#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Activities of Societal Challenge 3: "Secure, clean and efficient energy"

Alexandros Kotronaros
Directorate General for Energy
European Commission

Research and Innovation

Content

- **Policy framework**

- **New features of the Work Programme 2018-2020**

- **Horizon 2020 work programme 2018-2020**

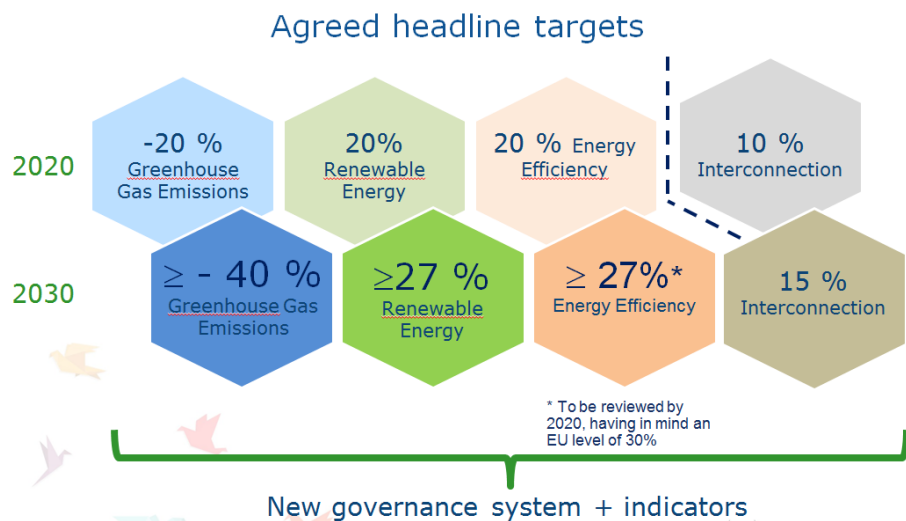- **Frequent mishaps**

- **Resources for help**

Policy Framework

Towards an **Energy Union** — clean, secure, affordable energy

"Clean Energy for all Europeans"

➢ *Putting energy efficiency first*
➢ *Demonstrating global leadership in renewables*
➢ *Delivering a fair deal for consumers*

Agreed headline targets

2020	-20 % Greenhouse Gas Emissions	20% Renewable Energy	20 % Energy Efficiency	10 % Interconnection
2030	≥ - 40 % Greenhouse Gas Emissions	≥27 % Renewable Energy	≥ 27%* Energy Efficiency	15 % Interconnection

* To be reviewed by 2020, having in mind an EU level of 30%

New governance system + indicators

Paris Agreement

*Holding the increase in the global average temperature to **well below 2°C** above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels*

*Accelerating, encouraging and enabling **innovation** is crucial…*
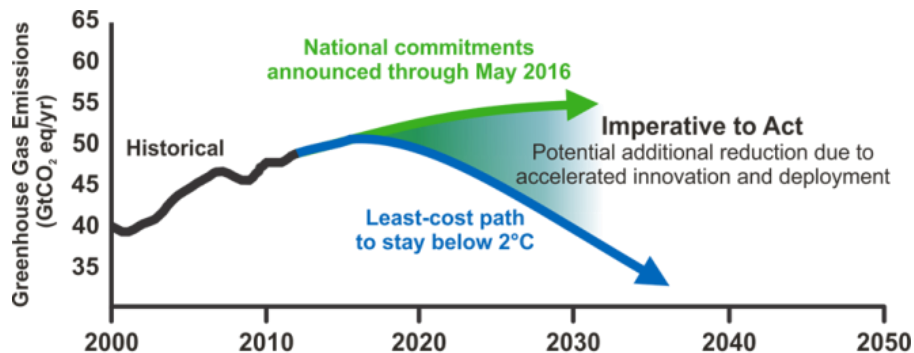
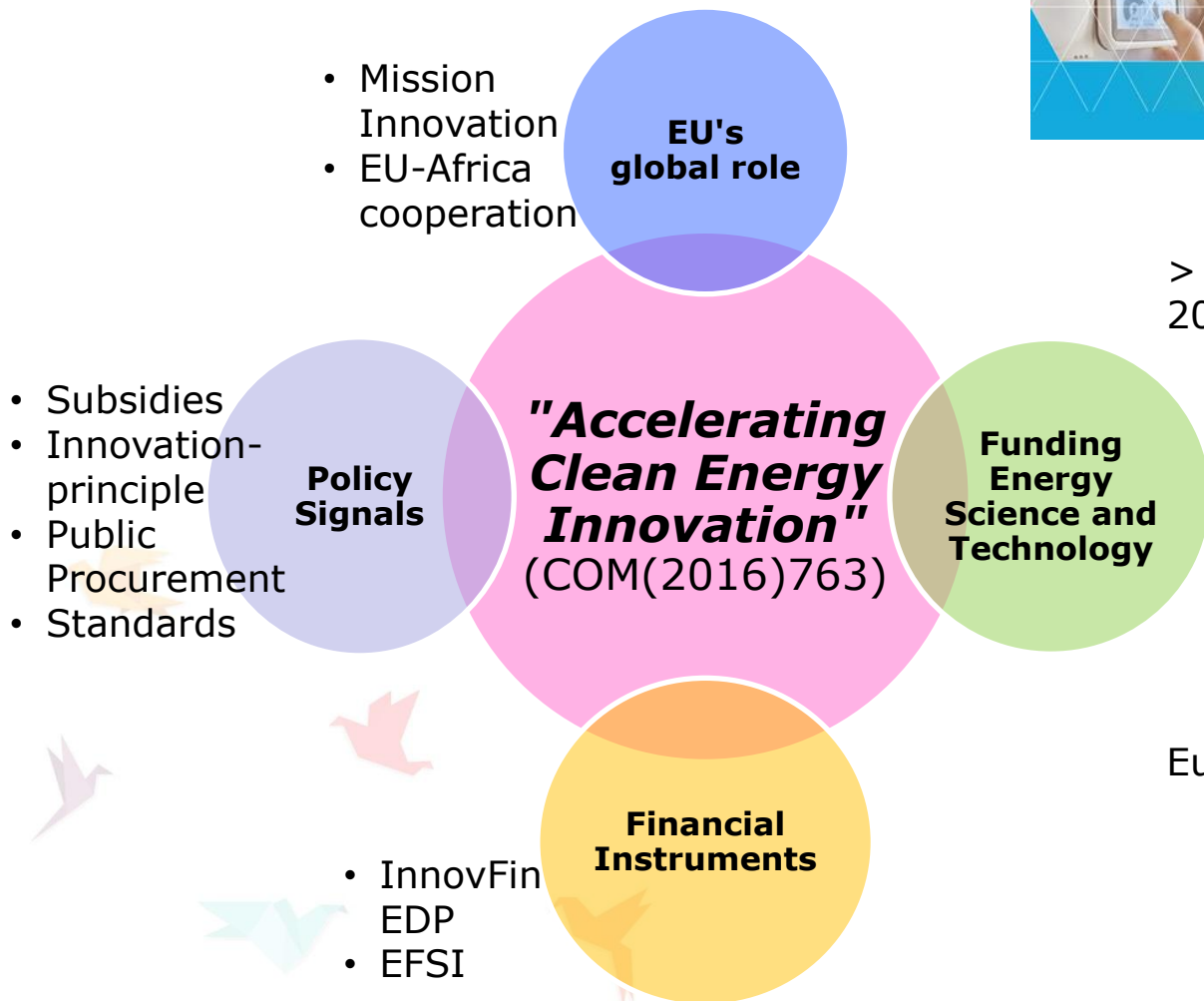Adapted from UNFCCC, Synthesis report of INDCs, May 2016

Other EU policy priorities

- Digital Single Market
- Jobs, Growth and Investments
- EU as a strong global actor
- …

European Commission

Accelerating Clean Energy Innovation

Clean energy for all Europeans

- Mission Innovation
- EU-Africa cooperation

EU's global role

- Subsidies
- Innovation-principle
- Public Procurement
- Standards

Policy Signals

"Accelerating Clean Energy Innovation" (COM(2016)763)

Funding Energy Science and Technology

Financial Instruments

- InnovFin EDP
- EFSI

> EUR 2.2 billion in H2020 (2018-2020) on:

- Decarbonising EU building stock by 2050
- Strengthening EU leadership in renewables
- Affordable and Integrated energy storage
- E-mobility and more integrated urban transport systems

European Innovation Council

European Commission

The Strategic Energy Technology Plan (SET-Plan)

Overall objective: Accelerating the development and deployment of low-carbon technologies through cooperation among EU countries, companies, research institutions, and the EU itself, based on **common priorities, targets and actions**.

Defining priorities
- SET-Plan Communication 2015

Setting targets
- Declaration of Intents

Implementation Plans (IP)
- Temporary Working Groups

Execution of IPs

Priority Actions:

1+2. Improving performance and reducing cost of renewable energy

3. Smart solutions for consumers

4. Smart Resilient and Secure Energy System

5. Energy Efficiency in Buildings

6. Energy Efficiency in Industry

7. Batteries and e-Mobility

8. Renewable Fuels and Bioenergy

9. Carbon Capture Utilisation and Storage

10. Nuclear Safety

European Commission

Mission Innovation

Overall objective: To reinvigorate global efforts in clean energy innovation, Mission Innovation members share a common goal to **develop and scale** breakthrough technologies and substantial **cost reductions**. MI members aim to seek to **double public clean energy research and development investment** over five years.

● Lead
○ Participant

		Australia	Brazil	Canada	Chile	China	Denmark	EC	Finland	France	Germany	India	Indonesia	Italy	Japan	Mexico	Norway	Republic of Korea	Saudi Arabia	Sweden	The Netherlands	UAE	UK	USA
1	Smart Grids Innovation Challenge	○	○	○		●	○	○	○	○	○	●	○	●		○	○	○	○	○	○		○	○
2	Off Grid Access to Electricity Innovation Challenge	○	○	○		○		○		●		●	○	○		○	○	○			○	○	○	○
3	Carbon Capture Innovation Challenge	○		○		○		○	○	○	○	○		○	○	○	○		●	○	○	○		●
4	Sustainable Biofuels Innovation Challenge		●	●		●		○	○		○	●	○	○		○	○			○	○		○	○
5	Converting Sunlight Innovation Challenge	○	○	○	○	○	○	●	○	○	●	○	○	○		○	○	○		○	○		○	○
6	Clean Energy Materials Innovation Challenge	○		○		○		○	○	○	○	○		○	○	●	○	○		○	○	○		●
7	Affordable Heating and Cooling of Buildings Innovation Challenge	○	○	○		○		●	○	○	○	○		○	○		○	○		○	○	●	●	○

New features of the Work Programme

- **Political priorities**

  - **Focus Areas**

    1. a low-carbon, climate resilient future;

    2. circular economy;

    3. digitising and transforming European industry and services;

    4. security union.

Focus areas are expected to create an **exceptional impact**

- **Strengthening International Cooperation**

  - 30 flagship initiatives in areas of mutual benefit

- **Measures to support market creating innovation**

  - 1st phase of European Innovation Council (EIC)

    – Supports frontier research

    – SME instrument

    – Inducement prises

    – FET

    – Fast track to innovation

What else is new

Pilots on:

- Lump-sum contribution
- ICT pilot using the mechanism of ERASMUS+
- New 50% funding rate for some actions
- Dedicated support to high impact clean energy technologies
- Widening fellowships

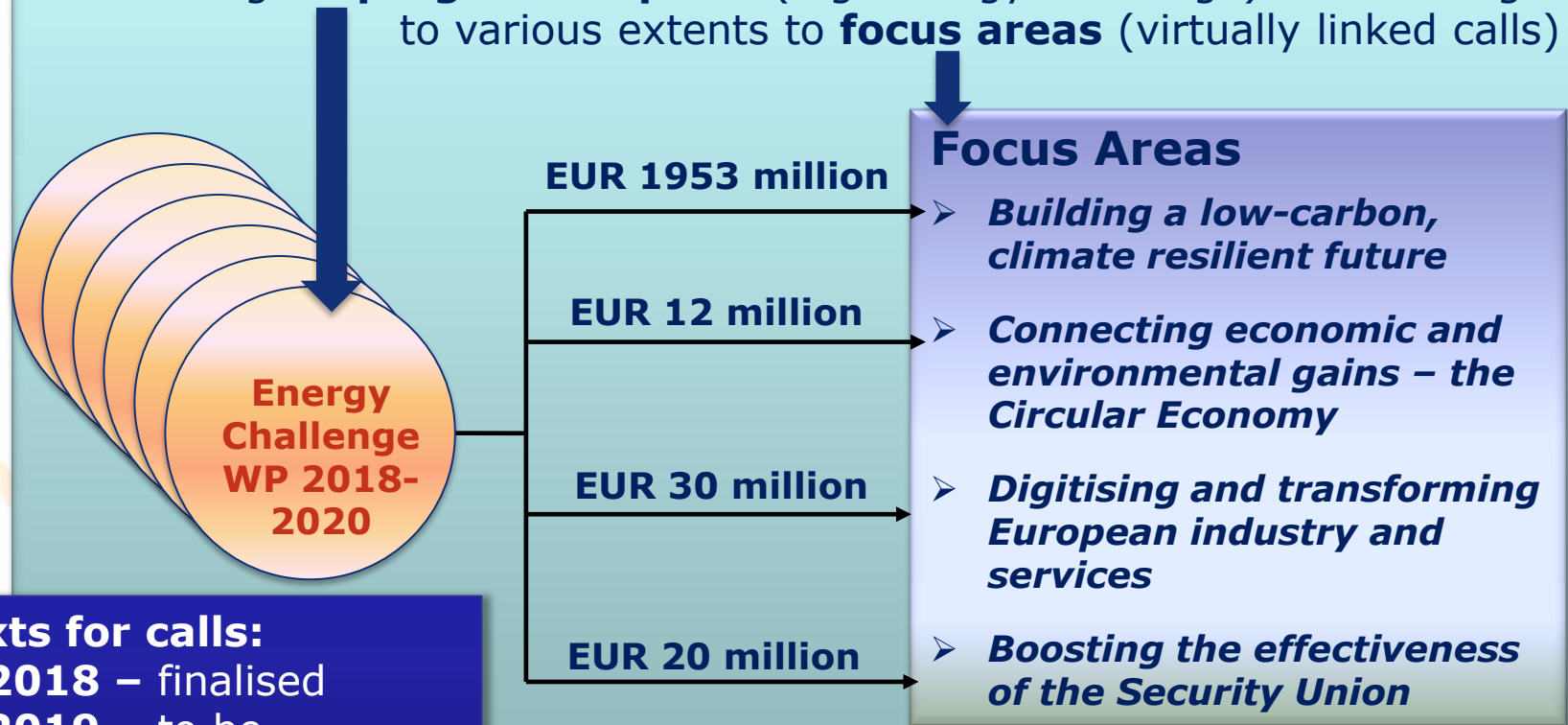European Commission

Inputs to the work programme 2018-2020

Stakeholder platforms

Member States / Associated Countries

SET-Plan (10 Actions)

Other

Mission Innovation

Advisory Group on Energy (AGE)

Clean Energy for all Europeans (incl. ACEI)
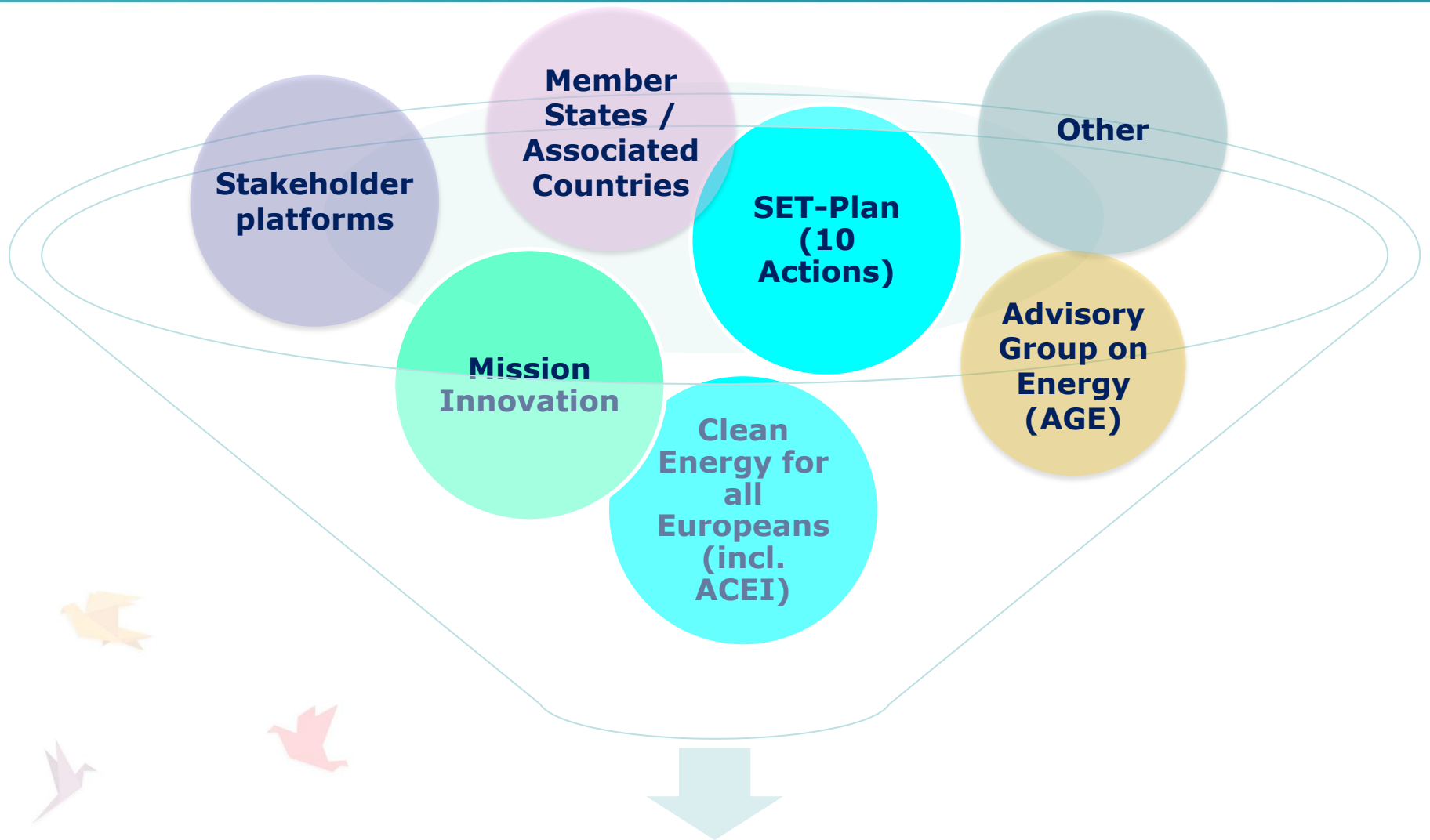
Energy WP 2018-2020

European Commission

Horizon 2020 work programme 2018-2020

Horizon 2020 work programme 2018-2020
- Total budget envelope: ~ EUR 30 billion
- Covering **18 programme parts** (e.g. Energy Challenge) contributing to various extents to **focus areas** (virtually linked calls)

Energy Challenge WP 2018-2020

EUR 1953 million

EUR 12 million

EUR 30 million

EUR 20 million

Focus Areas
- *Building a low-carbon, climate resilient future*
- *Connecting economic and environmental gains – the Circular Economy*
- *Digitising and transforming European industry and services*
- *Boosting the effectiveness of the Security Union*

Texts for calls:
- **2018 –** finalised
- **2019 –** to be confirmed mid-2018
- **2020 –** to be added as of mid-2018

European Commission

Energy across Horizon 2020

Energy is also addressed in many Horizon 2020 parts

Bottom-up activities

- European Research Council (ERC)
- European Innovation Council (SME instrument, FTI pilot, FET, Prizes)
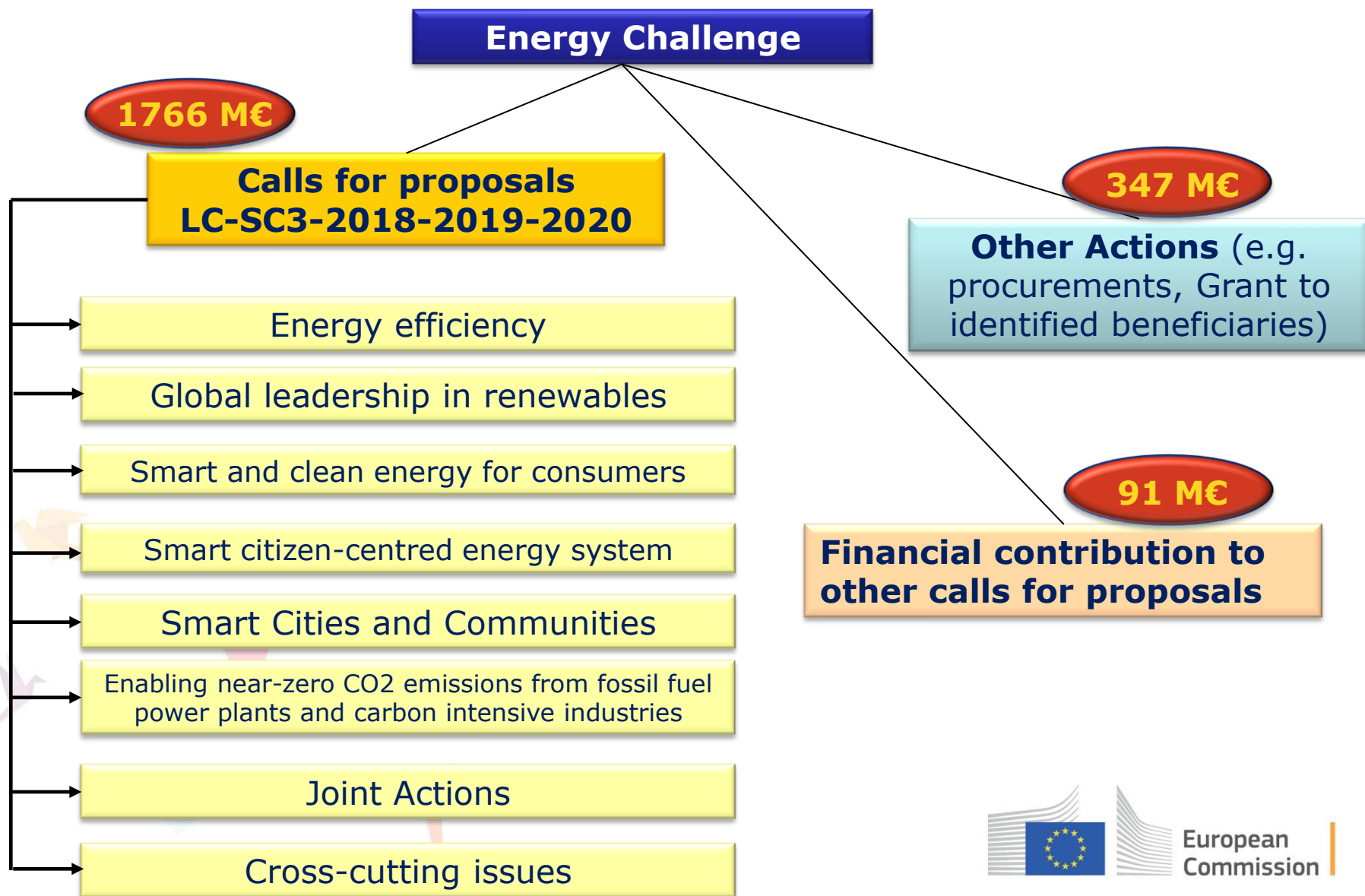- Marie-Sklodowska Curie Actions

Industrial Leadership

- Materials
- PPPs on Energy-efficient Buildings and SPIRE
- Information and Communication Technologies
- Space (Galileo)

Societal Challenges (SC)

- SC2: Bioeconomy, Blue Growth
- SC4: Electric vehicles, Batteries, Energy-efficient transport
- SC5: Cities, Earth observation, raw materials, climate change mitigation strategies
- SC7: Cybersecurity, Critical energy infrastructure

-> Please check also calls of other Horizon 2020 parts!
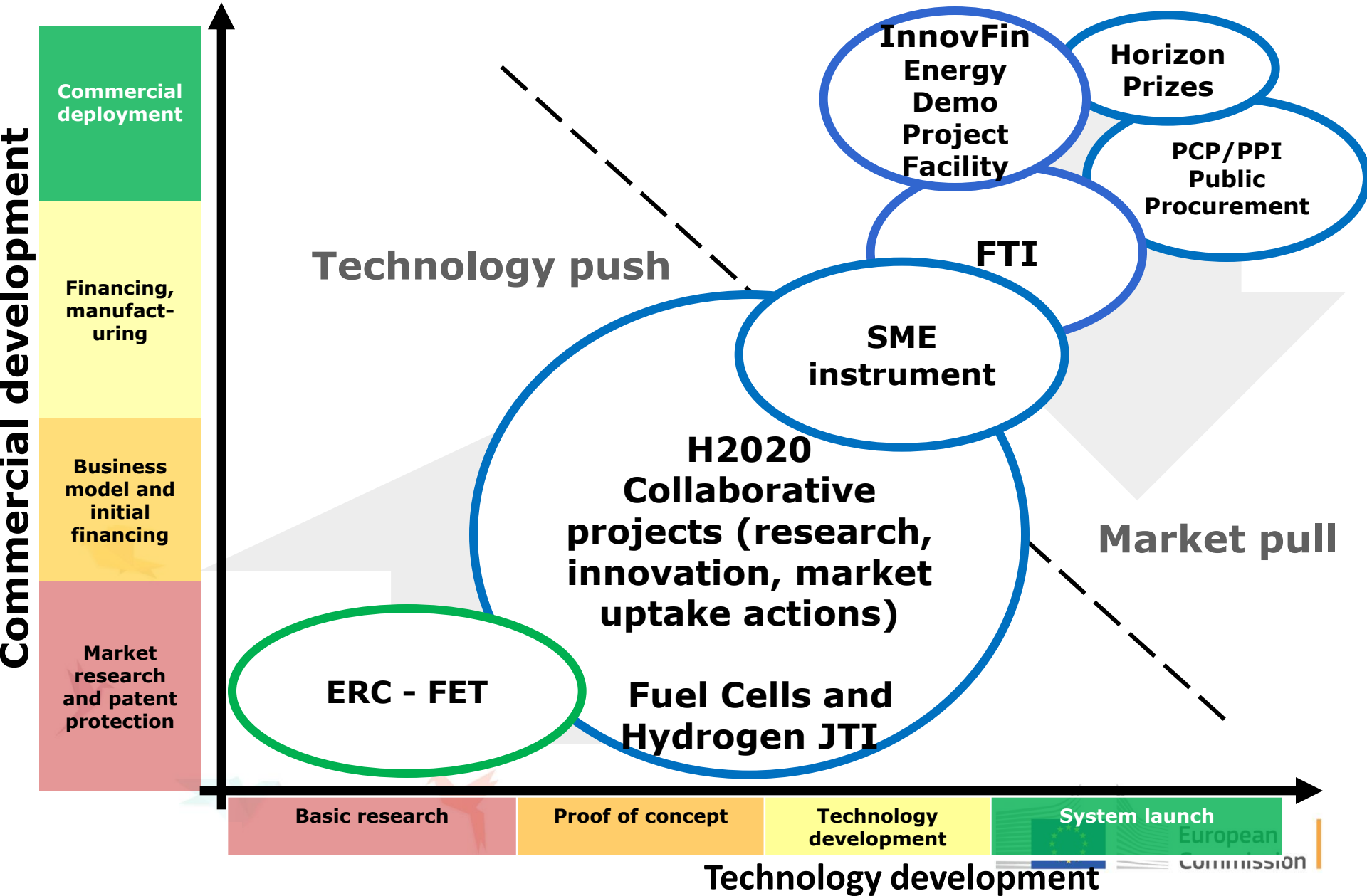
European Commission

Overview of Energy Challenge activities

Energy Challenge

1766 M€

Calls for proposals LC-SC3-2018-2019-2020

- Energy efficiency
- Global leadership in renewables
- Smart and clean energy for consumers
- Smart citizen-centred energy system
- Smart Cities and Communities
- Enabling near-zero CO_2 emissions from fossil fuel power plants and carbon intensive industries
- Joint Actions
- Cross-cutting issues

347 M€

Other Actions (e.g. procurements, Grant to identified beneficiaries)

91 M€

Financial contribution to other calls for proposals

European Commission

Cross-cutting issues

Fuel Cells and Hydrogen

- Activities specifically targeting Fuel Cells and Hydrogen are **not** supported in the Energy Challenge work programme 2018-2020, but through calls for proposals of the **Fuel Cells and Hydrogen JU** (http://www.fch.europa.eu/)

- **But**, for topics included under the areas "Energy Efficiency", "Smart citizen-centred energy" and "Smart Cities and Communities", **system costs related to the integration of mature hydrogen based technologies for the purpose of integrated demonstration in a topic are eligible**.

Open research data

- Grant beneficiaries will engage in **research data sharing by default**

- Participants **may however opt out** of these arrangements, both before and after the signature of the grant agreement.

Toolbox

Commercial development (vertical axis)

| Commercial deployment |
| Financing, manufact-uring |
| Business model and initial financing |
| Market research and patent protection |

Technology push

InnovFin Energy Demo Project Facility

Horizon Prizes

PCP/PPI Public Procurement

FTI

SME instrument

H2020 Collaborative projects (research, innovation, market uptake actions)

Market pull

ERC - FET

Fuel Cells and Hydrogen JTI

| Basic research | Proof of concept | Technology development | System launch |

Technology development

European Commission

Contribution to EU policies and cross-cutting issues

- **Sustainable development**: all topics

- **Climate Actions**: all topics

- **International cooperation**, including **Mission Innovation**: RES-1, RES-3, RES-4, RES-5, RES-25, ES-3, NZE-2, NZE-5, JA-4, JA-5

- **Social Sciences and Humanities** (SSH): EC-1, EC-2, EE-2, EE-4, EE-8, EE-16, EE-14, RES-1, RES-4, RES-11, RES-22, RES-28, ES-3, ES-4, ES-7, NZE-1, NZE-2, NZE-3, NZE-4, NZE-5, CC-1, CC-2, CC-4, CC-5, CC-6, SCC-1

- **Digital Agenda**: EC-1, EE-13, ES-3, ES-4, ES-5, ES-6, RES-17, SCC-1, CC-5

- **Contractual PPPs**:
  - **Energy-efficient Buildings:** EE-1, EE-4, EE-5, RES-4, RES-5
  - **SPIRE:** EE-6, RES-7

- **Blue Growth**: RES-1, RES-11, RES-13, RES-14, JA-3

- **Responsible Research & Innovation (RRI)**: EC-1, EE-4, EE-5, EE-9, EE-15, EE-16, RES-28, RES-8, ES-3, ES-5, ES-8, NZE-1, NZE-2, NZE-3, NZE-5

- **Open Innovation**: EC-1, EE-3, EE-4, EE-5, EE-6, EE-9, EE-15, RES-2, RES-4, RES-6, RES-8, RES-13, RES-28, ES-3, ES-5, ES-8, NZE-1, NZE-2, NZE-3, NZE-5, SCC-1

- **Open Science**: CC-3

Calls for proposals LC-SC3-2018-2019-2020

Energy efficiency	Global leadership in renewables	Smart and clean energy for consumers	Smart citizen-centred energy system	Smart Cities and Communities	Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries	Joint Actions	Cross-cutting issues
192 M€*	445 M€*	20 M€*	176 M€*	110 M€*	88 M€*	52 M€*	42 M€*

* Budget figures for 2018-2019 only (2020 to be confirmed at a later stage)

European Commission

Energy Efficiency

	Buildings	Consumers & Services	Industry	Financing Energy Efficiency	Public Authorities & Policy Support	Digitisation
Innovation Actions EU Support: 70% 3 to 30 M€ / project	EE1/*EE1* *EE4* *EE5*		EE6			DT-ICT-10
Coordination & Support Actions** EU support: 100% 0.5 to 2 M€ / project	EE2/*EE2* *EE3* EE5	EC1/*EC1* EC2/*EC2* EE13/*EE13*	*EE6* EE8/*EE8*	EE2/*EE2** EE9/*EE9* EE10/*EE10* EE11/*EE11* EE13/*EE13** *EE17*	EE16/*EE16* EE15 *EE17**	
Research & Innovation Actions EU Support: 100% 1 to 2 M€ / project					EE14/*EE14*	

Standard text: 2018 topics
Italic text: 2019 topics

* The topic also addresses this thematic area where indicated
** Mostly minimum 3 beneficiaries (check the Work Programme 2018-2020)

European Commission

Energy Efficiency

Deadlines

2018 topics

Opening:
25 January
2018

EC-1	EE-6	EE-13
EC-2	EE-8	EE-14
EE-1	EE-9	EE-15
EE-2	EE-10	EE-16
EE-5	EE-11	

Deadline:
4 September
2018

2019 topics

Opening:
24 January
2019

EC-1	EE-4	EE-10
EC-2	EE-5	EE-11
EE-1	EE-6	EE-13
EE-2	EE-8	EE-14
EE-3	EE-9	EE-16
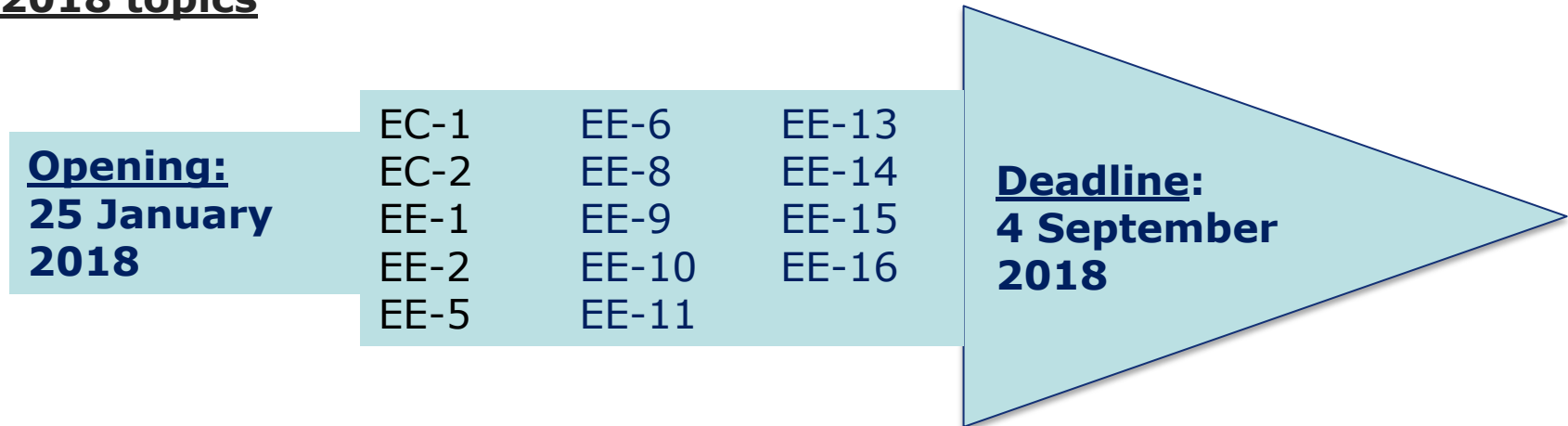
Deadline:
3 September
2019
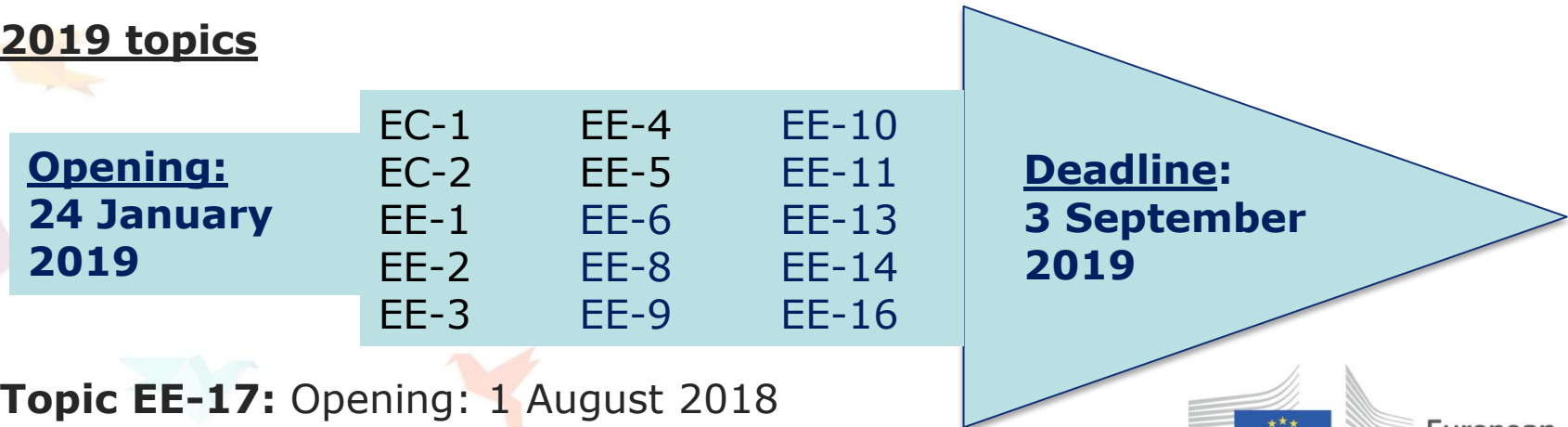
Topic EE-17: Opening: 1 August 2018
Deadline: 5 February 2019

European Commission

Global leadership in renewables

	2018	**2019**	**2020**
Next renewable energy solutions	RES-2	RES-1	RES-3
Renewable energy solutions at consumer scale	*Energy generation at building scale* RES-4, RES-5, RES-6	*Renewable energy solutions at distrcit level and for industrial processes* RES-7, RES-8	RES-9, RES-10
Renewable energy solutions for energy system implementation	*Reduce costs of key technologies for renewable energy conversion* RES-11, RES-12, RES-13	*Optimize processes and manufacturing* RES-14, RES-15 *Provide flexibility to the energy system* RES-16, RES-17	RES-18, RES-19, RES-20
Renewable fuels for transport	*Drop-in fuel solutions for fossil-fuel substitution* RES-21, RES-22	*Upscaling renewable fuels production* RES-23 RES-24	RES-25, RES-26, RES-27
Market Uptake Support	RES-28	RES-28	RES-28

European Commission

Global leadership in renewables

Technology area	Research activities (RIA)	Innovation activities (IA)
Solar energy (PV, CSP)	RES-1-2019, RES-2-2018, RES-4-2018, RES-7-2019, RES-11-2018, RES-14-2019	RES-6-2018, RES-8-2019, RES-13-2018, RES-15-2019, RES-17-2019
Wind energy	RES-1-2019, RES-4-2018, RES-11-2018	RES-13-2018
Ocean energy	RES-1-2019, RES-11-2018, RES-14-2019	
Biofuels / alternative fuels	RES-1-2019, RES-2-2018, RES-16-2019, RES-21-2018, RES-23-2019	RES-17-2019, RES-22-2018, RES-24-2019
Geothermal energy	RES-1-2019, RES-4-2018, RES-11-2018, RES-14-2019	RES-8-2019, RES-13-2018
Heating / cooling, CHP	RES-1-2019, RES-4-2018, RES-11-2018	RES-5-2018, RES-8-2019, RES-12-2018
Hydro energy	RES-1-2019, RES-11-2018, RES-16-2019,	RES-17-2019
Virtual Power Plant	RES-16-2019	

- Topics for 2018 in black font; for 2019 in purple font; topics for 2020 not included (added as of mid-2018)
- Market-uptake activities (CSA, RES-28) cover all areas

European Commission

Renewable energy

Deadlines – 2018 topics

Opening	Topics	Deadline
31 October 2017	RES-5 RES-6 RES-12 RES13 RES-21 RES-28	13 February 2018
	RES-4 RES-11	1st stage: 31 January 2018 2nd stage: 23 August 2018
5 December 2017	RES-22	5 April 2018
	RES-2	19 April 2018

European Commission

Renewable energy

Deadlines – 2019 topics

Opening	Topics	Deadline
1 August 2018	RES-1 RES-14	1st stage: 16 October 2018 2nd stage: 25 April 2019
5 September 2018	RES-8 RES-15 RES-17 RES-24 RES-28	11 December 2018
7 May 2019	RES-7 RES-16 RES-23	27 August 2019

European Commission

Smart and clean energy for consumers

EC-1-2018-2019: The role of consumers in changing the market through informed decision and collective actions

- **2018**: develop activities informing and motivating consumers to **change old and inefficient installed appliances** with the highest energy saving potential to more efficient and clean energy heating and/or cooling solutions; consider financial and other aspects; address 'rebound effect'; involve all relevant stakeholder
- **2019**: set up and/or support consumer cooperatives/collective purchase groups, and/or other **consumer-driven collective actions** to **increase energy efficiency** and/or optimise energy management within the community; address regulatory barriers and contractual conditions; address split incentives

EC-2-2018-2019: Mitigating household energy poverty

- Contribute to actively alleviating energy poverty and developing a better understanding of the types and needs of energy poor households and how to identify them
- Facilitate **behaviour change** and implementation of **low-cost energy efficiency measures** tailored for energy poor households
- Support the set-up of financial and non-financial **support schemes** for energy efficiency and/or small-scale renewable energy **investments** for energy poor households
- Develop, test and disseminate **innovative schemes for energy efficiency/RES investments** established by utilities or other obligated parties under Article 7

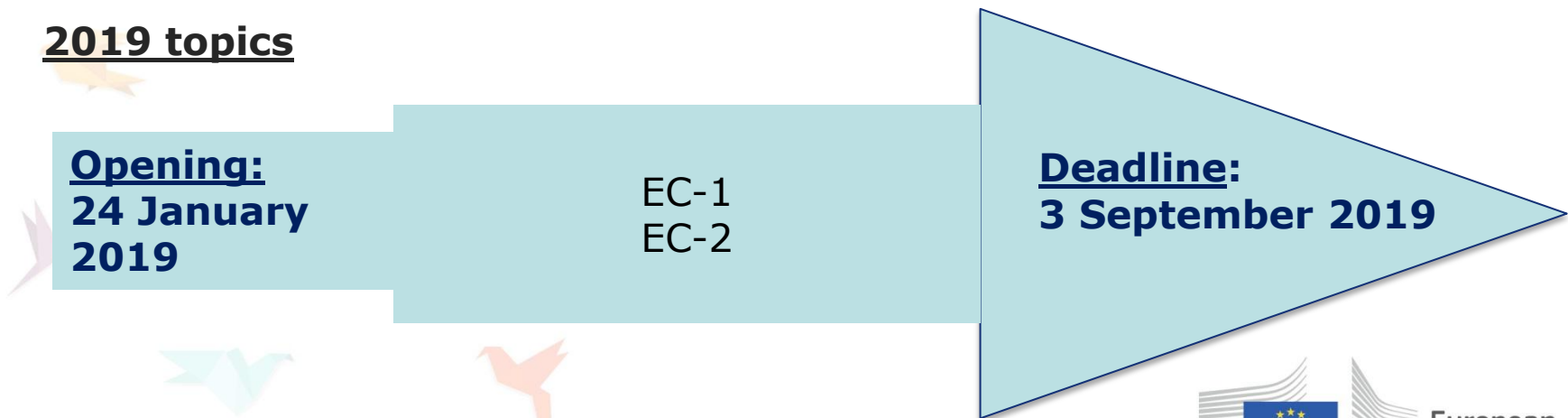*Topic EC-3 will be opened in 2020.*

European Commission

Smart Citizen-Centred Energy System

Deadlines

2018 topics

Opening:
25 January
2018

EC-1
EC-2

Deadline:
4 September 2018

2019 topics

Opening:
24 January
2019

EC-1
EC-2

Deadline:
3 September 2019

European Commission
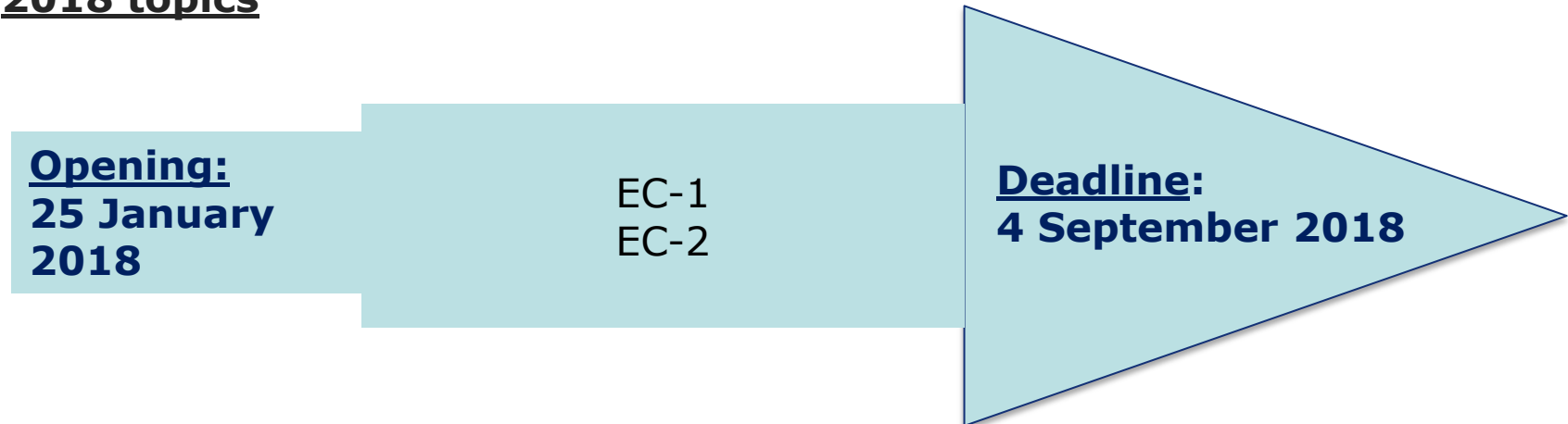
Smart Citizen-Centred Energy System

Smart citizen-centred energy system

Grid

- **ES-1-2019:** Flexibility and retail market options for the distribution grid (IA)
- **ES-2-2019:** Solutions for increased regional cross-border cooperation in the transmission grid (IA)
- **ES-5-2018-2020:** TSO – DSO – Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation (IA)
- **ES-6-2019:** Research on advanced tools and technological development (RIA)
- **ES-7-2018:** Pan-European Forum for R&I on Smart Grids, Flexibility and Local Energy Networks (CSA)

Local systems & island

- **LC-SC3-ES-3-2018-2020:** Integrated local energy systems (Energy islands) (IA)
- **LC-SC3-ES-4-2018-2020:** Decarbonising energy systems of geographical Islands (IA)
- **LC-SC3-ES-8-2019:** European Islands Facility - Unlock financing for energy transitions and supporting islands to develop investment concepts (CSA)

European Commission

Smart Citizen-Centred Energy System

Deadlines

2018 topics

Opening:
5 December 2017

ES-3
ES-4

ES-5
ES-7

Deadline:
5 April 2018

2019 topics

Opening:
5 September 2018

ES-1
ES-2

ES-6
ES-8

Deadline:
5 February 2019

European Commission
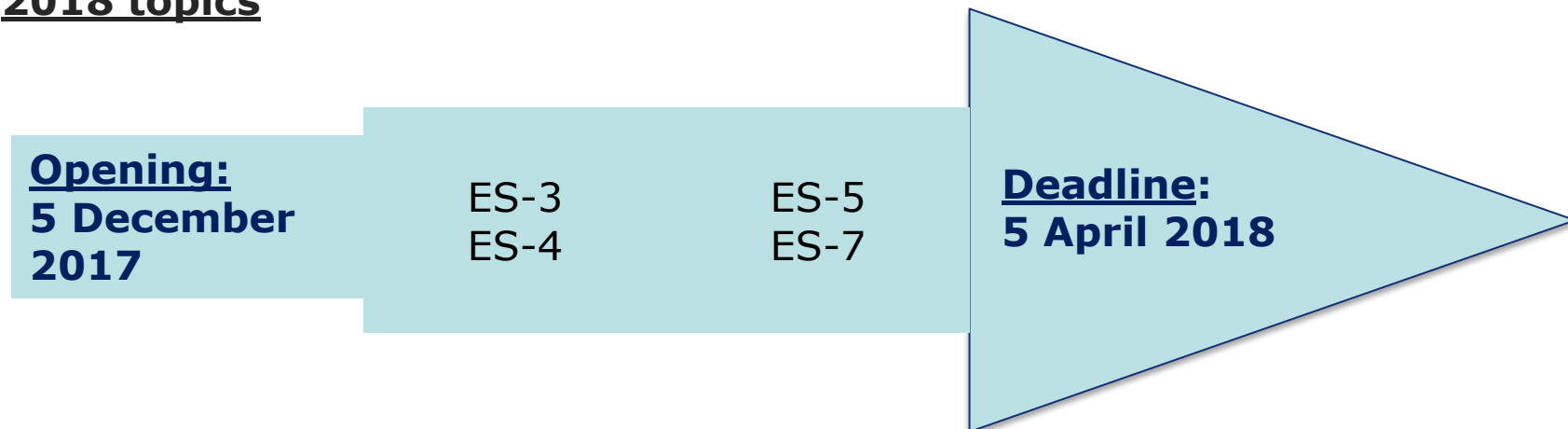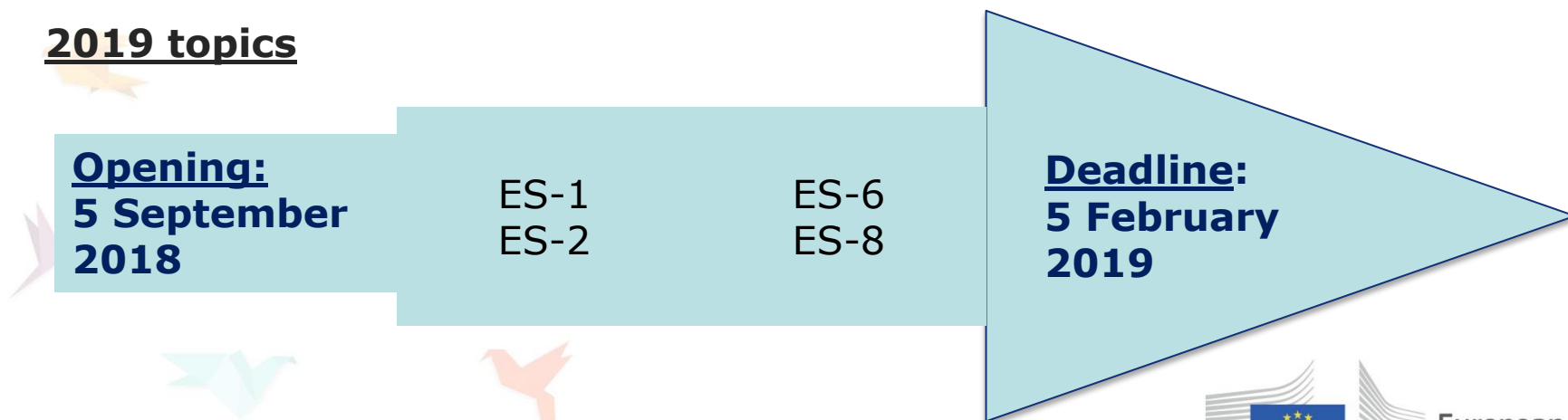
Smart Cities and Communities

2014

GROWSMARTER
Köln, Barcelona, Stockholm
& Graz, Cork, Valletta, Porto, Suceava

REMOURBAN
Valladolid, Tepebasi, Nottingham
& Seraing, Miskolc

TRIANGULUM
Eindhoven, Stavanger, Manchester
& Prague, Leipzig, Sabadell

2015

REPLICATE
San Sebastián/Donostia, Firenze, Bristol
& Lausanne, Essen, Nilufer

SHAR-LLM
Milano, Lisboa,London (Greenwich)
& Burgas, Bordeaux, Warsaw

SMARTENCITY
Sønderborg, Tartu, Vitoria/Gasteiz
& Asenovgrad, Lecce

SMARTER TOGETHER
Wien, München, Lyon
& Sofia, Santiago de Compostela, Venezia, Yokohama,
Kiev

2016

mySMARTlife
Hamburg, Helsinki, Nantes
& Varna, Palencia, Rijeka, Bydgoszcz

RUGGEDISED
Rotterdam, Ůmea, Glasgow
& Brno, Parma, Gdansk

2017

STARDUST
Pamplona, Tampere, Trento
& Cluj-Napoca, Derry, Kozani, Litoměřice

IRIS
Utrecht, Göteborg, Nice Côte d'Azur
& Vaasa, Alexandroupolis, Santa Cruz de Tenerife, Focsani

MatchUP
Valencia, Dresden, Antalya
& Ostend, Herzliya, Skopje, Kerava

➤ Collaboration in the
Lighthouse Collaboration Network - specific task groups on common topics (e.g. replication, business models, dissemination)
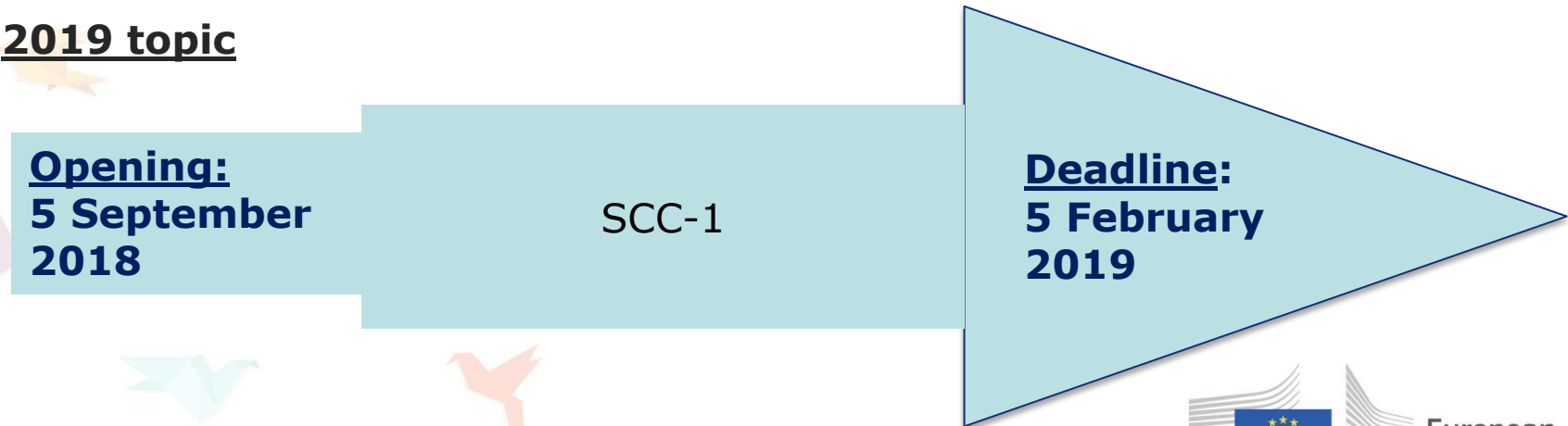

European Commission

Smart Cities and Communities

Deadlines

2018 topic

Opening:
5 December 2017

SCC-1

Deadline:
5 April 2018

2019 topic

Opening:
5 September 2018

SCC-1

Deadline:
5 February 2019

European Commission
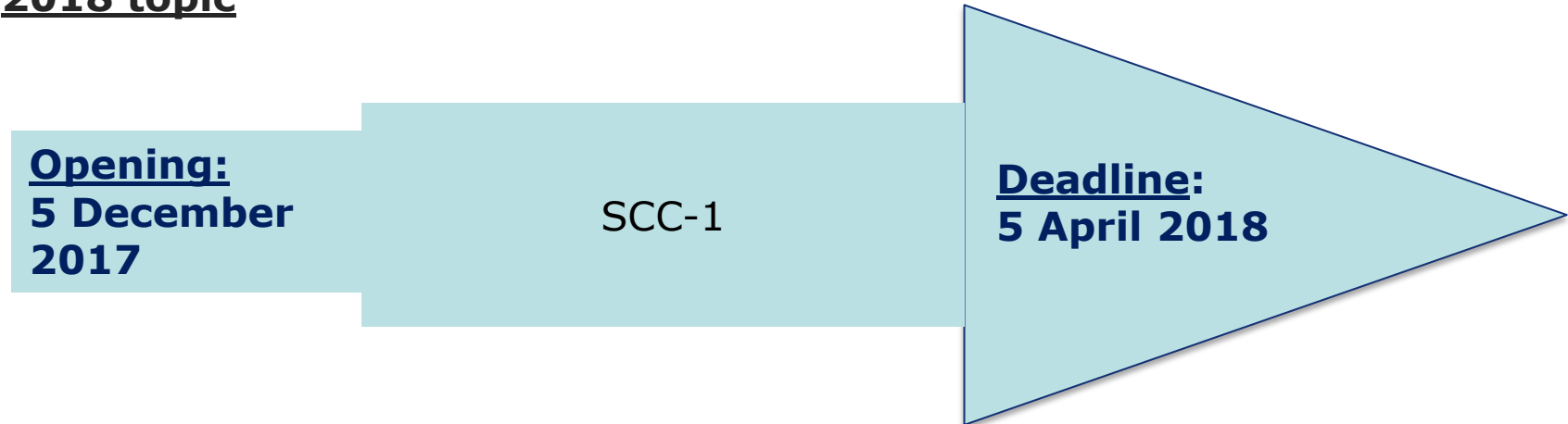
Enabling near-zero CO2 emissions from fossil fuel

NZE-1: Pilots for advanced capture technologies (2018)

- *RIA; Deadline: 6.9.2018; indicative budget: EUR 20 million*

NZE-2: Pilots on CO2 conversion to fuels (2018)

- *RIA; Deadline: 6.9.2018; indicative budget: EUR 12 million*

NZE-3: Strategic planning for CCUS deployment (2018)

- *CSA; Deadline: 6.9.2018; indicative budget: EUR 2 million*

NZE-4: Integrated solutions for flexible power plants using power-to-X and energy storage (2019)

- *IA; Deadline: 27.8.2019; indicative budget: EUR 20 million*

NZE-5: CCS in industry (2019, 2020)

- *IA; Deadline (2019): 27.8.2019; indicative budget: EUR 33 million*

NZE-6: Geological storage pilots in different settings (2020)

European Commission

Enabling near-zero CO2 emissions from fossil fuel

Deadlines

2018 topics

**Opening:
15 May 2018**

NZE-1
NZE-2
NZE-3

**Deadline:
6 September
2018**

2019 topics

**Opening:
7 May 2019**

NZE-4
NZE-5

**Deadline:
27 August
2019**

European
Commission

Joint Actions - overview

Support to the SET-Plan

- JA-1-2018 (ERA-NETs)
- JA-2-2018 (CSA for Implementation Plans)

Pre-commercial procurement for wave energy

- JA-3-2019

EU-Africa cooperation on renewables

- JA-4-2018 (CSA for preparing a European Joint Programme)
- JA-5-2019 (European Joint Programme)

European Commission

Joint Actions

Deadlines

2018 topics

Opening:
31 October 2017   JA-4   **Deadline:**
                                           31 January
                                           2018

Opening: JA-1   **Deadline:**
15 May 2018   JA-2   **11 September**
                                           2018

2019 topics

Opening: JA-3   **Deadline:**
14 November   JA-5   **27 August**
2018   **2019**

European Commission

Cross-cutting issues - overview

EUR 10 million (2018, 2019, RIA) — Socio-economic research (CC-1)

EUR 2 million (2018, CSA) — Coal-intensive regions (CC-6)

EUR 5 million (2018, RIA) — Energy modelling (CC-2)

EUR 4 million (2018, CSA) — Education capacities (CC-5)

EUR 2 million (2019, CSA) — Open research databases (CC-3)

EUR 8.5 million (2018, CSA) — Stakeholder support (CC-4)

Cross-cutting issues

European Commission
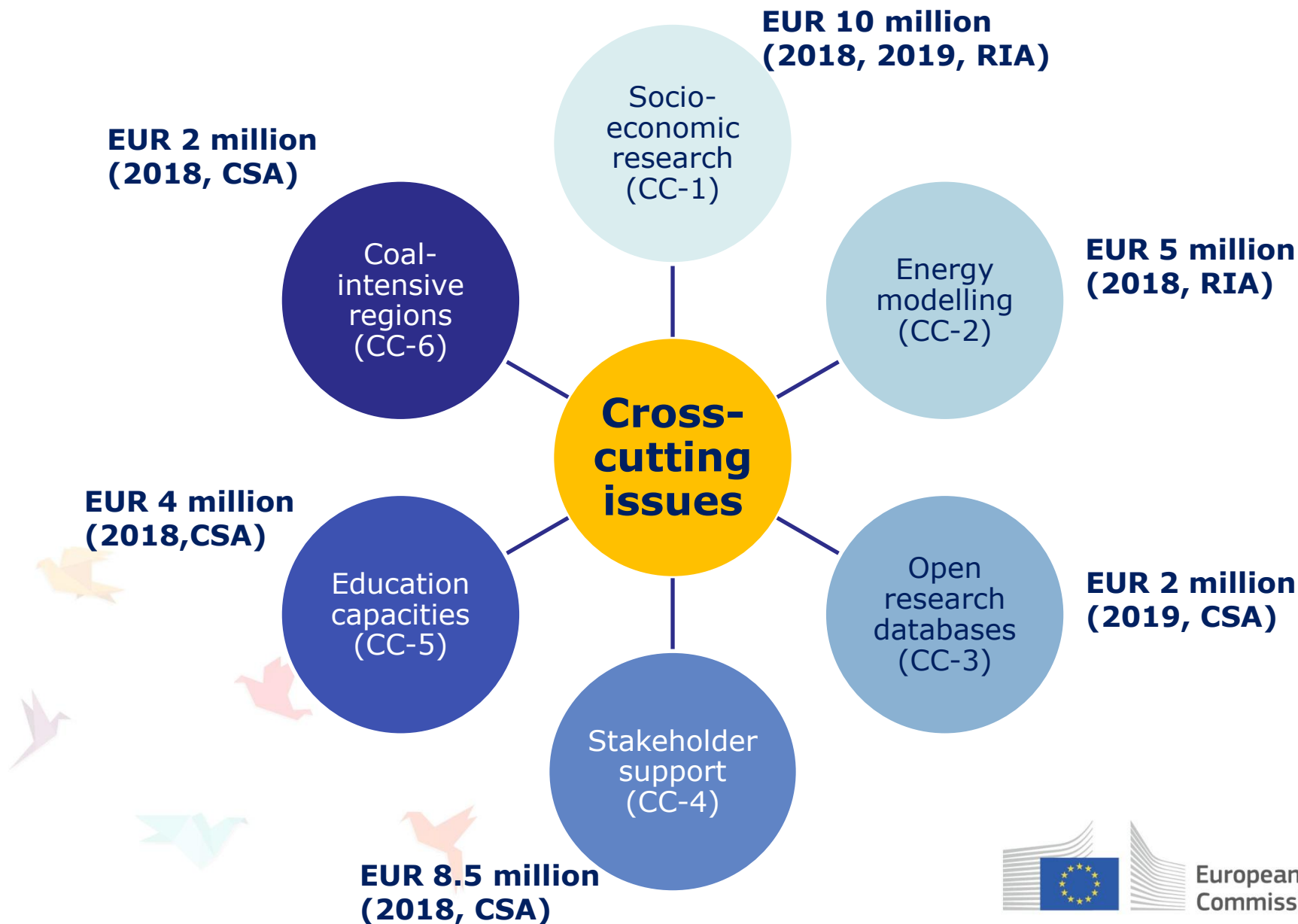
Cross-cutting issues

2018 topics

Opening	Topics	Deadline
5 December 2017	CC-4	19 April 2018
15 May 2018	CC-1 CC-2 CC-5 CC-6	6 September 2018

2019 topics

Opening	Topics	Deadline
14 November 2018	CC-3	27 August 2019
7 May 2019	CC-1	

Statistical data
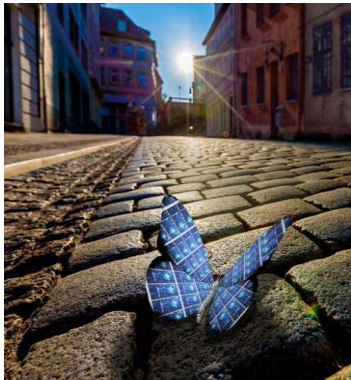
Data for the 2014-2017 energy calls

	Research project (RIA)	Demonstration project (IA)	Coordination & Support Action (CSA)	Total
Success rate	14.5%	13%	16.5%	15%
Average number of participants per project	10.8	15.8	9.6	11.4
Average EU contribution per project	4.6 M€	11 M€	1.7 M€	4.7 M€

N.B.: Values vary significantly between topics

➤ **Projects must be appropriate for addressing the topic**
➤ **Pay attention to admission & eligibility criteria**

European Commission

Running energy prizes - overview

	Title	Budget	Submission by
	CO2 reuse in innovative products EC-CO2REUSE-PRIZE@ec.europa.eu	€1.5 EUR million	3 April 2019
	Low carbon hospital Combined Heat and Power installation in a hospital using 100% renewable energy sources EC-LOWCARBON-PRIZE@ec.europa.eu	€ 1.0 EUR million	3 April 2019
	Photovoltaics meets history Integrated Photovoltaic Energy System in a European protected historic urban district EC-PHOTOVOLTAICS-PRIZE@ec.europa.eu	€ 0.75 EUR million	26 September 2018

European Commission

New prizes

European Innovation Council (EIC)

EIC Horizon Prizes call for breakthrough solutions from innovators, aiming to demonstrate the feasibility or potential of particular technologies and promote uptake.

> **Innovative Batteries for eVehicles (€ 10 M)**

> **Fuel from the Sun: Artificial Photosynthesis (€ 5 M)**

> **Blockchain for Social Good (€ 5 M)**
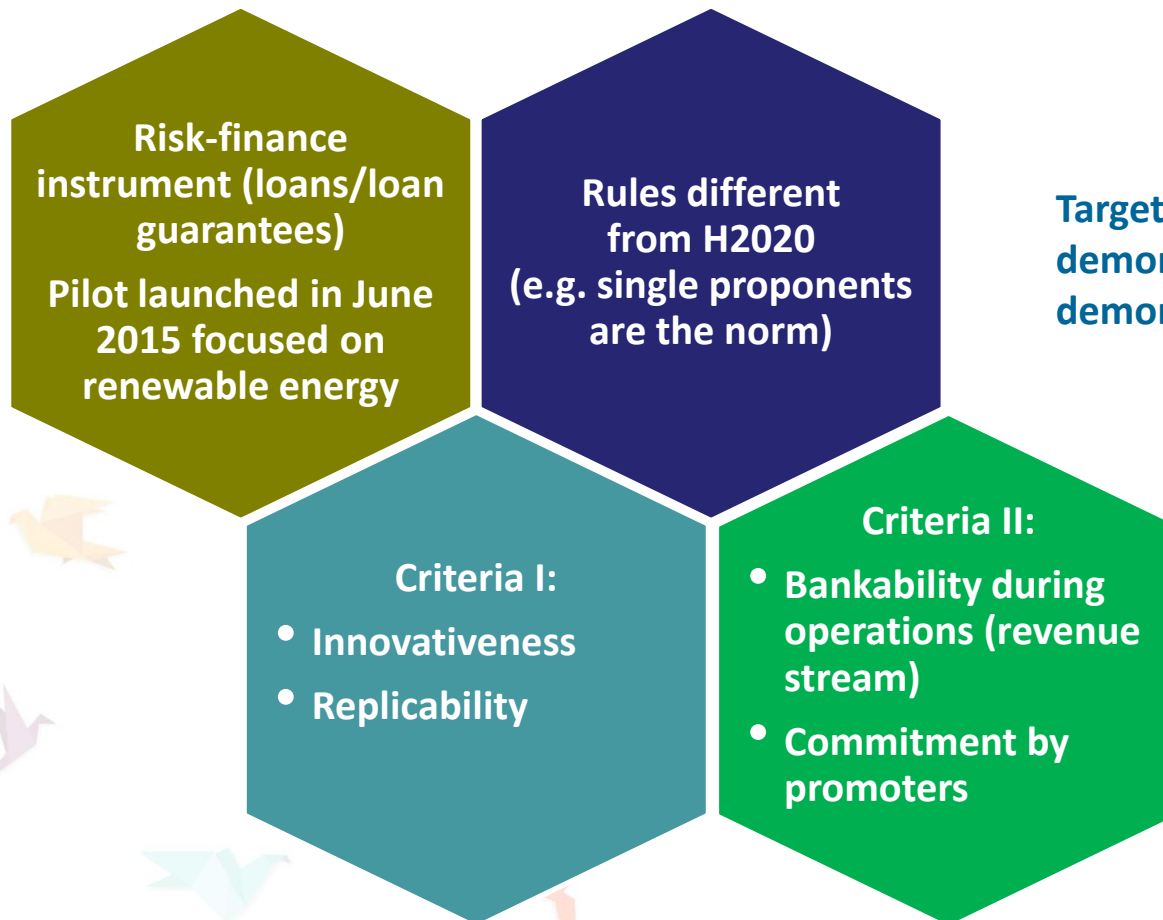
2 Energy prizes to be launched by the end of 2017

EIC Horizon Prizes set an ambitious goal, without saying how that goal should be achieved or who should achieve it.

The prize is awarded to whoever can most effectively meet a defined challenge.
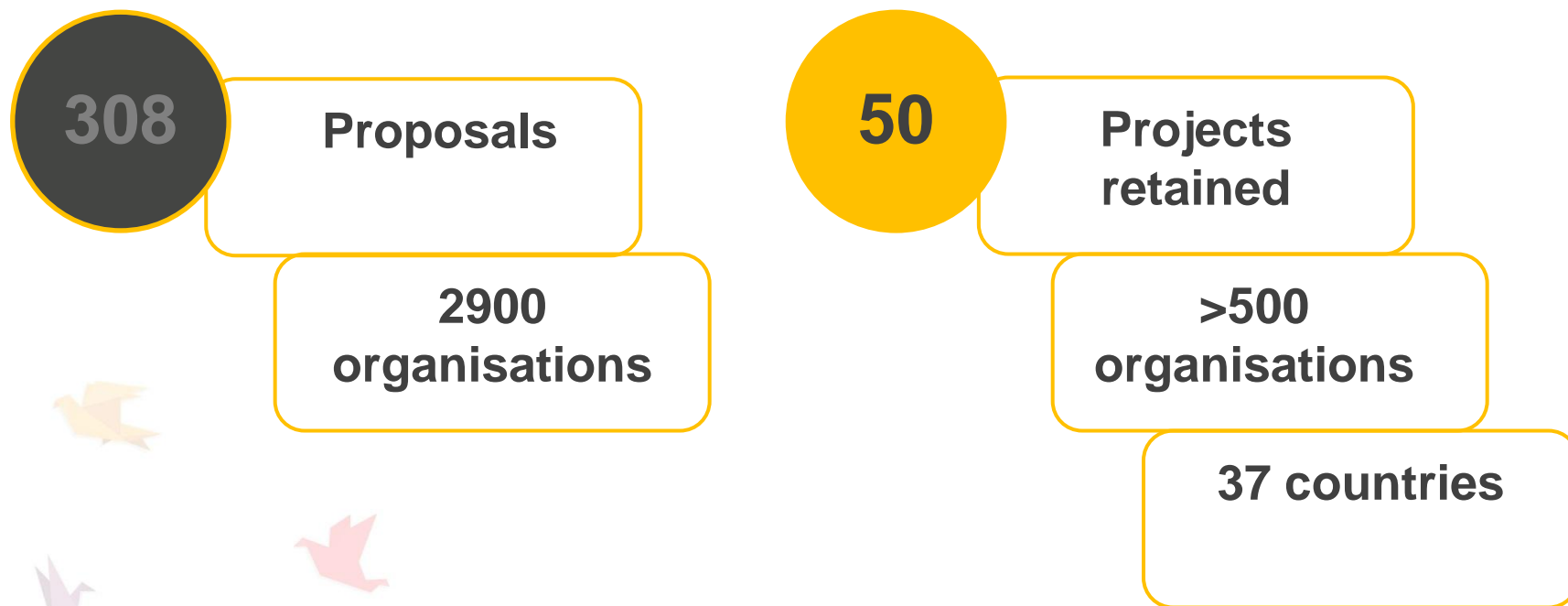
European Commission

InnovFin EDP

What? EDP: Basic features

InnovFin
Energy Demo Projects

Risk-finance instrument (loans/loan guarantees)

Pilot launched in June 2015 focused on renewable energy

Rules different from H2020 (e.g. single proponents are the norm)

Criteria I:
- **Innovativeness**
- **Replicability**

Criteria II:
- **Bankability during operations (revenue stream)**
- **Commitment by promoters**

Targets innovative First-of-a-Kind demonstration projects ready to be demonstrated at commercial scale

Designed for a higher level of risk than any other EU financial instrument

European Investment Bank *The EU bank*

EUROPEAN INVESTMENT FUND

A typical Call for Proposals in numbers

308 Proposals

2900 organisations

50 Projects retained

>500 organisations

37 countries

*Example of 2017 Energy Efficiency Calls - Preliminary data on number of retained projects subject to successful grant preparation

European Commission

GREECE

Total number of participants, total EU financial contribution € million	1.861 participants receiving € 571,58 m in H2020
Total number of SME participants, total EC financial contribution € million	405 SMEs receiving € 107,31 m in H2020
Number of ERC Principal Investigators, total EC financial contribution € million	17 ERC grantees receiving € 18,26 m in H2020
Number of Marie Skłodowska-Curie Actions Participations, total EC financial contribution € million	231 MSCA Fellows receiving € 46,54 m in H2020
Number of applicants	15.754 (3,63 % of EU-28)
Success rate (EU-28 = 13,5 %)	12,6 %
Rank in number of participants signed contracts (EU-28)	9
Rank in budget share (EU-28)	12
Top collaborative links	1. ES – Spain (2.868) 2. DE – Germany (2.850) 3. IT – Italy (2.842) 4. UK – United Kingdom (2.547) 5. FR – France (1.912)
Total population & EU 28 population share (source: Eurostat)	11.062.508 (2.2% of EU-28)

CYPRUS

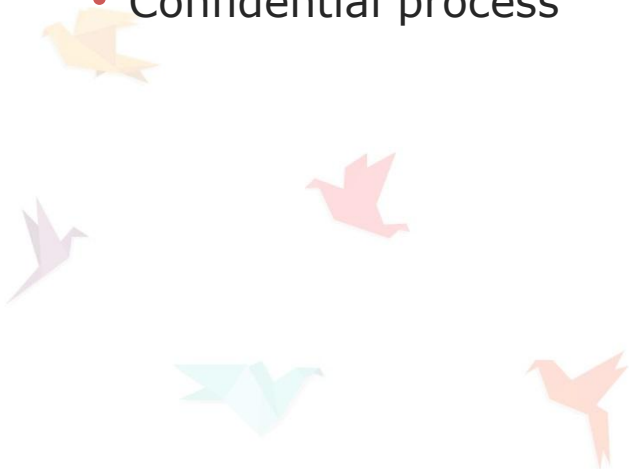|	
Total number of participants, total EU financial contribution € million	325 participants receiving € 88,18 m in H2020
Total number of SME participants, total EC financial contribution € million	96 SMEs receiving € 27,08 m in H2020
Number of ERC Principal Investigators, total EC financial contribution € million	6 ERC grantees receiving € 2,45 m in H2020
Number of Marie Skłodowska-Curie Actions Participations, total EC financial contribution € million	48 MSCA receiving € 10,93 m in H2020
Number of applicants	2.718 (0,63 of EU-28)
Success rate (EU-28 = 13,5%)	11,8%
Rank in number of participants signed contracts (EU-28)	20
Rank in budget share (EU-28)	20
Top collaborative links	1. IT – Italy (352) 2. DE – Germany (348) 3. UK – United Kingdom (341) 4. ES – Spain (340) 5. EL – Greece (289)
Total population & EU 28 population share (source: Eurostat)	865.878 (0.2% of EU-28)

European Commission

Submitting a proposal

5 steps of the selection process

5 Signing a grant agreement

4 Decision on funding

3 Evaluation by external experts

2 Admissibility & eligibility check

1 Submission of proposals
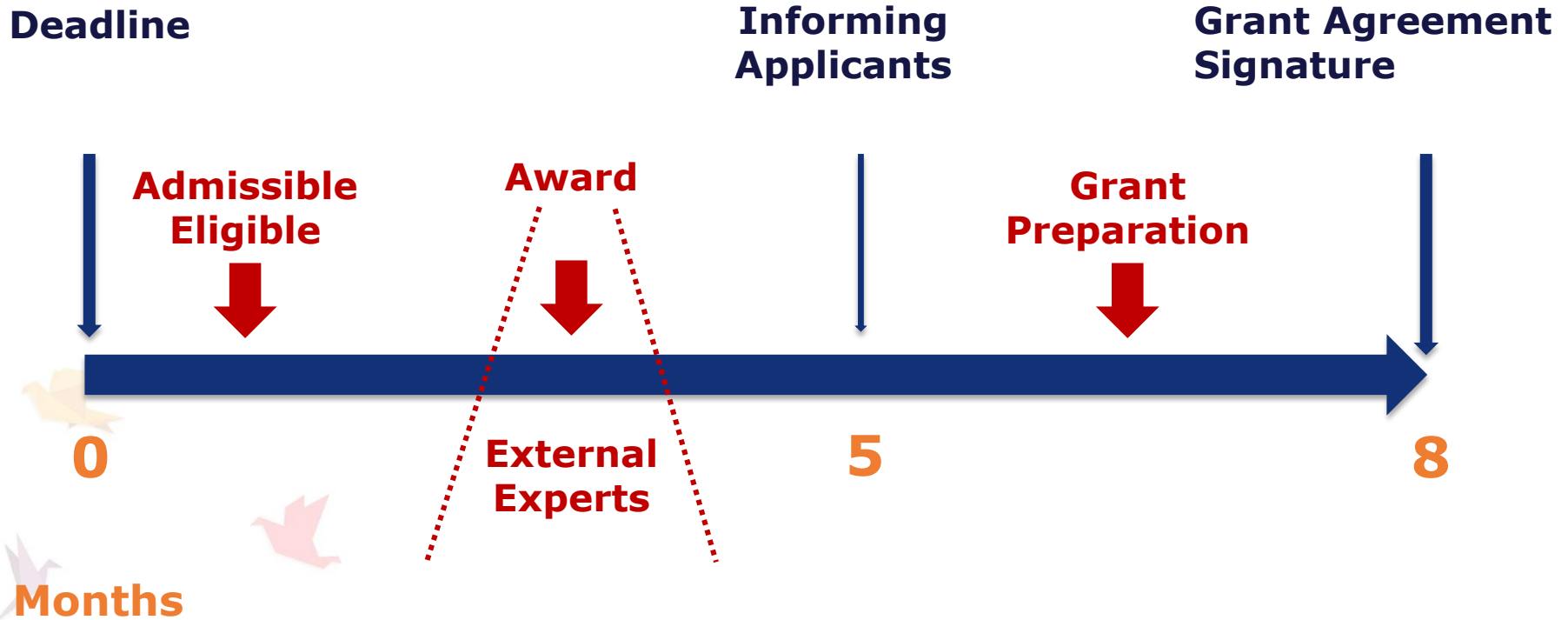
Call is open

European Commission

Evaluation Principles

- Fair and equal treatment of all proposers
- Based on the criteria announced in the Call
- Independent external experts
- Avoidance of conflicts of interest
- Confidential process

European Commission

H2020 evaluation process

Deadline

Informing Applicants

Grant Agreement Signature

Admissible Eligible

Award

Grant Preparation

0

External Experts

5

8

Months

How do we brief the experts?

- Experts are briefed to understand the Call text, the evaluation criteria - and their mandate

- Only the best proposals should be selected – not requiring any negotiations

- Only evaluate the proposal, no other source

- Clear drive towards tangible impact (Topic in Work Programme, application form)

- Evaluate individually 7-9 proposals, half day per proposal

European Commission
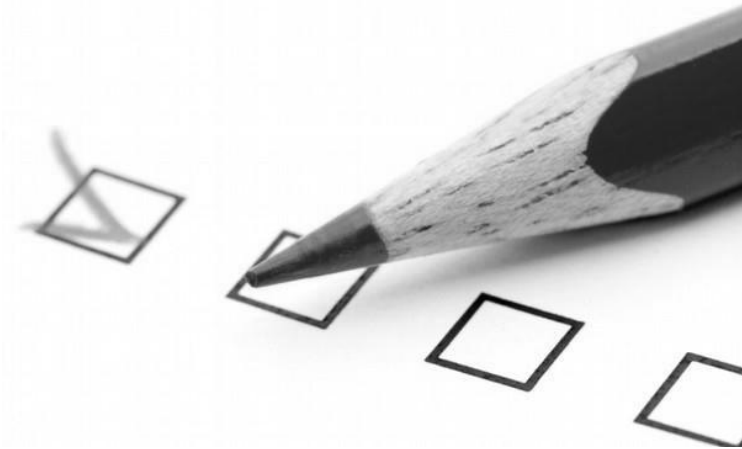
Evaluation – Award Criteria

- **Excellence**

- **Impact**

- **Quality & efficiency of implementation**

- **Detailed aspects** to be taken account of for each of the main criteria

- **Self-evaluation** form available

- **No negotiation** takes place → only the very best are retained for funding

European Commission

Know the structure of your proposal

Section 1-3 'Technical Annex'

Your Proposal description

- **Excellence**

- **Impact**

- **Implementation**

Section 4-5

- **Description of your partnership & CV's**

- **Ethics**

Online Forms

- **Admin. data**

Optional Annexes

- **Where relevant**

European Commission

Ask some questions, make some choices ...

Ask yourself if you have:

- a clear project **objective**?

- a clear **understanding** of the current (research or market) situation and your starting point

- a clear (set of) **target group**(s)?

- a clear **set of partners** – are they *the* voice of the market?

- a clear path to **make a difference** – what impact do you want to have?

Your consortium

- **Be consistent** – remain relevant to your objective & target group

- **Be adaptable** - be ready to renounce a country if you do not secure the right partner

- **Involve partners in the preparation** – avoid surprises after submission

- **Keep consortium motivated** - agree a working method for the proposal phase, make a plan for their contributions

- **Do <u>not</u> cover the EU map artificially**

Create the budget

- Define your budget 'bottom-up'

- Wait until the tasks are sufficiently specified and agreed – then design define the budget

- Check consistency regularly while advancing on with your Work Plan - share of resources, appropriate levels between partners, appropriate weight of person-months between major work steps

Translate person-months into EUR

Estimate efforts needed (person - months of work)

Define tasks
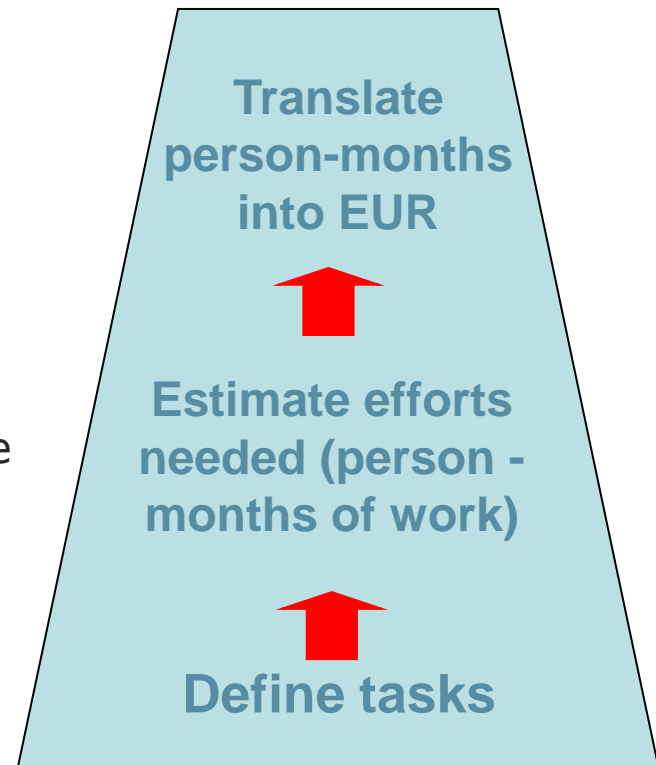
Last check: consistency / language

- Ask an 'informed outsider' for critical reading and feedback

- Check consistency of your description of activities and budget

- If you have the chance, have a native speaker check the English

Frequent mishaps – Eligibility / Admissibility

- **Call deadline is unchangeable:** use all advantages of the electronic submission system to meet the deadline!

- **Completeness:** one section missing makes your proposal inadmissible

- **Partnerships:** remember the principle of 3 participants from Member States or Associated Countries (always check the Work Programme 2018/20 for exceptions)

- **Page limit:** 50 pages for Coordination SA / 70 pages for IA+RIA: applied strictly during evaluation

European Commission

Frequent mishaps – Excellence

- Evaluation feedback: **Proposal lacks an explanation of the concept / Added value and innovation are insufficiently demonstrated**

☞ **What to do in your proposal:**

- Focus and show how you innovate

- Explain the overall concept underpinning the project not only from the perspective of the Coordinator… input from your partners is essential

- Don't assume that the evaluators know your specific context

- Be clear - you win by explaining!

Frequent mishaps – Impact

- Evaluation feedback: **Ambition is not quantified / not realistic / not supported by action**

☞ **What to do in your proposal:**

- Quantify! Describe in a concise, yet robust, manner your baseline, benchmarks and assumptions

- Keep your 'challenge' in mind

- Plan activities to monitor your performance

- Highlight the link between the actual activities in your work plan and the impact that they will lead to

Frequent mishaps – Quality of implementation

- **Evaluation feedback**: The work plan is not sufficiently detailed / Budgets are not justified / Budgets seem top-down

What to do in your proposal:

- Make sure the work description is sufficiently detailed, clear and consistent

- Invest time into this: this is the opportunity to convince evaluators that you can materialise your vision

- Invest time into your resource planning –bottom up

Perfect proposals ... ?

We don't expect perfection, but:

- We look forward to innovative, well implemented proposals

- Submitted by competent, motivated and inspired project teams

- Aiming to deliver and make a 'change'

European Commission

Resources for help

National Contact Points (NCPs)

NCPs are in the front line for providing specialist advice and
on-the-ground guidance to potential applicants

Main services:

- Guidance on choosing relevant H2020 topics and types of action;
- Advice on administrative procedures and contractual issues;
- Training and assistance on proposal writing;
- Assistance in partner search.

Find your national NCP:
http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html

Network of Energy NCPs: www.C-energy2020.eu

European Commission

Resources for help

More Information

Participants Portal:
http://ec.europa.eu/research/participants/portal/desktop/en/home.html

Research Enquiry Service:
http://ec.europa.eu/research/index.cfm?pg=enquiries

Presentations of the Horizon 2020 Energy Info Days 2017: https://ec.europa.eu/easme/en/horizon-2020-secure-clean-and-efficient-energy-info-day

Horizon 2020 Homepage:
http://ec.europa.eu/programmes/horizon2020/

the F.A.Q. page on H2020:

https://ec.europa.eu/research/participants/portal/desktop/en/support/faq.html