

# Public Consultation on 12 proposed Institutionalised European Partnerships under the future Horizon Europe Research and Innovation programme

Fields marked with \* are mandatory.

## Introduction

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With a proposed budget of nearly 100 billion euro from 2021 to 2027, the Horizon Europe framework programme represents the largest collaborative multinational research and innovation investment in Europe and is open to participants worldwide.

The European Parliament and the Council have provisionally agreed on the Horizon Europe legislative package (COM(2018)435)[1]. Based on the agreement, Horizon Europe promotes a more strategic, ambitious and impact-oriented approach to public-public and public-private partnerships (European Partnerships), ensuring that they can effectively contribute to the Union's policies and priorities.

European Partnerships allow to bring together a broad range of actors to work towards a common goal, develop synergies with EU, national and regional programmes and strategies, and accelerate societal and market uptake. Different forms of European Partnerships can be implemented depending on specific needs, type of activities and criteria: Co-funded, Co-programmed or Institutionalised European Partnerships.

Institutionalised Partnerships are implemented only when other parts of the Horizon Europe programme, including other forms of European Partnerships (Co-funded or Co-programmed), cannot achieve the objectives or generate the necessary expected impacts. The preparation of such Institutionalised Partnerships requires new EU legislation and the setting up of specific legal structures (funding bodies) based on Article 185 and 187 of the Treaty on the Functioning of the EU (TFEU)[2]. As such all Institutionalised Partnerships must be justified with an impact assessment prior to the preparation of the legislative proposals.

The European Commission is currently running the impact assessment of 12 candidate Institutionalised European Partnerships in the following priorities:

1. EU-Africa research partnership on health security to tackle infectious diseases (Global Health)
2. Innovative Health Initiative
3. Key Digital Technologies
4. Smart Networks and Services
5. European Metrology
6. Transforming Europe's rail system

7. Integrated Air Traffic Management
8. Clean Aviation
9. Clean Hydrogen
10. Safe and Automated Road Transport
11. Circular bio-based Europe: sustainable innovation for new local value from waste and biomass
12. Innovative SMEs

This public consultation aims to collect the views of stakeholders and citizens on the need for such Institutionalised European Partnerships and will feed into the impact assessment process. This consultation is structured in two parts: Part 1 covering all candidate Institutionalised European Partnerships and Part 2 specific to each candidate. We invite you to provide feedback on any of the candidate Institutionalised European Partnership.

The questionnaire is available in English, French and German and you can reply in any EU language. You can pause any time and continue later. Your contribution is downloadable once you have submitted your answers.

Responses received after the closing date will not be considered. Questionnaires sent by e-mail or on paper will not be analysed except those due to accessibility needs of people with visual disabilities and their representative organisations.

A summary on the outcome of the public consultation will be published by the Commission services on the '[Have your say](#)' portal.

We thank you for your participation.

[Protection of personal data](#)

[Privacy statement](#) on the protection of personal data in EU Survey

[1] Legal texts for Horizon Europe to be found here: [https://ec.europa.eu/commission/publications/research-and-innovation-including-horizon-europe-iter-and-euratom-legal-texts-and-factsheets\\_en](https://ec.europa.eu/commission/publications/research-and-innovation-including-horizon-europe-iter-and-euratom-legal-texts-and-factsheets_en)

[2] Following Article 8(1)(c) of the proposed Regulation for Horizon Europe

## About you

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### \* Language of my contribution

- ☐ Bulgarian
- ☐ Croatian
- ☐ Czech
- ☐ Danish
- ☐ Dutch
- ☒ English
- ☐ Estonian
- ☐ Finnish
- ☐ French
- ☐ Gaelic
- ☐ German

- ☐ Greek
- ☐ Hungarian
- ☐ Italian
- ☐ Latvian
- ☐ Lithuanian
- ☐ Maltese
- ☐ Polish
- ☐ Portuguese
- ☐ Romanian
- ☐ Slovak
- ☐ Slovenian
- ☐ Spanish
- ☐ Swedish

\* I am giving my contribution as

- ☐ Academic/research institution
- ☐ Business association
- ☐ Company/business organisation
- ☐ Consumer organisation
- ☐ EU citizen
- ☐ Environmental organisation
- ☐ Non-EU citizen
- ☐ Non-governmental organisation (NGO)
- ☐ Public authority
- ☐ Trade union
- ☒ Other

\* First name

Chris

\* Surname

Gent

\* Email (this won't be published)

chris.gent@zeroemissionsplatform.eu

\* Organisation name

*255 character(s) maximum*

ETIP Zero Emission Platform (ZEP)

\* Organisation size

- ☒ Micro (1 to 9 employees)

- ☐ Small (10 to 49 employees)
- ☐ Medium (50 to 249 employees)
- ☐ Large (250 or more)

## Transparency register number

*255 character(s) maximum*

Check if your organisation is on the [transparency register](#). It's a voluntary database for organisations seeking to influence EU decision-making.

793300922868-60

## \* Country of origin

Please add your country of origin, or that of your organisation.

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|---|---|--|--|
| <input type="radio"/> Afghanistan         | <input type="radio"/> Djibouti                            | <input type="radio"/> Libya            | <input type="radio"/> Saint Martin                                 |
| <input type="radio"/> Åland Islands       | <input type="radio"/> Dominica                            | <input type="radio"/> Liechtenstein    | <input type="radio"/> Saint Pierre and Miquelon                    |
| <input type="radio"/> Albania             | <input type="radio"/> Dominican Republic                  | <input type="radio"/> Lithuania        | <input type="radio"/> Saint Vincent and the Grenadines             |
| <input type="radio"/> Algeria             | <input type="radio"/> Ecuador                             | <input type="radio"/> Luxembourg       | <input type="radio"/> Samoa  |
| <input type="radio"/> American Samoa      | <input type="radio"/> Egypt                               | <input type="radio"/> Macau            | <input type="radio"/> San Marino                                   |
| <input type="radio"/> Andorra             | <input type="radio"/> El Salvador                         | <input type="radio"/> Madagascar       | <input type="radio"/> São Tomé and Príncipe                        |
| <input type="radio"/> Angola              | <input type="radio"/> Equatorial Guinea                   | <input type="radio"/> Malawi           | <input type="radio"/> Saudi Arabia                                 |
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| <input type="radio"/> Australia           | <input type="radio"/> Fiji                                | <input type="radio"/> Mauritania       | <input type="radio"/> Slovakia                                     |
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| <input type="radio"/> Azerbaijan          | <input type="radio"/> France                              | <input type="radio"/> Mayotte          | <input type="radio"/> Solomon Islands                              |
| <input type="radio"/> Bahamas             | <input type="radio"/> French Guiana                       | <input type="radio"/> Mexico           | <input type="radio"/> Somalia                                      |
| <input type="radio"/> Bahrain             | <input type="radio"/> French Polynesia                    | <input type="radio"/> Micronesia       | <input type="radio"/> South Africa                                 |
| <input type="radio"/> Bangladesh          | <input type="radio"/> French Southern and Antarctic Lands | <input type="radio"/> Moldova          | <input type="radio"/> South Georgia and the South Sandwich Islands |
| <input type="radio"/> Barbados            | <input type="radio"/> Gabon                               | <input type="radio"/> Monaco           | <input type="radio"/> South Korea                                  |
| <input type="radio"/> Belarus             | <input type="radio"/> Georgia                             | <input type="radio"/> Mongolia         | <input type="radio"/> South Sudan                                  |
| <input type="radio"/> Belgium             | <input type="radio"/> Germany                             | <input type="radio"/> Montenegro       | <input type="radio"/> Spain  |

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| <input type="radio"/> Benin                            | <input type="radio"/> Gibraltar                         | <input type="radio"/> Morocco                  | <input type="radio"/> Sudan                                |
| <input type="radio"/> Bermuda                          | <input type="radio"/> Greece                            | <input type="radio"/> Mozambique               | <input type="radio"/> Suriname                             |
| <input type="radio"/> Bhutan                           | <input type="radio"/> Greenland                         | <input type="radio"/> Myanmar /Burma           | <input type="radio"/> Svalbard and Jan Mayen               |
| <input type="radio"/> Bolivia                          | <input type="radio"/> Grenada                           | <input type="radio"/> Namibia                  | <input type="radio"/> Sweden                               |
| <input type="radio"/> Bonaire Saint Eustatius and Saba | <input type="radio"/> Guadeloupe                        | <input type="radio"/> Nauru                    | <input type="radio"/> Switzerland                          |
| <input type="radio"/> Bosnia and Herzegovina           | <input type="radio"/> Guam                              | <input type="radio"/> Nepal                    | <input type="radio"/> Syria                                |
| <input type="radio"/> Botswana                         | <input type="radio"/> Guatemala                         | <input type="radio"/> Netherlands              | <input type="radio"/> Taiwan                               |
| <input type="radio"/> Bouvet Island                    | <input type="radio"/> Guernsey                          | <input type="radio"/> New Caledonia            | <input type="radio"/> Tajikistan                           |
| <input type="radio"/> Brazil                           | <input type="radio"/> Guinea                            | <input type="radio"/> New Zealand              | <input type="radio"/> Tanzania                             |
| <input type="radio"/> British Indian Ocean Territory   | <input type="radio"/> Guinea-Bissau                     | <input type="radio"/> Nicaragua                | <input type="radio"/> Thailand                             |
| <input type="radio"/> British Virgin Islands           | <input type="radio"/> Guyana                            | <input type="radio"/> Niger                    | <input type="radio"/> The Gambia                           |
| <input type="radio"/> Brunei                           | <input type="radio"/> Haiti                             | <input type="radio"/> Nigeria                  | <input type="radio"/> Timor-Leste                          |
| <input type="radio"/> Bulgaria                         | <input type="radio"/> Heard Island and McDonald Islands | <input type="radio"/> Niue                     | <input type="radio"/> Togo                                 |
| <input type="radio"/> Burkina Faso                     | <input type="radio"/> Honduras                          | <input type="radio"/> Norfolk Island           | <input type="radio"/> Tokelau                              |
| <input type="radio"/> Burundi                          | <input type="radio"/> Hong Kong                         | <input type="radio"/> Northern Mariana Islands | <input type="radio"/> Tonga                                |
| <input type="radio"/> Cambodia                         | <input type="radio"/> Hungary                           | <input type="radio"/> North Korea              | <input type="radio"/> Trinidad and Tobago                  |
| <input type="radio"/> Cameroon                         | <input type="radio"/> Iceland                           | <input type="radio"/> North Macedonia          | <input type="radio"/> Tunisia                              |
| <input type="radio"/> Canada                           | <input type="radio"/> India                             | <input type="radio"/> Norway                   | <input type="radio"/> Turkey                               |
| <input type="radio"/> Cape Verde                       | <input type="radio"/> Indonesia                         | <input type="radio"/> Oman                     | <input type="radio"/> Turkmenistan                         |
| <input type="radio"/> Cayman Islands                   | <input type="radio"/> Iran                              | <input type="radio"/> Pakistan                 | <input type="radio"/> Turks and Caicos Islands             |
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| <input type="radio"/> Chad                             | <input type="radio"/> Ireland                           | <input type="radio"/> Palestine                | <input type="radio"/> Uganda                               |
| <input type="radio"/> Chile                            | <input type="radio"/> Isle of Man                       | <input type="radio"/> Panama                   | <input type="radio"/> Ukraine                              |
| <input type="radio"/> China                            | <input type="radio"/> Israel                            | <input type="radio"/> Papua New Guinea         | <input type="radio"/> United Arab Emirates                 |
| <input type="radio"/> Christmas Island                 | <input type="radio"/> Italy                             | <input type="radio"/> Paraguay                 | <input checked="" type="radio"/> United Kingdom            |
| <input type="radio"/> Clipperton                       | <input type="radio"/> Jamaica                           | <input type="radio"/> Peru                     | <input type="radio"/> United States                        |
| <input type="radio"/> Cocos (Keeling) Islands          | <input type="radio"/> Japan                             | <input type="radio"/> Philippines              | <input type="radio"/> United States Minor Outlying Islands |
| <input type="radio"/> Colombia                         | <input type="radio"/> Jersey                            | <input type="radio"/> Pitcairn Islands         | <input type="radio"/> Uruguay                              |
| <input type="radio"/> Comoros                          | <input type="radio"/> Jordan                            | <input type="radio"/> Poland                   | <input type="radio"/> US Virgin Islands                    |

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| <input type="radio"/> Congo                            | <input type="radio"/> Kazakhstan | <input type="radio"/> Portugal                                    | <input type="radio"/> Uzbekistan        |
| <input type="radio"/> Cook Islands                     | <input type="radio"/> Kenya      | <input type="radio"/> Puerto Rico                                 | <input type="radio"/> Vanuatu           |
| <input type="radio"/> Costa Rica                       | <input type="radio"/> Kiribati   | <input type="radio"/> Qatar                                       | <input type="radio"/> Vatican City      |
| <input type="radio"/> Côte d'Ivoire                    | <input type="radio"/> Kosovo     | <input type="radio"/> Réunion                                     | <input type="radio"/> Venezuela         |
| <input type="radio"/> Croatia                          | <input type="radio"/> Kuwait     | <input type="radio"/> Romania                                     | <input type="radio"/> Vietnam           |
| <input type="radio"/> Cuba                             | <input type="radio"/> Kyrgyzstan | <input type="radio"/> Russia                                      | <input type="radio"/> Wallis and Futuna |
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| <input type="radio"/> Cyprus                           | <input type="radio"/> Latvia     | <input type="radio"/> Saint Barthélemy                            | <input type="radio"/> Yemen             |
| <input type="radio"/> Czechia                          | <input type="radio"/> Lebanon    | <input type="radio"/> Saint Helena Ascension and Tristan da Cunha | <input type="radio"/> Zambia            |
| <input type="radio"/> Democratic Republic of the Congo | <input type="radio"/> Lesotho    | <input type="radio"/> Saint Kitts and Nevis                       | <input type="radio"/> Zimbabwe          |
| <input type="radio"/> Denmark                          | <input type="radio"/> Liberia    | <input type="radio"/> Saint Lucia                                 |   |

\* Publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

☐ **Anonymous**

Only your type of respondent, country of origin and contribution will be published. All other personal details (name, organisation name and size, transparency register number) will not be published.

☒ **Public**

Your personal details (name, organisation name and size, transparency register number, country of origin) will be published with your contribution.

☒ I agree with the [personal data protection provisions](#)

## Part 1: General questions on European Partnerships

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As per the political agreement on Horizon Europe, an Institutionalised European Partnership shall be implemented only where other parts of the Horizon Europe programme, including other forms of European Partnerships (co-programmed, co-funded), would not achieve the objectives or would not generate the necessary expected impacts; they should be justified by a long-term perspective and high degree of integration.

There will be three types of European Partnerships under Horizon Europe [1].

**Co-programmed European Partnerships** are based on memoranda of understanding and/or contractual arrangements between the Commission and private and/or public partners. They are expected to be best suited to partnerships involving industry, but also Member States, foundations, international partners etc. They are jointly implemented by the Commission (Union contribution via Horizon Europe work programmes) and partners (contributions under their responsibility), with full application of Horizon Europe rules for the Union contribution, whereas partners rules apply to their contributions. They allow for more flexibility over time as regards the composition of partners, objectives and activities and require the relatively lowest effort for set-up and implementation compared to the other forms of European Partnerships.

**Co-funded European Partnerships** are implemented under the responsibility of the partners, that receive a substantial budget contribution from Horizon Europe (Grant Agreement) to cofound their joint programme of activities. They are expected to be best suited to partnerships involving Member States, with research funders and other public authorities at the core of the consortium, and possibility to include foundations and international partners etc. By default national rules apply to calls launched by the consortium. They require a relatively moderate effort for their set-up and implementation compared to other forms of European Partnerships.

**Institutionalised European Partnerships** are based on the Union participation in and financial contribution to research and innovation programmes undertaken by several Member States (under Article 185 TFEU) or by bodies established under Article 187 TFEU, for partnerships involving typically industry, research organisations but also Member States, foundations and international partners. They are expected to be best suited for long-term collaborations with stable partners and provide only limited flexibility for adaptation during their implementation. Compared to other forms of European Partnerships, they require a relatively high and long-term effort for their preparation and set-up, including the establishment of dedicated entities (funding bodies) for their implementation. By default the rules for participation of Horizon Europe apply for the calls launched under Institutionalised European Partnerships.

[1] Article 8 of COM(2018)435

\* 1. Have you been involved in the on-going research and innovation framework programme Horizon 2020 or the preceeding Framework Programme 7?



Yes



No

2. To what extent do you think that the future European Partnerships under Horizon Europe need to:

	1 (Not needed at all)	2	3	4	5 (Fully needed)	Don't Know
* Be more responsive towards EU policy objectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Be more responsive towards societal needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Be more responsive towards priorities in national and regional research and innovation strategies, including smart specialisation strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
* Make a significant contribution to achieving the UN's Sustainable Development Goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Make significant contribution to the EU efforts to achieve climate-related goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Focus more on the development and effective deployment of technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Focus more on bringing about transformative change towards sustainability in their respective area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Make a significant contribution to EU global competitiveness in specific sectors/domains	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
* Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

\* (Other) Please specify:

*500 character(s) maximum*

Throughout the questionnaire hydrogen and fuel cells should be Clean Hydrogen, which correctly reflects the increased scope of the partnership to include the development of hydrogen technologies across multiple sectors.

\* 3. What would you see as main advantages and disadvantages of participation in an Institutionalised European Partnership (as a partner) under Horizon Europe?

*500 character(s) maximum*

Advantage: A partnership can include multiple industrial, academic, public and other stakeholders. Often with a mixed background, partnerships can draw together a variety of specialists to drive the development of hydrogen technologies across multiple sectors to help reach the EU climate and energy goals.

Disadvantage: The technological scope & partnership synergies for hydrogen (and other) partnerships in the past have been too narrow. Limiting the spread of the technological research.

4. For which of the candidate Institutionalised European Partnership(s) would you like to specifically provide your views through this consultation (you may provide your views for more than one)?

- ☐ EU-Africa research partnership on health security to tackle infectious diseases - Global Health
- ☐ Innovative Health Initiative
- ☐ Key Digital Technologies
- ☐ Smart Networks and Services
- ☐ European Metrology
- ☐ Transforming Europe's rail system
- ☐ Integrated Air Traffic Management
- ☐ Clean Aviation



- ☐ Circular bio-based Europe: sustainable innovation for new local value from waste and biomass
- ☒ Clean Hydrogen
- ☐ Safe and Automated Road Transport
- ☐ Innovative SMEs

## Part 2 - Questions on problems, objectives, policy options and impact tailored to each candidate European Partnership

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The following questions allow to assess the necessity of a partnership approach, as well as the need for an Institutionalised Partnership for each candidate partnership.

### Clean Hydrogen

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The European Commission is assessing whether to propose an Institutionalised European Partnership on Clean Hydrogen under Horizon Europe. Its overall objective would be to create a strong, innovative and competitive European Clean Hydrogen sector, fully capable of underpinning the European energy transition by accelerating the market entry of nearly-zero carbon hydrogen-based technologies and delivering a wide range of socio-economic benefits to the European society.

The proposed partnership would build on the experience gained in the existing Fuel Cells and Hydrogen 2 Joint Undertaking (FCH 2 JU), but could significantly revise its scope, expand partners and take account of the strengthened scientific, societal, economic and technological impact criteria of Horizon Europe. FCH 2 JU is a public-private partnership between the EU and the Hydrogen and Fuel Cells industry, established under Horizon 2020 (on the basis of Article 187 TFEU) and which functioning is currently planned until 31 December 2024.

The [inception impact assessment](#) outlines an early description of the problems, objectives, options and likely impact of a candidate European Partnership in this field.

1. To what extent do you think this is relevant for research and innovation efforts at EU level to address the following problems in relation to hydrogen and fuel cells?

#### Research and innovation problems:

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't Know
Lack of understanding of or knowledge about hydrogen and fuel cells	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Innovation gap in the EU in translating the results of hydrogen and fuel cells research into new products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of interest of major market players to engage in hydrogen and fuel cells research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Structural and resource problems:

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't Know
Limited collaboration and pooling of resources between public actors and private actors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Limited role of the current industrial policy in framing the market perspectives related to hydrogen and fuel cells innovation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

### Problems in uptake of hydrogen and fuel cells innovations due to:

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't Know
Small current market size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Market failures due to inadequate industry investment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Lack of refuelling infrastructure	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of funding or de-risking financial instruments for large-scale hydrogen/fuel cell projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Overly restrictive regulation in the field of hydrogen and fuel cells	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overly restrictive regulation in energy markets and in particular for energy carriers that enable sector coupling across different areas (power, gas, fuels for transport networks)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
High financial risk for early movers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Fragmentation among players and lack of critical mass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Fragmentation among Member States and lack of EU binding targets and bonding networks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

High costs of clean hydrogen and fuel cells solutions that hinder mass commercialisation until serial production is achieved, factoring-in economies of scale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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## 2. In your view, how should the specific challenges described above be addressed through Horizon Europe intervention?

European Partnerships may take any of the following forms:

- a) Co-programmed European Partnerships: based on memoranda of understanding and/or contractual arrangements between the Commission and private and/or public partners;
- b) Co-funded European Partnerships: based on participation in and financial contribution to a programme of R&I activities, using a Programme co-fund action; or
- c) Institutionalised European Partnerships: based on participation in and financial contribution to R&I programmes undertaken by several Member States (under Article 185 TFEU) or by bodies established under Article 187 TFEU (Institutionalised European Partnerships)

- ☒ Traditional calls under Horizon Europe work programmes
- ☐ Co-Funded partnership
- ☐ Co-Programmed partnership
- ☐ Institutionalised Partnership

## 3. In your view, how relevant are the following elements and activities to ensure that the proposed European Partnership would meet its objectives?

### Setting joint long-term agenda with strong involvement of:

	1 (Not relevant)	2	3	4	5 (Very relevant)	Don't Know
Member States and Associated Countries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Academia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Foundations and Non-Governmental Organisations	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other societal stakeholders (e.g. end users, regulators, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

### Pooling and leveraging resources (financial, infrastructure, in-kind expertise etc.) through coordination, alignment or integration with:

	1 (Not relevant)	2	3	4	5 (Very relevant)	Don't Know
Member States and Associated Countries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Academia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Foundations and Non-Governmental Organisations	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other societal stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Partnership composition:

	1 (Not relevant)	2	3	4	5 (Very relevant)	Don't Know
Flexibility in the composition of partners over time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Ensuring a broad range of partners, including across disciplines and sectors (e.g. academia, research performing organisations, Member States representatives other EU Agencies like EDA, EMSA and other partnerships, etc.)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Implementing the following activities:

	1 (Not relevant)	2	3	4	5 (Very relevant)	Don't Know
Joint R&I programme	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborative R&I projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deployment and piloting activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Input to regulatory aspects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Co-creation of solutions with end-users	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

4. In your view, how relevant is to set up a specific legal structure (funding body) for the candidate European Partnership to achieve the following?

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't know
Implement its activities more effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Implement activities faster to respond to sudden market or policy needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Implements activities more transparently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Increase financial leverage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Ensure better links to regulators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Ensure better links to practitioners on the ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Obtain more buy-in and long-term commitment from other partners	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure harmonisation of standards and approaches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Facilitate synergies with other EU and national programmes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Facilitate collaboration with other relevant European Partnerships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

5. What is your view on the scope and coverage proposed for this candidate institutionalised European Partnership, based on its inception impact assessment?

	Too narrow	Right scope & coverage	Too broad	Don't know
Technologies covered	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research areas covered	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geographical coverage	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Types of partners covered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Range of activities covered	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sectoral coverage	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please provide any comment you may have on the proposed scope and coverage for this candidate Institutionalised Partnership:

*500 character(s) maximum*

Hydrogen is one of the key solutions for the decarbonisation of several sectors including heavy industry. The clean hydrogen partnership should focus of all sectors not only fuel cells. Furthermore, there is a bias towards electrolysis produced hydrogen, the production of hydrogen should be technologically neutral provided is sourced from a low-carbon hydrogen production threshold.

6. In your view, would it be possible to rationalise the candidate European Institutionalised Partnership and its activities, and/or to better link it with other comparable initiatives?

- ☒ Yes  
☐ No

(Yes) Please explain why? Which other comparable initiatives could it be linked with?

*500 character(s) maximum*

Clean hydrogen is a solution for the decarbonisation of multiple sectors. Allowing linked initiatives will ensure that research is accelerated and hydrogen plays a key role in the future of the Circular Economy, Clean Aviation, Europe's Rail and industrial processes.

7. In your view, how relevant is it for the candidate European Institutionalised Partnership to deliver on the following impacts?

### Societal impact:

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't know
Improved public health: reduction of pollutants, particulates and noise emissions compared to direct fossil fuel combustion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Improved working conditions (e.g. for transport professionals, or on construction sites) by eliminating toxic and harmful local emissions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Novel competitive cross-sectoral solutions for decarbonisation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

### Economic/technological impact:

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't know
Increased industrial leadership in hydrogen technologies and uptake of new technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Preparation of re-skilling of human resources towards high value-added markets with increasing weight in the economy (adaptation to phase-out /replacement of old technologies)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provision of a solution for storing renewable energy for later use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Creation of jobs in the low-carbon economy by strengthening the European hydrogen sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
New demand-side solutions to decarbonise the energy and transport systems (also in remote /isolated areas)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Better cross-fertilisation of innovative ideas from SMEs to large companies that can bring them to mass market	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Highly skilled jobs in industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low-carbon and competitive solutions for heavy duty and long-distance transport	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low-carbon and competitive solutions for all modes of transport	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Scientific impact:

	1 (Not relevant at all)	2	3	4	5 (Very relevant)	Don't know
Contribution to the advancement of science by stimulating innovation along the entire hydrogen value chain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
New scientific knowledge and reinforcement of EU scientific capability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Contact

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