



MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION

*Liberté
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Le programme européen pour la recherche et l'innovation





Wébinaire d'information Cluster 5 – Destination 2

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18 Juin 2021

Merci de bien vouloir veiller à couper vos micros et caméras, et à laisser le contrôle aux présentateurs



Les questions peuvent être posées par chat

Ce webinaire est enregistré et sera disponible sur le site <https://www.horizon-europe.gouv.fr/>

La présentation sera également diffusée aux participants pour information uniquement

1. Cluster 5 - *Climat, Énergie et Mobilité*



Structuration d'Horizon Europe



95,5Mds€
au total
En € courants

Pas de ventilation à l'échelle du cluster ...

... mais globalement :
Climat ~1 Md €
Energie ~7 Mds €
Mobilité ~7 Mds €



Cluster 5 : Destinations et « sous-destinations »

Architecture du programme de travail 2021-2022

Destination 1 – Sciences du climat et réponses pour la transformation vers la neutralité climatique

Mots-clés : modèle, prévision climatique, services climatiques, compréhension des flux de GES, risques socio-écono. du changement climatique ..

Destination 2 – Des solutions intersectorielles pour la transition climatique

- Une chaîne de valeur européenne des batteries compétitive et durable, *7 appels en 2021, 10 appels en 2022*
- Technologies de pointe émergentes et solutions climatiques, *4 appels en 2021, 0 appel en 2022*
- Engagement des citoyens et des parties prenantes, *4 appels en 2021, 0 appel en 2022*
- Communautés et villes, *1 appel en 2021, 1 appel en 2022*

Destination 3 – Un approvisionnement énergétique durable, sûr et compétitif

- Leadership mondial en matière d'énergies renouvelables
- Systèmes, réseaux et stockage d'énergie
- Captage, utilisation et stockage du carbone
- Questions transversales

Destination 4 – Utilisation efficace, durable et inclusive de l'énergie

- Bâtiments
- Industrie

Destination 5 – Des solutions propres et compétitives pour tous les modes de transport

- Transport routier zéro émission
- Aviation
- Impact des transports sur l'environnement et la santé humaine
- Actions transversales

Destination 6 – Des transports sûrs et résilients et des services de mobilité intelligente pour les passagers et les marchandises

- Mobilité connectée, coopérative et automatisée (CCAM)
- Systèmes de transport multimodaux et durables pour les passagers et les marchandises
- Sécurité et résilience - par mode et dans tous les modes de transport

Destination 2

Ouverture des 1^{ers} calls : **24/06/2021**

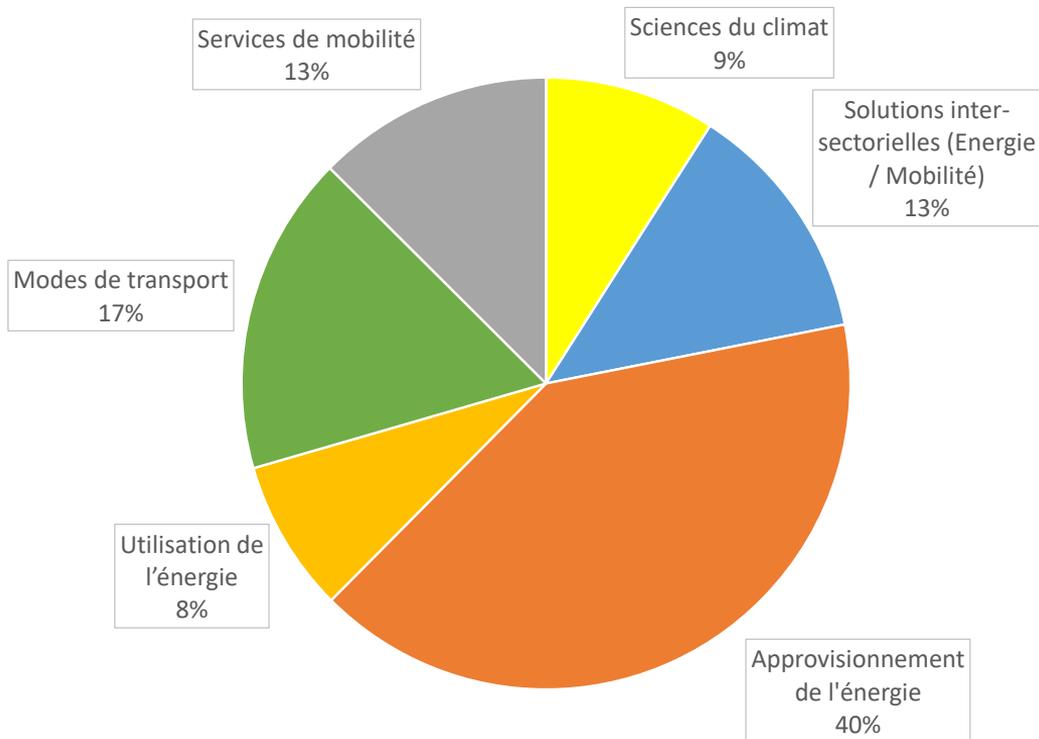
Première clôture : **19/10/2021**

Cluster 5 : Considérations budgétaires

Vue générale

	Budget 2021 (en €million)	Budget 2022 (en €million)
Dest. 1 – Climate science	136	138
Dest. 2 – Cross-sectoral solutions	232	156.5
Dest. 3 – Energy supply	583.8	642.5
Dest. 4 – Energy use	104	140
Dest. 5 – Clean & competitive transport	258	253
Dest. 6 – Safe & resilient transport / smart mobility	167	213
TOTAL	1480.8	1543

Budgets 2021 - 2022 selon les Destinations (en M€)



Institutional Partnerships

- Transforming Europe's rail system
- Integrated Air Traffic Management
- Clean Aviation
- Clean Hydrogen

Budgets et topics exclusivement gérés au sein de chaque partenariat

Co-funded Partnerships

- Driving urban transitions to a sustainable future (DUT)
- Clean Energy Transition

Fonctionnement propre à chaque partenariat

Co-programmed Partnerships

- Built4People | People-centric sustainable built environment
- Towards zero-emission road transport (2ZERO)
- Batteries: Towards a competitive European industrial battery value chain for stationary applications and e-mobility
- Zero-emission waterborne transport
- Connected, Cooperative and Automated Mobility (CCAM)

Sujets (« topics ») entièrement intégrés dans le programme de travail HEU

+ d'infos : [Candidates for European Partnerships in climate, energy and mobility | European Commission \(europa.eu\)](https://ec.europa.eu/euro-iss/programmes/european-partnerships-climate-energy-and-mobility/)

2. Destination 2, 2021

Cross-sectoral solutions for the climate transition

Solutions intersectorielles pour la transition climatique

Destination 2 : « Solutions intersectorielles pour la transition climatique »

Objectif (« main impact ») visé : « *Transition propre et durable des secteurs de l'énergie et des transports vers la neutralité climatique facilitée par des solutions intersectorielles innovantes* », notamment en :

1. **Soutenant un écosystème européen** de recherche et d'innovation de classe mondiale sur les **batteries** pour l'ensemble de la chaîne de valeur et basée sur des filières durables
2. **Améliorant l'efficacité des modèles d'énergie**, d'utilisation des ressources et de mobilité **des villes et communautés** européennes, et durabilité globale des villes et communautés
3. **Facilitant la transformation vers une société climatiquement neutre**, conformément aux objectifs climatiques de l'UE pour 2050, **en impliquant et en responsabilisant plus activement les citoyens**
4. **Soutenant** le développement de **technologies émergentes** à fort potentiel pour permettre des émissions de gaz à effet de serre nulles et négatives dans l'énergie et les transports

(L'hydrogène sera couvert par le partenariat institutionnel « Clean Hydrogen Europe »)

Topic	Topic title	Type of action	Budget 2021 (en M€)	Expected UE contribution per project (M€)	Expected number of grants	Call opening date	Deadline
HORIZON-CL5-2021-D2-01-01	Sustainable processing, refining and recycling of raw materials (Batteries Partnership)	RIA	21	6.00 to 7.00	3	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-02	Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	RIA	24	6.00 to 8.00	3	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-03	Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	RIA	36	8.00 to 9.00	4	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-04	Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)	RIA	20	Around 5.00	4	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-05	Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)	RIA	26	6.00 to 7.00	3	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-06	Sustainable, safe and efficient recycling processes (Batteries Partnership)	RIA	30	9.00 to 10.00	3	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-07	Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership for accelerated disruptive technology exploration and uptake (Batteries Partnership)	CSA	3	Around 3.00	1	24/06/2021	19/10/2021
			Total Batteries	160			

Topic	Topic title	Type of action	Budget 2021 (en M€)	Expected UE contribution per project (M€)	Expected number of grants	Call opening date	Deadline
HORIZON-CL5-2021-D2-01-08	Emerging technologies for a climate neutral Europe	RIA	20	Around 2.50	8	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-09	Methane cracking to usable hydrogen and carbon	RIA	15	2.00 to 3.00	2	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-10	Technologies for non- CO2 greenhouse gases removal	RIA		2.00 to 3.00	2	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-11	Direct atmospheric carbon capture and conversion	RIA		2.00 to 3.00	2	24/06/2021	19/10/2021
	Total Breakthrough technologies		35				
HORIZON-CL5-2021-D2-01-12	Fostering a just transition in Europe	RIA	10	3.00 to 4.00	3	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-13	Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines	CSA	3	2.00 to 3.00	1	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-14	Accelerating the climate transition in difficult contexts: transition super-labs (pilot)	CSA	2	2.00 to 3.00	1	24/06/2021	19/10/2021
HORIZON-CL5-2021-D2-01-15	Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)	CSA	3.5	Around 3.50	1	24/06/2021	19/10/2021
	Total Citizen engagement		18.5				
HORIZON-CL5-2021-D2-01-16	Co-Funded Partnership	Co-fund	18.5	Around 18.5	1	24/06/2021	19/10/2021
	Total Communities and cities		18.5				

D2.1 - Une chaîne de valeur européenne des batteries compétitive et durable

Soutenir un **écosystème européen de recherche et d'innovation de classe mondiale sur les batteries** pour l'ensemble de la chaîne de valeur et basée sur des filières durables.

Ceci comprend l'amélioration des performances technologiques pour accroître l'attractivité des utilisateurs de ces applications (notamment en termes de sécurité, de coût, de confort d'utilisation, de charge rapide et d'empreinte environnementale).

Les **impacts principaux attendus** par les sujets sous cette Destination sont les suivants:

- **Une compétitivité mondiale accrue de l'écosystème européen des batteries** grâce aux connaissances générées et aux technologies de pointe développées dans les matériaux de batterie, la conception des cellules, la fabrication et le recyclage
- Croissance accélérée d'une **industrie de fabrication de batteries** innovante, compétitive et durable en Europe
- Déploiement accéléré de la mobilité électrifiée grâce à une **attractivité accrue** pour les citoyens et les entreprises
- **Une durabilité globale augmentée, et une analyse de cycle de vie améliorée** pour chaque segment de la chaîne de valeur
- **Une exploitation et une fiabilité accrues des batteries** grâce à la démonstration de cas d'utilisation innovants d'intégration de batteries dans le stockage d'énergie stationnaire et les véhicules/navires/avions (en collaboration avec d'autres partenariats)

HORIZON-CL5-2021-D2-01-01

Sustainable processing, refining and recycling of raw materials (Batteries Partnership)

➔ *Traitement, raffinage et recyclage durables des matières premières*

RIA
Budget AAP : 21M€
Budget/projet : 6-7M€
Ouverture : 24/06/2021
Deadline : 19/10/2021
TRL 4-5

Scope: Advancements in chemical and metallurgical production are required to **process and refine raw materials in Europe in a competitive and sustainable way**. Innovations in chemical and metallurgical production will secure a competitive battery industry in Europe: solutions to a sustainable Lithium value chain, new refining processes to increase value and yield from European mines, improvements in performance and efficiency of existing refining processes in Europe, etc.

Expected Outcome (all):

- European low-grade deposits and secondary material sources are taken into use, **reducing the European dependency on important materials**
- Battery grade intermediates are **competitively produced and refined in Europe** in a sustainable and socially acceptable way
- **Reduced carbon emissions**, increased energy efficiency, and more efficient resource use and yield
- **New business opportunities** and models for the European industry (e.g. joint processing, centralised Lithium refinery)

HORIZON-CL5-2021-D2-01-02

Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)

→ *Batteries Li-ion à hautes performances de génération 3b (haute capacité / haute tension) pour l'électromobilité et d'autres applications*

RIA
Budget AAP : 24M€
Budget/projet : 6-8M€
Ouverture : 24/06/2021
Deadline : 19/10/2021
TRL 6-8

Scope: Development of advanced materials enabling higher energy / power density thanks to higher capacity and/or operating at higher voltage, by adapting the cathode materials, the anode materials, the electrolytes and their interplay.

Expected Outcome (all):

- Advanced Li-ion batteries delivering on cost (< 100 euro/kWh at pack level), performance (700 W/kg, 1500+ W/L), safety, sustainability and recyclability, with clear **prospects for cost-competitive large-scale manufacturing** and uptake by the electro mobility as well as other application sectors
- **Increase in energy density** (350-400 Wh/kg, 750-1000 Wh/l) and hence increasing driving distance at reduced cost on module and pack level, inducing a broader customer's acceptance
- **Broader user acceptance leading to a significantly broader market penetration**, helping to reduce GHG emissions of the transport and industry sectors to support EU's efforts to become climate-neutral by 2050: demonstrated for recyclability

HORIZON-CL5-2021-D2-01-03

Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)

→ *Batteries Li-ion à hautes performances à électrolyte solide de génération 4a, 4b pour l'électromobilité et d'autres applications*

RIA
Budget AAP : 36M€
Budget/projet : 8-9M€
Ouverture : 24/06/2021
Deadline : 19/10/2021
TRL 5

Scope: Development of solid-state electrolytes, cathode materials and anode materials enabling higher thermal and electrochemical stability, and contributing in the control of thermal runaway. Developments should range from using conventional materials to using Li metal-based anode materials, aiming at reducing the amount of cobalt used.

Expected Outcome (all):

- **Advanced Li-ion batteries delivering on cost** (below 75 euro/kWh at pack level) performance, safety, thermal stability, sustainability with clear prospects for cost-competitive large-scale manufacturing and uptake by electro mobility sector.
- **Increase in energy density** (800+ Wh/l for Gen 4a, 1000+ Wh/l for Gen 4b) and hence increasing driving distance at reduced costs on module and pack level, positively affecting the customer's acceptance.
- **Broader user acceptance** will help to reduce GHG emissions of the transport sector and support EU's efforts to become climate-neutral by 2050.

HORIZON-CL5-2021-D2-01-04 : Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)

→ *Techniques de traitement écologiquement durables appliquées à grande échelle pour les technologies de fabrication des électrodes et des cellules des batteries Li-ion*

Scope : to optimize or to replace the conventional coating procedures for the fabrication of LIBs porous electrodes (wet process using slurry, expensive and toxic solvent) by either using less expensive and environmentally friendly solvents (e.g., water) or by using completely dry processes such 3D patterning or hydrophobic surface treatment. “Design to Manufacture” and digitalization. To be aligned with H2020 project LiPLANET initiative – The EU network of R&D Li cell manufacturing pilot lines. Focus is into manufacturing technology development, up to pilot-level proof of concept.

Expected Outcome (all)

- Provide European with a leadership position in production of batteries with lower carbon footprint.
- New sustainable electrode and cell manufacturing techniques are with reduced energy consumption, lower carbon footprint and no Volatile Organic Compounds (VOCs) emissions (cheaper, safer, cleaner and energy efficient)
- Electrode coating production completely eliminate organic solvents as slurry dispersing media; dry manufacturing techniques such as 3D patterning and/or hydrophobic surface treatment of electrodes with next generation materials.
- Industrializing closed loops and process design; return low-value chemical from the process to high-value.

RIA (TRL final 5-6)
Budget AAP : 20M€
Budget/projet : 5M€
Ouverture : 24/06/2021
Deadline : 19/10/2021

HORIZON-CL5-2021-D2-01-05

Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)

→ *Développement de technologies de fabrication des batteries à électrolyte solide*

RIA
Budget AAP : 26M€
Budget/projet : 6-7M€
Ouverture : 24/06/2021
Deadline : 19/10/2021
TRL 5-6

Scope: Focus is into **manufacturing technology development, up to pilot-level proof of concept**. New processing, handling and integration techniques are needed to enable scale up of solid-state battery cells (Generation4a and Generation4b) towards industrial GWh mass production.

Expected Outcome (all):

- Position Europe at the industrial production lead in the international race for next generation, SSB technologies all through the value chain
- Generation of an indigenous technological knowledge portfolio of industrially scalable manufacturing solutions for the different approaches to SSB
- Contribute to climate neutral transport via the development of breakthrough technology in SSB batteries
- Enable cost effective, low carbon footprint and low-emission mass production of Gen4 technology in Europe

HORIZON-CL5-2021-D2-01-06

Sustainable, safe and efficient recycling processes (Batteries Partnership)

➔ *Processus de recyclage durables, sûrs et efficaces*

RIA
Budget AAP : 26M€
Budget/projet : 6-7M€
Ouverture : 24/06/2021
Deadline : 19/10/2021
TRL 5-6

Scope: Newly developed recycling processes are expected to aim at recovering the highest amount of resources present within secondary raw materials which result from spent Li-batteries with and without transition metals and focus on the reuse of these materials in batteries. Focus should be on developing materials recycling routes which as directly as possible target next-generation battery cathode and anode materials.

Expected Outcome:

- Improved access to battery materials and strengthened European raw material independency
- Increased European competitiveness offering battery recycling technologies and upscaleable solutions
- Reduced recycling cost and environmental impacts through new and disruptive concepts for very high efficiency recycling
- Improved health and safety aspects of recycling
- The industry is prepared to meet the new regulatory targets for the recycling

D2.2 - Technologies de pointe émergentes et solutions climatiques

Soutenir le développement de **technologies émergentes** à fort potentiel pour permettre des émissions de gaz à effet de serre nulles et négatives dans l'énergie et les transports

Les impacts principaux attendus par les sujets sous cette Destination sont les suivants:

- **Émergence de technologies inattendues** permettant l'émergence d'émissions nulles et négatives de gaz à effet de serre dans l'énergie et les transports
- **Développement de technologies à haut risque / haut rendement** pour permettre une transition vers une économie européenne neutre en termes d'émissions nettes de gaz à effet de serre

HORIZON-CL5-2021-D2-01-07: Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership for accelerated disruptive technology exploration and uptake (Batteries Partnership)

➔ *Soutien à la mise en place d'un écosystème de R&I, élaboration d'orientations stratégiques prospectives pour assurer le développement futur des compétences, des connaissances et du leadership technologique pour une exploration et une adoption accélérées des technologies de rupture*

Scope : to develop, consolidate and communicate a strategic research approach for all stakeholders; to update coherent SRIA, covering all battery value chain; to facilitate work of experts from a different field (guidelines and recommendations); to establish and continuously update KPI's for current SoA battery technology, to establish Target KPI's for future battery R&I; to implement and foster the adoption of uniform standards and methodologies (EU/national level); to cooperate with ETIPs.

Expected Outcome (all)

- Consolidated Battery R&I community across the EU and associated countries and across Battery-related networks.
- Facilitated access to information for all – enabled European "one-stop shop" on Battery R&I information.
- Reduced time to market of technologies and improved European competitiveness.
- Synergies and research results efficiently shared along the whole value chain, thus mobilizing R&I efforts.
- Attracted talent and competences necessary to achieve the technical goals and to support European industry.
- Provided scientific evidence for policymakers.
- Increase and reinforce international collaboration within the geographical scope outlined above.

CSA

Budget AAP : 3M€

Budget/projet : 3M€

Ouverture : 24/06/2021

Deadline : 19/10/2021

HORIZON-CL5-2021-D2-01-08: Emerging technologies for a climate neutral Europe

→ *Technologies émergentes pour une neutralité climatique en Europe*

RIA (TRL final 4)
Budget AAP : 20M€
Budget/projet : 2.5M€
Ouverture : 24/06/2021
Deadline : 19/10/2021

Scope: the proposal should address one of the following areas: decarbonised, efficient, effective, and safe transport; fuel cells; efficient energy generators; energy distribution; energy storage; negative GHG emissions. A list of specific areas that may be considered is presented. Concept-related aspects to be addressed: **lower environmental impact quantified** (based on LCA framework); **better resource efficiency** than current commercial technologies; **barriers** (social acceptance, resistance to new energy technologies); prospective life cycle approach.

Expected Outcome (all)

- Available high-risk/high return technologies for a transition to a net greenhouse gas neutral EU economy by 2050.
- Knowledge and scientific proofs of the technological feasibility of the concept.
- Environmental, social and economic benefits to contribute to R&I strategy and policy forecast.
- Establishing a solid long term dependable European innovation base.

HORIZON-CL5-2021-D2-01-09: Methane cracking to usable hydrogen and carbon

→ *Le craquage du méthane en hydrogène et carbone utilisables*

RIA (TRL final 5)
Budget AAP : 15M€
Budget/projet : 2-3M€
Ouverture : 24/06/2021
Deadline : 19/10/2021

Scope: the development of processes allowing the use of available fossil and renewable methane to economically generate hydrogen without any release of CO₂ or other GHGs (directly splitting the molecule in its components, C and H₂). This requires a higher **efficiency** than in current processes (**at least 50%**) and that the used natural or renewable gas is supplied by a **chain with low upstream leakage** (careful management of impurities in the source stream).

Expected Outcome (at least one of the following)

- Replacement of the unabated use of natural gas by climate-neutral (or negative, if cracking of biogenic methane) hydrogen.
- Reduction of emissions by hard to decarbonise sectors, also considering the use of eventual by-products.
- Faster reduction of GHG emissions by economies heavily relying on natural gas export or use (provided they reduce their upstream emissions).
- Production of economically usable by-product solid carbon (in tires, batteries, etc.).

HORIZON-CL5-2021-D2-01-10

Technologies for non-CO₂ greenhouse gases removal

➔ *Technologies d'élimination des gaz à effet de serre autres que le CO₂*

RIA

Budget AAP : 15M€

Budget/projet : 2-3M€

Ouverture : 24/06/2021

Deadline : 19/10/2021

Scope : This topic focusses on **low TRLs** (TRL 3 or lower) for technologies removing non-CO₂ greenhouse gases **CH₄, N₂O and fluorinated gases**. Methane emissions stemming from the supply chain of fossil fuels & other emissions with a methane concentration higher than 1% are excluded. Technologies are expected to contribute to the capture, concentration, use and/or disposal of emissions. Carbon dioxide may be considered, though only if any synergy can be found with processing it in combination with other greenhouse gas(es).

Expected Outcome : (at least one of the following)

- Increase knowledge on the plausibility of removing non-CO₂ greenhouse gases from the atmosphere.
- Raise awareness on the effects of non-CO₂ greenhouse gases on earth warming.
- Develop technologies for addressing the effects of non-CO₂ greenhouse gas emissions.
- Investigate techno-economic aspects of technologies and physical properties of emissions striving to match both into market-ready solutions.

HORIZON-CL5-2021-D2-01-11

Direct atmospheric carbon capture and conversion

➔ *Captage et conversion directs du carbone atmosphérique*

RIA

Budget AAP : 15M€

Budget/projet : 2-3M€

Ouverture : 24/06/2021

Deadline : 19/10/2021

TRL 4-5

Scope : Establish the **technological feasibility of Direct Atmospheric CCC**, with major technological breakthroughs. Technological concepts supported under this topic should combine CCC **in a single step**, eliminating the need to regenerate absorbents or adsorbents and/or be able to **enable decentralised production of chemicals and fuels** using solar energy devices. Projects that include research into the use of direct air capture for **enhanced oil recovery will not be considered**.

Expected Outcome : (at least one of the following)

- Increase knowledge of existing/develop new materials for direct atmospheric CCC technologies; or
- Address potential barriers to incorporation of direct air capture in existing CC(U)(S) concepts; or
- Make direct atmospheric CCC technologies a viable technology to make the EU carbon neutral by increasing TRL levels

D2.3 - Engagement des citoyens et des parties prenantes

Faciliter la transformation vers une société climatiquement neutre, conformément aux objectifs climatiques de l'UE pour 2050, en **engageant et en donnant les moyens aux citoyens** de participer plus activement à la transition, depuis la planification jusqu'à la prise de décision et à la mise en œuvre

Les impacts principaux attendus par les sujets sous cette Destination sont les suivants:

- Une meilleure compréhension des **implications sociétales de la transition climatique**, y compris ses répercussions distributives
- Des **interventions politiques plus efficaces**, co-crées avec des publics ciblés et s'appuyant sur des conseils politiques de haute qualité
- Un plus grand **soutien sociétal aux politiques et programmes de transition**, basé sur une implication plus importante et plus conséquente des personnes les plus touchées



HORIZON-CL5-2021-D2-01-12

Fostering a just transition in Europe

→ Favoriser une transition juste en Europe

RIA
Budget AAP : 10M€
Budget/projet : 3-4M€
Ouverture : 24/06/2021
Deadline : 19/10/2021

Scope : enhance the understanding the “**just transition**” to climate-neutral and environmentally sustainable economies and societies & analyse various dimensions of **inequality arising transition pathways**. Research should integrate learnings from the COVID-19 pandemic in terms of the evolution of inequality in Europe and analyse potential implications for climate action and **green recovery**. **SSH disciplines** required, gender dimension & links to Sustainable Development Goals should be explored.

Expected Outcome : (one or several of the following)

- Better understanding of the distributional repercussions of the transition to climate neutrality
- Better understanding of the trade-offs & synergies btw climate action, climate-change impacts & justice considerations
- Addressing procedural justice concerns in the transition to carbon neutrality,
- New scientific evidence to inform policies in designing transition plans & post-COVID recovery packages
- Increased societal and political acceptance for climate transition strategies
- Improved insights into barriers impeding a just transition towards climate neutrality & strategies to overcome them

HORIZON-CL5-2021-D2-01-13

Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines

➔ *Renforcement en sciences sociales et humaines des communautés de recherche sur le climat, l'énergie et la mobilité*

Scope: Developing novel, multi-disciplinary perspectives, strengthening SSH research communities while encouraging collaboration with the STEM disciplines, and nurturing linkages with stakeholder communities, in order to produce **meaningful and significant effects enhancing the societal impact** of the related research activities.

Expected Outcome (all):

- Less fragmented R&I communities focusing on SSH approaches to climate, energy and mobility, and on citizen engagement
- More and more in-depth interdisciplinary work between STEM and SSH
- Dedicated outreach and engagement activities have produced strong links to principal stakeholder communities
- Project activities have lowered social and behavioural barriers and contributed to greater citizen
- Policy advice to policy communities supported by communication and dissemination resources, and practical guidelines

CSA

Budget AAP : 3M€

Budget/projet : 2-3M€

Ouverture : 24/06/2021

Deadline : 19/10/2021

HORIZON-CL5-2021-D2-01-14

Accelerating the climate transition in difficult contexts: transition super-labs (pilot)

→ *Accélérer la transition climatique dans les contextes difficiles : les super laboratoires de transition (pilote)*

Scope : This topic supports a set of pilot activities designed to prepare the launch of several fully-fledged **transition super-labs** at a subsequent stage. Transition Super Labs are **real-life laboratories** where a rapid shift to climate neutrality is conceptualised, implemented, monitored and revised in an integrated way by a **broad range of actors**. SSH disciplines are required.

Expected Outcome (all) :

- Identify which settings across Europe would benefit the most from the transition super-labs approach
- Carry out feasibility studies in a select number of these settings, yielding programmatic & actionable blueprints
- Enable coalitions for the practical delivery of transition super-labs, with the participation of a broad range of actors
- Prepare a program outline for the practical delivery of a number of transition super-labs in several contexts across Europe

CSA
Budget AAP : 2M€
Budget/projet : 2-3M€
Ouverture : 24/06/2021
Deadline : 19/10/2021

HORIZON-CL5-2021-D2-01-15

Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)

→ Favoriser la coopération entre les points de contact nationaux (PCN) du cluster 5 d'Horizon Europe

CSA

Budget AAP : 3.5M€

Budget/projet : Around 3.5M€

Ouverture : 24/06/2021

Deadline : 19/10/2021

Scope: trans-cluster and trans-national co-operation between National Contact Points (focus on widening countries).

Applicants must be Horizon Europe national support structures (e.g. NCP) responsible for cluster 5 and officially nominated to the Commission, from a Member State or Associated Country

Expected Outcome (all):

- Improved professionalization/skills of NCPs across Europe
- Enhanced integration of all the cross-cutting issues throughout Horizon Europe
- Connection with the NCP-network dealing with horizontal activities
- Increased cooperation of NCPs with the Enterprise Europe Network. Harmonised and improved trans-national cooperation between NCPs

D2.4 - Communautés et villes

Efficacité accrue des schémas énergétiques, d'utilisation des ressources et de mobilité **des villes et des communautés d'Europe**, et de la durabilité globale des villes et des communautés, améliorant ainsi leur résilience climatique et leur attractivité pour les entreprises et les citoyens de manière holistique. Ceci inclut également l'amélioration de la qualité de l'air et de l'eau, la résilience de l'approvisionnement énergétique, les services et la logistique pour une mobilité intelligente, la qualité de vie et l'accessibilité des villes, la santé publique, les logements zéro émission confortables et abordables ainsi que l'exploitation des technologies et des connaissances européennes pertinentes

Le programme de travail ne contient que quelques activités. La majeure partie des activités liées aux communautés et aux villes sera introduite en 2021 en tant que mise à jour du programme de travail Horizon Europe 2021, une fois la phase préparatoire des Missions Horizon Europe terminée

HORIZON-CL5-2021-D2-01-16

Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT)

➔ *Partenariat co-financé : Conduire les transitions urbaines vers un avenir durable (DUT)*

Co-fund
Budget AAP : 18.5M€
Budget/projet : Around 18.5M€
Ouverture : 24/06/2021
Deadline : 19/10/2021

Scope: A co-funded partnership on Urban Transitions to a sustainable future is expected to make a considerable contribution towards filling up the current gaps. By aligning, mobilising and leveraging EU, national and regional R&I agendas, programmes, priorities, activities and investments, including from the private sector and associating to the extent possible, the totality of EU Member States and Associated Countries, it should create a pan-European critical mass and invest on challenge-driven R&I to underpin urban sustainability transitions.

Expected Outcome (all):

- To enable the EU to achieve targets set out by the EU Green Deal and fulfil its commitments related to the UN Agenda 2030 for sustainability, the Urban Agenda for the EU, the Habitat III New Urban Agenda and the Paris Agreement, European cities need to engage in sustainability and climate-neutrality transitions.

Les webinaires sur les appels à projets des destinations 1, 3, 4, 5 et 6 seront prochainement mis en ligne

Les webinaires précédents organisés par le MESRI (aspects juridiques, financiers, etc.) sont accessibles en ligne

- <https://www.horizon-europe.gouv.fr/lancement-d-horizon-europe-24506>

Info days de la Commission

- <https://www.horizon-europe-infodays2021.eu/>
- Les 5 et 6 Juillet pour le cluster 5 : <https://www.horizon-europe-infodays2021.eu/event/cluster-5-climate-energy-mobility>

Brokerage Event

- Le 07 Juillet pour les appels du cluster 5, <https://he-cluster5.b2match.io/>

Le site français Horizon Europe du MESRI

- Les appels
- Les événements
- Les fiches pratiques juridiques & financières

Le site de la Commission européenne

- Les appels (funding & tenders)
- Les statistiques (dashboard)
- Les projets financés (cordis)
- Les événements (funding & tenders)
- **Le programme de travail 2021 & 2022 (définitif et officiel)**
 - https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-8-climate-energy-and-mobility_horizon-2021-2022_en.pdf



Les Points de Contact Nationaux (PCN) sont à votre disposition pour :

- Vous aider, vous accompagner : question sur un appel, aide au réseautage...
- Participer à des événements que vous organisez...

L'équipe de PCN Climat/Energie

Benjamin WYNIGER
Enrico MAZZON
Maryline ROUSSELLE
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L'équipe de PCN Transport

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[Pour questions relatives au cluster 5 \(climat/énergie\) :](mailto:pcn-climat-energie@recherche.gouv.fr)
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[Pour être informé en temps réel sur twitter et LinkedIn:](#)
[@PCN_Climat_Ener](#) et [PCN Climat/Energie](#)

[Demandez votre inscription à la liste de diffusion du PCN Climat/Energie \(par email\)](#)

[Pour questions relatives au cluster 5 \(transport\) :](mailto:pcn-transport@recherche.gouv.fr)
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[Demandez votre inscription à la liste de diffusion du PCN Transport \(par email\)](#)

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