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INSIGHTS FROM MULTIDISCIPLINARY ACTORS ON URBAN REGENERATION PLANNING

Cluster Cleantech: cutting-edge sector from the industrial past



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Project Manager, District Cleantech























INDUSTRIALISING INNOVATION

for a sustainable transition to address the climate emergency.





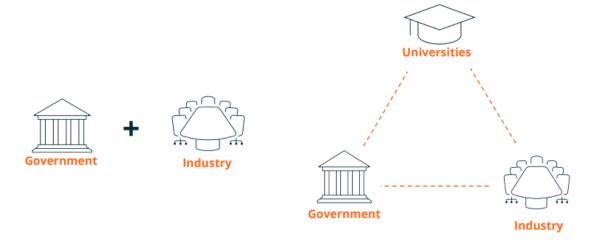
01	Innovation through ecosystems
02	District Cleantech: general overview
03	How to trigger enthusiasm for the ecosystem?
05	Extended team of the District Cleantech

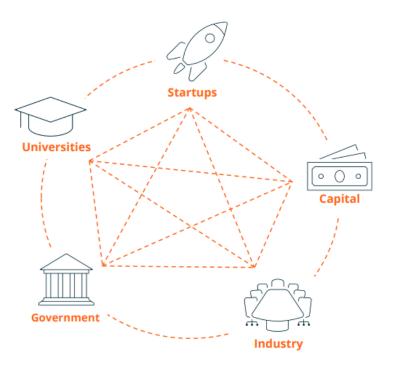
106 International Connections and cross-cutting dynamics

01 Innovation through ecosystems

Catalyst for change

Clusters and Innovation Ecosystems





Network

- Government-led initiative
- Agglutinate different businesses
- Business network backed by government
- Act as Voice of the sector

Cluster

- Multiple stakeholders
- Added value network
- Tap into innovation potential
- The Voice and The Hands of the sector

Ecosystem

- Multiple stakeholders, multiple streams of action
- Encompass one or several clusters
- Innovation-driven
- The Voice, Hands and beating Heart of a thriving sector

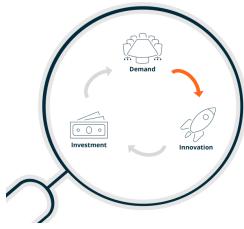


- SMEs in clusters grow up to 20% faster than market average
- Clusters account for 25% of jobs in Europe
- The highest performing European clusters have productivity 140% above average

Source: European Observatory for Clusters and Industrial Change



Shaping Green Transitions into Action



- Faster job creation, higher salaries
- Bring more innovation to market, more patents
- Rapid **creation of start-ups** and SMEs
- Unlock public funding opportunities
- Attract private investments
- Exploit regional strengths



The keys to building a successful and resilient cleantech ecosystem

- Network, network, and network.
- Adopt **the start-up mindset**: test, validate, accelerate.
- Build a resilient economic model.
- Capitalize on the **IKEA effect**, leverage your strengths.
- Focus on Impact and Entrepreneurship.
- Use the experience of more mature ecosystems



- **01** Innovation through ecosystems
- 02 District Cleantech: general overview















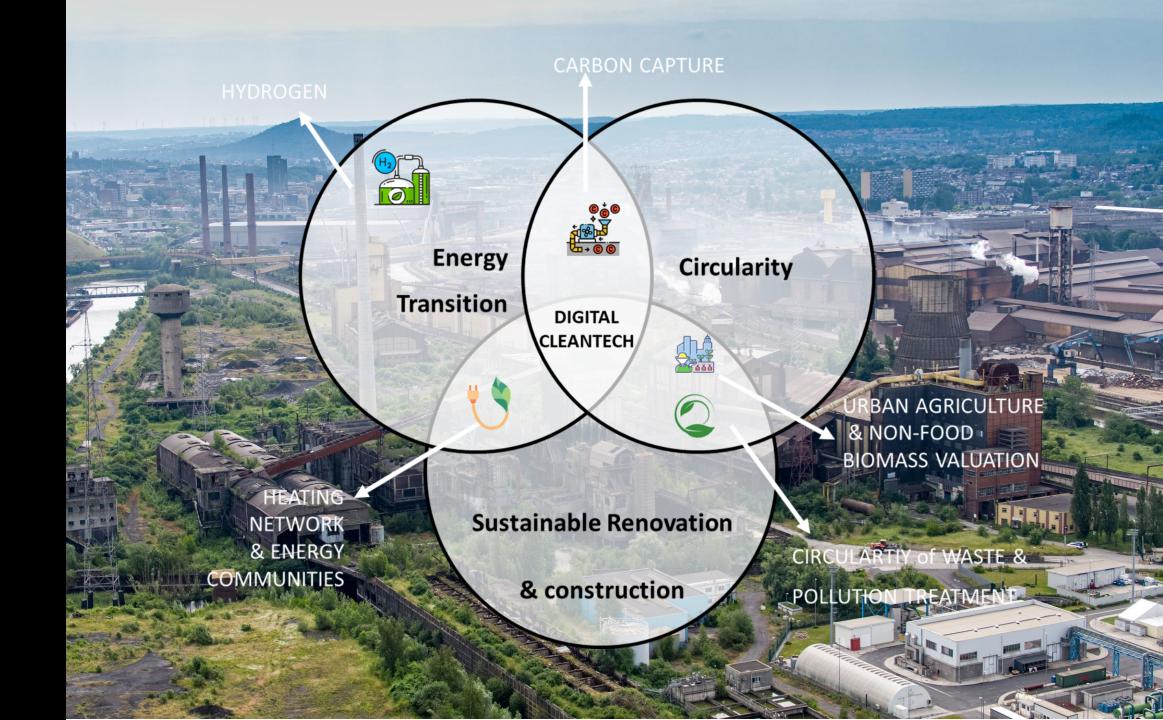


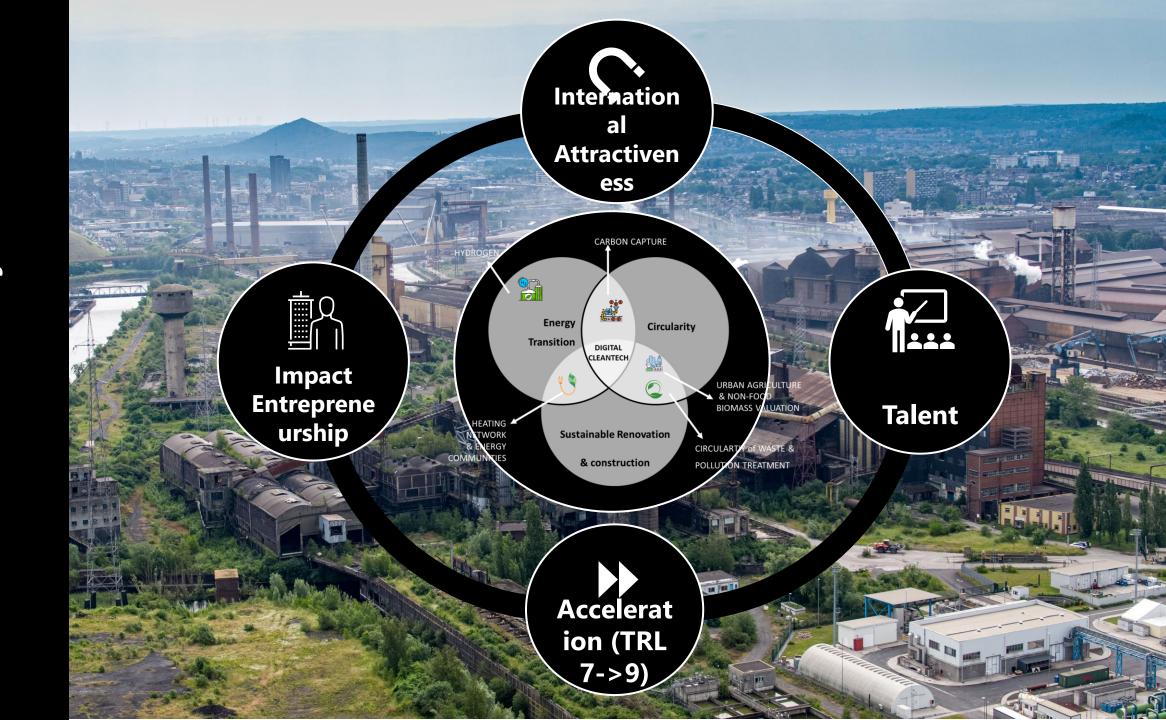




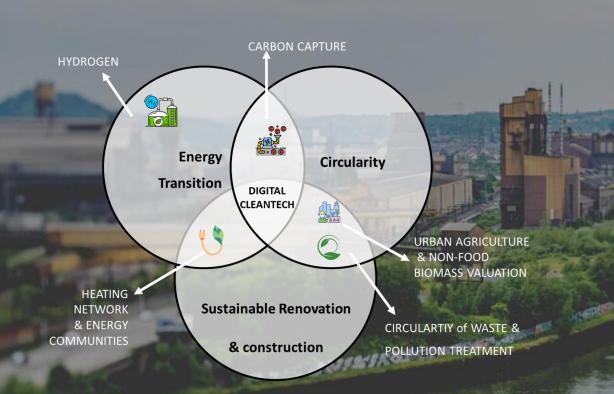


2 The District Cleantech ecosystem





Three Focus Areas



Four satellite ecosystems

1. Hydrogen & Energy



Technological innovations related to the transition towards green energy and decarbonization

3. Urban Agriculture



Greenhouse production in synergies with its environment

2. Sustainable renovation and Construction



Energy renovation including prefabrication, deconstruction, circularity,...

4. Wasteland revival, circularity



Wasteland revival, soil and water remediation and circular projects

One Upscaling Lab associated with each satellite ecosystem



Technological innovations related to the transition towards green energy and decarbonization



Greenhouse production in synergies with its environment

2. Sustainable renovation and Construction



Renolab

Innovative platform dedicated to **prefabication and circularity**

Energy renovation including prefabrication, deconstruction, circularity,...

4. Wasteland revival, circularity



Brownfield Lab

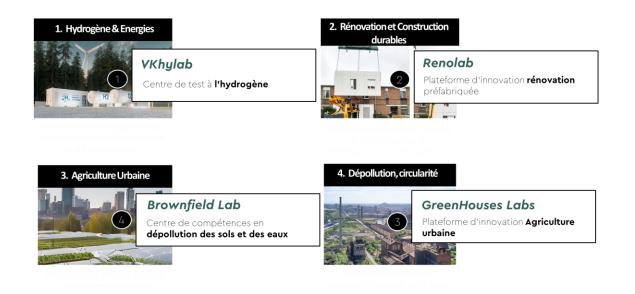
Center of Expertise and innovation in Soil and Water Remediation

Wasteland revival, soil and water remediation and circular projects

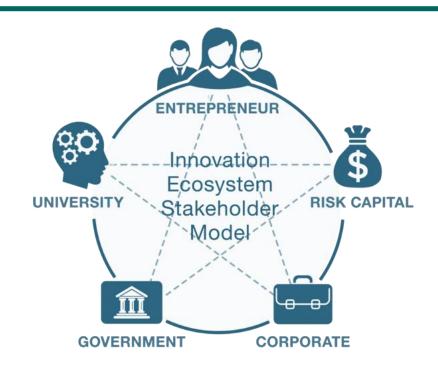
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How to trigger enthusiasm for the ecosystem?

A. STRUCTURE SATELLITE ECOSYSTEMS WITH COMMON GOALS AND SPECIFIC INFRASTRUCTURES



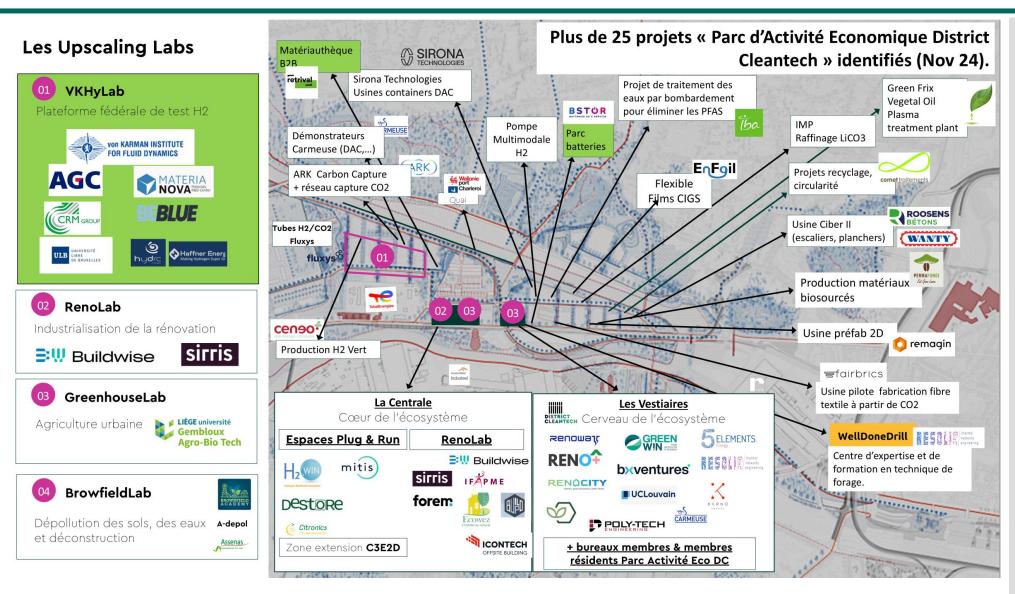
B. ENGAGE **5 DIFFERENT STAKEHOLDERS** AROUND **CONCRETE AND INNOVATIVE PROJECTS**



ACCELERATE, SCALE UP, INDUSTRIALIZE...

How to trigger enthusiasm for the ecosystem?

C. A ROADMAP OF CONCRETE PROJECTS TO BE INSTALLED ON THE SITE



MORE THAN 25
PROJECTS TO BE
POTENTIALLY
INSTALLED:

20 to 30 Ha of lands

30% of building Les Vestiaires

15% of building La Centrale

November

How to trigger enthusiasm for the ecosystem?

D. BOLSTER THE ECOSYSTEM WITH A ROBUST ROADMAP CENTERED ON PROJECTS, EVENTS, AND WORKSHOPS

10 STRATEGIC PROJECTS

- **4 "Satellite Ecosystems" projects :** creation of a project portfolios and setting-up of the associated upscaling labs for each Satellite Ecosystem.
- **5 "DC Infrastructures" projects :**Rehabilitation of Porte Ouest infrastructures as a catalyst for innovation in the Cleantech sector.
- f 1 "Innovation for Public tendering" transversal project

STRENGTHENING THE ECOSYSTEM: ACTION PLANS

- Over **40 thematic workshops** designed to create projects for members.
- Specific actions/projects/workshops requested by individual member.
- Coordination of the Just Transition Fund portfolios (85M€).
- Active ecosystem engagement through networking events, newsletters, "Meet our Leaders of Change" sessions, "startup pitch" sessions, Climathon,...
- "Business development" actions for the ecosystem.
- Driving initiatives to enhance training in cleantech careers, with a focus on empowering impact entrepreneurship.
- A strategy for regional and international collaborations.

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- O4 Satellite ecosystems and associated projects

Hydrogen & Energy

5 Stakeholders Engagement

<u>H2</u>: BEBLUE, Mitis, Haffner, H2Win

<u>CC</u>: Sirona technologies, ARK

<u>Energies</u>: Résolia, Destore, Karno, Raysun, BSTOR, IMP
techno., Renewind, aug-e, WelldoneDrill, SunSoak, Enfoil,

ULB, CRM, VKI, C3E2D, MateriaNova, UMons, Multitel, UCLouvain, CETIC, CENAERO

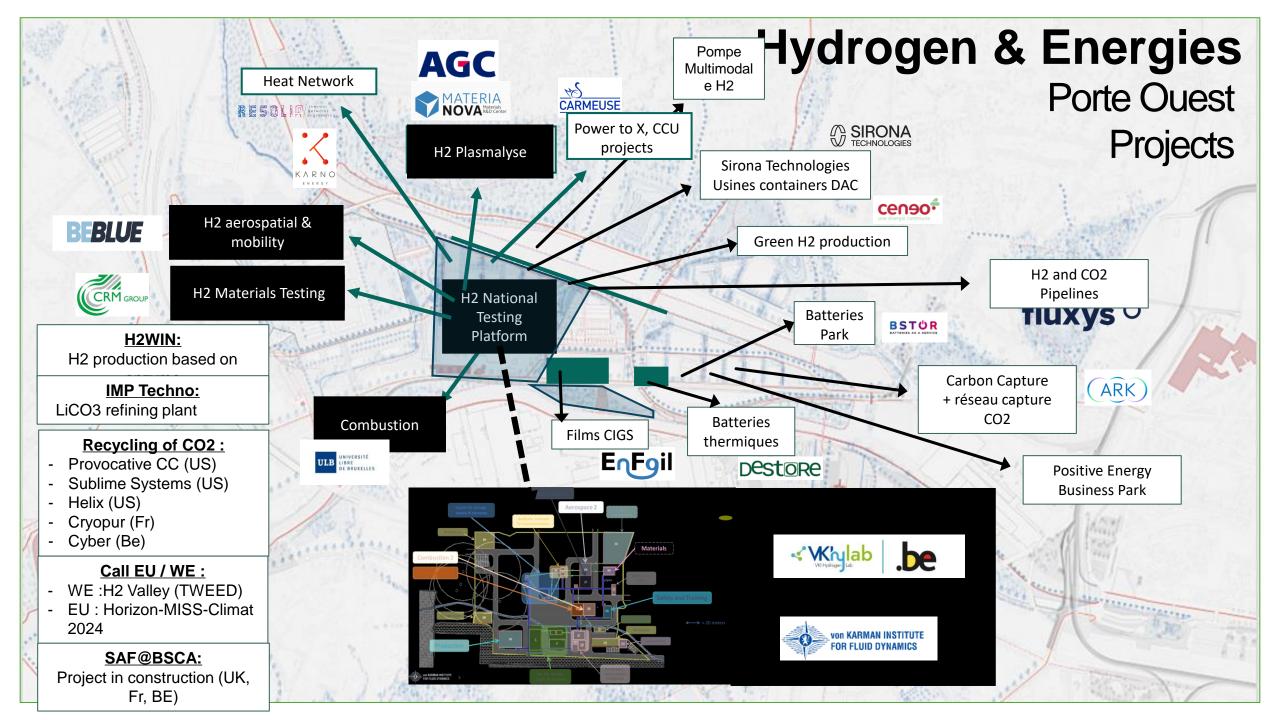
> GreenWin, Mecatech, Skywin, LIW

ENTREPRENEUR Innovation_ Ecosystem Stakeholder Model

Sambrinvest, WE, Industrya, Capricorn

IIS e-wallonHy, CENEO, FOREM, IFAPME, IIS CETWA, PAC, Charleroi TWEED, (Belgium H2 Council)
AGC, CARMEUSE, (TE), Industeel, BESIX,
Equans, Bsolutions, (Engie), Aperam,
Riva, Proximus, Duferco Wallonie, Bpost,
Enerdeal, Full-Service





Satellite Ecosystem: Wasteland revival, water and soil remediation

Zoom on the BrownFieldLab



More than 1250 Ha of brownfield in Wallonia!

- •Job Creation Potential: Wallonia's 1,250 hectares of brownfield sites could generate over 30,000 jobs.
- •Investment Opportunities: The cleantech sector attracts significant investor interest, with potential investments ranging from €1 billion to €5 billion depending on the chosen technologies and infrastructure.
- •Innovation in Depollution: The depollution sector holds great innovation potential, enabling faster industrial brownfield rehabilitation and scalability

Zoom on the BrownFieldLab

Training in land remediation

•Objectives: Improve the quality of interventions, Accelerate the rehabilitation of 1,250 hectares in Wallonia, Develop training modules, including on the District Cleantech site.

Proactivity towards future health crises

Expertise and Innovation Center for land treatment, Development of land remediation methods for "new" pollutants (PFAS, antibiotics, endocrine disruptors, microplastics, etc.).

Innovation

1.Innovation in public markets, circular economy challenges in public calls related to remediation (PPP, innovative calls, etc.),

Innovation in water and soil remediation and temporary use method for industrial brownfields: solar panels, plants etc.

5 Stakeholders engagement

GreenFrix, (CEDEBEAU)



Remind, CTP, CRM,

Waste2Bio Ulg, UNIVER



Sambrinvest, WE,

Besix

IIS WASTE2BIO

FOREM, IFAPME,

PAC, Charleroi,

WE (aménagement des

friches)

Spaque,

IBA, Duferco Wallonie, GreenWin,

LIW, Eiffage, COMET, Wanty,

Roosens Beton, Belgarena,

Ecoterres, (JC), (Universoil),

INDUFED, (Brownfield

Academy),(DcEnvironnements)

Innovation through ecosystems 02 District Cleantech: general overview 03 Extended team of the District Cleantech 05

District Cleantech
Extended Team







Marc Van Den Neste



Margaux Monforti

igretec•



Technology roadmaps Co-events Projects Cleantech International



I FÄP M E

Talent & Training





RENOLAB EU projects Massification of energy renovation



Strategy & Tactic
Operational support



Venture Studio Cleantech







R&D and innovation partners Pilots developer





Digital and sensors EU projects Numerical twins







Technology roadmaps Projects



Strategy H2 Wallonia (H2HUB)

85 District Cleantech members

MEMBRES PLATINUM





























groupe comet













MEMBRES PREMIUM

































MEMBRES REGULAR



eloy







3 investors:















Citronics

POLY-TECH







BSTOR





mitis





 H_2























BESIX

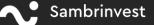




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Matgenix











- ✓ Business development: access to the Cleantech District network
- ✓ Innovation, fundraising: connecting with the right people (C-level, relevant individuals, etc.)
- Expansion strategy: desire to establish on the Cleantech District site
- National and international visibility: connecting with the international network of the Cleantech District

Startups @ District Cleantech

Energy Transition: clean energy, hydrogen, carbon capture,....









Thermo Power Systems









CTX

bxventures



















Sustainable renovation: Prefabrication,...









Circularity: Construction, electronics, materials, urban agriculture









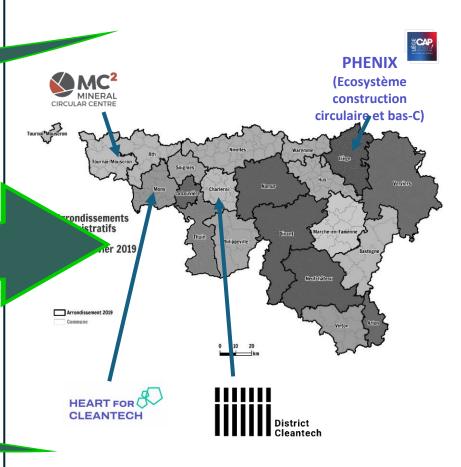






District Cleantech Columbus La <u>Urban Agri.</u> GreenHouseLab **H2 Testing** « Whylab be Prefab&Circular **Dépollution** RenoLab Virtual + Physique DepolluLab **Les Vestiaires**

CLEANTECH VALLEY





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International Connections and cross-cutting dynamics

International Cleantech Connections

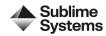
BOSTON CLEANTECH ECOSYSTEMS

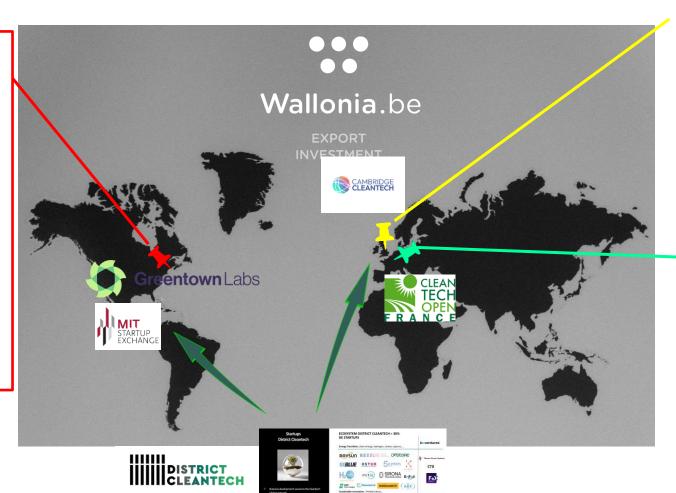
- GreentownLabs
- MIT REAP, VMS, SE
- St
 \[
 \]
 AeroShield











Startu

ns

CAMBRIDGE CLEANTECH

- MOU signed (May 24)
- Co-events
- Starturs:



CLEANTECH OPEN FRANCE

- MOU to be signed in coming weeks
- 680 startups (alumnis)
- · Cryo Pur













