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PROCESSES4PLANET

Hubs4Circularity Community of Practice

Supporting Hubs4Circularity to accelerate industrial symbiosis, industrial-urban symbiosis and circular economy.

Prof. Sebastian Engell, ZEDO e,V,
H4C Europe Project

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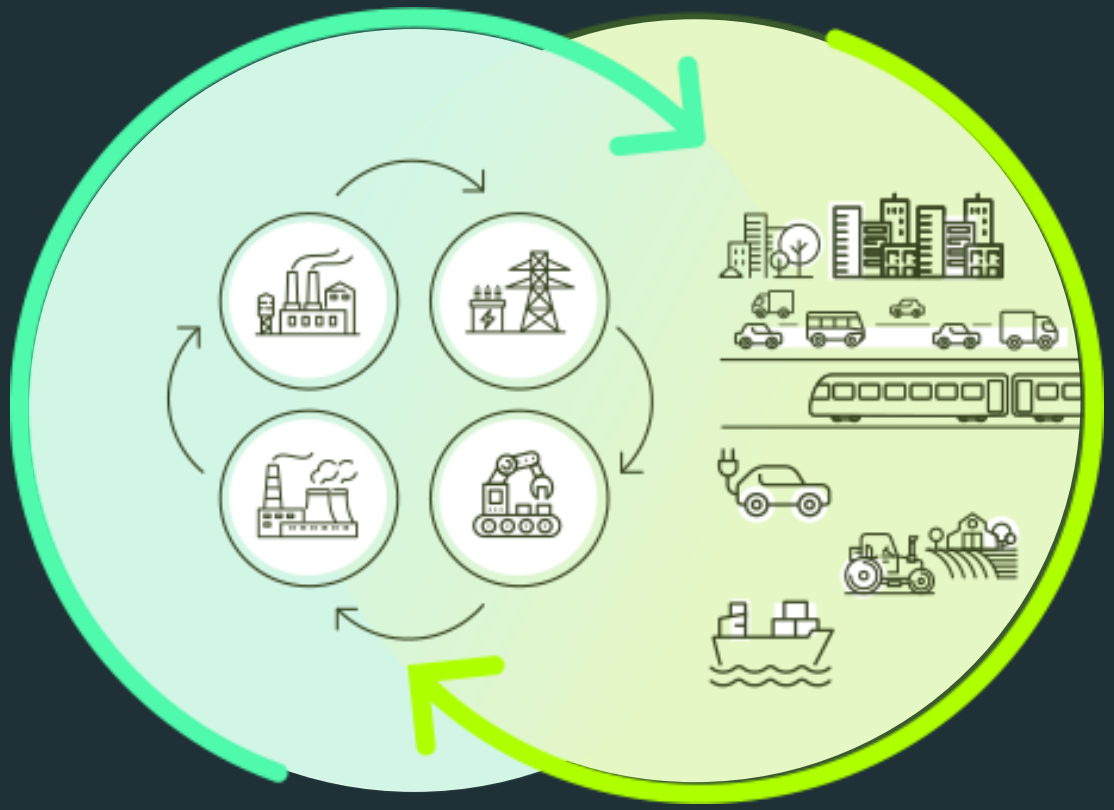
COMMUNITY OF PRACTICE

www.h4c-community.eu info@h4c-community.eu

Hubs4Circularity



- Socio-technical ecosystems for the implementation of industrial symbiosis, industrial-urban symbiosis and circular economy, closing energy, resource and data loops at regional scale
- Go beyond individual projects and organize a coordinated systematic approach towards climate neutrality and circularity
- Long-term collaboration between partners
- Involvement of regional stakeholders
- The process industry is in the core of (most) H4C as it can process, absorb and provide streams of energy and materials

H4C are multi-facetted

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- Different areas of activities / different focus areas
  - Utilization of / exchange of streams of energy
  - Utilization of side-products and production waste
  - Regional treatment / utilization of consumer waste
  - Part of trans-regional value networks for the handling of waste streams
  - Realization and operation of infrastructures
    - Pipelines, e.g. hydrogen, CO2, steam, cold waster, wastewater treatment
    - Research and development
  - Technology scouting, matchmaking
  - Mobilization of funding
  - Outreach, advocacy, education
- Should target real implementations at scale!

H4C CoP: Mission and objectives

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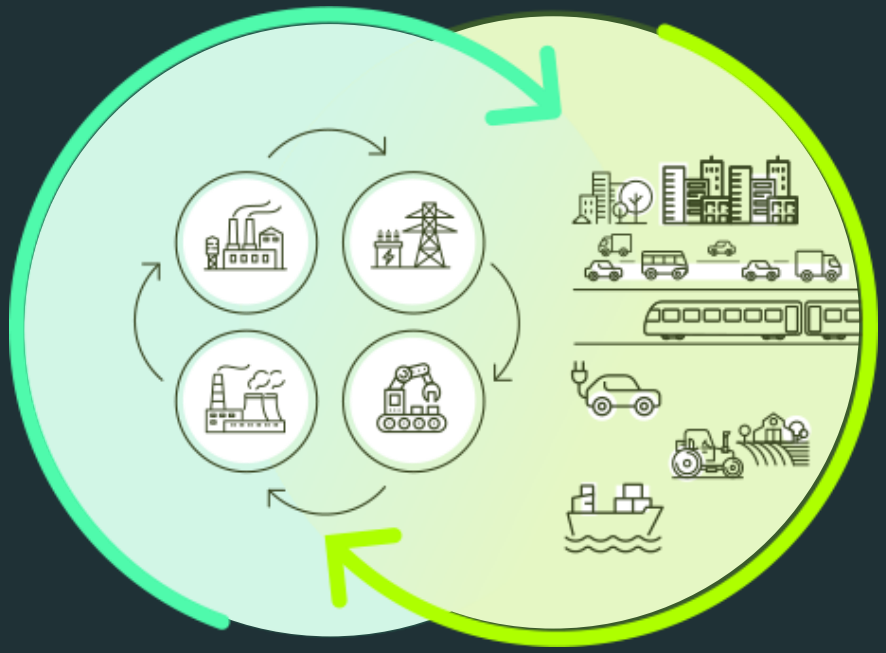
Accelerating the development of Hubs4Circularity in Europe

- **Empower process industries and regions & cities** to co-create symbiotic circular ecosystems
- **Connect industrial parks and regions** and actively engage with **emerging Hubs**, providing a KPI toolkit, independent evaluation of existing and potential Hubs, and policy recommendations
- **Promote creation, exchange, and consolidation of knowledge** through a digital **Knowledge Centre** and **Expert Groups**



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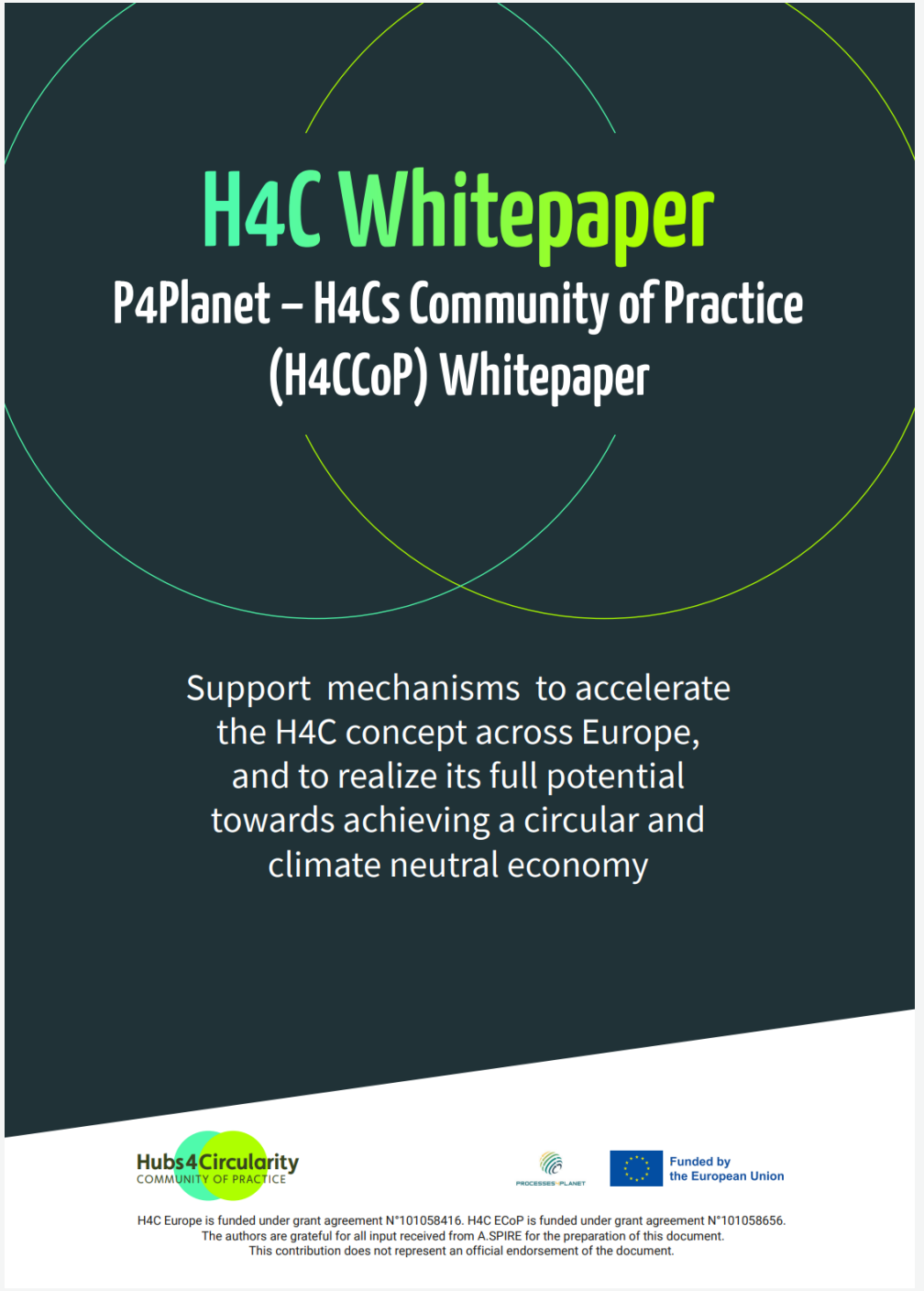

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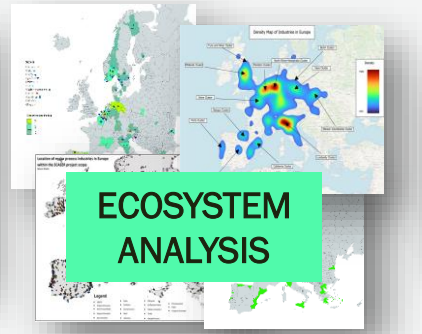
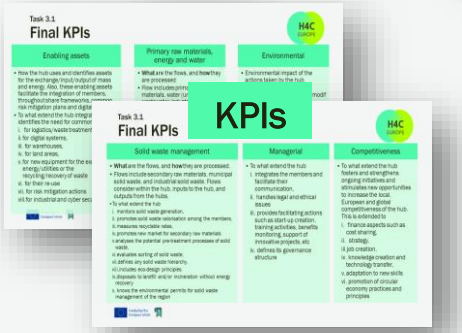
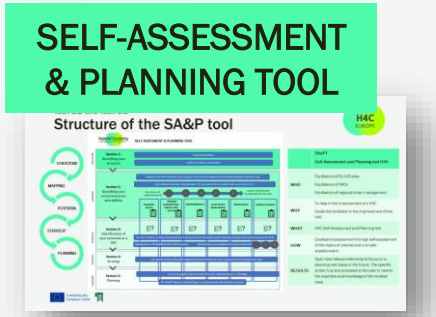
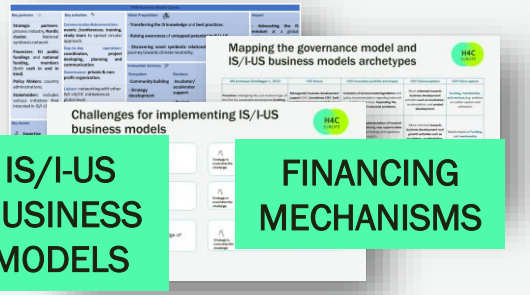
What we have achieved so far...









Work in progress

1. White Paper on sustainable financing and support needs for H4Cs in collaboration with A.SPIRE.
2. Identifying high-potential industrial areas and regions for H4Cs, which includes creating a joint living map of potential H4Cs, and engaging with them
3. Series of Business Modelling workshops and content webinars
4. Exploring a sustainable exit strategy for the H4C Community of Practice.
5. Publishing a series of guidebooks for H4C stakeholders and policy recommendations.
6. Series of webinars and community events.

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Up-to-date H4C and I(U)S Resources - Curated Knowledge, Guidelines, Essential Tools, and Valuable Links

2.590 Patents
20.693 Papers
2.698 Projects

1000+ registered users

Discussion Forum

Challenges *(upcoming)*

Community access

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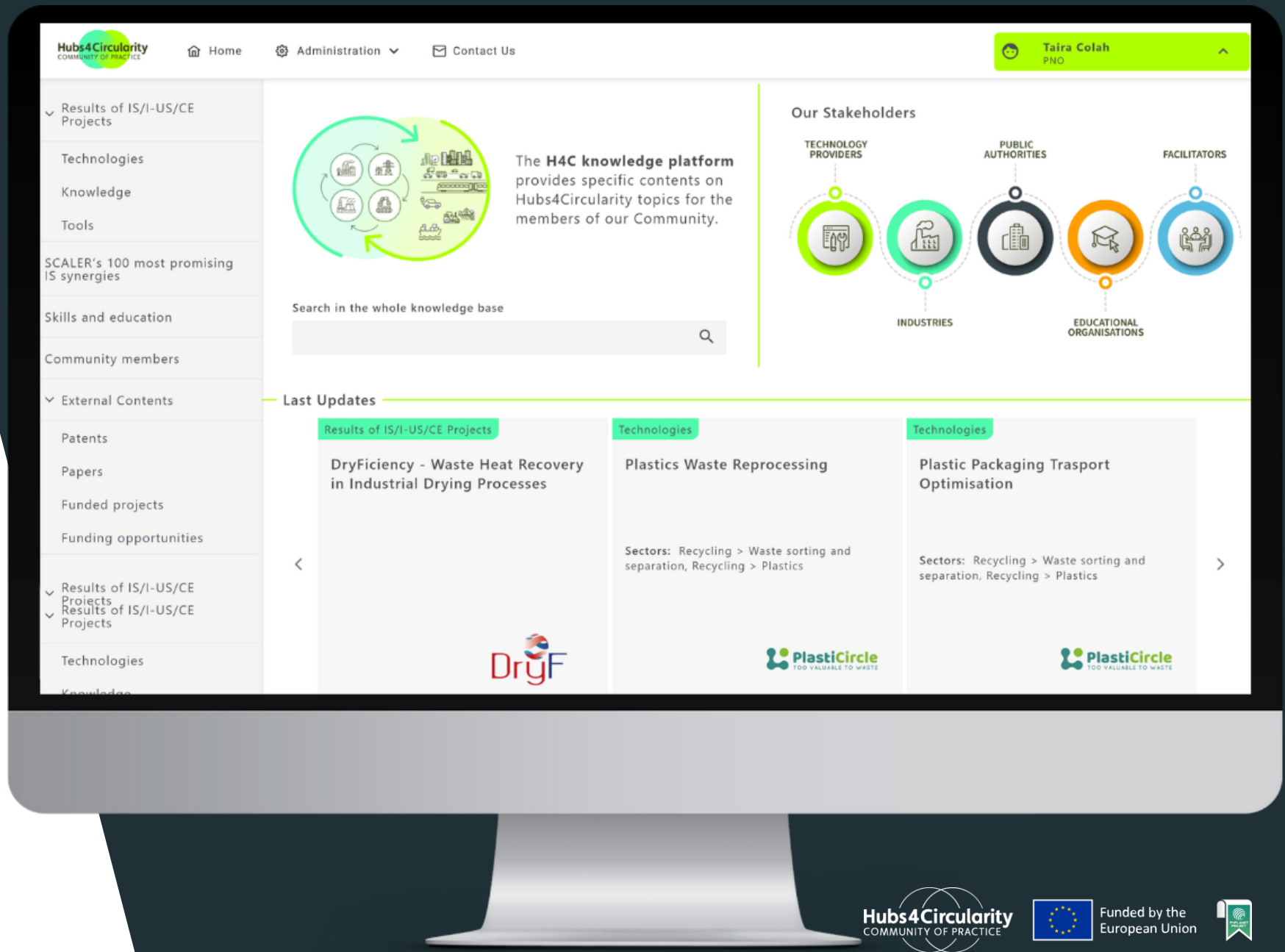

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Knowledge Platform services

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Engaging the H4C Community of Practice

- Organizing workshops and events
- Linking H4C experts
- Member database for peer connections
- Discussion forums and H4C working groups
- Matchmaking
- IS innovation challenges and solutions

Access to knowledge and tools

- H4C Case Studies and SCALER Opportunities
- Skills Profiles, Training, and Guides
- Self-assessment Tools
- Funded Project Database and Results
- Funding Guide for Hubs4Circularity

Services to accelerate Hubs4Circularity

- **Services to Hubs:**
- Business and Governance Training
- Funding and Finance Support
- Open Innovation Tech-Scouting

- **Services to Projects:**
- Training on Symbiosis and CE
- Stakeholder Network Support
- Data Analysis
- KPI Assessment
- Tech Scale-Up Support

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Thanks!

JOIN THE COMMUNITY

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