

Funded by the  
European Union



PROCESSES4PLANET

# H4C STATE OF PLAY ANALYSIS, RECOMMENDATIONS, AND ECoP CONTINUATION

*Sebastian Engell  
H4C Europe Project*

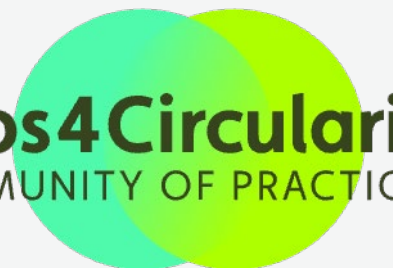


[www.h4c-community.eu](http://www.h4c-community.eu)



[info@h4c-community.eu](mailto:info@h4c-community.eu)

**Hubs4Circularity**  
COMMUNITY OF PRACTICE



## Questionnaires from and interviews with 37 Hubs or initiatives:


- Initiatives related to industrial clusters or large industrial parks (7)
- Eco-industrial Parks (4)
- Regional Hubs or Initiatives (13)
- Sector-focused Regional Hubs (9)
- Industrial parks and others (4)

## Deliverable 6.2:

- 1-2 page summaries of the status and activities of the Hubs
- Classification
- Analysis and recommendations

# H4C Europe State of Play Analysis



  
[circularity\\_hubs\\_map.html](#)

# Interviewed H4C Initiatives (1)

## Hubs connected to industrial clusters and large industrial parks

- Kalundborg Symbiosis (DK)
- Chemelot Circular Hub (NL)
- Smart Delta Resources (SDR) (NL)
- Port of Rotterdam (NL)
- Mo Industrial Park (NO)
- Basque Industrial Hub (ES)
- Höchst Hub (D)

## Eco-industrial Parks

- Ämmässuo Eco-Industrial Center (FI)
- Norrköping Hub (SE)
- GreenLab Skive (DK)
- Turku Smart Chemistry Park (FI)

# Interviewed H4C Initiatives (2)

## Regional Hubs and initiatives

- Tirol Hub (AT)
- Circular Region Upper Austria (AT)
- Vlaanderen Circulair (BE)
- Asturias Paradise H4C (ES)
- Pardubice Hub (CZ)
- Aragón Circular Hub (ES)
- Manresa Regional Hub (ES)
- Theseus Attica Hub (GR)
- Kilpilahti-Porvoo Hub (FI)
- Circulair Friesland (NL)
- Eyde Cluster (NO)
- Nordland Hub4Circularity (NO)
- Tillväxt Gotland (SE)

# Interviewed H4C Initiatives (3)

## Sector-focused regional hubs, including Hubs initiated by Horizon Europe projects

- WIVA (Hydrogen Initiative) (AT)
- Salamanca Wastewater Hub (ES)
- Southern Transdanubia Wastewater Hub (HU)
- CONOU Lubricants Recycling Network (IT)
- Veneto Biorefinery Hub (IT)
- Hurricane Hub (NL)
- Renergy Cluster (NO)
- Izmir–Manisa Hub initiative (TR)
- Ankara Construction and Demolition Materials Hub (TR)

## Others (not Hubs)

- Niederrhein Chemical Parks (DE)
- Thyssenkrupp Steel site in Duisburg (DE)
- Herøya Industrial Park (NO)
- Silesia Region (PL)

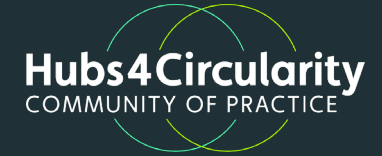
# Rich source of inspiration

- Not exhaustive but broad and deep information on a large number of diverse initiatives
- Enables to learn from examples and get new ideas
- Many strong initiatives, both regional and industry-focused
- Two key learnings:
  - Crucial to get high-level support from enterprises and from the public sector
  - Big differences in the „culture of collaboration“ between countries
- Publication in July
- Big big thanks to all who spent time with us to explain their activities and to review the summaries!

# Recommendations

- We propose to re-brand the concept of Hubs4Circularity into **Hubs4SustainableIndustries**.
- **Related to Regional Hubs:** A **System of European Hubs for Sustainable Industries** should be created with 50/50 funding from the EU and from the member states. The mission of the EUSIs is to drive sustainability projects in their regions. 50% of the funding should be used for cascaded funding of short-term innovation projects.
- **Related to Industrial Hubs:** **Support for high-TRL industrial demonstrator projects should be ramped up fast** to overcome the current stagnation in the deployment of sustainability and circularity related innovations. Hubs **should play an important role in influencing infrastructure planning**.
- **Targeted support** for **eco-industrial parks** should be provided through the European Funds for Regional Development, **Networking activities** related to regional and eco-industrial parks should be supported under the **Coherence Program**.
- **Networking of Hubs4Sustainability** of all types across Europe **should be financed by the EU** to enable learning from the frontrunners and create awareness of the concept and its potential
- The realization of **circularity of materials**, especially from end-of-use goods, **depends crucially on policies and regulations**. Markets and investment opportunities can e.g. be created by **prescribing quota or establishing Extended Producer Responsibilities**.

# In the short term



- The European Community of Practice will be continued with support from the UNITED CIRCLES project by PNO Digital and ZEDO.
- We propose to re-brand it as **ECoP for Sustainable Industries.**
- The Knowledge Platform will be maintained and improved, and continuously updated.