in Health and Care
- ▶ Trusted digital solutions and Cybersecurity in Health and Care
 - ▶ Focus Area on Digitising and transforming European industry and services
 - ▶ Focus Area on Boosting the effectiveness of the Security Union

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Societal Challenge 2: Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

➤ 5 Priorities WP

- Addressing climate change and resilience on land and sea
- Making the transition towards a circular bioeconomy
- Fostering functional ecosystems, sustainable food systems (SFS), healthy lifestyles
- Boosting major innovations on land and sea – new products, value chains and markets.
- Developing smart, connected territories and value chains in rural and coastal areas.

➤ Global approach & solutions

- Opening up the innovation process to all relevant active players worldwide
- Open science approaches and international cooperation. Priorities on:
 - Blue Growth: 'All Atlantic Ocean Research Alliance'; a flagship "Future of Seas and Oceans"; ...
 - SFS: flagships initiatives with China and Africa on Food and Nutrition Security and Sustainable Agriculture

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Societal Challenge 3: Secure, clean and efficient energy

Call - BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY

- Energy efficiency
- Global leadership in renewables
- Smart and clean energy for consumers
- Smart citizen-centered energy system
- Smart Cities and Communities
- Enabling near-zero CO₂ emissions from fossil fuel power plants and carbon intensive industries

Cross-cutting:

- Transforming the energy sector through digitization (LEIT)
- SME instrument & fast-track-to-innovation

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Societal Challenge 4: Smart, green and integrated transport

- Overall objective: achieving a European transport system that is resilient, resource-efficient, climate- and environmentally-friendly, safe and seamless
- Translated into 3 topics:
 - Building a low-carbon, climate resilient future: low carbon and sustainable transport
 - Digitising and transforming European industry and services: Automated Road Transport
 - Green vehicles

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Societal Challenge 5: Climate action, environment, resource efficiency & raw materials

- Climate action in support of Paris agreement
 - Decarbonization
 - Climate adaption, impacts and services
 - Interrelations climate change, biodiversity, ecosystem services
 - Cryosphere
- Circular economy in line with SDGs
 - Circular economy
 - Raw materials
 - Water
 - Innovation cities
 - Earth observation
 - Nature based solutions, disaster risk reduction and national capital accounting
 - Cultural heritage innovation

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Societal Challenge 6: Europe in a changing world – inclusive, innovative and reflective societies

Three main priorities in the WP 2018-2020

1. Migration

- ▶ *global and European governance of migration*
- ▶ *innovative (including ICT) solutions for successful integration of migrants*
- ▶ *effects of migration on social systems, the access to and impact on labour markets and the cultural integration of third country nationals*

2. Socioeconomic and cultural transformations in the context of the fourth industrial revolution

- ▶ *challenges linked to the compounded socioeconomic and cultural origins and effects in Europe of the fourth industrial revolution*

3. Governance for the future

- ▶ *Evidence based policy and technological options in order to develop adapted governance structures*
- ▶ *development of policy options in areas such as social rights in Europe, trust, citizenship, differentiation in the EU, open innovation, security and defence policy, digital democracy and also the delivery of public goods and the governance of the digital single market and of the European cloud infrastructure for public administration.*

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Societal Challenge 7: Secure societies – protecting freedom and security of Europe and its citizens

- Protecting the infrastructure of Europe and the people in European smart cities
 - Innovation actions
 - At least 2 MS or AC partners
- Security
 - Disaster resilient societies
 - Fight against crime and terrorism
 - Border and external security
- Digital security
 - Cybersecurity
 - Digital privacy
 - Data protection

HORIZON 2020 work programmes 2018-2020

Science with and for Society

- ▶ 5 strategic orientations:
 - ▶ Accelerating and catalysing processes of institutional change
 - ▶ Stepping up support to Gender Equality in Research & Innovation policy
 - ▶ Building the territorial dimension of SwafS partnerships
 - ▶ Exploring and supporting citizen science
 - ▶ Building the knowledge base for SwafS

HORIZON 2020 work programmes 2018-2020

Spreading Excellence and Widening Participation

- ▶ Aim: to close the research and innovation gap in the low-performing member states and associated countries.
- ▶ Two calls in the WP 2018-2020

1. WIDESPREAD

- Teaming: *creation of new (or upgrading of existing) Centres of Excellence*
- Twinning: *knowledge transfer and exchange of best practices*
- ERA Chairs: *bring outstanding researchers to universities and other research organisations*

2. Widening Fellowships

MSCA fellowships for researchers in the low-performing countries

More information

- ▶ Participant Portal of the European Commission
<http://ec.europa.eu/research/participants/portal/>
- ▶ Work programmes 2018-2020 are published since 27 October 2017:
<https://ec.europa.eu/programmes/horizon2020/en/what-work-programme>
- ▶ CORDIS database: <http://cordis.europa.eu/>

More information

- ▶ National Contact Points for Flanders:
<http://www.ncpflanders.be/ourteam>
- ▶ Overview of upcoming information sessions for Horizon2020 WP 2018-2020 calls:
<https://www.ncpflanders.be/events>
- ▶ Workshop Horizon2020 for beginners, 24 January, Elipsgebouw, Koning Albert II-laan 35, 1030 Brussel



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Fonds Wetenschappelijk Onderzoek
Vlaanderen
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AGENTSCHAP
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ONDERNEMEN



Vlaanderen
is ondernemen



NEW-MINE

Project ID: 721185
Funded under:
[H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers](#)

EU Training Network for Resource Recovery through Enhanced Landfill Mining

From 2016-09-01 to 2020-08-31, ongoing project

Project details

Total cost: EUR 3 844 721,16 EU contribution: EUR 3 844 721,16 Coordinated in: Belgium	Topic(s): MSCA-ITN-2016 - Innovative Training Networks Call for proposal: H2020-MSCA-ITN-2016 See other projects for this call Funding scheme: MSCA-ITN-ETN - European Training Networks
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Objective

Europe has somewhere between 150,000 and 500,000 landfill sites, with an estimated 90% of them being "non-sanitary" landfills, predating the EU Landfill Directive of 1999. These older landfills tend to be filled with municipal solid waste and often lack any environmental protection technology. In order to avoid future environmental and health problems, many of these landfills will soon require expensive remediation measures. This situation might appear bleak, but it does pre...

Related information Results
Related Information not available

Coordinator

KATHOLIEKE UNIVERSITEIT LEUVEN Belgium
 Oude Markt 13
 3000 LEUVEN
 Belgium
EU contribution: EUR 751 680
Activity type: Higher or Secondary Education Establishments
[Contact the organisation](#)

Participants

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN	Germany
UNIVERSITEIT GENT SINT PIETERSNIEUWSTRAAT 25 9000 GENT Belgium	Belgium EU contribution: EUR 250 560
MONTANUNIVERSITAT LEOBEN	Austria
UNIVERSITA DEGLI STUDI DI PADOVA	Italy
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	Switzerland
LINKOPINGS UNIVERSITET	Sweden
KUNGLIGA TEKNISKA HOEGSKOLAN	Sweden
SHANKS VALORIZATION & QUARRY	Belgium
ITALCEMENTI FABBRICHE RIUNITE CEMENTO SPA	Italy

Example of running project

EU contribution

Summary of project

Coordinator

Partners in consortium

Topic

To summarize

Horizon2020 – Funding project life cycle

<https://www.youtube.com/watch?v=b5rib94nbgE>

Thank you for your attention!