



Webinar Horizon Europe Cluster 4: Industry, (Digital & Space)

Netherlands Enterprise Agency (RVO)

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05-09-2023



Netherlands Enterprise Agency

Work programma 2023/2024

Destinations 1 & 2 – Industry

John Heynen

Hans Bosch, Ahmet Polat

€ 95.5 billion
2021-2027



HORIZON EUROPE

Excellent Science



Research
Infrastructures

Global Challenges

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

Joint Research Centre

Innovative Europe



European Innovation
Ecosystems



Widening participation & ERA



Six Destinations of Cluster 4 - the expected impacts they serve

- 1. Climate neutral, circular, and digitised production (Twin-Transition)**
- 2. Increased autonomy in key strategic value chains for resilient industry (Resilience);**
3. World leading data and computing technologies
4. Digital and emerging technologies for competitiveness and fit for the green deal
5. Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data
6. A human-centred and ethical development and industrial technologies





Cluster 4 Dest 1: Climate neutral, circular and digitised production (Twin-Transition)

Impact: Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures

Challenges

- > Green, flexible and advanced manufacturing
- > Advanced digital technologies for manufacturing
- > A new way to build, accelerating disruptive change in construction
- > Hubs for circularity
- > Enabling circularity of resources in the process industries
- > Integration of Renewables and Electrification in process industry





Topics “Twin-Transition”



- > [13 topics](#)
- > Addressing: e.g. process chains /modular manufacturing / surfaces /several circularity calls: digital tools, hubs, flows, process industry / construction/hubs / steel / CO₂ valorization /electrification:
- > Sections:
 - Manufacturing industry
 - A new way to build
 - Energy efficient and climate neutral process industries
 - Circularity and Zero Pollution in process industries
 - Hubs for Circularity
 - Clean Steel
- > Deadlines 2024: 07 February 2024



Topics “Twin-Transition”

- > [13 topics](#)
- > O.a.
- > Manufacturing as a Service: Technologies for customised, flexible, and decentralised production on demand (Made in Europe Partnership) (RIA)
- > <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2024-twin-transition-01-03>
 - ExpectedOutcome: Easy access to flexible and decentralised manufacturing and remanufacturing capacities...
 - Availability of automation...
 - Improved value chain integration...



Topics “Twin-Transition”



> 13 topics

> O.a.

> **Technologies/solutions to support circularity for manufacturing (Made in Europe Partnership) (RIA)**

> <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2024-twin-transition-01-05>

- ExpectedOutcome: Assessing the environmental impact of their products, including the flow of products after their use to reduce product and raw material waste ...
- Achieving a considerable net reduction of the environmental impact ...
- Facilitating the development and uptake of digital tools/platforms such as the EU Digital Product Passport, ...
- Removing barriers in the uptake of the digital tools from the market ...



Cluster 4 Dest 2: Increased autonomy in key strategic value chains for *resilient* industry;

Impact: Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials

Challenges

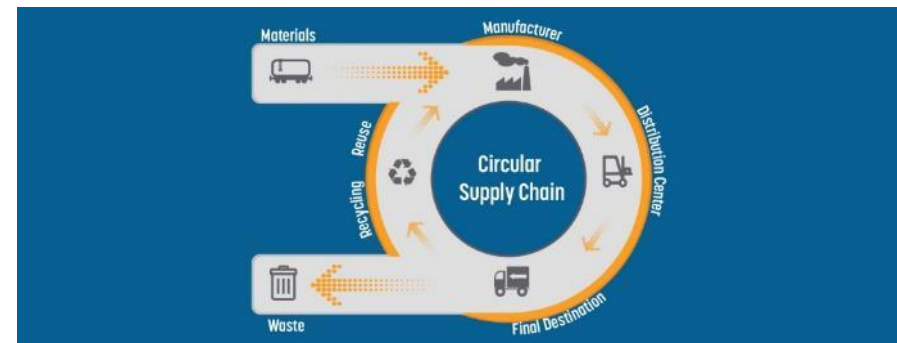
- > Novel paradigms to establish resilient and circular value chains
- > Raw materials for EU strategic autonomy
- > Green and Sustainable Materials
- > Materials for the benefit of society and the environment
- > Materials and data cross-cutting actions
- > Improving the resilience and preparedness of EU businesses





Topics “RESILIENCE”

- > [23 topics](#)
- > Addressing: e.g. circular value chains / raw materials (~~deep sea~~ mining / circular/ earth observation)/advanced materials / biomaterials / membranes /SME & Startup resilience
- > Sections:
 - **Raw Materials** for EU open strategic autonomy and successful transition to a climate-neutral and circular economy
 - **Safe and Sustainable by Design** (SSbD) chemicals and materials
 - Strategic Innovation Markets driven by **Advanced Materials**
 - Improving the **resilience of EU businesses**, especially SMEs and Startups
- > Deadlines 2024: 07 February 2024
- > Check : https://www.rvo.nl/sites/default/files/2023-07/Wegwijzer_Horizon_Europe_calls_circulaire_maakindustrie.pdf





Industry in other Clusters

- > Cluster 1: Health
 - D5: Tools, technologies, data
 - D6: Cyber
- > Cluster 5: Climate, energy and mobility
 - Batteries (and material) research ([link](#))
 - Energy ([link 1](#) and [2](#))
- > Cluster 6: Food, Bioeconomy and natural resources etc.
 - Biobased products (CBE JU: Circular Biobased Europe Joint Undertaking), TBC
- > [EIC Accelerator](#): aiming at SMEs
- > LIFE: www.rvo.nl/life (bottom-up)



Pillar 2
Global Challenges and
European Industrial
Competitiveness

Clusters

- 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



RESEARCH & INNOVATION
TO DRIVE THE
GREEN DEAL

#EUGreenDeal
#ResearchImpactEU



THE KEY TO SUCCESS:

~~Ask the EC to fund your research~~

Help the EU to solve its problems!





Events

- › 11 October 2023: [Cluster 4 info days](#)
 - Day 1: Destination 1 & 2 (= Industry)
 - Day 2: Destination 3, 4, 5, 6 (Digital, Space, Human)

- › 24 October 2023: Webinar RVO:
<https://english.rvo.nl/news/events/webinar-horizon-europe-cluster-4-digital-industry-space-24-october>

- › Brokerage events
 - t.b.c.





National Contact Points for Cluster 4

Rijksdienst voor Ondernemend Nederland (RVO.nl) - Team IRIS

Can you review my proposal?

In which European call should I submit?

Which partners do I need?

Do I stand a chance?

What are the financial and legal consequences?

How do I write a winning proposal?

How to get in touch with Brussels?

Industry

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For general information Horizon Europe

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Ander EU programma: LIFE – kleinschaliger dan Horizon Europe

- › Pilots, demo's, best practices
- › Liefst groter dan € 1 miljoen, 2-5 jr
- › Aanvraag ca. 70 blz (max 120 blz), exclusief bijlages
- › Subsidie meestal 60% ; 40% zelf betalen
- › Belangrijk: logica, cijfers, onderbouwing, goede partners, uitrol EU en **IMPACT!!!**
- › 10-30% slaagkans, afhankelijk van concurrentie
- › **Replicatie** actief inzetten, meer dan communicatie
- › Buitenlandse partner(s) niet verplicht.
- › Deadline dit jaar: 6 september – volgend jaar wordt een nieuwe call verwacht.
- › www.rvo.nl/life