



**FUEL CELLS AND HYDROGEN**  
JOINT UNDERTAKING

# Rules for participation, call conditions, evaluation and submission

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Call coordinator

Brussel, 27/01/2020



# FCH2 JU – Call 2020

Applicable rules



H2020

## General Annexes to H2020

- List of countries eligible and rules for funding (Annex A)
- Admissibility and eligibility conditions (Annexes B and C)
- Types of action and funding rates (Annex D)
- Technology readiness level (TRL) (Annex G)
- Evaluation rules (Annex H)
- Open Access to research data (Annex L)

H2020-JTI-FCH-2020-1  
Total budget: 93 M€

Publication date:  
14 January 2020

Deadline:  
21 April 2020

AWP

## Annual Work Plan “AWP 2020”

AWP may introduce additional eligibility criteria

- Funding limit



# List of countries and rules for funding – Annex A

International Cooperation



**International cooperation**

## Participation “Open to the World”

- Open for all legal entities established in third countries and for international organisations

## Funding is provided for legal entities established in:

- Member States and countries associated to H2020
- A list of countries: Afghanistan, Algeria, ... , Zambia, Zimbabwe
- Any other country:
  - if participation deemed by the FCH2 JU essential in the action

**Assessed by experts  
during evaluation !**

## Brexit

- UK based legal entities will continue to be fully eligible to participate and receive funding in the current 2014-2020 EU programmes (including H2020).
- This will apply until the end of the projects, even if these are after 2020.



# International cooperation



Mission Innovation



All topics are opened to international cooperation

And specifically for 11 topics participation of Mission Innovation countries is strongly encouraged

## Topics encouraging participation of Mission Innovation members

Transport: FCH-01-1-2020, FCH-01-2-2020 and FCH-01-6-2020

Energy: FCH-02-1-2020

Overarching: FCH-03-1-2020 and FCH-03-2-2020

Cross-Cutting: All topics, from FCH-04-1-2020 to FCH-04-5-2020

## Innovation Challenge Members: EU countries on the map and ...



Australia



Chile



Japan



Canada



China



USA



European Union



India



Saudi Arabia



# International cooperation

How to include an international entity in your proposal?



## Participation with funding

How to demonstrate that participation is essential?

- Part B, Section 3.3 - explain why its activities are essential to the project on the basis of:
  - outstanding competence/expertise
  - access to research infrastructure
  - access to particular geographical environments
  - access to data
  - Etc.
- Table 3.2, risk for implementation → convincing mitigation measure in case participant is not accepted for funding.

## Participation without funding

- Participating in the consortium without requesting EU budget → **Full partners that will be validated and sign the contract**
- Becoming the international partner of one of the beneficiaries (article 14a of the grant agreement)

↓  
**Partner linked with one beneficiary and will not sign the contract**



# Admissibility and eligibility conditions - Annexes B-C

A proposal is:

## ADMISSIBLE, when:

- **Submitted** in the electronic submission system “SEP” in time
- **Readable**, accessible and printable
- **Complete** (admin data, proposal description, **operational capacity**, etc.)
- Include draft **plan for the exploitation and dissemination** of the results

**Respect page limit !**

## ELIGIBLE, when:

- In line with the topic
- Complies with:

**+ Additional Conditions in the AWP**

<b>RIA and IA →</b>	At least <u>three legal entities</u> each established in a different Member State or Associated Country. All three legal entities must be independent of each other.
<b>CSA →</b>	At least <u>one legal entity</u> established in a Member State or in an Associated Country



# Types of Actions – Annex D



## RIA - Research and Innovation Actions

Actions primarily consisting of activities aiming to establish new knowledge and/or to explore the **feasibility of a new or improved technology**, product, process, service or solution. For this purpose they may include **basic and applied research**, technology development and integration, testing and validation on a **small-scale** prototype in a laboratory or simulated environment.

funding rate  
max. **100%**

## IA- Innovation Actions

Actions primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, **demonstrating, piloting, large-scale** product validation and **market replication**.

funding rate  
max. **70%\***

## CSA - Coordination and Support Action

Actions consisting primarily of accompanying measures such as **standardization, 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 strategic planning, networking and coordination between programs in different countries.

funding rate  
max. **100%**



\*Funding 100% for non-profit legal entities

# Technology readiness levels (TRL) – Annex G



**RIA**

*TRL 1 – basic principles observed*

TRL 2 – technology concept formulated

TRL 3 – experimental proof of concept

TRL 4 – technology validated in lab

TRL 5 – technology validated in relevant environment

TRL 6 – technology demonstrated in relevant environment

TRL 7 – system prototype demonstration in operational environment

**IA**

TRL 8 – system complete and qualified

TRL 9 – actual system proven in operational environment



# Evaluation rules – Annex H

Selection criteria



## Financial Capacity:

Coordinator completes a self-assessment at the proposal stage

## Operational Capacity:

Indicated by the experts, based on partners information:

- CV
- Previous publications/products
- Previous projects/activities
- Infrastructure and equipment
- Third parties contribution

Each individual participant has, or will have in due time, a sufficient operational capacity to carry out its tasks in the proposed work plan?

→ If No, please list the concerned partner(s), the reasons for the rejection, and the requested amount



# Evaluation rules – Annex H

Award criteria, scores and weighting

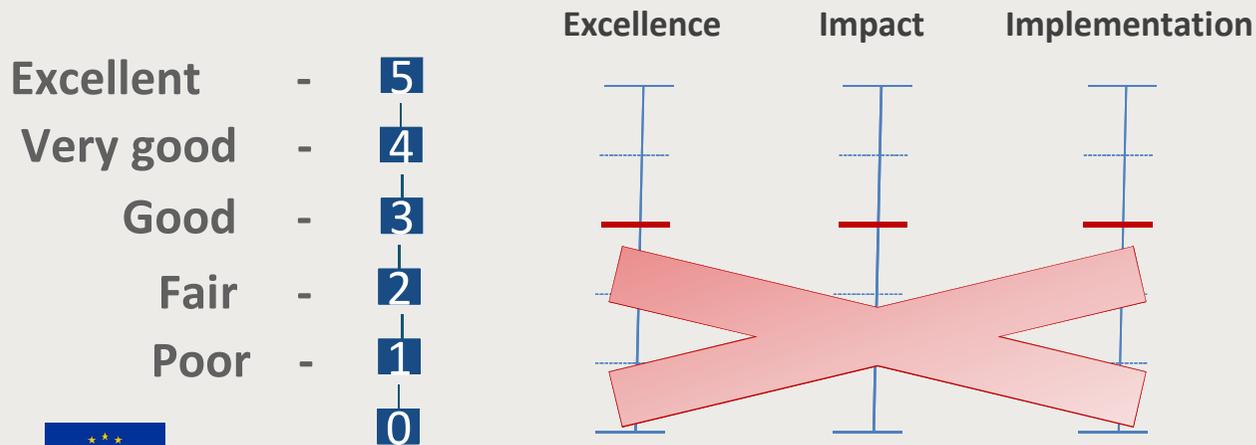


The proposals will be evaluated against the following **award criteria**:

- **Excellence**
- **Impact**
- **Quality and efficiency of the implementation**

Evaluation grid available in Annexe H

## Scores, weighting and thresholds



Thresholds apply to:

- Individual criterion, score must be  $\geq 3$
- Overall score must be  $\geq 10$



# Open Access to research data – Annex L

## Open Access

Beneficiaries must ensure that any user can access, mine, exploit, reproduce and disseminate, free of charge :

- Underlying data
- Other data, as specified in Data Management Plan, which provides:
  - Data the research will generate
  - How to ensure its curation, preservation and sustainability
  - What parts of that data will be open (and how)

Costs covered by the grant

## “Opt-out” possible

- Before or after GA signature
- Only if justified

Does not influence the scores given by the evaluators

**As open as possible, as closed as necessary**

FAIR Data:

- Findable
- Accessible
- Interoperable
- Re-usable



# FCH2 JU – Call 2020

Applicable rules



H2020

## General Annexes to H2020

There is no derogation from the H2020 Rules for Participation !

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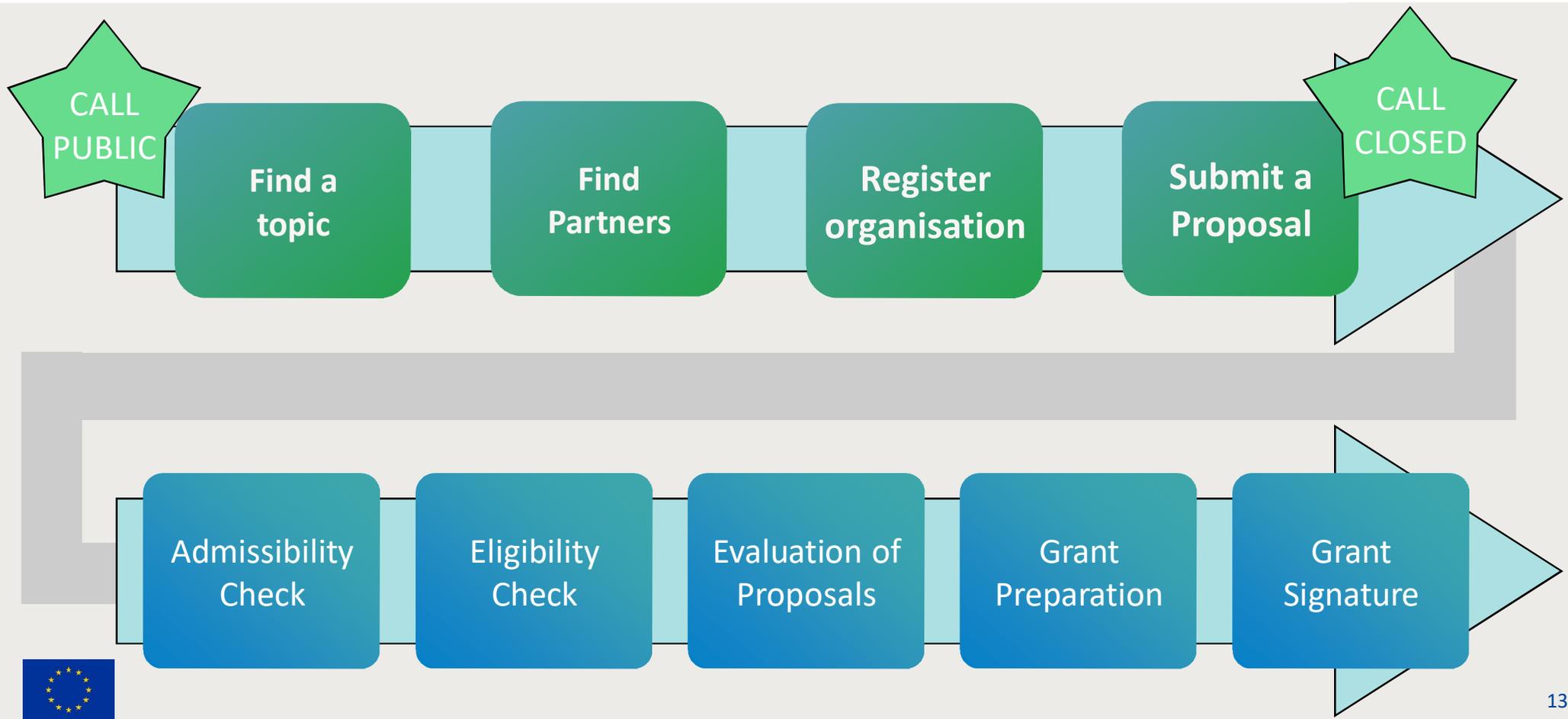
## Annual Work Plan “AWP 2020”

Additional eligibility criteria

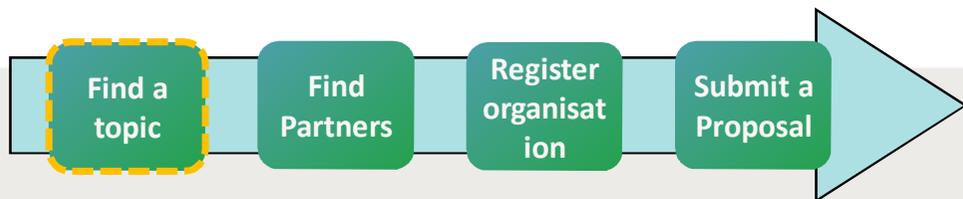
**Max. Funding (relevant for 11 topics)**  
“The maximum FCH 2 JU contribution ...  
proposals requesting FCH 2 JU  
contribution above this amount will not  
be evaluated”



# Evaluation is part of a bigger process



# Finding the 2020 FCH call



## Funding & Tender Portal

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

### Search Funding & Tender

Type « FCH »

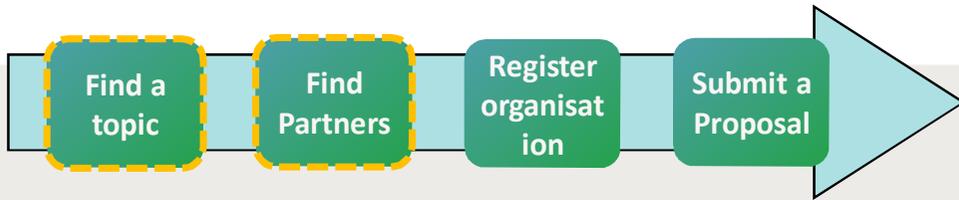
List of 24 topics – Call 2020

The screenshot shows the 'Funding & tender opportunities' portal. The search bar contains 'FCH'. The results show 24 results, with two examples highlighted in a blue box:

- Grant** **Development of hydrogen tanks for electric vehicle architectures** FCH-01-1-2020  
Types of action: Research and Innovation action | Programme: Horizon 2020  
Open for submission  
Opening date: 14 January 2020
- Grant** **Durability-Lifetime of stacks for Heavy Duty trucks** FCH-01-2-2020  
Types of action: Research and Innovation action | Programme: Horizon 2020  
Open for submission  
Opening date: 14 January 2020



# Topics details and partner search



## Topic description

## Topic conditions and documents

## Partner search

## Submission

- Templates of proposals
- On-line tool for submission

## Support and Guidance

- H2020 Online Manual
- HOW TO

European Commission | Funding & tender opportunities  
Single Electronic Data Interchange Area (SEIDIA)

Archived funding (FP7-CIP)

Jan 15, 2019

**Demonstrating the blueprint for a zero-emission logistics ecosystem**

ID: FCH-01-1-2019

Type of action: FCH2-IA Innovation action | Deadline Model: single stage | Planned opening date: 15 January 2019 | Deadline: 22 April 2019 17:00:00 Brussels time | Forthcoming

Horizon 2020

Work programme: H2020-JTH-FCH-2019 | Work programme year: H2020-JTH-FCH-2019

Call name: FCH2 JU call for proposals 2019 | Call ID: H2020-JTH-FCH-2019-1

See all topics of this call >

Go to top

**Topic Description**

Topic description

Regulations for indoor operations of vehicles and the intensified discussion on air quality for industrial areas (harbours, chemical sites, wholesale markets) demand zero emission drive trains for various kinds of vehicles. Electric vehicles are commonly regarded as the suitable answer. Considering that most operators are procuring battery electric vehicles to meet air quality regulations, the challenge for fuel cell logistic and production vehicles will be to demonstrate the distinct operating advantages of those in comparison to battery solutions. For example battery-based solutions are often lacking a sufficient operating time in industrial applications (especially in sites with 2 working shifts or 14 hours of operation per day), need relatively long time for recharging, require precious space for the recharging infrastructure or for the storage of replaceable batteries, are unable to work in refrigerated areas and are therefore, not suitable as a replacement of conventionally propelled vehicles.

Previous EU/FCH 2 JU projects on FC based Material Handling Vehicles (MHV) the HAWL, HYLIFTDEMO and HYLIFTEurope and especially the success of FC forklifts in the USA (more than 20.000 units in operation) have shown the general technical feasibility on one hand and a realistic potential of an economic operation on the other. However, costs for both FC based logistic vehicles and the necessary infrastructure are still too high in comparison to batteries or combustion engine-based solutions. Likewise, beyond forklifts (<3.5t) other...

show more...

Go to top

**Topic conditions and documents**

1. **Eligible countries:** described in Annex A of the H2020 main Work Programme.

A number of non-EU/non-Associated Countries that are not automatically eligible for funding have made specific provisions for making funding available for their participants in Horizon 2020 projects. See the information in the Online Manual.

2. **Eligibility and admissibility conditions:** described in Annex B and Annex C of the H2020 main Work Programme.

show more...

Go to top

**Partner Search**

1 Organisations are looking for collaborating partners for this topic

View / Edit

LEAs, Account Administrators or self-registrants can publish partner requests for open and forthcoming topics after logging into this Portal.

Go to top

**Select your type of action to start submission**

The submission system is planned to be opened on 15 January 2019. Details stated on the topic header.

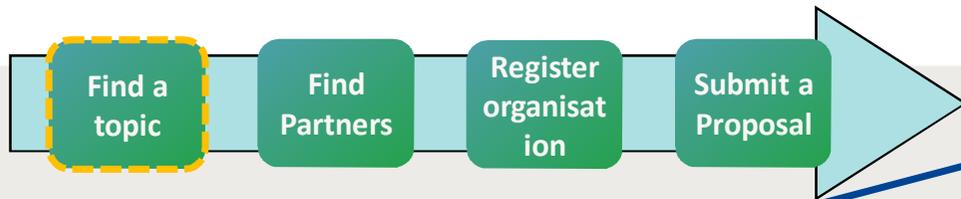
Go to top

**Get support**





# Topic description



## Specific Challenge

- Context of the topic

**Out-of-scope proposals = ineligible**

## Scope

- Operational requirements and focus
- TRL
- Consortium composition
- Indicative budget
- Expected duration
- ...

## Expected Impact

- Technical targets
- Costs reduction
- Contribution to policies (env., indus., ...)
- ...



**Specific Challenge**

**Scope**

**Expected Impact**

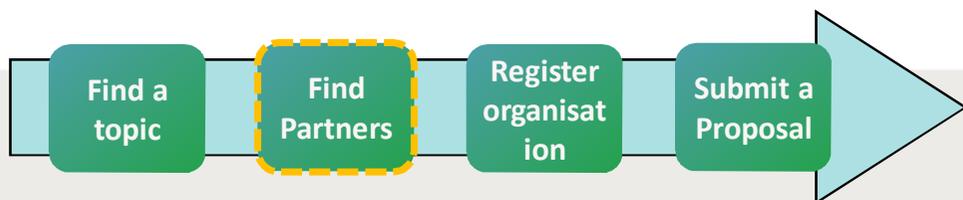
Additional specific KPIs include the following:

- CAPEX 10,000 €/kW according to the target set for 2024 in the MAWP;
- On the fuel cell stack level electrical efficiency 55% (LHV) at performance exceeding 0.2 W/cm<sup>2</sup>;
- On the system level Volume Power density 10-20 W/l should be achieved at an electrical efficiency of 50-55% (LHV) depending on the fuel, LPG, natural gas or methanol;
- Projected degradation of the system < 0.4 % per 1,000h on the electrical efficiency at constant power output;
- No less than 85 % fuel processor efficiency at the Begin of Life (BoL);
- Reference test conditions can be realized with reformat gas originating from methanol, bio-gas, LPG/NG or NG blended with H<sub>2</sub> admixtures with composition H<sub>2</sub> (55-70 %), H<sub>2</sub>O (7-2

Type of action: Research and Innovation Action

The conditions related to this topic are provided in the chapter 3.3 and in the General Annexes to the Horizon 2020 Work Programme 2018–2020 which apply mutatis mutandis.

# Contact partners through the Funding & tender opportunities Portal



## Actions:

- Contact per email
- See details

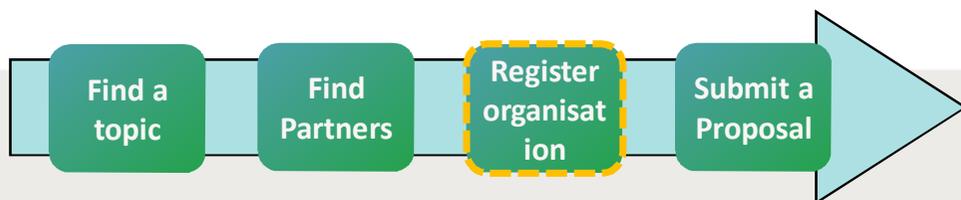
## Partner description

Partner Search list

Results: 1

ORGANISATION NAME	REQUEST DATE	ORGANISATI... TYPE	COUNTRY	EXPERTISE REQUEST OR OFFER	ACTIONS
HAPTIC R&D CONSULTING SRL <div style="border: 1px solid blue; padding: 5px; margin-top: 5px;">           HAPTIC R&amp;D CONSULTING, headquartered in Aricestii Rahtivani, Prahova (ROMANIA), is a consulting of global technology and engineering company providing innovative solutions for customers in industrial, commercial, and residential markets.         </div>	15-Jan-2019	Small or medium-size enterprise	RO	Expertise offer	<div style="border: 1px solid blue; padding: 5px; margin-top: 5px;"> <ul style="list-style-type: none"> <li>Contact Organisation</li> <li>Partner search details</li> </ul> </div>

# Registering your organisation



## Why register?

Mandatory for participation in a proposal, your organisation needs to be registered and have a 9-digit Participant Identification Code (PIC).

## How

Via the Funding & tender opportunities Portal: To register, you need to **login** in the Portal or, if you are a new user, [create your account](#).

### Register your organisation

To register, you need to login in the Portal or, if you are a new user, create your account.

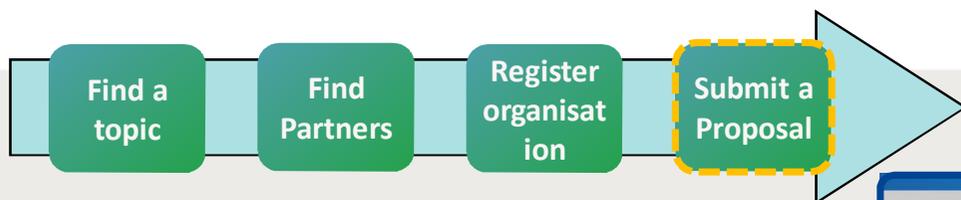
Check what information you need to register in the Online Manual - and keep it to hand during the registration procedure. To start registration, click on the button below.

Register your organisation





# Building a proposal in some clics



Process overview

Information Pane

Org. Registration needed

Technical Annexes  
Word documents

LOGIN FUNDING SCHEME CREATE DRAFT PARTIES EDIT PROPOSAL SUBMIT

### Step 3

#### Create a Draft Proposal

H2020-JTI-FCH-2020-1

USER NAME  
Lionel BOILLLOT

TOPIC  
FCH-02-1-2020

TYPE OF ACTION  
FCH2-RIA

TUE 21 DEADLINE (Brussels Local Time)  
April 2020 17:00:00

96 days left until closure

Download Part B Templates

Visit our 'How to' user guide

Visit our 'H2020 Online Manual'

#### Create a Draft Proposal

Please enter the following information to create a draft proposal. Please note that fields marked with a star (\*) are **mandatory**.

It is highly recommended to submit your proposal as early as possible and at least 48 hours prior to the deadline of this call. This will avoid being confronted with incompatible local IT configuration settings shortly before the call deadline, when insufficient time would be left to handle it. There is no reason in delaying the submission for confidentiality concerns as the system does not allow any access to the proposals before call deadline or cut-off (other than to selected data that is part of the Submission and Evaluation of Proposals Assent Disclaimer).  
You can submit the proposal as many times as you wish up to the deadline. Every submitted version will replace the previously submitted one.

#### Your organisation

PIC\*  Short name\*

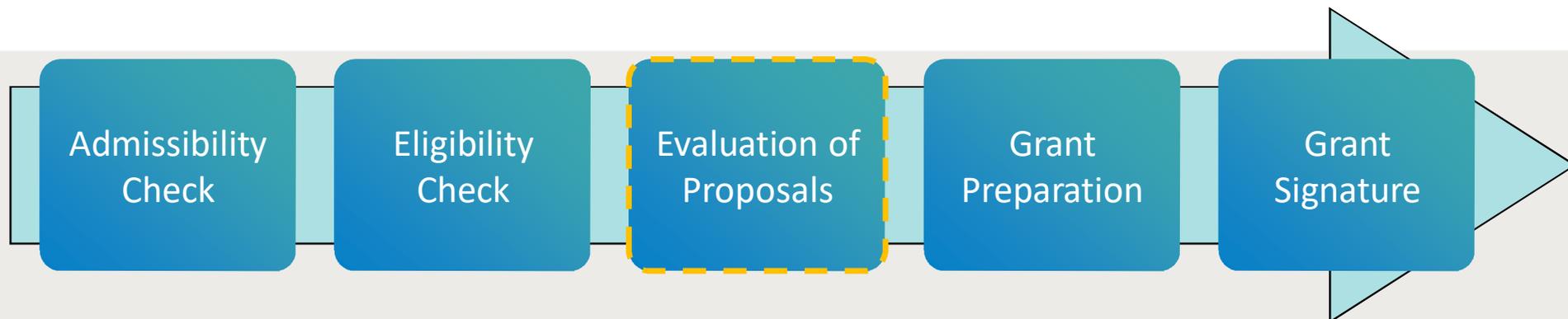
Organisations you have been previously associated with. Click to select.

PIC: 956444445  
Baird Consulting SCS  
Vieille rue du Moulin-Rouge 20  
Uccle, BE

PIC: 952853893  
JANITOM Tomasz Janisz  
ul. Ogarna 111/112/6  
Gdansk, PL



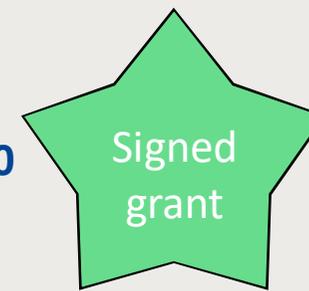
## 8 months for Time-To-Grant



21/04/2020

MAX. 8 MONTHS

21/12/2020

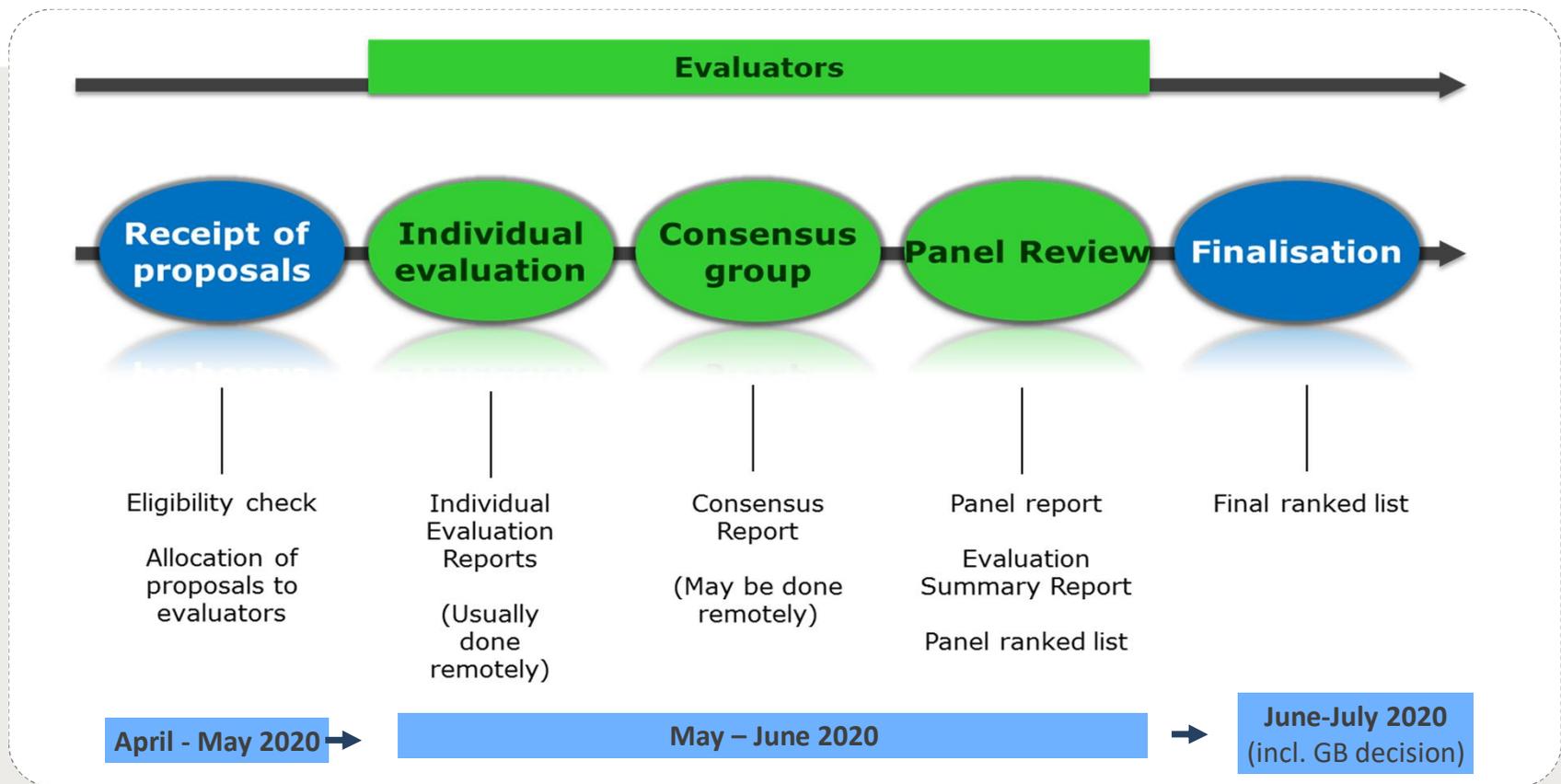


**Quality of the proposal is key !**

- The experts evaluate each proposal as submitted
- The experts do not recommend substantial modifications
- If the experts identify significant shortcomings, they must reflect those in a lower score for the relevant criterion



# Overview of the Evaluation Process



FCH JU will evaluate the proposals with the help of independent external experts ('evaluators')



# Evaluation by independent experts

How are the evaluators selected?

## European Commission database of experts

Register through the Funding & tender opportunities Portal

### Selection of experts

- High level of skill, experience and knowledge
- Independence and absence of conflict of interest

And a **balance** in terms of:

- geographical diversity
- gender
- where appropriate, the private and public sectors, and
- an appropriate 'rotation' from year to year.

In principle, each proposal will be examined by **at least three experts**

Presence of **one or more independent observers**

Experts that have a **conflict of interests** will be excluded by us !



**25% new experts**



**Large fields of expertise**



**Network with fellows**

# Feedback to applicants



- **Flash Info** on Funding & tender opportunities Portal (*similarly on FCH2 JU website*):
  - Publishing number of proposals submitted per budget/list of topics, **after the call deadline**;
  - Publishing basic statistics on the outcome of the call (e.g. total proposals, ineligible, above/below-thresholds) **at the same time with the feedback/evaluation results to all applicants**
- **Maximum 5 months from the call deadline:** Evaluation Results Letter (through Funding & tender opportunities Portal)
- **Request for evaluation review:** within **30 days** of receiving the Evaluation Results Letter (through Funding & tender opportunities Portal) – Only on the procedure

