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Technical Assistance for Turkey in Horizon 2020 Phase-II
EuropeAid/139098/IH/SER/TR

EIC Pathfinder and EIC Transition Training (Webinar)

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27 January 2022





1



Understanding EIC Pathfinder

Key features of the EIC Pathfinder

- Who should apply
- Why should you apply
- How to apply (eligibility criteria)
- Size of the grants and additional grant
- Evaluation and evaluation criteria
- 5 Pathfinder Challenges

30' EIC Pathfinder Open

30' EIC Pathfinder Challenges

Understanding EIC Transition

Key features of the EIC Transition

- Who should apply
- Why should you apply
- How to apply (eligibility criteria)
- Size of the grants and additional grant
- Evaluation and evaluation criteria
- 2 Transition Challenges

15' EIC Transition Open

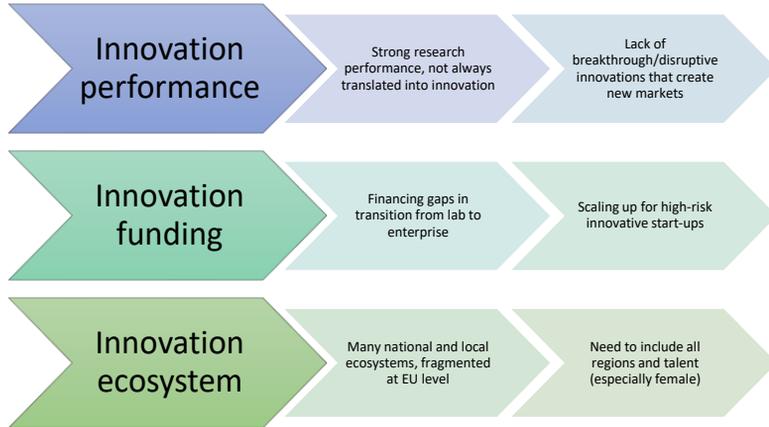
30' EIC Transition Challenges



2



EIC Motivation



3



New European Innovation Council

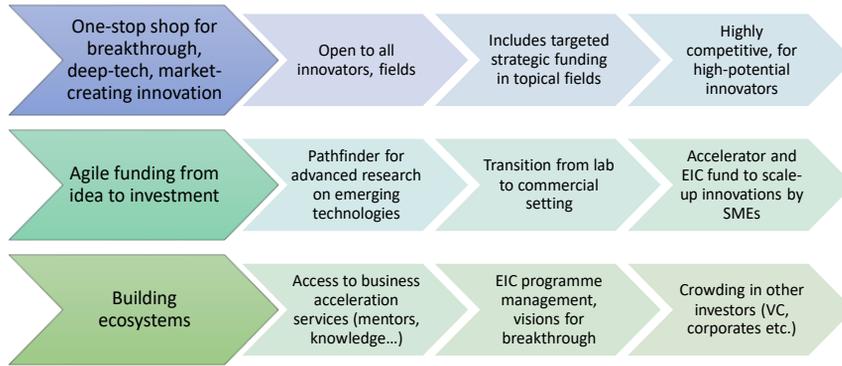
- **€10 billion** programme to identify, develop and scale up breakthrough technologies and disruptive innovations in Europe
- **Unique** in the world to combine research on emerging technologies with Accelerator for startups, SMEs and scaleups
- **EIC Fund** largest VC deep-tech investor in Europe (over €3 billion)
- **Innovator-centric** steered by Board of leading innovators
- **Pro-active approach** with flexible funding
- Enhances the **European innovation ecosystem**



4



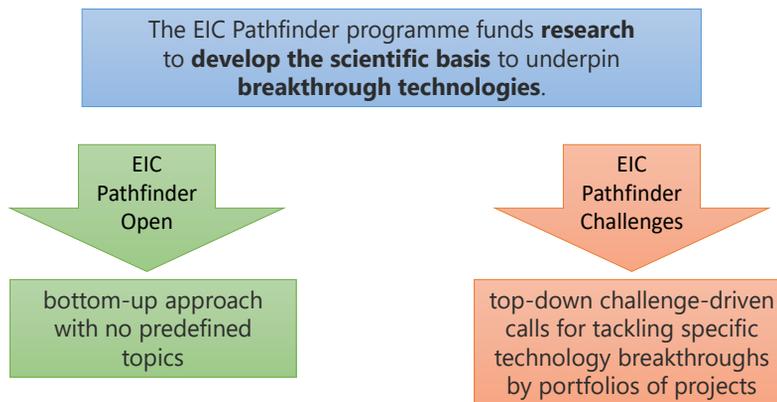
European Innovation Council



5



EIC Pathfinder



6



Previous EIC activities

European Innovation Council Pathfinder Open

Successful proposals | Cut-off 25 May 2021



They were the first to be selected under the EIC since its launch in March 2021 and were set to receive up to of EUR 168 million for funding (on average EUR 3 million for each project). They would develop novel technologies for future applications across a very wide range of topics – health, environment, energy, computing and artificial intelligence.



7



Q&A
Time to ask your questions!



8



Pathfinder Open – Who is it for? – “Gatekeepers”

- Do you have a **vision for a future technology** that could make a real difference to our lives?
- Do you see a plausible way of **achieving the scientific breakthrough** that will make this technology possible?
- Can you imagine collaborating with an **interdisciplinary team of researchers and innovators** to realise the **proof of principle** and validate the scientific basis of the future technology?

Familiar with FET?
EIC is similar but different!



9



Why should you apply?

You apply for an EIC Pathfinder Open grant:

- for support to realise an ambitious vision for radically new technology, with potential to create new markets and/or to address global challenges.
- for early stage development of such future technologies (e.g. various activities at low Technology Readiness Levels 1-4),
- to provide the foundations of the technology you are envisioning.



10



EIC Information Hub

Funding scheme	Documents
EIC Pathfinder Open	EIC Work Programme FAQ Proposal Template
+ for Challenges:	Challenge descriptions
EIC Transition Open	EIC Work Programme FAQ Guide for applications
+ for Challenges	Challenge descriptions

https://eic.ec.europa.eu/eic-funding-opportunities/eic-pathfinder_en



11



EIC Pathfinder and Transition Planning for 2022

Funding scheme	Deadlines
EIC Pathfinder Open	2 March 2022
EIC Pathfinder Challenges	26 Oct 2022
EIC Transition Open and Challenges	6 April 2022 15 June 2022 4 October 2022

Disclaimer: Dates may change!



12



EIC Pathfinder Open: **Gatekeepers** (should I go or not?)

Collaborative, interdisciplinary research, meeting the following:

- **convincing, long-term vision of a radically new technology** that has the potential to have a transformative positive effect to our economy and society;
- **concrete, novel and ambitious science-towards-technology breakthrough**, providing advancement towards the envisioned technology;
- **high-risk & high-gain research approach & methodology**, with concrete and plausible objectives.

(Note: risk is a must, not a problem).



13



Expected outcomes of EIC Pathfinder Open project

Expected outcome of a EIC Pathfinder project is a **proof of principle** that the **main ideas of the envisioned future technology are feasible**, thus validating its scientific and technological basis;

- projects are expected to take the necessary measures to **allow future uptake to take place**, for instance through an **adequate formal protection of the generated Intellectual Property (IP)**;
- projects are encouraged to involve and empower in their teams **key actors** that have the potential to **become future leaders** in their field such as excellent early-career researchers or promising high-tech SMEs, including start-ups.

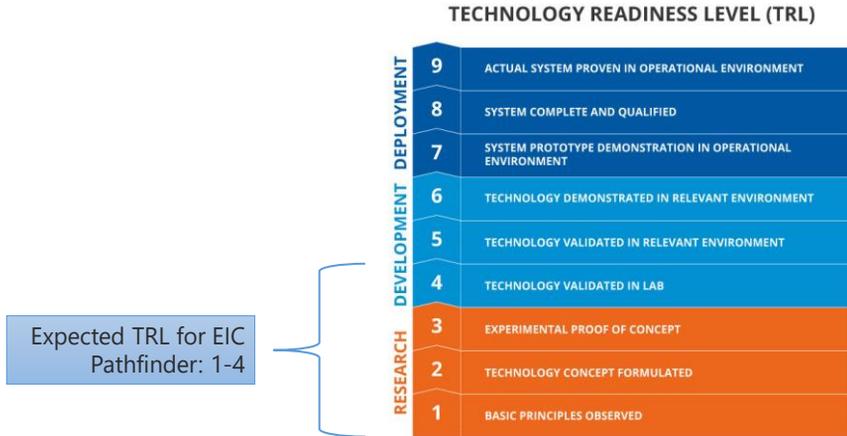
All the above should **strengthen Europe's capacity for exploiting the scientific discoveries made in Europe** throughout the steps to market success or for solving global challenges.



14



Expected TRL (Technology Readiness Level)



15



EIC Pathfinder Open: Can you apply? Consortium composition

A consortium has to include at least **three independent legal entities**, each one established in a different Member State or Associated Country and with at least one of them established in a Member State.

- Legal entities: all types are eligible.

Note: Pathfinder projects are often necessarily interdisciplinary and a good consortium should reflect this.



16



What support will you receive if your proposal is funded?

- You will receive a grant for a **Research and Innovation Action (RIA)** to cover the **eligible costs**, necessary for the implementation of your project.
- For this call, the EIC considers proposals with a requested EU contribution of **up to EUR 3 million** as appropriate. Nonetheless, this does not preclude you to request larger amounts, if properly justified. The funding rate of this grant will be 100% of the eligible costs.
- The total indicative budget for the next call is expected at app. € 183 million.



17



Additional opportunities for selected projects?

Projects or their beneficiaries funded through EIC Pathfinder are eligible:

- to receive additional **grants** (up to 3 per project or more if duly justified) with fixed amounts of up to €50,000 :
 - for complementary activities to explore potential pathways to commercialization
 - for portfolio activities.
- to submit a proposal to the **EIC Transition** for transforming their research results into innovation opportunities;
- to submit an **EIC Accelerator** proposal via the **Fast Track** scheme;
- to receive free access to a wide range of **Business Acceleration Services**.



18



Application and evaluation: How do you apply?

- You must submit your application via the **EU Funding & Tenders Portal** before the given deadline.
- Specific EIC Pathfinder **Open proposal** template
- Maximum **17 pages** for the sections 1-3 in part B.
- You will be informed about the outcome of the evaluation within **5 months from the call deadline** (indicative).
- If your proposal is accepted for funding, your grant agreement will be signed by **8 months after the call deadline** (indicative).
- The deadline to submit the proposal is **2 March, 2022 at 17h00 CET**.

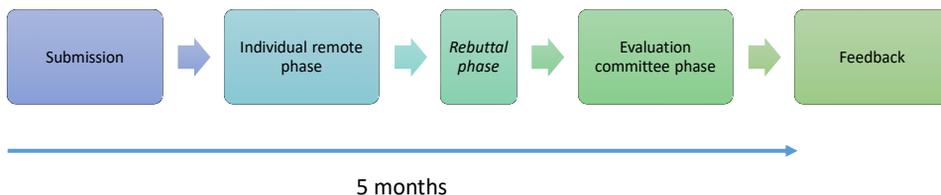
(Call deadline for expected to be 2023 similar, i.e. Pathfinder Open expected for March 2023.)



19



Decision procedure and timeline



After information: Grant Agreement preparation (about 3 months)



20



Rebuttal phase – Right-to-react

- You will have the opportunity to **reply within 7 calendar days** with a strict page limit (**maximum two A4 pages**) to the evaluators' comments;
- your **replies cannot be used to alter or add to the content** of the proposals, but must strictly focus on providing clarifications and/or on responding to potential misunderstandings or errors by the evaluators;
- the replies will be **made available to the evaluation committee**;
- the evaluation committee will **take into consideration** the comments from the rebuttal procedure, if any, in order to arrive at their final scores for the proposals that underwent this procedure.



21



Evaluation: Individual remote phase

- Expert evaluators evaluate the proposals with respect to the **evaluation criteria**:
 - **Excellence**
 - **Impact**
 - **Quality and efficiency of the implementation**
- The **remote score** for each evaluation criterion will be the **median of the evaluators' scores**.
- The **overall remote score** will be the **weighted sum** of the three median scores from the three evaluation criteria.



22



1. Evaluation criterion: *Excellence*

- **Long-term vision:** How convincing is the vision of a radically new technology that has the potential to have a transformative positive effect to our economy and society?
- **Science-towards-technology breakthrough:** How concrete, novel and ambitious is the proposed science-towards-technology breakthrough with respect to the state-of-the-art?
What advancement does it provide towards realising the envisioned technology?
- **Objectives:** How concrete and plausible are the proposed objectives? To what extent are highrisk/high-gain research approach and methodology appropriate for achieving them?
- **Interdisciplinarity:** How relevant is the interdisciplinary approach from traditionally distant disciplines for achieving the proposed breakthrough?

Threshold 4/5; weight 60%



23



2. Evaluation criterion: *Impact*

- **Innovation potential:** How adequate are the proposed measures for protection of results and any other exploitation measures to facilitate future translation of research results into innovations with societal or economic impact? How suitable are the proposed measures for empowering key actors that have the potential to take the lead in translating research into innovations?
- **Communication and Dissemination:** How convincing and wide reaching are the proposed measures and plans for public/stakeholder engagement and for raising awareness about the project outcomes, including through Open Science, with respect to their potential to establish new markets and/or address global challenges?

Threshold 3/5; weight 20%



24



3. Evaluation criterion: *Quality and efficiency of the implementation*

- **Quality of the consortium:** To what extent do the consortium members have all the necessary high quality expertise for performing the project tasks?
- **Work plan:** How coherent and effective are the work plan (work packages, tasks, deliverables, milestones, time-line, etc.) and risk mitigation measures in order to achieve the project objectives?
- **Allocation of resources:** How appropriate and effective is the allocation of resources (person months and equipment) to tasks and consortium members?

Threshold 3/5; weight 20%



25



Evaluation committee phase

- The evaluation committee will be composed of **external independent experts different** than those who evaluated the proposals remotely;
- The **final score** will be decided based on the remote score and the outcome of its consensus discussions, taking into consideration the comments from the rebuttal procedure, if any;
- These discussions will **focus on controversial proposals that have a realistic chance of getting funded** (i.e. proposals from an appropriately chosen range above and below the funding threshold);
- **Expert evaluators** who evaluated and scored the proposals remotely may be **invited to the consensus discussions**, in particular for controversial proposals;
- The evaluation committee will confirm the **ranking list**.



26



Feedback to applicants

Applicants will receive an **Evaluation Summary Report** that will comprise of:

- The **final score**;
- A collation of the **comments** from individual reports, or extracts from them;
- A **comment that summarises** the assessment by the evaluation committee;
- **Additional comments**, possibly including advice not to resubmit proposal.



27



Pathfinder Challenges



28



Pathfinder Challenges

EIC Pathfinder Challenges aim to **build on new, cutting-edge directions in science and technology** to disrupt a field and a market or create new opportunities **by realizing innovative technological solutions** grounded in highrisk/high-gain research and development.

Top-down, based on given vision for each Challenge
Indicative: TRL 2-4.

RIA -100% of eligible costs
Grants of up to **EUR 3 million**
Total expected budget: € **167** Million

One cut-off -**26 Oct 2021**
Sections 1 to 3 of the Part B –maximum of **25**pages



29



Pathfinder Challenges

- Specific outcomes defined in the respective **challenge chapter**
- The **Challenge Guides** are published when the call opens
- They will provide **more information** about the specific objectives of the challenge, e.g.:
 - a detailed assessment of the **state of the art** and related (existing) projects in the field
 - **technical information** to underpin the objectives
 - potential societal, economic, environmental **impacts** if the objectives are achieved
 - relevant **references**
- Project results should include **top-level scientific publications** in open access
- Adequate formal **protection of the generated Intellectual Property (IP)**



30



Do you have what EIC are looking for?

You have an **ambitious idea** to realise or significantly contribute to the vision of a specific Pathfinder Challenge.

- EIC is particularly interested in **new deep-tech**: technology that becomes possible thanks to cutting-edge science in an area of the specific Challenge.
- We are seeking **new technological solutions at early stage of development** that can disrupt the standard practice and create new opportunities.
- In order to **secure this high innovation potential**, project outcomes must include top-level scientific publications as well as an adequate formal protection of the generated (and often unexpected) intellectual property (IP).
- Be prepared to become part of a **Challenge portfolio**, overseen and pro-actively managed by **EIC Programme Managers**.



31



Pathfinder Challenges Eligibility

Consortia or single legal entities (unless stated otherwise for the specific challenge*):

In case of consortium, they have to include **at least two** independent legal entities:

- consortia of two must have independent legal entities from two different Member States or Associated Countries;
- consortia of three or above follow standard rules i.e. at least one legal entity must be from a Member State;

In the case of single entity, **mid-caps and larger companies will not be permitted**.

*Challenge 1 is only open to proposals for collaborative projects with at least 3 partners following the standard eligibility conditions

(Disclaimer: check the final program document)



32



1 Carbon dioxide and Nitrogen management and valorisation

- a net zero carbon process involving conversion of CO₂ from various sources and streams into renewable fuels or net zero materials, using renewable energy as input. Should involve CO₂ capture/conversion (directly from air or from flue gases streams, and through photosynthetic, biological, biophysical, or chemical processes), storage (e.g. through chemical, electrochemical, biogenic processes), and further valorisation (e.g. feedstock for chemical industry, high energy density fuels, energy carriers or other carbon neutral compounds for industrial or agricultural applications). CO₂ valorisation processes should be based on renewable energy and adopt technologies such as co-electrolysis of CO₂ and water, catalytic reduction of CO₂, or photoelectrochemical CO₂ conversion etc.;
- N integrated management cycle (nitrogen circular economy) to avoid or significantly reduce the N release (e.g. from combustion, fertilizer, livestock, and wastewater) in conjunction with the conversion of N-compounds to inert N₂, or N-compounds recovery, recycle and reuse as feedstock for added-value products or for biological fixation (e.g. into agriculture, as ammonia, as renewable fuels and energy vectors, as liquid hydrogen carriers).

2 Mid to long term and systems integrated energy storage

- Computational modelling and optimisation applied to materials, components and control (i.e. charging/discharging) for storage;
- Heating/cooling storage through chemical and thermochemical technologies (adsorption, absorption, etc.) included their integration in buildings or industrial processes and for different temperature;
- Integration of energy storage systems into multi-vector energy grids and existing infrastructures, or into industrial processes for waste energy recovery and industrial symbiosis including concepts to enable smart control;
- Systems-integrated thermal energy storage technologies for industrial and building applications (i.e. energy storage combined to solar and geothermal energy conversion, to pumped heat technologies, or to combined cooling, heat and power generation);
- Innovative concepts for H₂ storage/compression combined with thermal energy management and storage.

3 Cardiogenomics

- To identify gene variants of high biological significance or other key molecules associated with the CVDs that could guide the physician in their clinical management and monitoring of these CVDs;
- To identify novel targets based on these variants for specific CVD indication(s) that would allow for the development of first in class therapies for the same indication;
- To seek for novel technological solutions that could contribute to the development and acceleration of first in class therapies for the above indications.

33



4 Towards the Healthcare Continuum: technologies to support a radical shift from episodic to continuous healthcare

- Develop a novel device/s or system for unobtrusive proactive healthcare. The targeted technology should offer life-long health status monitoring and elements of predictive medicine with methodologies grounded in existing scientific evidence.
- The end objective must be a Proof-of-Concept and evidence of safety and efficacy, with particular attention to minimising false positives that could hamper its real-world use.
- The targeted technology should offer a clinically acceptable solution amenable to successful evaluation under common Health Technology Assessment (HTA) methodologies.
- The path to future integration in the European healthcare workflow, specifically in relation to the inter-operability with existing infrastructures, as well as take up and compliance by appropriate patient populations, should be plausible.

5 DNA-based digital data storage

- New approaches for coding, decoding, modification or computational use of digital data in synthetic DNA or other sequence-controllable polymers with quantitative targets (theoretical and technological).
- Proof-of-Concept of technical feasibility with indications of at least state of the art benefits and major operational characteristics (e.g., extreme densities, longevity, stability) and going well beyond for some of them (e.g., speed, cost, accuracy).
- End-to-end scenarios of use, be it for data storage (archival, but also shorter term storage) or other purposes (like sensing, cryptography or computation) that exploit the benefits of the technology.

6 Alternative approaches to Quantum Information Processing, Communication, and Sensing

- expected to contribute to the development of information processing, communication or sensing components, for terrestrial or space applications, exhibiting similar advantages to the mainstream quantum technology approaches, in terms of sensitivity, accuracy, energy efficiency, etc.
- should describe how their proposed information processing or communication system would be controlled and could lead to the development of an information processing or communication device using a non-classical information theory approach.
- should aim to show how information processing or communications principles and architectures would be developed that demonstrate a clear and quantifiable advantage with respect to classical approaches and mainstream quantum technology alternatives. This should be applicable to a class of relevant problems or applications.
- should show how the foundations for novel approaches to encoding, manipulating, and storing information that could lead to practical applications would be established. Such novel approaches could find their roots in, for example, new phases of matter, exotic physical systems, biological systems, or other approaches.
- should describe how the proposed information processing or communication system would be controlled, programmed, and measured and should address relevant interfacing aspects.

34



Pathfinder challenge evaluation

Excellence - 60% Threshold - 4/5	Impact - 20% Threshold - 3.5/5	Implementation – 20% Threshold - 3/5
<ul style="list-style-type: none"> › Relevance to the Challenge › Novelty › Plausibility of methodology 	<ul style="list-style-type: none"> › Potential Impact › Innovation potential › Communication and Dissemination 	<ul style="list-style-type: none"> › Quality of the applicant/consortium › Work plan › Allocation of Resources

Scores: median of individual evaluator scores. Proposal score: weighted sum of median scores.
In 2nd step: choice depending on portfolio considerations – i.e. also depending on categories or components.



35



Pathfinder challenge guides

Challenge portfolio approach:

- a coherent set of projects exploring different perspectives, competing approaches or complementary aspects of the Challenge;
- multidisciplinary interactions and exchanges for synergies and serendipity;
- contributing to an overarching medium to long-term business goal and technology-based strategic plan, under the supervision of an **EIC Programme Manager**.

Projects will participate in relevant portfolio activities.

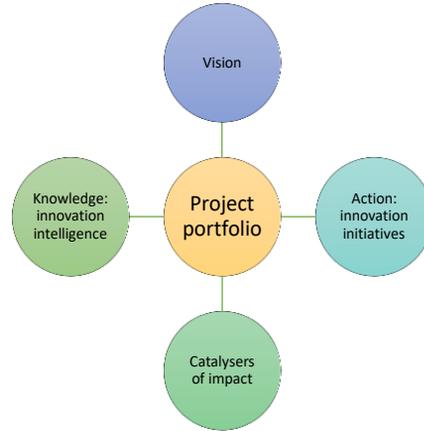


36



EIC Programme Managers

Bringing together cutting-edge expertise and visionary drive to turn new technological breakthroughs into relevant and responsible innovations for Europe and for the world: ready to work with others, to accelerate where possible, to be patient where needed, to learn from mistakes and, ultimately, to share the success.



37



Proactive management - impact

Engagement and interaction among projects to seed new ideas and facilitate cross-sectoral contamination: impact on specific research	Vision to integrate projects towards ambitious targets and address broader research challenges (portfolio goals)	Nurture the transition to innovation by balancing dissemination and IP protection, and networking with key players
Bridging EIC projects and other EU programmes, i.e. Horizon Missions, ERC, EIT, societal challenges, national/regional programmes	Identify regulatory or legislative gaps and propose opportunities to bridge them	Steer the research and innovation towards EU policy orientations: take strategic directions and influence policy



38



Q&A

Time to ask your questions!



39



EIC Transition

EIC Transition funds innovation activities that go **beyond the experimental proof of principle** in laboratory to supports both:

- the **maturation and validation** of your novel technology in the lab and in relevant application environments
- the **development of a business case** and (business) model towards the innovation's future commercialisation.

Grants of up to €2.5million and more are available to validate and demonstrate technology in application-relevant environment and develop market readiness.

Analogous to Pathfinder:

- EIC Transition Open: no predefined thematic priorities – open to any field of STI
- EIC Transition Challenge: predefined thematic areas of emerging, **strategic** technologies



40



EIC Transition

Results generated by:

- EIC Pathfinder projects
- FET Projects (FET Open, FET Proactive, FET Flagships)
- ERANET calls under the FET work programme (FLAGERA, QUANTERA & CHISTERA)
- ERC Proof of Concept projects

The “mother” project:

Should at least run 12 months, or

Should not have finished more than 24 months ago

You do not need to be a participant, PI or result owner of the previous project, but you must specify in your application the result and relevant IP to be developed and include written evidence from the relevant owner(s) of the result(s), which confirms the existence of the necessary agreements with you, including on IPR.



41



EIC Transition

Specific terms (Open & Challenges):

RIA -100% of eligible costs

Grants between 500 000 up to **EUR 2.5 million**

Typical duration: up to 3 years

Last call: (CLOSED):

• Open: EURO 59.6 Million

• Challenges: EURO 40.5 Million

Call publication -**15 April 2021**

One cut-off –**22 September 2021**

Sections 1 to 3 of the Part B –maximum of **25A4** pages

A small consortium of **two to five independent legal entities** ('multi-beneficiary'), or

A **single legal entity** ('mono-beneficiary')

Larger companies are not eligible



42



EIC Transition

New funding scheme tested in 2021

Bridging the gap from proof of concept to viable business case (TRL 4-6 and business/ market readiness):

- Increase **maturity of the technology** to TRL 5-6 (research, technology development and validation activities)
- Develop **business plans** for specific applications (market research, business case, intellectual property protection, ...)

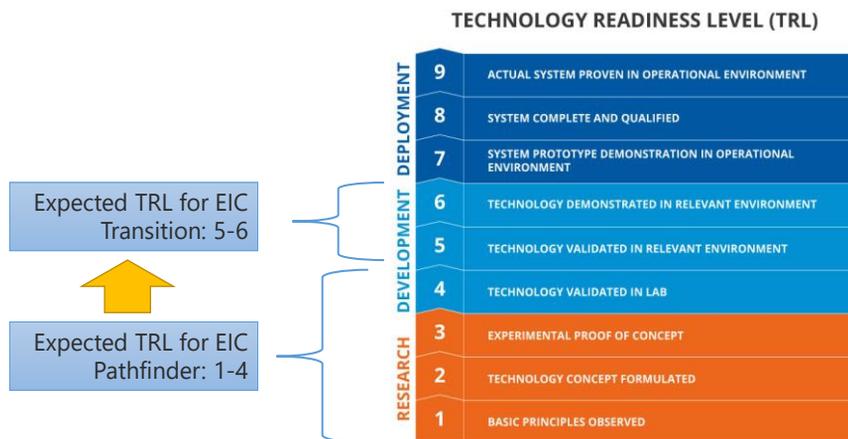
Making the solution **investment ready** (regulation, certification, standardisation, ...) towards **Entrepreneurship/Licensing**



43



Transition to increase TRL (Technology Readiness Level)



44



Expected outcomes and objectives

A technology that is demonstrated to be effective for its intended application

A business model and business plan for its development to market

Allow future uptake to take place, for instance through an adequate formal protection of the generated **Intellectual Property (IP)**

At the end of your Transition project, you should be **ready for the next stage**, which can be:

- to apply for **EIC Accelerator** (if you are a SME, including start-ups or spin-offs)
- to seek other investors or **sources of funding**
- to enter **licensing or collaboration agreements** with third parties, or
- other **routes to market deployment**



45



Some illustrative examples

RTD project

✦ A focused collaborative project to further develop strategic and high impact technologies towards specific applications while improving also the market readiness: a collaboration among several applicants

Maturing previous research

✦ An SME (e.g. start-ups) identifies a market opportunity to apply the results of an EIC Pathfinder or ERC Proof of Concept project towards a specific market application. Uses licensing arrangement and could involve a collaboration

Product creation

✦ A team of entrepreneurial researchers within a RTI organisation want to turn selected project results into a viable product. Develop business model or creating a start-up. Can be relatively close to market or ready for investment (e.g. often with higher TRLs) and would therefore not need significant further technological development and lower funding.

End of project: ready for next stage, e.g. EIC Accelerator to seek investors or funding.



46

Excellence (Th 4/5)	Impact (Th 4/5)	Implementation (Th 3/5)
<ul style="list-style-type: none"> • Technological breakthrough <ul style="list-style-type: none"> • High degree of novelty of the technology compared to other technologies available or in development; • potential the novelty creates for new applications and functionalities • Technological feasibility <ul style="list-style-type: none"> • Potential for application the results of the technology demonstration and validation indicate so far • Objectives <ul style="list-style-type: none"> • Plausible potential applications identified • Appropriate objectives for the planned technology development and validation of the innovation in relevant application environments 	<ul style="list-style-type: none"> • Business and market fit <ul style="list-style-type: none"> • A activities proposed to develop the business model and product features address commercialisation and other relevant aspects • Involvement of potential users or customers to test potential demand and acceptability • Economic and/or societal benefits <ul style="list-style-type: none"> • Effectiveness of the proposed innovation and its related activities in creating substantial demand and new European or global markets • Other positive impacts the proposed innovation is expected to generate (employment, societal, environmental, scientific, etc.)? • Entrepreneurship <ul style="list-style-type: none"> • Suitable proposed measures to build a strong and motivated entrepreneur lead team with necessary competences in technology, product engineering, and business development to bring the innovation to the market • Partnerships and investment readiness <ul style="list-style-type: none"> • Effective proposed measures to become investment ready and develop plans to commercialise the project outcomes (including through IP management) • Identified key partners willing to be involved  	<ul style="list-style-type: none"> • Quality of the team <ul style="list-style-type: none"> • Necessary high quality expertise , capabilities and motivation to move decisively towards innovation, create a unique commercial value from the emerging technology and develop an attractive business and investment proposition of the applicant(s) • Milestones and work plan <ul style="list-style-type: none"> • Clearly described pathway towards deployment • Adequately and clearly defined milestones (measurable, timed, etc.) to track progress along the pathway and towards objectives • Coherent and effective work plan (work packages, tasks, deliverables, milestones, time line, etc.) the innovation methods and the risk mitigation methods in order to reach the milestones and to achieve the project objectives • Allocation of resources <ul style="list-style-type: none"> • Appropriate and effective allocation of resources (person months and equipment) to tasks and partners 

47

First step of evaluation

First step: 3 or more expert evaluations to score against criteria.
 Overall score: sum of the average of scores on individual criteria.

Then, a list of the highest scoring proposals is created – for twice the budget available.

Further ranking adaptations based on

- a correction for applications submitted by women-led SMEs or consortia (target min.: 30%)

If a proposal is below threshold in one of the three criteria, a resubmission in the following 12 months is possible. If two or more thresholds are missed, no resubmission is permitted within the following 12 months.

48



Second step of evaluation

The second step is a **face-to-face interview** with an EIC jury

At the interview you may be represented by a **maximum of five persons**

Only individuals mentioned in the proposal and involved in the future project implementation can represent your proposal at the interview

The jury will be composed of a **maximum of six members**, which may include an EIC programmemanager in charge of your area or managing one of the portfolios your project could be allocated to

During the interview you should **convincingly pitch your proposal to the jury**, who will ask you **questions aimed at clarifying various aspects of your proposal** in line with any of the evaluation criteria (in particular those regarding the quality of the team and the milestones) The jury will recommend your application for funding or not (**'GO' or 'NO GO'**) and will not provide a separate scoring against the criteria

You will receive **feedback from the jury**, as well as the ESR



49



Seal of Excellence

If your application is from an **individual SME** and meets all evaluation criteria at the first step but is **not selected for funding**, it may be awarded a 'Seal of Excellence'

To be eligible to receive a 'Seal of Excellence' you must give consent in your application that your **data can be shared with other funding bodies** (ESR, contact information)

EIC juries may recommend that your application does not receive a 'Seal of Excellence' if they find **weaknesses in your proposal** which were not identified by the expert evaluators.



50



Transition through IPR agreement

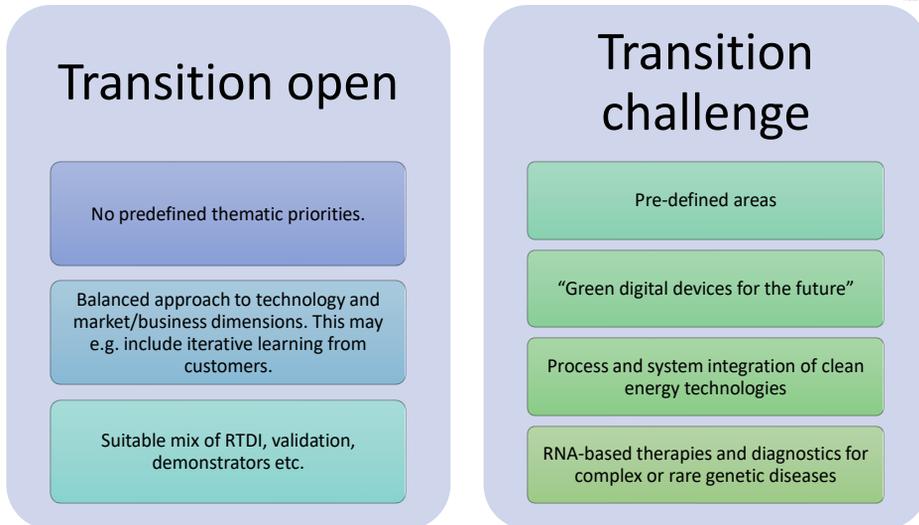
Proposals must build on results from an ongoing or finished project, funded as a result of a call in any relevant topic and clearly identified in the proposal. Proposals must include a declaration by the coordinator or the IP owner(s) of the necessary rights and ownership of results to be exploited, as described in the proposal.

Applicants that are not the owner of the result to be further developed in the proposal must provide a letter from the relevant beneficiary or beneficiaries of the previous relevant project that own(s) the result that confirms the existence of the necessary agreements with the applicants, including on IPR.

You do not need to be a participant of the previous project.



51



52



EIC Transition Challenges Draft only!



1 Green digital devices for the future

- Objectives
 - Demonstrate novel digital devices/architectures with a clear quantifiable advantage
- Expected outcomes
 - Novel information processing and storage devices and/or architectures based on new paradigms that exhibit a significant decrease in energy consumption while improving on speed/performance and miniaturisation.
 - Disruptive hardware components (e.g., memory technologies, logic devices, etc.) with significant progress towards the wafer-scale integration of computational building blocks and provide industry compatible solutions for memory, imaging, communication or computation technologies.
 - Novel designs of large-scale complete systems that include next generation information processing and storage devices with emphasis on compatibility, integration of different materials and technologies including CMOS.



53



EIC Transition Challenges Draft only!



2 Process and system integration of clean energy technologies

- Objectives
 - Development of energy technologies including renewable fuels enable the decarbonisation of the energy sector
 - facilitate the selection of different and appropriate applications and use cases, and integration of these sustainable technologies into existing and new energy systems and devices, both at component, process or at infrastructure level.
- Expected outcome
 - Energy generation/recovery/storage technology that demonstrates use case, clear qualitative measurement
 - Credible business model
 - Exploitation strategy



54

3 RNA-based therapies and diagnostics for complex or rare genetic diseases

- Objectives
 - Advance, beyond the state-of-the-art, RNA delivery methods, including robust mRNA formulations, that would enable effective and safe delivery of mRNA into the cells
 - Design, develop and preclinical validate of novel miRNA-, lncRNA-, tRNA- or siRNA-based therapies for complex or rare genetic diseases
 - Develop and validate novel RNA-based diagnostics and RNA-based predictive biomarkers that would allow for early and more accurate diagnosis and for favourable or non- post-treatment prognosis, respectively
- Expected outcomes
 - New technical solutions for more effective and safer RNA delivery (non-infectious diseases)
 - Utilisation of RNAs to classify sub-types of tumours (cf. Details)
 - New ideas for developing of RNA-based therapeutic platforms and drugs
 - Leading to mature and sound data for clinical trials
- You should develop R&D towards clinical evaluation; develop commercialisation strategy.



Q&A

Time to ask your questions!

