

Brightlands Chemelot Campus

Brightlands
Chemelot Campus



What?

Community for open innovation in
health and sustainability

Four rapidly growing campuses

Driven by worldwide social challenges
and transitions

-  **207 companies**
-  **11.724 jobs**
-  **8.198 students**
-  **1.127.000 m²**



What?

Four campuses,
four areas of expertise

Brightlands Chemelot Campus

Smart materials and sustainable
production of chemicals



77



1.900



660



216.000 m²

Brightlands Campus Greenport Venlo

Food and healthy nutrition



17



300



830



170.000 m²

Brightlands Smart Services Campus

Data science and smart services



40



350



100



21.000 m²

Brightlands Maastricht Health Campus

Regenerative and precision medicine,
innovative diagnostics



73



9.174

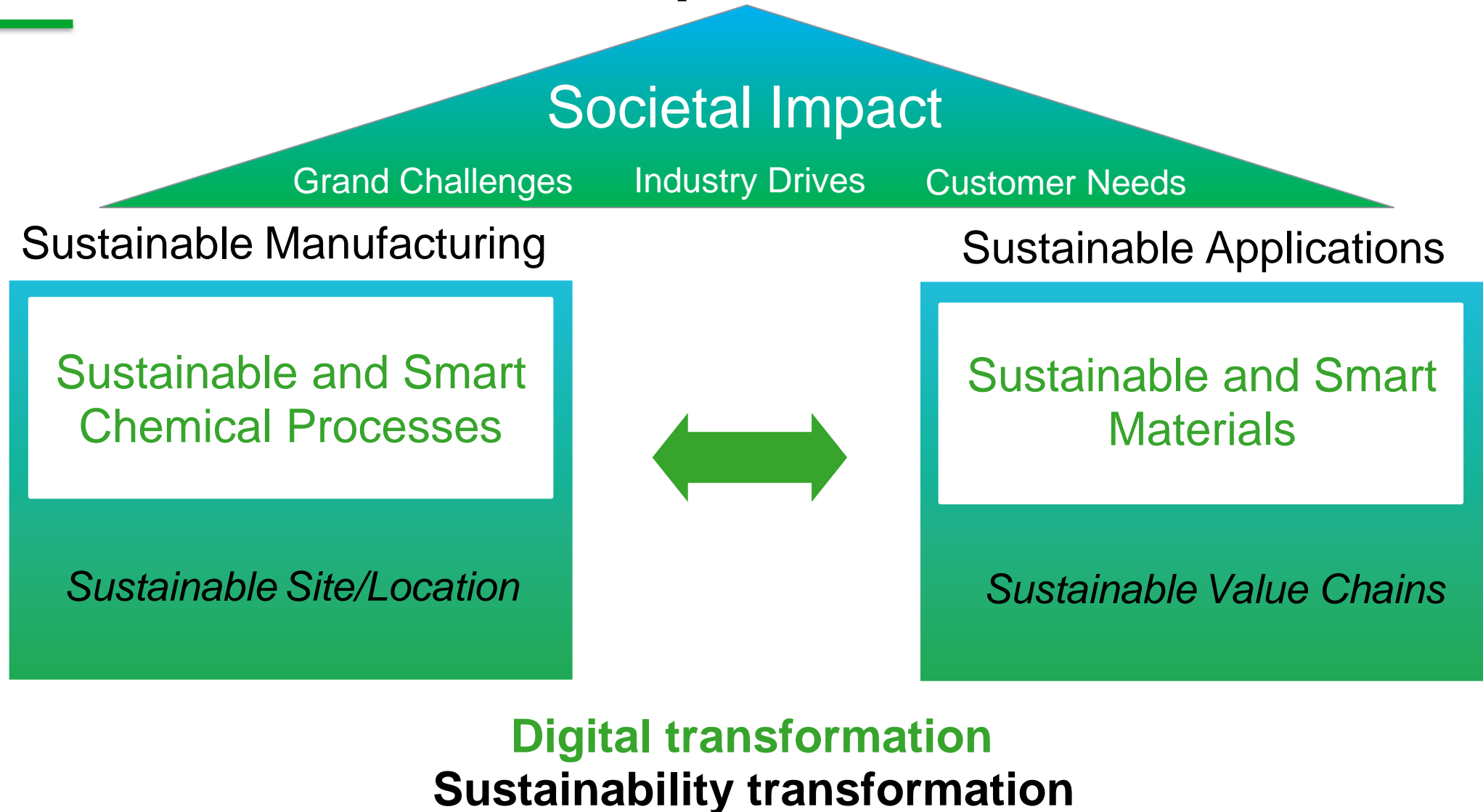


6.608

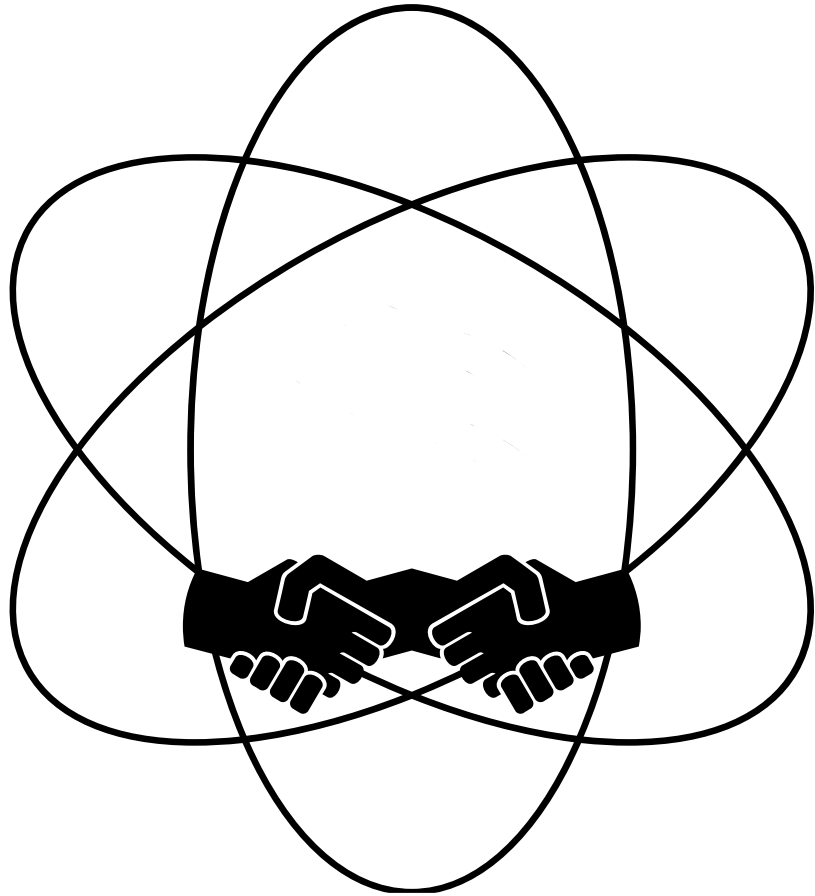


720.000 m²

Brightlands Chemelot Campus



Triple Helix Ownership



Partners:

Government

provincie limburg



Knowledge Institute



Maastricht University

Industry

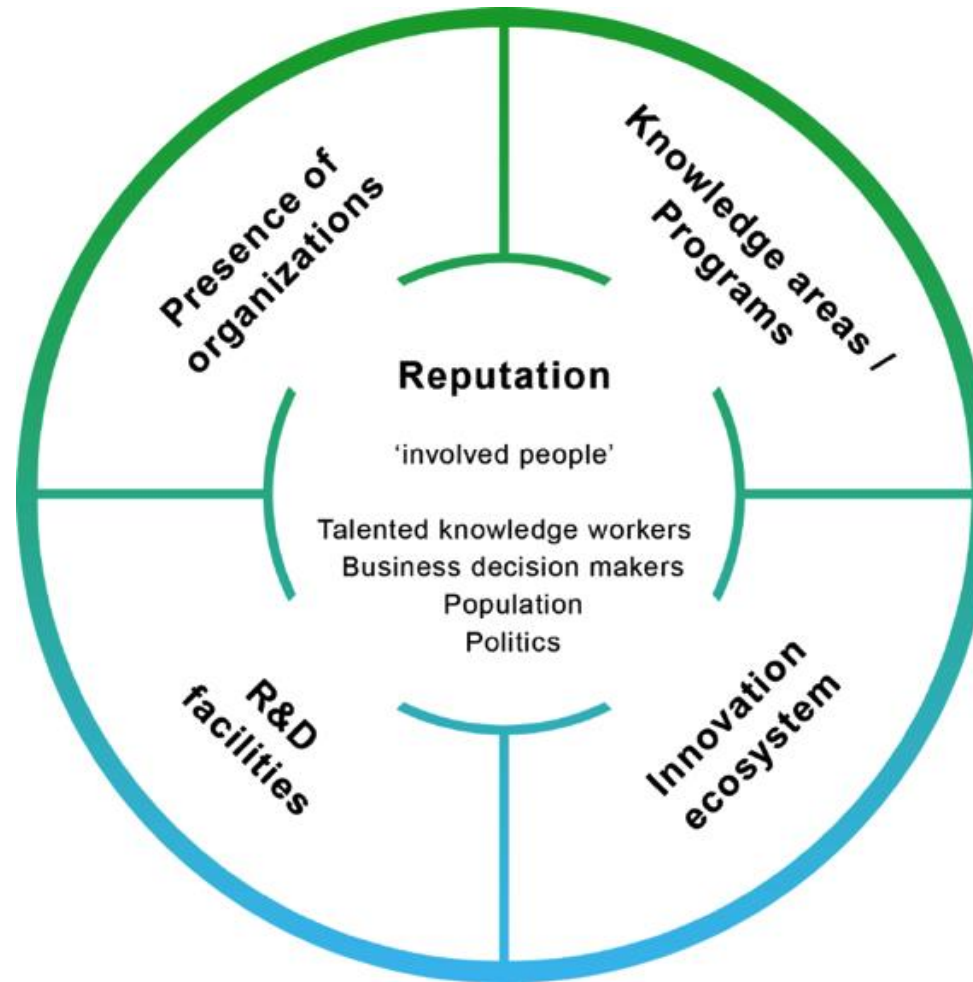


DSM

BRIGHT SCIENCE. BRIGHTER LIVING.

Brightlands

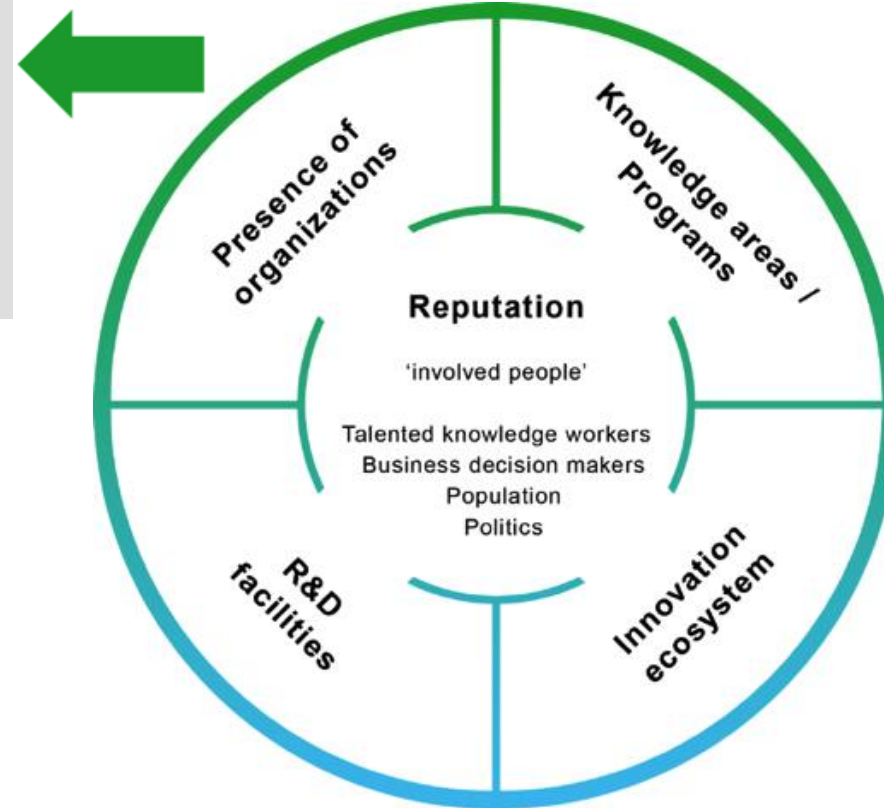
Campus Key Success Factors



Campus Key Success Factors

Knowledge Intensive Organisations:

- Corporates
- SMEs
- Startups
- Education Institutes
- Scientific Centers

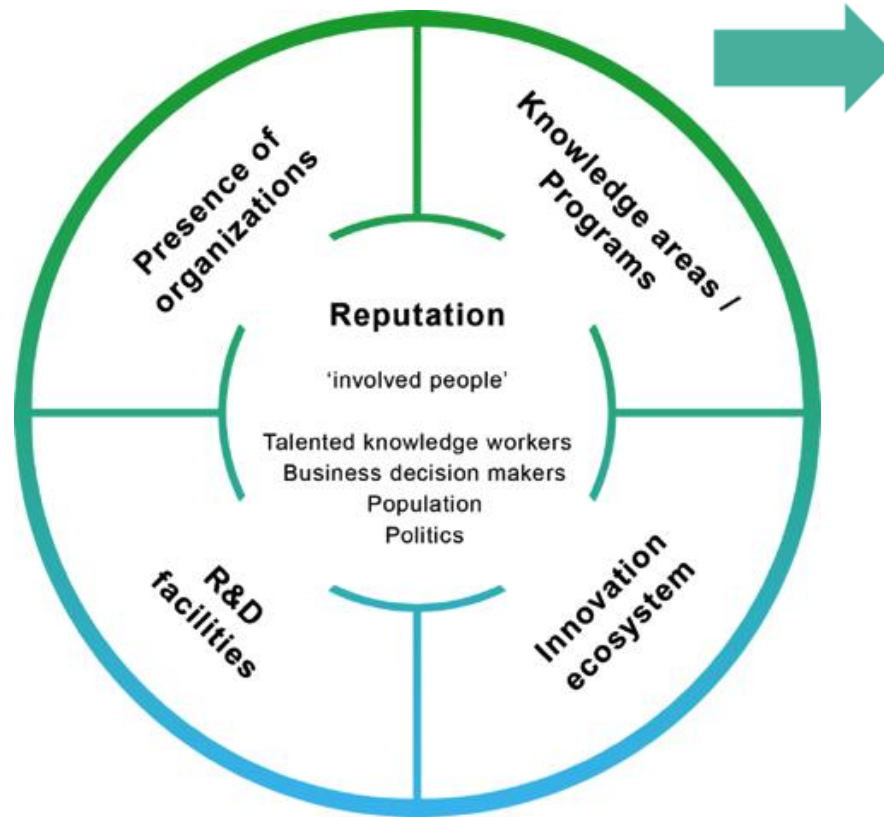


Unique knowledge and global networks

Corporates	<div><div><div>LANXESS</div><div>ARLANXEO</div><div>Performance Elastomers</div></div><div><div>سابك</div><div>sabik</div></div><div><div>DSM</div><div>BRIGHT SCIENCE. BRIGHTER LIVING.</div></div><div><div>sappi</div></div></div>
Startups	<div><div><div>Isobionics</div><div>Natural Ingredients</div></div><div><div>dbsl</div></div><div><div>XILLOC</div><div>Patient Specific Implants</div></div><div><div>FLOWID</div></div><div><div>reverdia</div><div>sustainable solutions powered by DSM + Roquette</div></div><div><div>Brightlands Innovation Factory</div></div></div>
SMEs	<div><div><div>avantium</div></div><div><div>BasicPharma</div></div><div><div>KRIYA</div><div>M A T E R I A L S</div></div><div><div>PharmaCell</div></div><div><div>CHEMTRIX</div></div></div>
Education Partners	<div><div><div><div>U M</div><div>Maastricht University</div></div><div><div>Chemelot Innovation and Learning Labs</div></div></div><div><div>ZU YD</div></div><div><div>TU/e</div></div><div><div>RWTHAACHEN UNIVERSITY</div></div></div>
Scientific Centers	<div><div><div><div>AMI</div><div>Biobased Materials</div><div>Institute of RWTH Aachen and Maastricht University</div></div><div><div>Chemelot InSciTe</div></div><div><div>Brightlands Materials Center</div></div></div></div> <div><div>Brightlands</div></div>

Brightlands

Campus Key Success Factors



Development of unique knowledge in Public-Private Partnerships

- Performance Materials
- Biomedical
- Biobased
- Enabling Technologies

Public Private Knowledge Institutes

Brightlands Chemelot Campus

Brightlands Maastricht Health Campus

AMI
Biobased Materials

Chemelot
InSciTe

Brightlands
Materials Center

Enabling
Technologies

M4I

LINK

Plant/vegetation as direct
source for chemicals
and materials

Maastricht University,
RWTH Aachen
Fraunhofer Institute

> Biomedical Materials
> Biobased Building
Blocks

TU/e, Maastricht
University, DSM,
Brightlands Chemelot
Campus

> Advanced Polymer
Materials and
Processing
> Eindhoven and
Brightlands
Chemelot Campus

TNO, Brightlands
Chemelot Campus

Enabling Technologies
> Advanced analytical
infrastructure

Brightlands Chemelot
Campus, Brightlands
Maastricht Health
Campus

Chemical imaging
technology platform:
> Electron microscopy

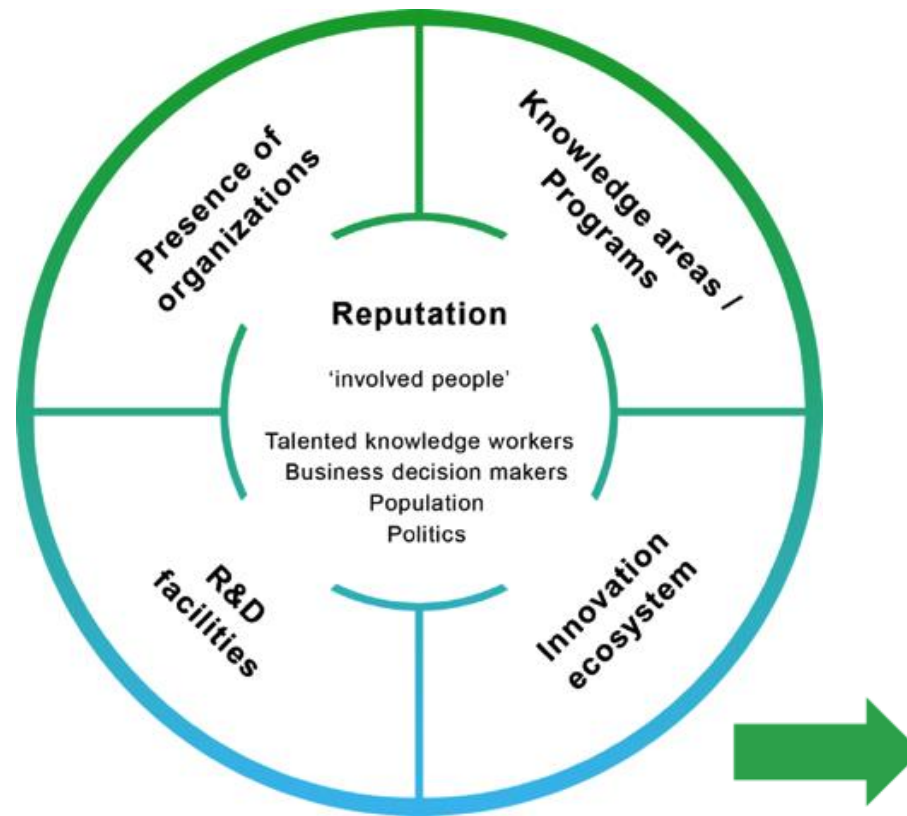
Maastricht University,
Enabling Techno- logies,
Brightlands Chemelot
Campus

Institutue forTechnology-
Inspired Regenerative
Medicine (MERLN)

Province of Limburg

Brightlands
Sporen

Campus Key Success Factors



Innovation Ecosystem

- Talent development
- Campus community development
- Quality of Life

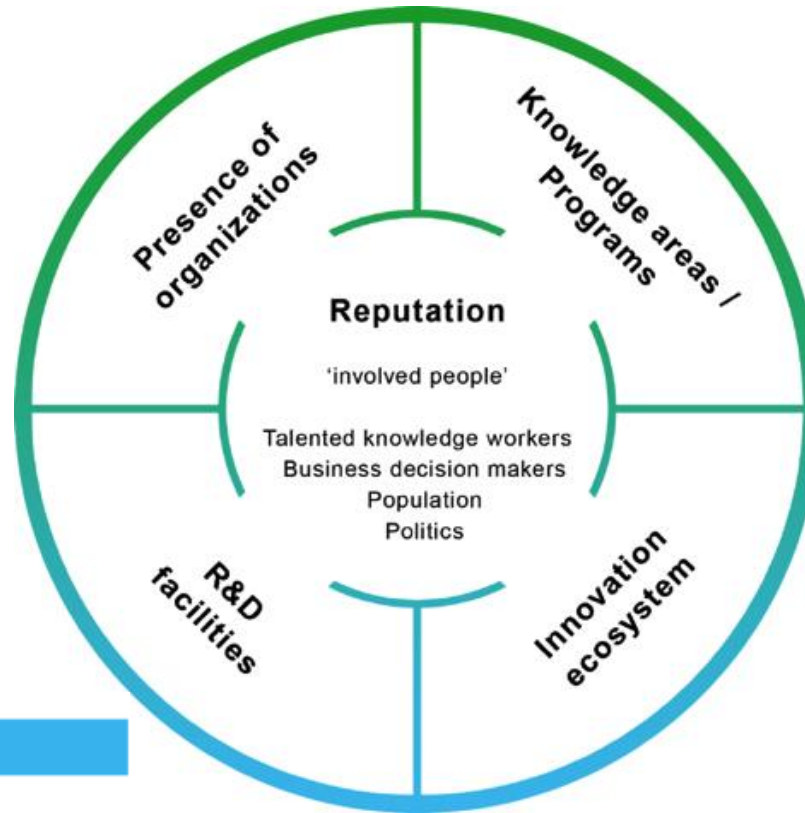


Open Innovation = people working together



50%
30%
20%
10%
0%

Campus Key Success Factors



R&D Facilities

- Real Estate (offices, labs)
- Pilot and miniplants
- Cleanrooms
- Analytical infrastructure

R&D Facilities

- **Laboratoria, Offices**
- **Enabling Technologies**
- **Pilot & Mini Plant Facilities**
Cleanrooms



Center Court – 2016

central facilities, multi-tenant



- Restaurant, conference rooms, sports facilities and shops
- Meeting place for campus workers
- Helping to attract knowledge workers and students
- Serving as a stylish venue to host external visitors
- Facilities to host international scientific conferences.

Brightlands
Spearhead

Campus Key Success Factors

Unique knowledge and global networks

	FIBRANT	AnQore	SEKISUI
Corporates	ARLANXEO	سابك	DSM sappi
Startups	Isobionics	XILLOC	Brightlands Innovat Factory
SMEs	avantium	KRIYA	PharmaCell
Education Partners	Maastricht University	ZU YD	leeuwenborgh
Scientific Centers	Chemelot InSciTe	Brightlands Materials Center	TU/e

R&D Facilities

- Laboratoria, Offices
- Enabling Technologies
- Pilot & Mini Plant Facilities



Knowledge areas – Programs

Brightlands Chemelot Campus			Brightlands Maastricht Health Campus		
AM Balanced Materials	Chemelot InSciTe	Brightlands Materials Center	Enabling Technologies	MEM	LINK
Plantification as direct source for chemicals and materials Maastricht University, RWTH Aachen, Fraunhofer Institute	> Biomedical Materials > Biobased Building Blocks TUE, Maastricht University, DSM, Brightlands Chemelot Campus	> Advanced Polymer Materials and Processing > Enkoven and Brightlands Chemelot Campus TNO, Brightlands Chemelot Campus	Enabling Technologies > Advanced analytical infrastructure Brightlands Chemelot Campus, Brightlands Maastricht Health Campus	Chemical imaging technology platform > Electron microscopy Maastricht University, Enabling Technologies, Brightlands Chemelot Campus	Institute for Technology-Inspired Regenerative Medicine (ITERIM)



Biobased Companies at Brightlands Chemelot Campus



Biobased Expertise and Knowledge Institutes



Maastricht University



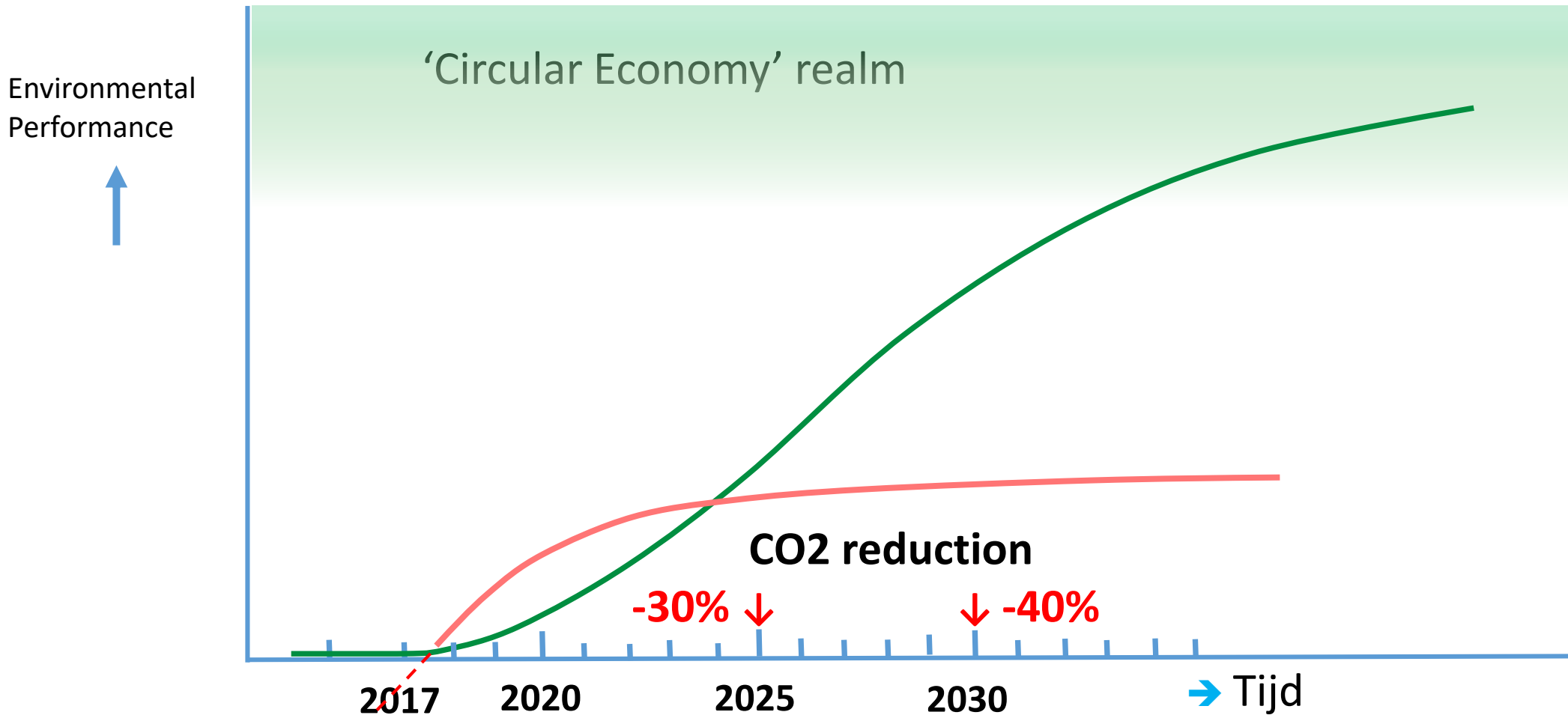
Brightlands
Spiegelburg

Biobased facilities

An aerial view of a large industrial facility, likely a biorefinery or bioprocess plant. The facility features several large, multi-story glass-walled bioreactors or fermentation tanks, illuminated with warm orange and yellow lights. A large, curved, blue-lit duct or pipe runs along the side of the building. In the center, a group of people are gathered, observing the equipment. To the right, another large glass-walled structure is illuminated with green light. The overall atmosphere is modern and high-tech.

official opening Multi-Purpose Pilot Plant 25 May 2016

'Continuous Improvement' may appear insufficient



ROLE BRIGHTLANDS CAMPUS

Integrating Ideation-, Conceptualization-, and Scale-Up –Hub

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