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PROCESSES+PLANET

Hubs4Circularity Community of Practice

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

Sebastian Engell, TU Dortmund and ZEDO e.V.
H4C Europe Project

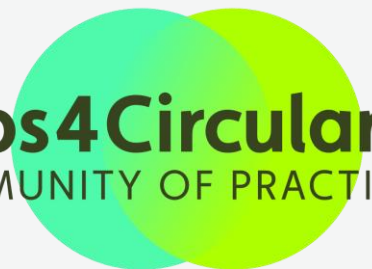


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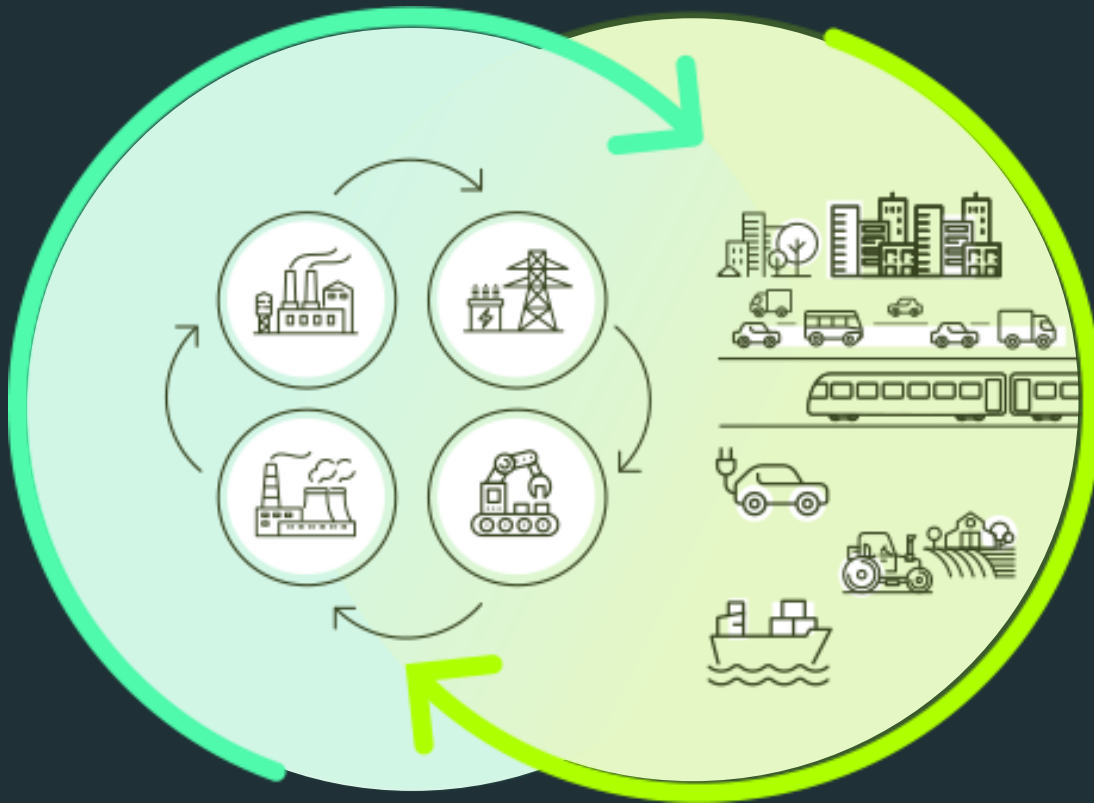


info@h4c-community.eu

Hubs4Circularity
COMMUNITY OF PRACTICE



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

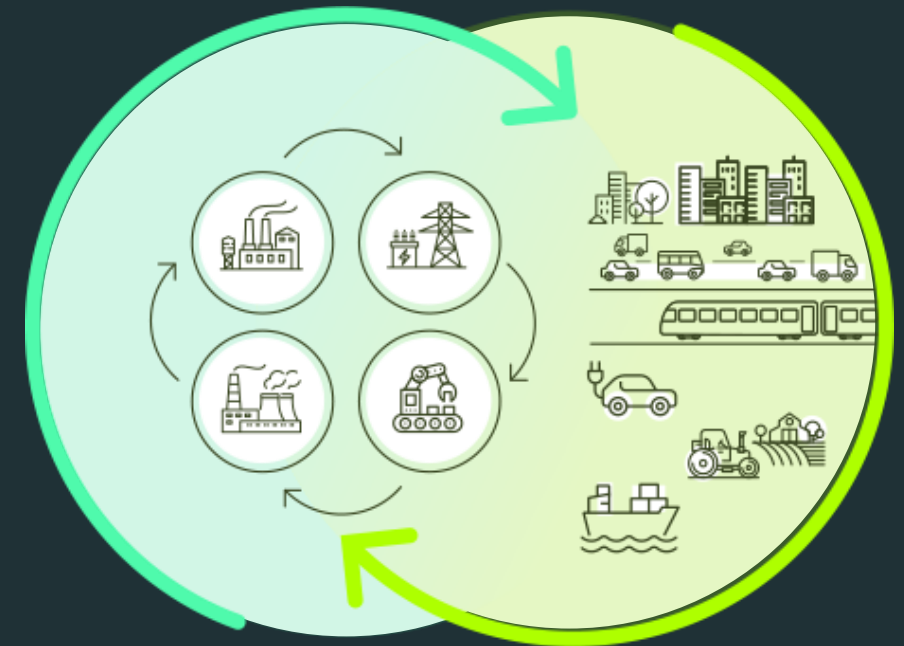
H4C are multi-faceted

- 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 water, 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

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



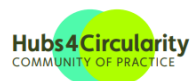


PROCESSES4PLANET

H4C Whitepaper

P4Planet – H4Cs Community of Practice (H4CCoP) Whitepaper

Support mechanisms to accelerate
the H4C concept across Europe,
and to realize its full potential
towards achieving a circular and
climate neutral economy

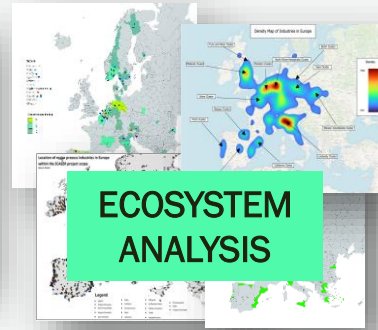


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The authors are grateful for all input received from A.SPIRE for the preparation of this document.
This contribution does not represent an official endorsement of the document.

What we have achieved so far...



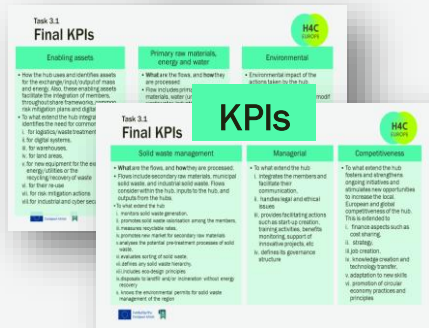
KNOWLEDGE PLATFORM



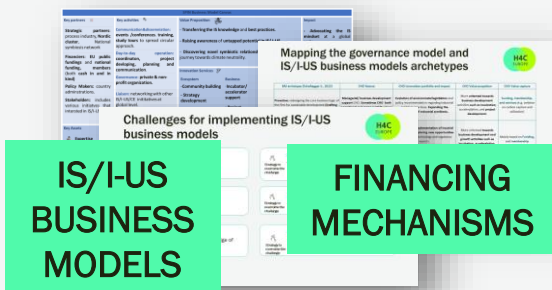
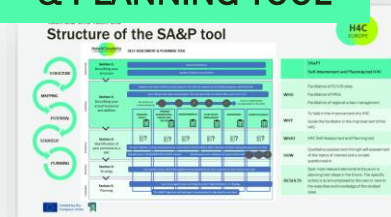
ECOSYSTEM ANALYSIS



EXPERT GROUPS



SELF-ASSESSMENT & PLANNING TOOL



IS/I-US BUSINESS MODELS

FINANCING MECHANISMS



COMMUNITY ENGAGEMENT

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.

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

Hubs4Circularity
COMMUNITY OF PRACTICE

The screenshot displays the Hubs4Circularity website interface. At the top, there is a navigation bar with 'Home', 'Administration', and 'Contact Us' links, and a user profile for 'Taira Colah PNO'. A left sidebar menu lists categories such as 'Results of IS/I-US/CE Projects', 'Technologies', 'Knowledge', 'Tools', 'SCALER's 100 most promising IS synergies', 'Skills and education', 'Community members', 'External Contents', 'Patents', 'Papers', 'Funded projects', 'Funding opportunities', and 'Results of IS/I-US/CE Projects'. The main content area features a circular diagram of a circular economy, a search bar, and a 'Last Updates' section with three featured projects: 'DryFiciency - Waste Heat Recovery in Industrial Drying Processes' (by DryF), 'Plastics Waste Reprocessing' (by PlastiCircle), and 'Plastic Packaging Transport Optimisation' (by PlastiCircle). A 'Our Stakeholders' section includes icons for Technology Providers, Public Authorities, Facilitators, Industries, and Educational Organisations. The footer contains the Hubs4Circularity logo, the European Union flag, and the text 'Funded by the European Union'.

Knowledge Platform services



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

Thanks!

JOIN THE COMMUNITY

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