

chemelot

The chemical innovation community

Chemelot as engine of international clusters supporting green chemicals industries



What will be presented?

- Chemelot as mini cluster
- Chemelot and green chemistry related clusters
 - Biobased Economy Limburg
 - Biobased Economy South Netherlands
 - O BIG-C, Bio Innovation Growth (mega) Cluster
- Scaling up cluster development; lessons learned

Chemelot: hot spot for chemistry and materials chemelot

- One of the largest Chemistry & Materials communities in Europe
- Open innovation ecosystem combining education, research and business
 - start-ups, SMEs, multinationals, universities and knowledge institutes
- Many global leaders in their product market combination
- Attractive environment for students and professionals
- Ambitious growth target in performance materials



Chemelot: many global leaders

























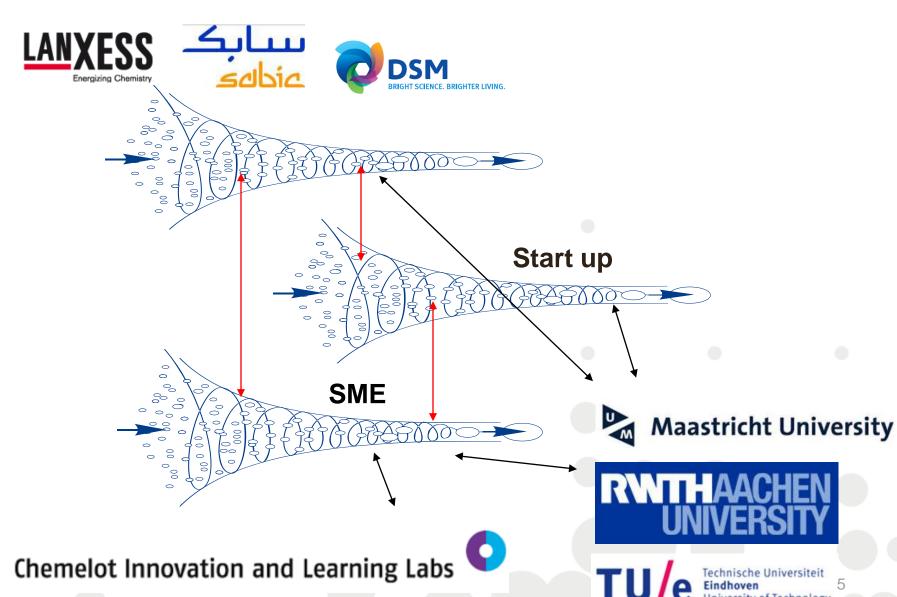






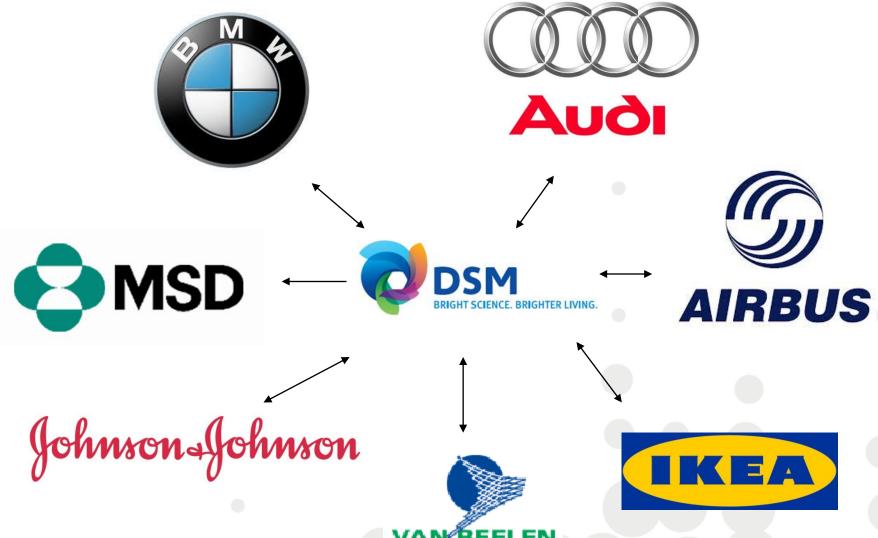
Chemelot: open innovation ecosystem Concentrated mini cluster





Chemelot: multiple global networks.....

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Chemelot: green chemistry related knowledge Institutes



Aachen-Maastricht Institute for Biobased Materials

Maastricht University, RWTH Aachen and Fraunhofer Institute

Chemelot Institute for Science & Technology



- Maastricht University, Eindhoven University of Technology, DSM and Chemelot Campus
- R&D, Education & Valorisation



Chemelot: shared infrastructure example



The biobased pilot facility is a full service infrastructure to pilot biobased technologies and processes, open to InSciTe partners

and third parties



Chemelot Innovation and Learning Labs





Contract research lab by students (3 levels) under professional guidance

- Synthesis Lab (with micro reactor equipment)
- Molecular Diagnostics Lab
- Material Lab
- Coating Lab















Chemelot Campus: Triple Helix ownership

Dutch Province of Limburg



DSM Nederland



Maastricht University/Maastricht UMC+



Common goal:

Euregional economic growth by accelerated growth of Chemelot Campus





Biobased Economy South Netherlands

































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BIG-C Bio Innovation Growth (mega) Cluster





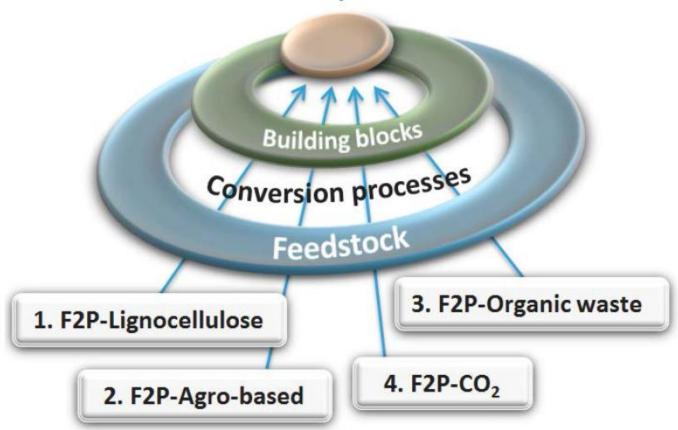
BIG-C Bio Innovation Growth (mega) Cluster





BIG-C Bio Innovation Growth (mega) Cluster

Consumer/Product







Scaling up cluster development

- Company
- Campus
- Region

What lessons could be applied to scale up cluster development to larger international level?

- Smart international region
- Europe

- Dedicated cluster development teams (senior level, triple helix)
- Focus on truly unique strengths
- Initiate bottom up cooperation's between parties based on 1+1>3
- Focus on true engagement of key people (organizations)



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