



Government
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Canada

Horizon Europe and Canada

S&T Counsellor Aslin Unlusoy
Mission of Canada to the European Union

Overview

- Canada EU STI, overview of Horizon Europe
- Canadian participation and association
- Horizon Europe Pillar II: who, what, when, where, why and how
- Q&A and next steps

#HorizonEU #HorizonEurope #CanadaEU #Canada #Innovation #Research
#StrongerTogether @HorizonEU @Canada2EU @Aslin_Unlusoy



Canada EU STI Summary

- Canada and the EU: strategic, close, like-minded partners
- Excellent cooperation in many areas: health, ocean, aviation, smart cities, bioeconomy, raw materials, agriculture, and researcher mobility
- 1996 Canada-EU Agreement for Scientific and Technological Cooperation
 - flow of information and people but no dedicated funds



Horizon Europe Overview & Canadian Participation

- The EU's and world's largest Research & Innovation Funding Program
- C\$140 billion budget for 2021-2027; 35% climate change mitigation
- Canada 3rd most active after US & China (24 non-associated members)
- Participation 59% in Pillar 1 & 36% in Pillar 2: Health, Food, Transport, Climate



Horizon Europe and Canada – Association to Pillar II

- Canada seen as a trusted, reliable partner, strong innovator, easy to collaborate with
- **Canadians considered “associate country participants” Pillar II as of Dec 5, 2023**
- **Direct EC funding, a core partner, retain IPR, can lead and host research in Canada**
- Pillar II 2024 project calls, close date on/after Dec 5, 2023, evaluated as beneficiaries to receive grants DIRECTLY from the EC once provisional application begins
- **APPLY NOW** to be considered as process can take 8 months from deadline
- Eligible: researchers, businesses, institutions, universities, associations, org., etc.



Horizon Europe Pillar I – Excellent Science

- Research Grants: European Research Council's Synergy Grants
 - Bold scientific challenges in any field of research (max C\$14.5m, 6 years)
- Research Infrastructures (Canada has existing agreements)
 - Integrated/interconnected world class research infrastructures
- Researcher Mobility: Marie Skłodowska-Curie Actions C\$9.6 billion
 - Hosting researchers across borders in top institutions



Horizon Europe Pillar III – Innovative Europe

Accelerator

- Innovative Start-ups/SMEs ready to scale up TRL 6 to 9
- Selected Canadians would have to relocate to the EU (or PIII associated country)
- June 2023, 51 deeptech cos, 17 countries, shared C\$380 million in funding
- Next [deadline](#): March 13, 2024



Horizon Europe Pillar II – 5Ws

*** Direct EC funding, a core partner, retain IPR, can lead and host research in Canada ***

What: importance, ~ C\$10 billion a year, six clusters – EC DG Innovation

Why & Who: capabilities, 3-5 yrs to develop, connect w markets & clients – Spain

How & When: process, networks, published project calls, timelines - UK

Support: NCPs, research offices, facilitate collaboration w Europeans – Germany

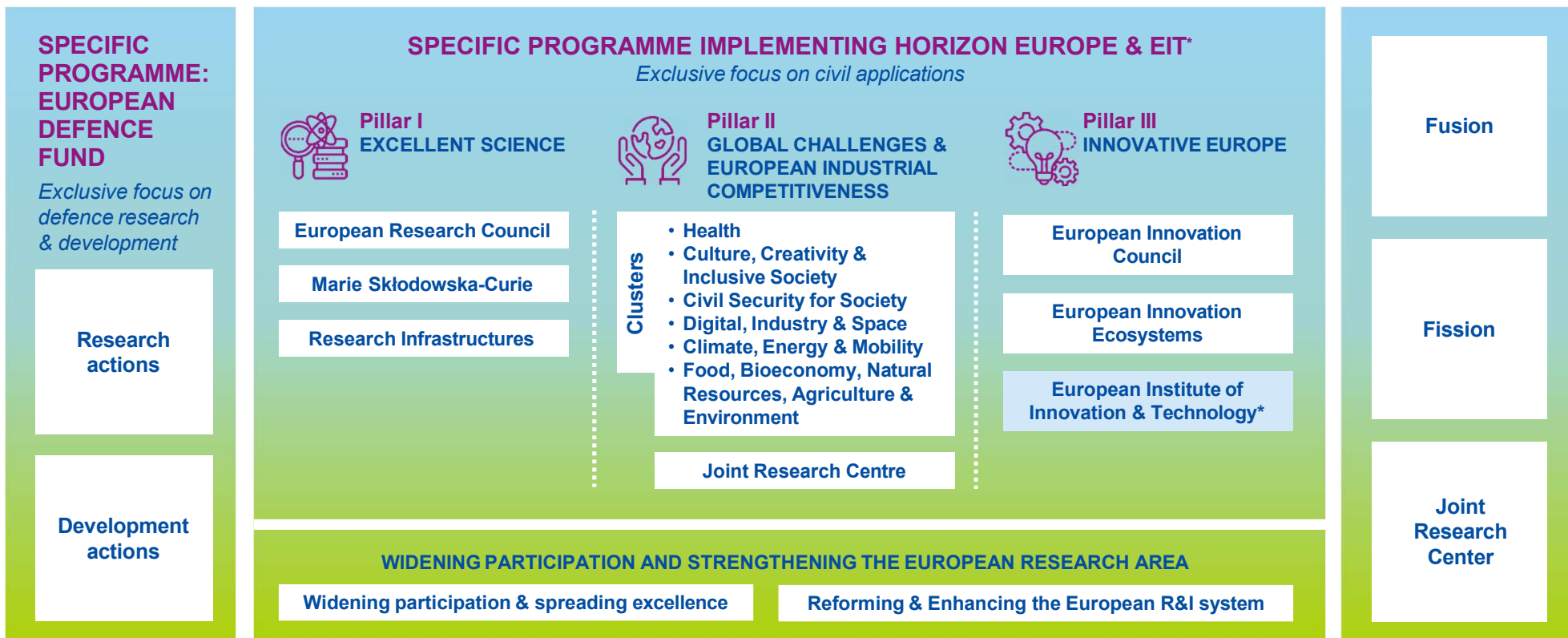
Best Practices: Canadian success stories WINNER and FlexSNG

Next Steps: Canadian NCPs, online material, regional/sectoral webinars – ISED & GAC



HORIZON EUROPE

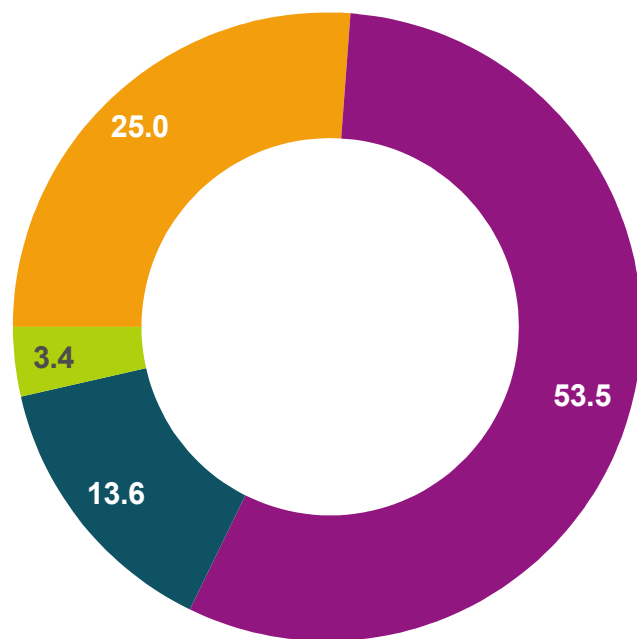
EURATOM



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Horizon Europe Budget: €95.5 billion (2021-2027)

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



Political agreement December 2020

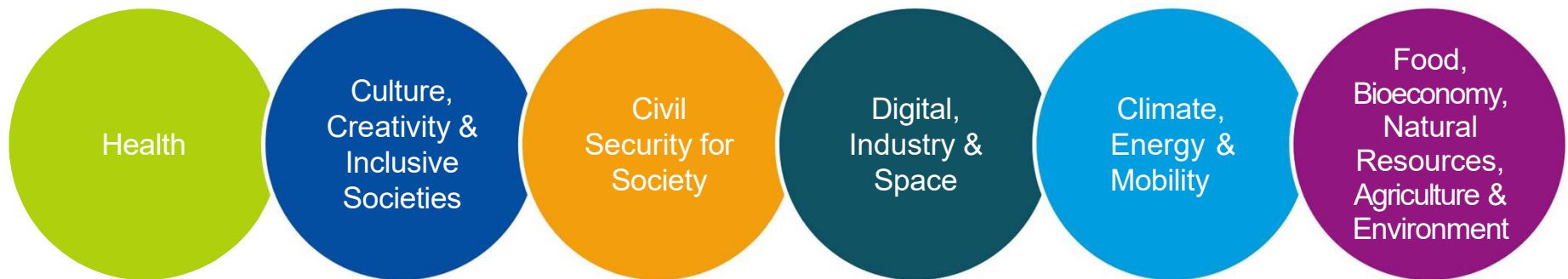
€ billion in current prices

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

Pillar II - Clusters

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS:

boosting **key technologies** and solutions underpinning **EU policies & Sustainable Development Goals** (6 clusters and JRC – non-nuclear direct actions)



€53.5 billion

Pillar II

Budget for clusters & for JRC

in current prices

Cluster 1	Health	€8.246 billion (including €1.35 billion from NGEU)
Cluster 2	Culture, Creativity & Inclusive Societies	€2.280 billion
Cluster 3	Civil Security for Society	€1.596 billion
Cluster 4	Digital, Industry & Space	€15.349 billion (including €1.35 billion from NGEU)
Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	€8.952 billion
	JRC (non-nuclear direct actions)	€1.970 billion

Clusters are including a budget for Partnerships and Missions
NGEU is Next Generation EU programme – Recovery Fund

About the Horizon Europe Work Programmes

The Work Programmes are the key documents for potential participants.

They list all the topics where proposals are invited (Calls for Proposals), as well as providing the descriptions of what is expected (scope), expected budget and eligibility criteria.

- WP 2021 – 2023 CLOSED
- WP 2023- 2024 CURRENT
- WP 2025 UPCOMING (Spring 2025)
- WP 2026-2027 UPCOMING

Consortium Composition

Unless otherwise provided for in the specific call conditions, consortia submitting a proposal must include as beneficiaries (ie receiving EU funding) at LEAST three legal entities independent from one another and each established in a different country as follows:

- at least one in an EU Member State
- at least 2 other independent legal entities, each established in a different MS or Associated Country

Why participate?
Who can participate?



Why make the effort to participate in HE?...

- ✓ Enlarging your **knowledge and/or capabilities**
- ✓ But also for **networking**
- ✓ Influencing **the programme and its initiatives!**



...in addition to the grant!



Who can participate?

Open Strategic Autonomy for a competitive and resilient EU



An operator works in a German microchip plant. | © EFE/EPA/Hannibal Hanschke

The Open Strategic Autonomy was one of the main topics of the informal meeting of EU heads of state or government in Granada. The aim is to move towards a more competitive and resilient EU in the face of global technological and geopolitical transformations.

All sort of ENTITIES can participate to HE calls but there are **limitations**:

- ✓ **Security sensitive** research
- ✓ **European Strategic Autonomy**

<https://spanish-presidency.consilium.europa.eu/en/programme/open-strategic-autonomy-spanish-presidency-eu-council-resilient-eu2030/>



Keys for success in Horizon Europe:

- ❑ **Anticipation**
- ❑ short-mid-long term **planning** → **Results in 3-5 years**
- ❑ **Networking** a EU/International level



And for that, you have support at:

- ✓ **National** level → National delegates & National Contact Points (NCPs), **your office in Brussels**, ...
- ✓ **European** level → EU bodies (EC, Agencies,...), EU technology platforms and associations ...



Few tips and ideas...

- ✓ Value your contacts
- ✓ Who is doing what → through the “Participant Portal”, CORDIS...



- ✓ Become an evaluator or expert → EC Advisory Boards
- ✓ Answer public consultations!
- ✓ Attend forums and events of your sector, and other sectors!
- ✓ Stay updated → eg. Politico, Science Business, Science Europe, Guild





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Horizon Europe and Canada

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Horizon Europe - Welcome for Canada

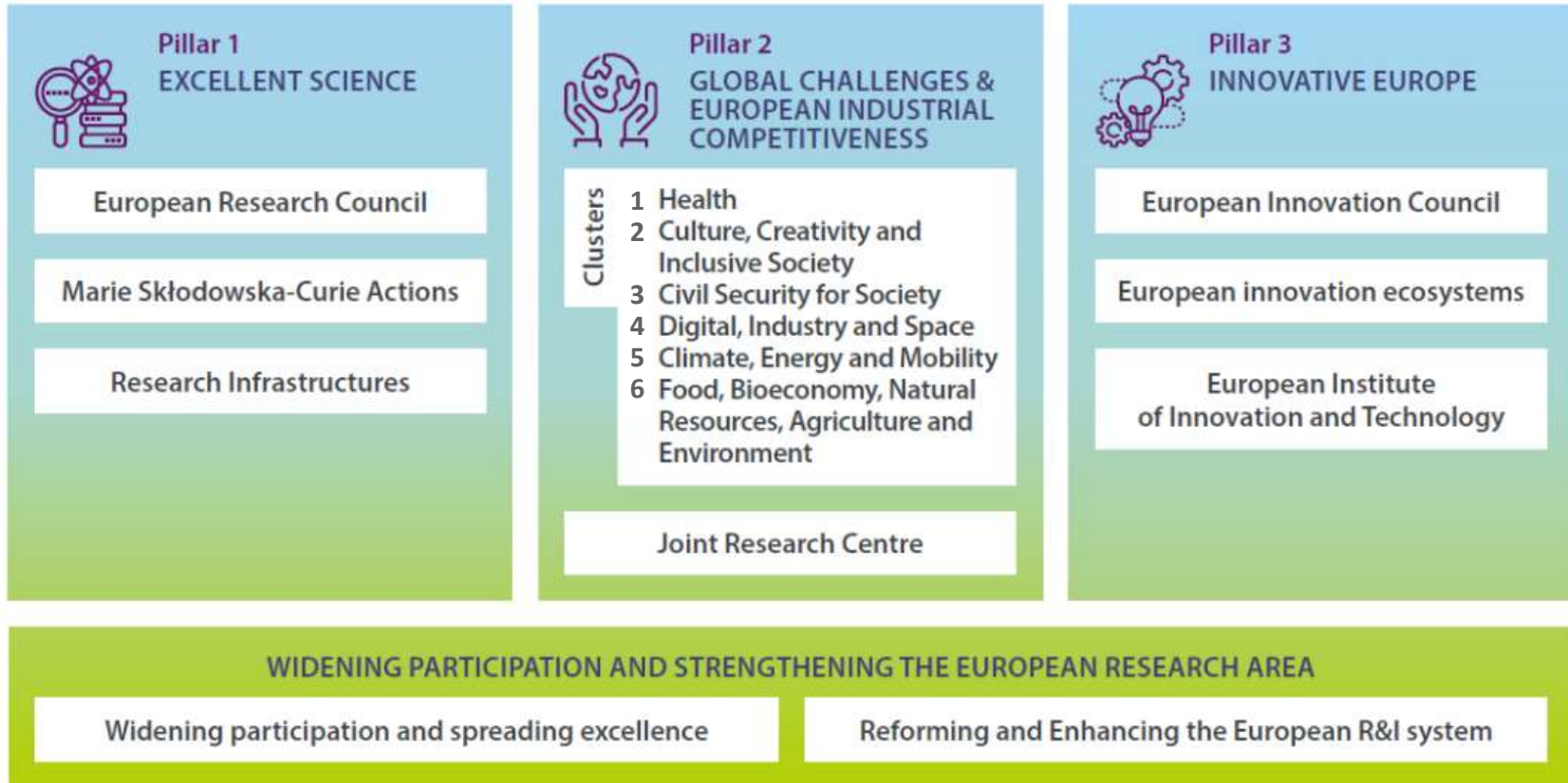
Louise Mothersole
Horizon Europe UK National Contact Point for Mobility
Louise.Mothersole@IUK.UKRI.org
25 January 2025



HORIZON EUROPE

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

Where can I find 'my' €0.5m in this €95,500m bucket?



Horizon Europe Competition Structure

Horizon Europe

└ Pillar

└ Cluster

└ Destination

└ Call for Proposals

└ Topic

- **'Topic'** is the level at which proposals are submitted against a specified scope for a share of a specified budget, i.e. [the competition happens here](#)
- Topic Identifier 'code' is [PROGRAMME]-[YEAR]-[CLUSTER]-[CALL]-[TOPIC]
 - e.g. HORIZON-2024-CL5-01-01 (reading backwards) is the first Topic in the first Call for Proposals in Cluster 5 in 2024 in Horizon Europe

Funding rates and main types of Action

Research and Innovation Action (RIA)

- Typically, low(ish) Technology Readiness Level
- Consortium of at least three different legal entities from three different eligible countries (all UK and Canadian legal entities are classed as eligible). At least one consortium member must be from a Member State (MS)
- All participants receive 100% of eligible direct costs plus 25% for indirect costs

Innovation Action (IA)

- Typically, high(er) Technology Readiness Level
- Consortium of at least three different legal entities from three different eligible countries. At least one must be from a MS
- All not-for-profit participants receive 100% of eligible direct costs plus 25% for indirect costs
- All for-profit participants receive 70% (60% for some co-programmed partnership Topics) of eligible direct costs plus 25% for indirect costs

Coordination and Support Action (CSA)

- As name suggests, for coordinating and supporting activities such as working groups, networking, regulation review, communications, organising EU conferences, etc
- Formally do not need a collaborative approach but often do to meet the scope. Must have at least one partner from a MS
- All participants receive 100% of eligible direct costs plus 25% for indirect costs

EU Funding and Tender Opportunities Portal

All Topics (competitions) are published on the EU's [Funding and Tender Opportunities Portal](#)

- Create a personal login (top right) then 'Register your organisation' (in 'How to participate') to get a Participant Identification Code (PIC)
- Each Topic (competition) has its own webpage (in '[Search Funding & Tenders](#)') with everything you need to know – read it all (expand the sections to see the More Info...)

The screenshot shows a web browser window with the URL ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register. The page header features the European Commission logo and the text "Funding & tender opportunities Single Electronic Data Interchange Area (SEDIA)". In the top right corner, there are "Register" and "Login" buttons, with a pink arrow pointing to the "Register" button. A dark blue navigation bar contains the following menu items: HOME, SEARCH FUNDING & TENDERS, HOW TO PARTICIPATE (highlighted in yellow), PROJECTS & RESULTS, WORK AS AN EXPERT, and SUPPORT. A dropdown menu is open under "HOW TO PARTICIPATE", listing "Key steps", "Reference documents", "Participant register" (highlighted in yellow), and "Partner search". A pink arrow points to the "Participant register" option. Below the navigation bar, the main content area is titled "Participant Register" and includes a "Need help?" button. A blue information box on the left states: "The participant register is now multilingual!". At the bottom of the page, a text box reads: "If you want to participate in a call for proposals or in a call for tenders with eSubmission, your organisation needs to be registered and have a 9-digit Participant Identification Code (PIC). Please quote your PIC in all correspondence with the Commission."

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Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

Register Login

HOME SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Search funding & tenders
Funding updates
Archived funding (FP7-CIP)

399 item(s) found

Search by keyword...

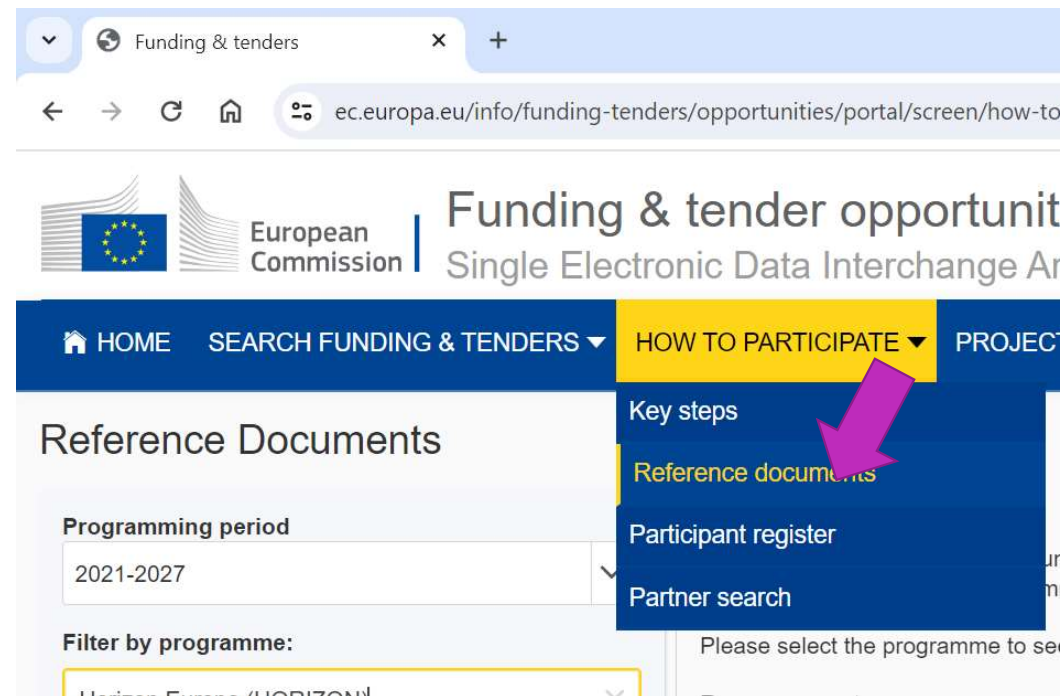
Match whole words only

Programme Horizon Europe (HORIZON)

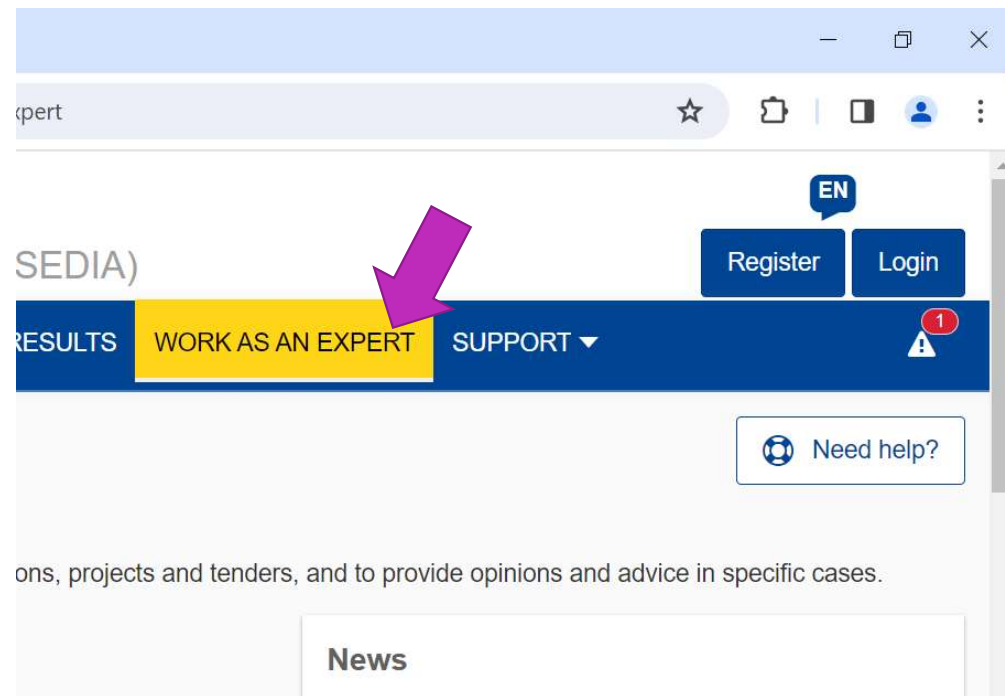
Need help?

EU Funding and Tender Opportunities Portal – Top Tips

- Reference Documents section in How to Participate contain the PDF version of all the Work Programmes (competitions) – much easier to read and includes individual budgets, etc. Read both PDF **and** the Topic webpage as latter has links to other documents
- Register as an Expert – these are the proposal Evaluators and evaluating other people’s proposals gives you great insight into the process and what the evaluators are told to look for



The screenshot shows the top navigation bar of the EU Funding & tender opportunities portal. The 'HOW TO PARTICIPATE' menu is expanded, showing options: Key steps, Reference documents (highlighted with a pink arrow), Participant register, and Partner search. Below the navigation bar, the 'Reference Documents' section is visible, featuring a 'Programming period' dropdown set to '2021-2027' and a 'Filter by programme:' dropdown set to 'Horizon Europe (HORIZON)'. The European Commission logo is visible on the left.



The screenshot shows the top navigation bar of the EU Funding & tender opportunities portal. The 'WORK AS AN EXPERT' button is highlighted with a pink arrow. To the right of the navigation bar are 'Register' and 'Login' buttons, and a language selector set to 'EN'. Below the navigation bar, there is a 'Need help?' button and a section titled 'News'.

Useful sources of Information

- EU Science and Innovation [YouTube Channel](#)
 - [Funding and tender opportunities portal for beginners](#)
 - [How to appoint a LEAR](#) – Legal Entity Appointed Representative
 - [How to prepare a successful proposal for Horizon Europe](#)
- [CORDIS](#) – every research and innovation project ever funded by EC
 - Search using keywords to find already funded projects and their participants (link with ‘Horizon Europe’ and ‘Project’ [filters pre-applied](#))
 - Ideal way to find potential partners (with a proven track record of success) for consortium forming



UK Research
and Innovation

Thank you

Twitter X: [@UK_Mobility_NCP](#)

Email: NCP-Mobility@iuk.ukri.org

Newsletter Subscription: <https://eufunding.ukri.org/subscribe>



Advice for participating in Horizon Europe



Take a strategic approach when planning your participation (Why? With whom? When?)



Build a network: make yourself visible and engage in stakeholder platforms etc.



Take enough time for preparation, read the call text carefully (details might be crucial)



Participate as expert evaluator, in advisory groups, etc.



Ask for advice and support!





WINNER: Wireless World Initiative New Radio

The WINNER Experience → A Winning Experience



WINNER: The world's largest collaborative research project in the ICT (information and communications technologies) area

- 01 Jan 2004 – 31 Dec 2007 (48 months) (Framework Programme 6)
- 40 partner organizations (academia and industry)
38 from Europe + 1 from China + 1 from **Canada** (Carleton University)
~200 researchers across several work packages
- Total cost: € 43,462,522 (→ € 100M)
- Carleton's support: NSERC SRO (Special Research Opportunities) Fund
- Outcome: WINNER → 4G LTE (the most successful mobile standard)

The WINNER experience: “The whole is greater than the sum of its parts”

- Working together in large-scale collaborative research projects towards a coherent whole
- Culture | management | decision making
- Reporting



FlexSNG – Flexible Production of Synthetic Natural Gas and Biochar via Gasification of Biomass and Waste Feedstocks

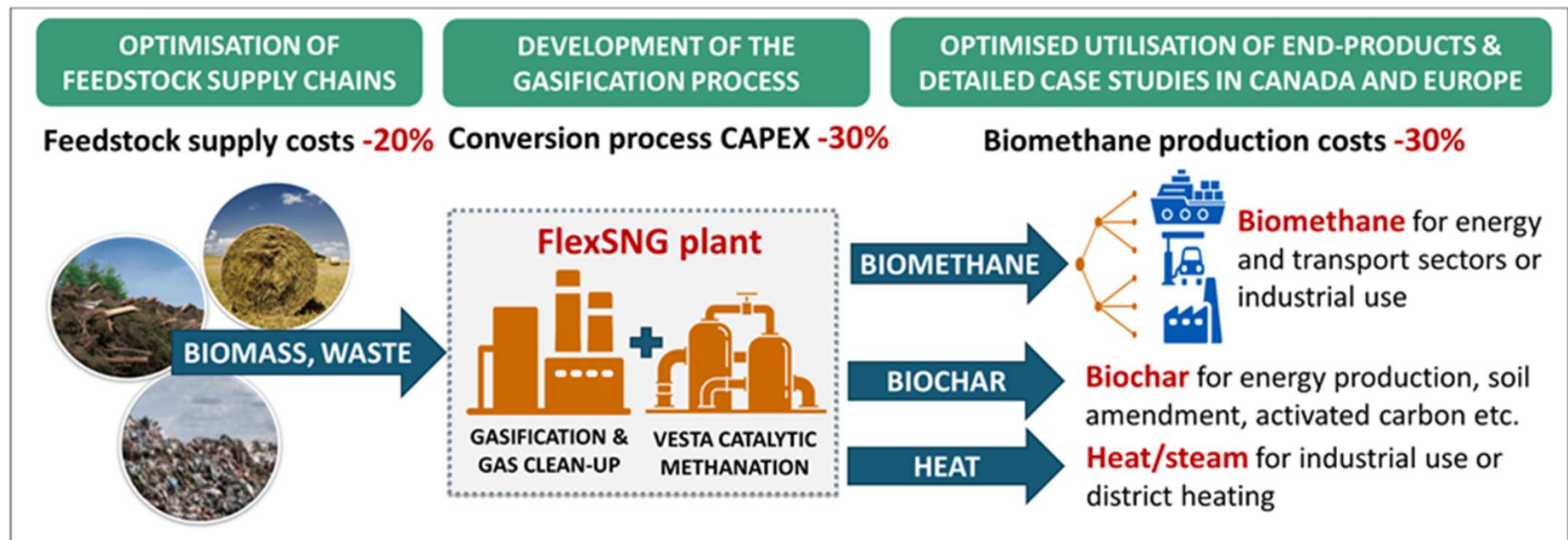
Project overview and experience



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101022432.

FlexSNG Project

Our vision is to develop and validate (TRL5) a **flexible and cost-effective gasification-based process** for the production of **pipeline-quality biomethane, high-value biochar and renewable heat** from a wide variety of **low-quality biomass residues and biogenic waste feedstocks**.



FlexSNG Financial Support

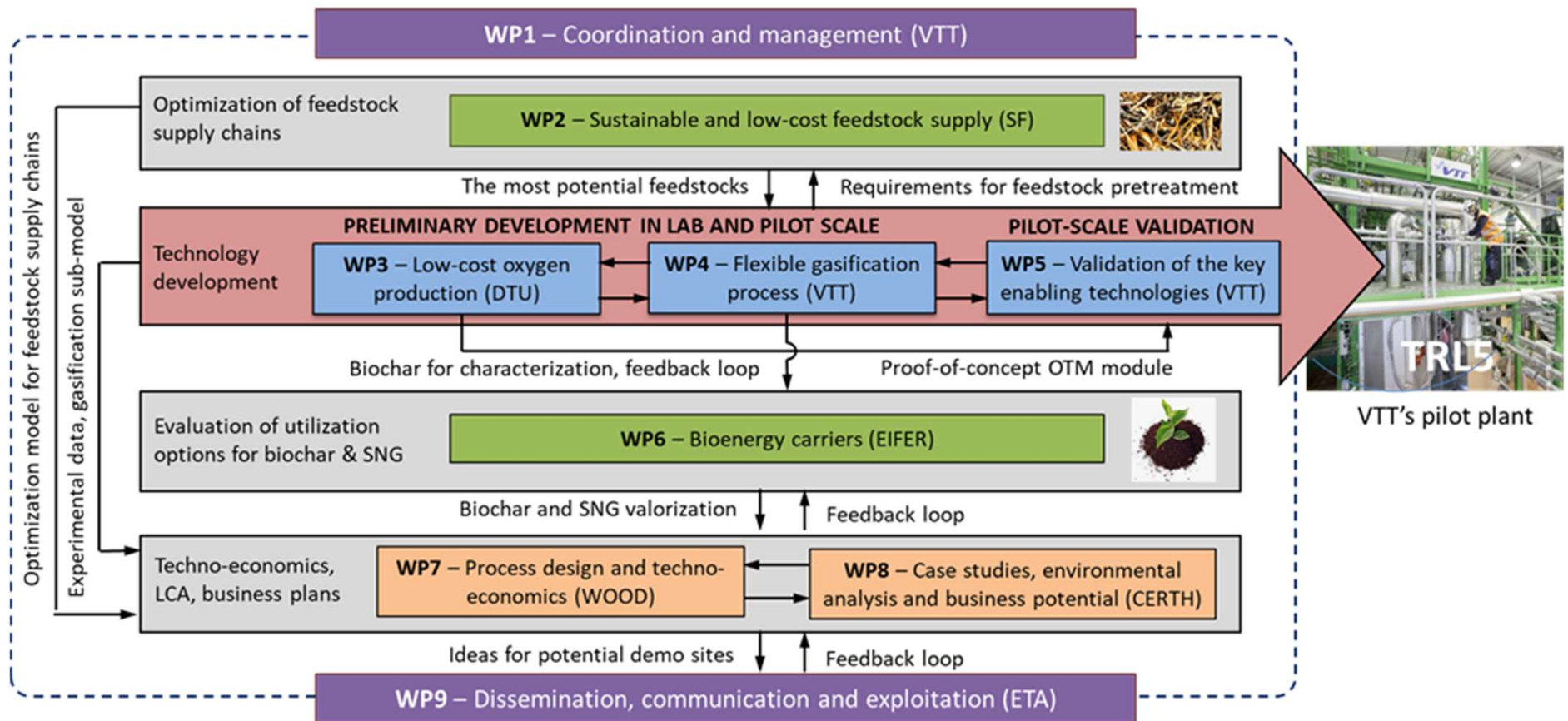
- “Flexible Production of Synthetic Natural Gas and Biochar via Gasification of Biomass and Waste Feedstocks”
- Type of action: Research and Innovation
- Duration: 36 months (1 June 2021 – 31 May 2024)
- EU funding: ~ 4.5 M€
- 12 partners from 8 countries (Finland, Greece, Italy, Denmark, Sweden, Germany, UK, Canada)



Call topic: “International cooperation with Canada on advanced biofuels and bioenergy”

Specific challenge: Optimisation of advanced biomass supply chains and overcoming specific conversion technology barriers are needed to improve the market up-take of sustainable advanced biofuels and bioenergy and accelerate their deployment for replacing the use of fossil fuels in the transport, power and heating sectors.

FlexSNG work package structure



HORIZON EUROPE IN CANADA



- Treaty approval process
- National Contact Point (NCP) network
- Efforts to raise awareness.

NCP ROLES AND RESPONSIBILITIES

 **Informing and
Awareness Raising**



**Assisting, Advising
and Training**



Notifying and Cooperation

NEXT STEPS

- Applications will be reviewed by the European Commission
- Additional engagement is planned in the coming weeks and months
- NCPs will be announced shortly





RESOURCES FOR CANADIANS

Website: <https://ised-isde.canada.ca/site/ised/en/horizon-europe>

Email: Horizon.Europe@ised-isde.gc.ca

Additional info to be shared in the coming weeks:

- Detailed Qs and As
- Updated version of GAC's Horizon Europe for Canadians
- NCP names and contact information
- HE Award Criteria

TCS Products & Tools

- Horizon Europe Guide for Canadian
- STI Funding Programs for Canadians
- How to protect your Intellectual property in Europe
- Canadian cybersecurity companies exporting to the EU
- The EU's General Data Protection Regulation
- Canada2EU Trade Chats podcast
- Toolkit for Canadian women doing business with the EU



Horizon Europe Pillar II – Key Points

- All entities are eligible; have operational & financial capacity to carry out proposal
- Actions: low/high TRL 100% direct + 25% indirect costs (high TRL, profit, 60% direct)
- Costs incurred only during project period, see Model Grant Agreement, Chapter 3, A.6
- Consortia: min 3, avg 8-12 partners with complementary skills & perspectives
- Peer-review of project proposals for quality and science excellence
- Extra marks for having gender balanced consortia
- Projects can run on average 2-4 years
- Open science: non-sensitive calls publish and share data
- Intellectual property rights (IPR) are shared among consortia members
- Location is not limited to Europe – research can be done in Canada
- GoC researchers: TBS rules on funding and expenditures; ISED guidelines to follow

