

HORIZON 2020 AND BEYOND

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Head of Sector and National Contact Point (NCP)

Secure Societies







Γ

The Israel Innovation Authority

Innovation Divisions



Technological Infrastructure



Startup



Growth



Societal Challenges



Advanced Manufacturing



International Collaborations & ISERD

The Different Needs of Israeli Hi-tech Firms Require <u>Different Policies and Tools</u>

Research infrastructure, disruptive technologies

Maintaining a s sufficient deal flow of tech startups and helping them reach fundable milestone

Helping tech firms grow in Israel

Supporting tech solutions for societal and public goals

Pushing the manufacturing industries to a sustainable competitive path

Enabling Israeli technology industry to find its path in the global arena









ISERD − Israel Europe R&IL Directorate



- > An **interface** between the Israeli government and the European Union **Encouraging** Israeli entities to participate
- Representing Israel in the programme committees of the EC
- > National Contact Point (NCP) for the different themes
- Information dissemination
- Assistance throughout projects' submission and management
 - ISERD aims at maximizing the benefits of Israel's participation in
 - L the Framework Programmes (FP)













HORIZON 2020

L European Framework Programme

- EU's main funding instrument for R&D (since 1984)
- Goals:
 - Strengthen the scientific & technological base of European Industry
 - Support EU policies and address major Societal Challenge
 - Create a "European Research Area" (ERA)
- Covering all major scientific and technological disciplines
- > Targeting the major European industrial sectors





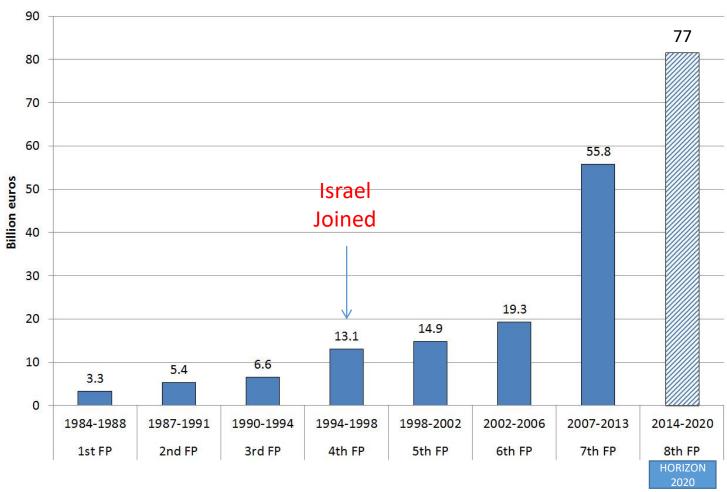






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Progression of FP Budgets Over Time











Funding Members of H2020



ASSOCIATED COUNTRIES (16)











L

Conditions for Participation

- MINIMUM CONDITION, general rule, at least Three independent participants from Three different MS or AC
- > ADDITIONAL CONDITIONS can be established by the Scientific Programme or Work Programme (number or type of participant, place of establishment)









Horizon 2020 - Structure

Excellent Science (€24.4 B)

European Research Council (€13.1B)

Future & Emerging Technologies (€2.7B)

Marie Skłodowska-Curie Actions (€6.1B)

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Infrastructures (€2.5B)

Industrial Leadership (€17 B)

Leadership in Enabling & Industrial Technologies

- ICT
- Nano, New Material
- Biotechnology
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Innovation in SMEs (€0.6 B)

Societal Challenges (€29.7 B)

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Food (€3.9 B)

Energy (€6 B)

Transport (€6.3 B)

Climate (€3 B)

Inclusive Societies (€1.3B)

Security (€1.7 B)

Spreading Excellence (€0.8 B)

Science for Society (€0.5 B)



JRC (€1.9 B)

Euratom (€1.6 B)

Who can Participate?

- Any undertaking, university or research centre or other legal entity, whether established in a:
 - Member State (MS)
 - Associated country (AC)
 - Third country
- Joint Research Centre (JRC)
- International organisations and participants from third countries - only in addition to the minimal participants required









The Evaluation Criteria



Three main criteria (max. score of 5 in each and 15 total) –

- Excellence (relevant to the topic of the call)
 Concept, objective, work-plan
- Implementation
 Individual participants and consortium as a whole
 Allocation of resources
- Impact

Contribution to expected impacts listed in work programme Plans for dissemination/exploitation

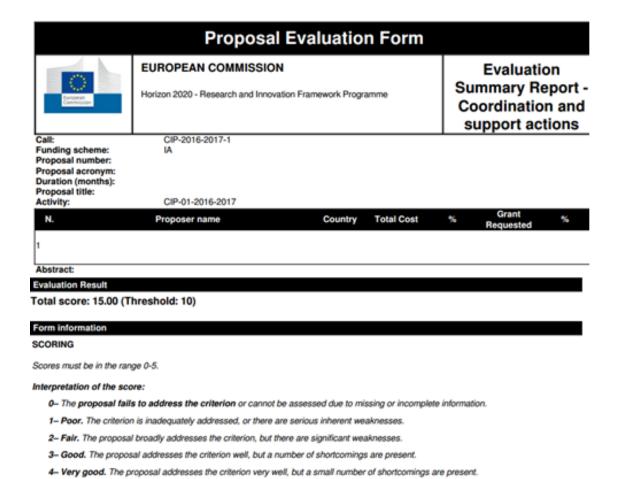








Evaluation Summary Report (ESR)



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









Evaluation Summary Report (ESR)

Criterion 1 - Excellence

Score: 5.00 (Threshold: 3/5.00, Weight: -)

The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme.

Clarity and pertinence of the objectives

Soundness of the concept, and credibility of the proposed methodology

Extent that proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)

Appropriate consideration of interdisciplinary approaches and, where relevant, use of stakeholder knowledge

Criterion 2 - Impact

Score: <u>5.00</u> (Threshold: 3/5.00 , Weight: -)

The following aspects will be taken into account:

The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the work programme under the relevant topic

Any substantial impacts not mentioned in the work programme, that would enhance innovation capacity, create new market opportunities, strengthen competitiveness and growth of companies, address issues related to climate change or the environment, or bring other important benefits for society

Quality of the proposed measures to:

- exploit and disseminate the project results (including management of IPR), and to manage research data where relevant
- communicate the project activities to different target audiences

Criterion 3 - Quality and efficiency of the implementation

Score: <u>5.00</u> (Threshold: 3/5.00 , Weight: -)

The following aspects will be taken into account:

Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables

Appropriateness of the management structures and procedures, including risk and innovation management

Complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise

Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role









Types of Action

Action	Funding*	Technology Readiness Level (TRL)	Main Characteristics
RIA – Research & Innovation Action	100% + 25%	Low TRL (4-6)	Basic and applied research , technology development and integration, testing and validation on small-scale prototype in laboratory or simulated environment
IA – Innovation Action	70% + 25%	High TRL (6-8)	Prototyping , testing, demonstrating, piloting, largescale product validation and market replication
CSA - Coordination & Support Action	100% + 25%		Networking , coordination or support services , policy dialogues and mutual learning exercises and studies

^{*} Non profit – always 100%









Technology Readiness Level



- TRL 1 basic principles observed
- TRL 2 technology concept formulated
- > TRL 3 experimental proof of concept
- TRL 4 technology validated in lab
- > TRL 5 technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- > TRL 6 technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- > TRL 7 system prototype demonstration in operational environment
- TRL 8 system complete and qualified
- > TRL 9 actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)









Eligible Costs



- Actual costs (personnel or other)
- Incurred during duration of project
- In accordance with the beneficiary's usual accounting
- Recorded in the accounts of beneficiary
- Used for achieving the objectives of the project

No	Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub-contracting/€	(D) Direct costs of providing financial support to third parties/€	contributions not used on the		(G) Special unit costs covering direct & indirect costs / €	(H) Total estimated eligible costs / € (=A+B+C+D+F +G)	(I) Reimburse- ment rate (%)	(J) Max.EU Contribution / € (=H*I)	(K) Requested EU Contribution/ €
	Total		0	0	0	0	0	0,00	0	0,00		0,00	0,00









Payment



- > One pre-financing Usually at least 30% of the project's approved budget (max. amount is the total grant divided by the number of periods minus 5%)
- > Interim payments Based on financial statements submitted at the end of the period
- > Final payment Retention (at least 10%) + Guarantee Fund (5%)









Guarantee Fund

- Participants are responsible for carrying out the project jointly and have to carry out the work of a defaulting participants
- > All beneficiaries contribute to the Fund to insure against losses of a defaulting participant
- > The contribution shall not exceed 5% of the EC financial contribution due to each participant
- Financial interests generated by the Fund will serve to cover financial risk
- In principle this amount will be reimbursed at the end of the action









Consortium - Legal aspects

- > The <u>GRANT AGREEMENT (GA)</u> is the legal agreement between the European Commission and the Consortium. It states the amount of the grant and all legal provisions.
- ➤ The <u>DECLARATION OF HONOUR (DoH)</u> is the declaration submitted to the European Commission that all information about the entity is correct
- > The CONSORTIUM AGREEMENT (CA) is a document that partners finalize amongst themselves which allows them to define in detail the administrative and management provisions necessary to carry out their project. The European Commission is not part of this agreement









IPR – Intellectual Property Rights



Each participant owns the foreground it generated

JOINT OWNERSHIP: When foreground is generated jointly – the joint owners must reach an agreement IN WRITING

ACCESS RIGHTS:

- Granting licenses and user rights to another participant's results or background. Beneficiaries can benefit from each other's resources, and consequently take full advantage of the collaboration.
- As established in the Model GA, Access rights to another beneficiary's results and/or background are only to be granted if the requesting beneficiary needs such access in order to carry out its part of the project or to exploit its own results.
- In order for the beneficiaries to exercise their access rights, this must be requested in writing.









Submission Timeline

Proposal Preparation

(4-6 months before deadline) Proposals Evaluation (up to 5 months) Grant
Agreement
Preparation
(GAP) phase
(~3 months)











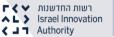


Topic (Call)
Deadline –
Proposal
Submission

ESRs sent and winners announced GA signed –
projects start
and become
public
knowledge

~ 8 months









Israeli Results in H2020 To Date

Submitted Pa	12,159		
Successful Pa	1,725		
	Industry	744	
Success by sector:	Universities	849	
	Others	132	
Submitted F	10,519		
Successful I	1,420		
Success	13.5%		
Value of Tamadi amanta.	Industry	349 M€	
Value of Israeli grants: 1.06 B€	Universities	690.7 M€	
1.00 be	Others	22 M€	

*H2020 Dashboard, 22.06.2020









How to Proceed?

- Contact ISERD representative
- Read the Work Programme/s (WP) carefully
- Get familiar with the <u>Funding</u> and <u>Tenders Portal</u>
- Identify the subject/s of your expertise/interest in the WP
- Verify that the relevant call is open
- Check for "best fit" topic/s

Horizon 2020 - Work Programme 2018-2020
Secure societies - Protecting freedom and security of Europe and its citizens

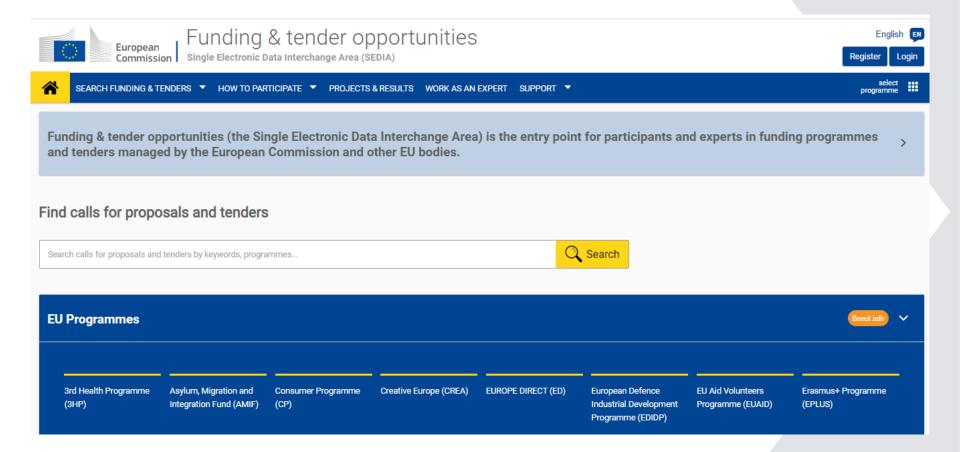
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Funding and Tenders Portal











Know Your Topic

- Topic title
- The challenge a solution is needed for
- Expected budget
- Expected impact of your project
- Type of action

SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

<u>Specific Challenge</u>: Disruptions in the operation of our countries' critical infrastructure may result from many kinds of hazards and physical and/or cyber-attacks on installations and their

Indicative budget: The Commission considers that proposals requesting a contribution from the EU of about EUR 7 to 8 million would allow this topic to be addressed appropriately. Nonetheless this does not preclude the submission and selection of proposals requesting other amounts

Expected Impact:

- Creation of dedicated, harmonised, advance cybersecurity solutions for smart cities adopting common approaches with all involved stakeholders (e.g. administrators of smart city/port/transport) balancing their – sometimes conflicting – goals (e.g. urban development, efficiency, growth, competitiveness, resilience).
- In situ demonstrations of efficient and cost-effective solutions to the largest audience, beyond the project participants.

Type of Action: Innovation action









Next Steps

Idea: Do you fit into the topic description?

Form a Consortium:

- Use your network
- Use your National Contact Point (NCP)
- Matchmaking events
- Identify the European leading groups in the field
- Search Previously funded projects

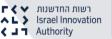
Write a Proposal:

You can get help from:

- National Contact Point
- Horizon 2020 Online Manual
- Experienced colleagues
- Consultants

Parallel Process!









Prepare and Submit a Proposal



- 1. Find a call topic relevant to your field of expertise
- 2. Find partners (& If you will lead and coordinate or join others)
- 3. Write & submit a proposal before deadline









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Euratom (€1.6 B)

EIC Accelerator Pilot

How does the Accelerator work?

For developing and scaling up high-risk innovations

All funding is open no predefined thematic areas

Grant funding of up to €2.5 million -70% of costs

> Option of an equity investment of up to €15 million

Access to EIC coaching and mentoring services, pitches with corporates, VCs, etc.

EUROPEAN INNOVATION COUNCIL eic

The EIC Accelerator pilot





- · Open to SMEs/start-ups anywhere in Europe, in any field, at any time
- Highly competitive (~4% of applications funded so far)
- · Selection by leading experts, innovators and investors

Founder friendly:

- · Non-dilutive grant funding and non-intrusive equity
- Coaching, mentoring and business acceleration services
- Access to further finance, knowledge and commercialisation partners

For disruptors:

- · High-risk, high-potential innovations that can create new markets
- · For risk levels above traditional VCs and bank finance

For scale-up potential:

- Innovations that address European & global markets
- Funding of up to €2.5 million (grant) and up to €15 million (equity)









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EIC Accelerator Pilot



- ONLY <u>SMES</u> allowed to apply for funding support
- Participation of one SME
- > **BOTTOM-UP** approach
- Continuously open call with 4 CUT-OFF DATES PER YEAR
- Combination of research, demonstration activities (testing, prototyping,...), market replication, encouraging the involvement of end users or potential clients...
- > SME Instrument useful information:
- SME Instrument <u>Funded projects</u>:
- Templates for submission Phase 2
- All SMEs must fill out a <u>Self Assessment</u> before submission









Fast Track to Innovation (FTI)











Fast Track toInnovation (FTI)



- > Follows **bottom-up** logic
- Continuously open call with 3 cut-offs per year
- > Time-to-grant 6 months
- Funds innovation actions (70%)
- Grant up to €3M
- Allows consortia of min. 3, max. 5 members mandatory industry involvement
- Impact criterion has higher weighting in evaluations
- Sales are expected within 3 years
- All projects should start at TRL 6 and end at TRL 8









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ISERD Aid Fund

> <u>Route 37a</u> – Provides support to entities from the industry to participate in H2020 topics.

Eligible reimbursements of 75% of up to 40,000 NIS for – Travel to a PS event, hosting potential partners in Israel, and the cost of a consultant to help write the proposal

<u>Route 37b</u> – Provides select companies long term support in H2020.

Eligible reimbursements of 85% of up to 70,000 NIS over 3 years for – Participation in cPPP, JTI, JU or other initiatives, as well as costs for a consultant to help write the proposal (coordination is expected from the company)









Red Team

"A red team is an independent group that challenges an organization to improve its effectiveness by assuming an adversarial role or point of view."

- Wikipedia

The Red Team service is a national full proposal check -

- It is free of charge
- It uses expert reviewers of the Innovation Authority (some are also H2020 reviewers)
- All reviewers have signed NDA with the Innovation Authority
- The identity of the reviewer is classified
- The full proposal must be submitted at least a month in advance of the topic deadline by 10:00
- For EIC Accelerator and FTI
 - Not eligible if this is a first time submission
 - Limited to twice for each company









Become an Expert Evaluator



Roles: Evaluator, monitor, independent observer

The **benefits** of being an **evaluator**:

- Learning the process and evaluating
- Learning the current thinking and state of the art
- Meeting evaluators from across Europe and themes
- Become part of the community
- Fully electronic process on funding portal
- Confirm availability for Horizon 2020
- Expert rotation



Industrial background / Female candidate might give an advantage











Horizon Europe

THE NEXT EU RESEARCH & INNOVATION INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

Based on the Commission Proposal for Horizon Europe, the common understanding between co-legislators and the Partial General Approach, both approved in April 2019











Horizon Europe - Goals

The ambitious EU research and innovation framework programme (2021-2027)



to strengthen the EU's scientific and technological bases and the European Research Area (ERA)



to boost Europe's innovation capacity, competitiveness and jobs



to deliver on citizens' priorities and sustain our socio- economic model and values

The Commission proposes a budget of € 100 billion for HE









Horizon Europe (2021-2027)

Pillar 1

Excellent Science

25.8 M€

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures

52.7 M€ Pillar 2

Global Challenges and European Industrial Competitiveness

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

Pillar 3

Innovative Europe

13.5 M€

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system









Horizon Europe - Missions

Adaptation to climate change, including societal transformation



Healthy oceans, seas, coastal and inland waters



Mission areas



Climate-neutral and smart cities





Soil health and food



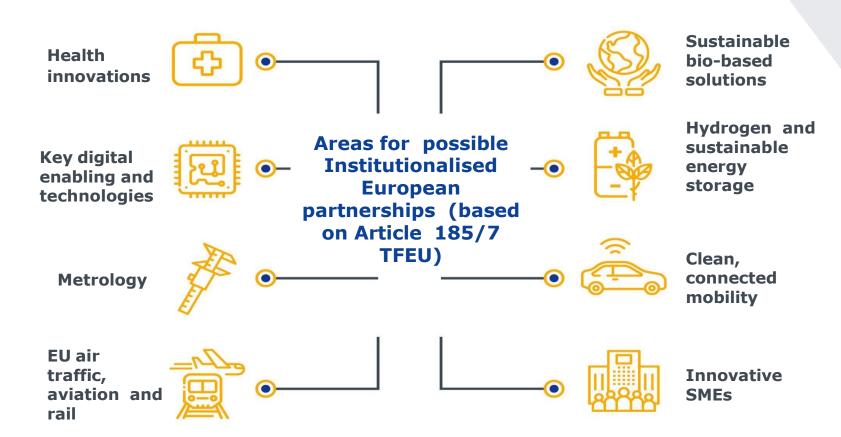






New Approach to L European Partnerships













Horizon 2020 – Remaining Calls

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Security (€1.7 B)

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Science for Society (€0.5 B)



JRC (€1.9 B)

Euratom (€1.6 B)

European Research Council (ERC)

STG Starting Grants (2-7 years after PhD)

up to €1.5 Million for 5 years + up to €1 Million COG Consolidator Grants (7-12 years after PhD)

up to €2 Million for 5 years + up to €1 Million ADG
Advanced Grants
10 years' track-record

up to €2.5 Million for 5 years + up to €1 Million



Deadline: 26/08/2020







Future and Emerging Technologies L (FET)

FET Open -Novel ideas for radically new technologies

> FET Proactive – Boosting emerging technologies

FET Proactive – High performance computing

FET Flagship Tackling grand
interdisciplinary
science and
technology
challenges

<u>Deadline:</u> <u>OPEN - 14/10/2020</u>









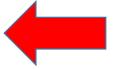
Marie Skłodowska-Curie

Innovative Training Networks (ITN):

Joint research training or doctoral programmes bring together universities, research institutes and other sectors from across the world to train researchers to doctorate level and develop excellent doctoral programmes.

Individual Fellowships (IF):

Fellowships for postdoc researchers of any nationality enabling them to move across borders within and outside Europe, sectors and disciplines.



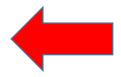
Research and Innovation Staff Exchanges (RISE):

Short-term exchanges of personnel between universities, research institutes and other sectors throughout the world.

Deadline: IF - 09/09/2020 CO-FUND - 29/09/2020

Co-funding of regional, national and international programmes (COFUND):

Provides organisations in Europe with financial support for their own doctoral, postdoctoral and career development programmes.



The European Researchers' Night (NIGHT):

Annual public event promoting research that takes place in September and attracts 1.5 million visitors in over 370 cities across Europe and beyond.











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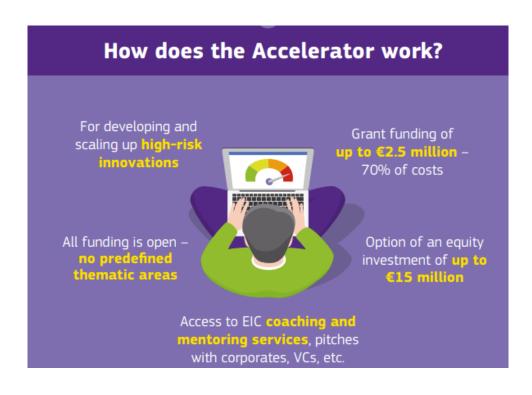
Science for Society (€0.5 B)



JRC (€1.9 B)

Euratom (€1.6 B)

EIC Accelerator Pilot



- Interview week 16-20/11/2020
- Emphasis on women led companies (CEO or equivalent)



Deadline: 07/10/2020







Fast Track to Innovation (FTI)





Deadline: 27/10/2020







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Secure, Clean and L Efficient Energy

- Smart citizen-centred energy system (ES)
- > Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive Industries (NZE)
- Global leadership in renewables (RES)
- Smart Cities and Communities (SCC)
- Buildings in energy transition (B4E)
- Smart and clean energy for consumers (EC)





Deadline:

ES & NZE & RES & SCC - 01/09/2020 B4E & EC - 20/09/2020







Secure Societies

INFRA (€15 M)

Protecting Infrastructures

 Cyber- & physical security to critical infrastructures

SEC Security

AI (€20 M) Artificial Intelligence

 AI capacities and technologies

DS (€68.8 M) Digital Security

- Cyber-security
- Privacy and Data Protection

DRS (€39 M) Disaster-Resilient Societies

- Human factors
- Technologies
- Prenormative Research
- CBRN, pandemics

FCT (€55 M)

Fight against Crime and Terrorism

- Human factors
- Technologies
- Data management

BES (€36 M)

Borders and External Security

- Human factors
- Technologies
- Demo of solutions



Deadline: 27/08/2020







Green Deal



Area 1:
Increasing
Climate
Ambition:
Cross
sectoral
challenges

Area 2: Clean, affordable and secure energy Area 3: Industry for a clean and circular economy

Area 4: Energy and resource efficient buildings

Area 5: Sustainable and smart mobility

Area 6: Farm to Fork Area 7: Ecosystems and Biodiversity Area 8:
Zeropollution,
toxic free
environment

Area 9: Strengthening our knowledge in support of the European Green Deal

Area 10: Empowering citizens for the transition towards a climate neutral, sustainable Europe

Area 11: International cooperation (focus on cooperation with Africa and the Mediterranean)









Additional Calls



Aside from Horizon 2020 there are at times additional calls for proposals –

- ><u>Joint Undertakings</u> (JU) Partnerships with the industry
- ▶ Public-Private Partnerships (PPP) Long term contracts between a government body and a nongovernment partner that enable innovative technologies to get to the market faster
- <u>Prizes</u> Meant to solve major challenges faster



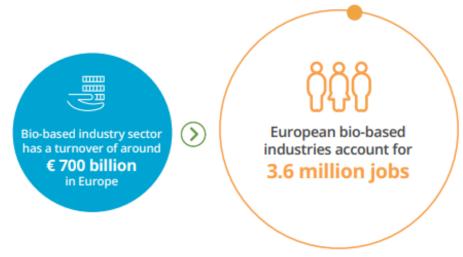






■ Bio Based Industry Market (BBI)

- > Renewable biological resources & conversion to food, feed, and products
- > Sustainably-sourced biological raw materials (biomass), as the basic materials for producing bio-based chemicals and materials
- > Biorefineries convert biomass to bio-based products, such as feed, fibres, materials, and chemicals





רשות החדשנות ► \ Israel Innovation

✓ \ \ \ Authority





Innovative Medicine Initiative (IMI)

- > Improve the medicines development process and make it more efficient
- > Ensure that patients will have faster access to better and safer medicines
- > Finding innovative solutions to the most pressing medical burdens of our time, including antimicrobial resistance, dementia, and diabetes





Deadline: 29/09/2020







Prizes



Deadline: 01/09/2020



Deadline: 01/06/2021



Deadline: 03/02/2021



Deadline: 03/02/2021













We hope to hear from you soon

Good luck!





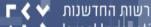




THANK YOU

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