

Closing loops. Opening worlds.

Powered by:

Brightlands
Chemelot Campus



Maastricht University



TNO innovation
for life

Hubs4Circularity | Community of Practice
Creating and accessing R&D facilities
June 20, 2024

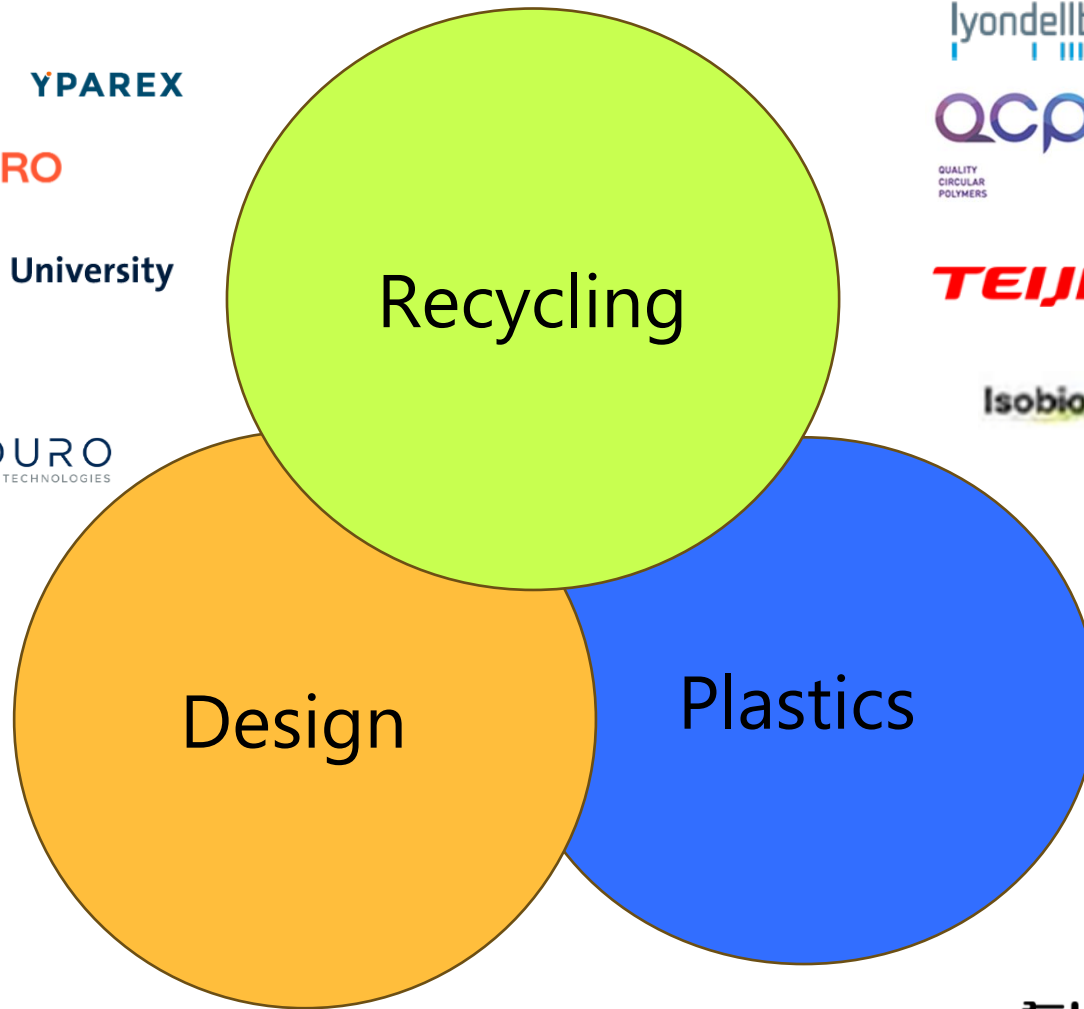
Maurice Olivers



Brightlands
Circular
Space



Circular materials ecosystem



A collage of logos for various companies and organizations, arranged around the central Venn diagram. The logos include:

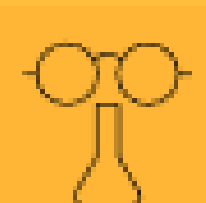
- Chemelot Innovation and Learning Labs
- ioniqa
- YPAREX
- lyondellbasell
- cedo
- ortessa
- TNO innovation for life
- ITERO
- QCP QUALITY CIRCULAR POLYMERS
- RWE
- Back to Battery BATTERY RECYCLING
- Maastricht University
- TEIJIN
- PLASTIC ENERGY
- sabie
- Isobionics
- Brightsite Transforming industry
- Resolved Technologies
- ADURO CLEAN TECHNOLOGIES
- GF Biochemicals
- MITSUBISHI CHEMICAL GROUP
- DSM
- Chemelot InSciTe
- Al4Mat
- niags alive. again and again
- AMI Advanced Materials
- sappi
- covestro
- TICTAG
- Brightlands Materials Center
- avantium
- EnzyPep Quality by Design.
- TSG
- (C:O)
- Deep Branch
- ertoro

Catalyst for transition to a circular world

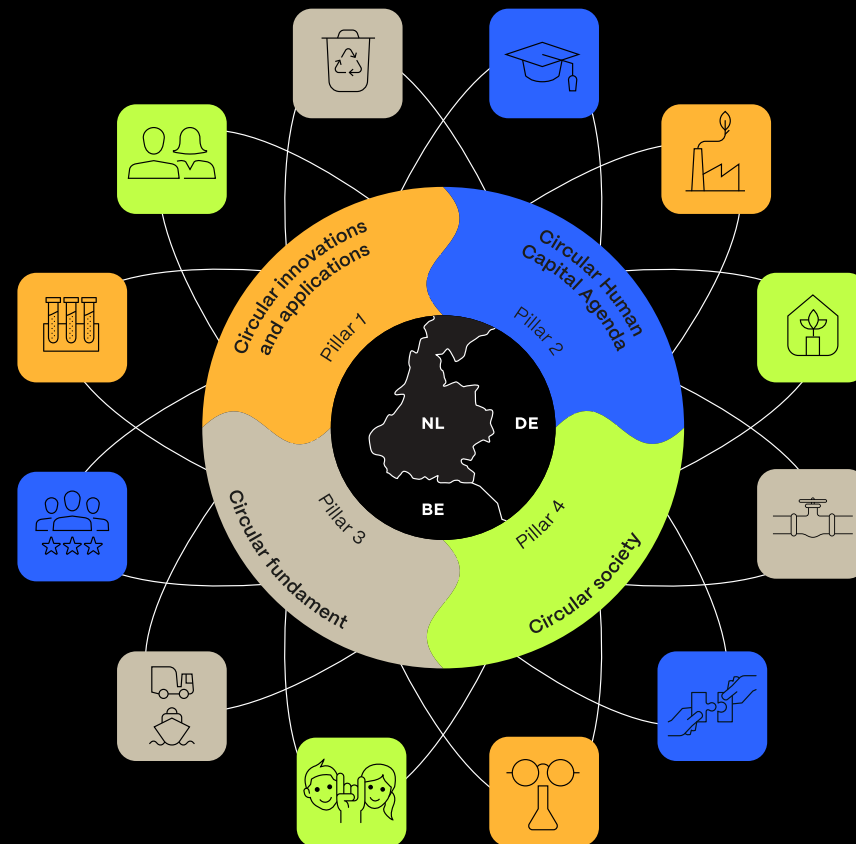



System Integral Cooperation

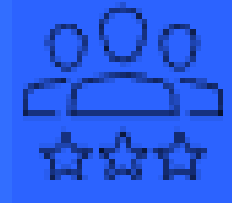
Circular co-creation



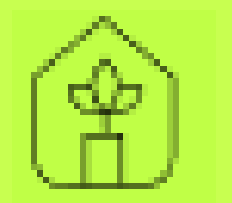
Circular foundation



Human capital



Circular Society



Our **mission** is to accelerate the circular use of plastics in society so that plastics are reused as often as possible on an industrial scale as a raw material for new products



Bumpy road.

An urgent need for new models:

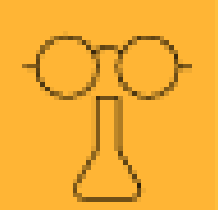
- collecting, sorting and pretreatment of used plastics.
- business, investments, governance
- recycling technologies, product design and policy.

Above all, we see the urgency in changing mentality and cooperation with all stakeholders in the circle of value.

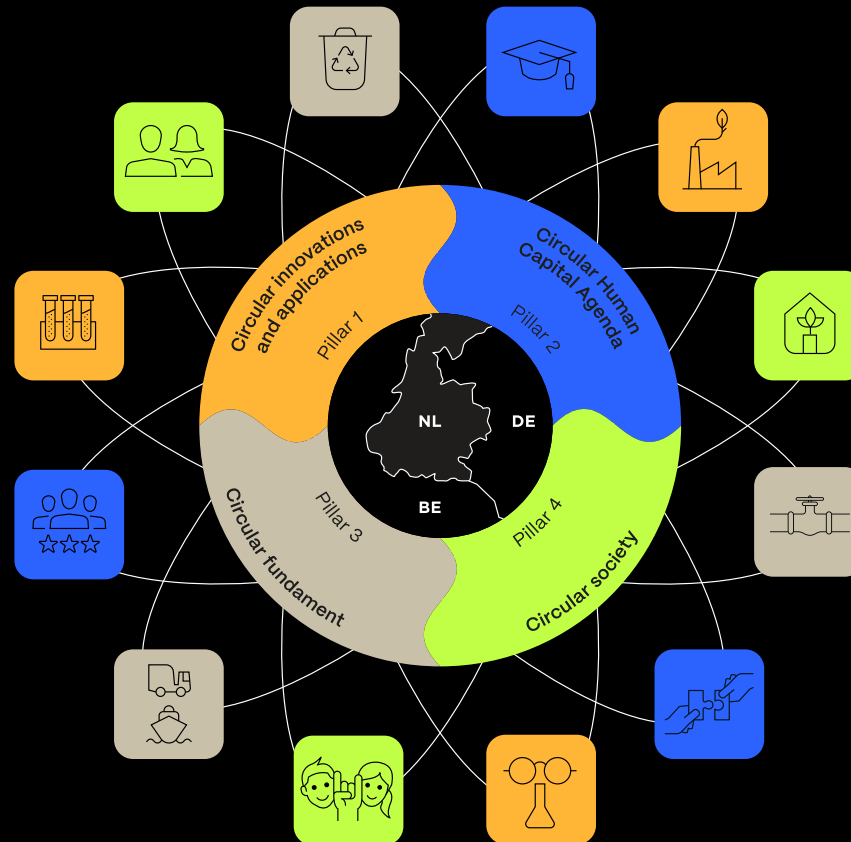



System Integral Cooperation

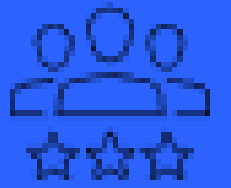
Circular co-creation



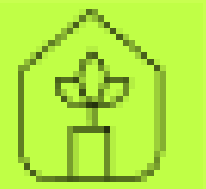
Circular foundation



Human capital



Circular Society

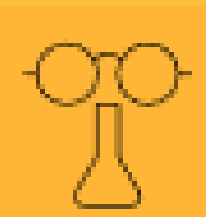


Circular Co-creation

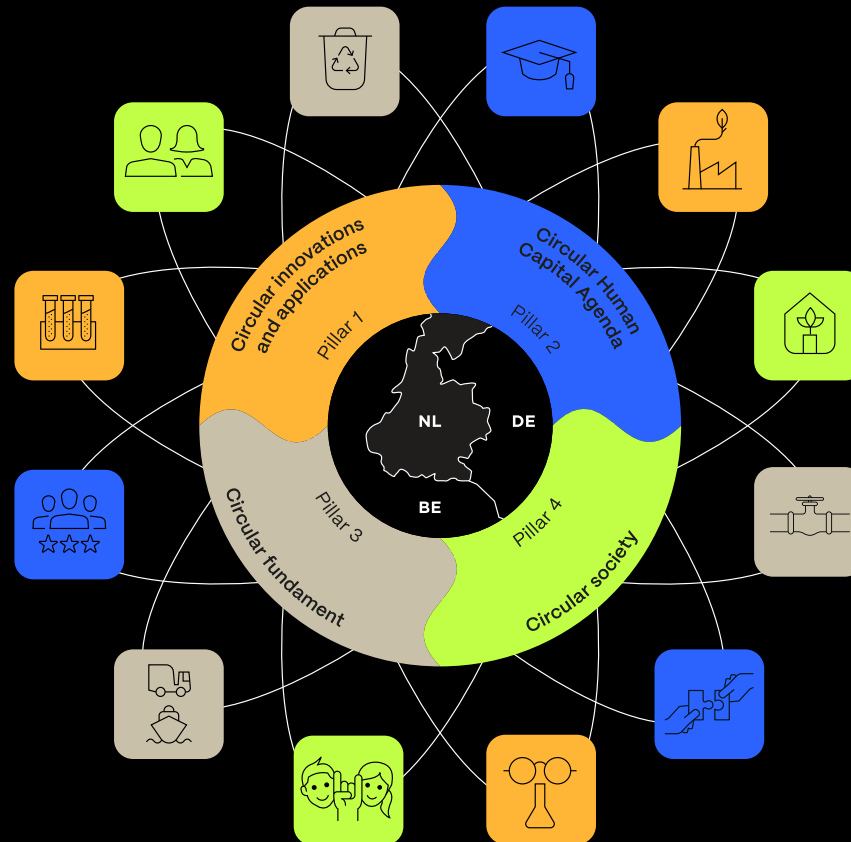



System Integral Cooperation

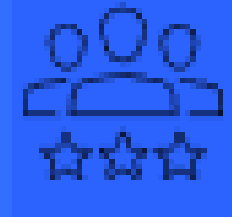
Circular co-creation



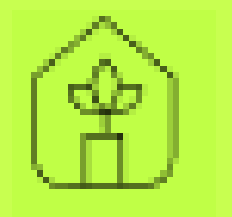
Circular foundation



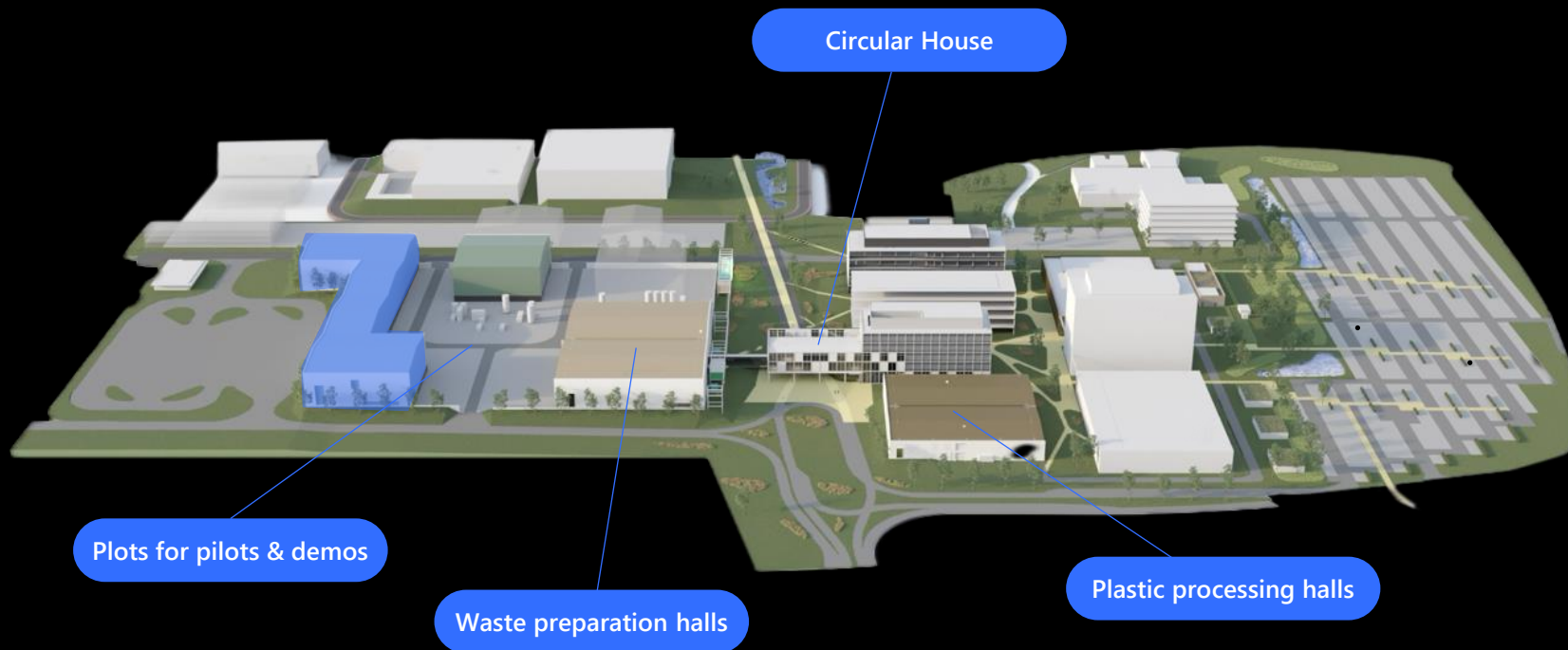
Human capital



Circular Society



Realizing a fully circular, open access, demonstrator



Brightlands Chemelot Campus & Chemelot industrial park

- Pilots & demos**
25.000 m2 with plot infra
- Waste preparation**
5.000 m2 equipment, operators, R&D support
- Circular House**
7.000 m2 design, community, talent
- Plastic processing**
4.000 m2 equipment, operators, R&D support

Brightlands Circular Space Facilities

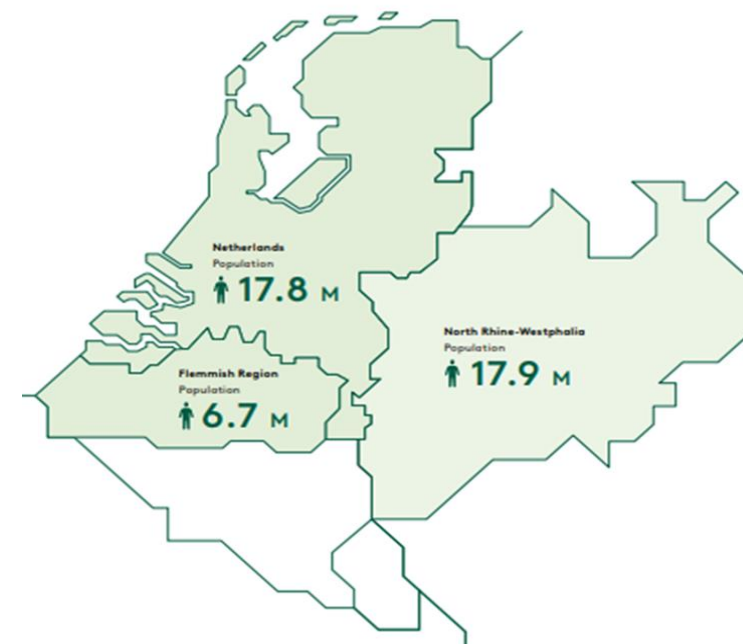
Investments & partnerships

Multi-billion investment
Public private partnerships
Networks
Project & programs



Syschemiq Horizon Europe Program

- Example: Consortium of 21 partners ARRA region /5 EU Countries
- R&D/demonstrator program – Big bang for plastic recycling - Regional systemic approach
- Developing new circular systemic solutions, new forms of corporation, business models and strategies to replicate and disseminate outcomes to other EU regions.



Syschemiq: covering BCS's circular cooperation perspectives

Circular specs and dual track governance support



Design for recycling



Collection, sorting and pre-treatment of plastic waste



City lab



Integrated regional value chain demonstrators



Upscaling study chemical Plastic waste recycling



Society and business Impact assessment



Dissmination, communication, replication, exploitation



Reasons to join BCS

research

quality

network facilities

time resources

costs compliance

expertise business

permits



Invitation

You're welcome

- to join the consortium programs
- upscale/apply your research
- start/scale up your company
- to analyse your circular materials
- join our talent programs
- invest in Brightlands Circular Space





Brightlands
Circular
Space

Thank you

Brightlands
Chemelot Campus



Maastricht University

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