

EcoInnovation Cluster

General Assembly
Jan. 18th 2018



LUXINNOVATION
TRUSTED PARTNER FOR BUSINESS

Agenda

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Word of the President – Mr Romain POULLES

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Context

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Eco-Innovation Cluster

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Priorities and objectives

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Organisation and events 2018

EcoInnovation Cluster

Word of the President

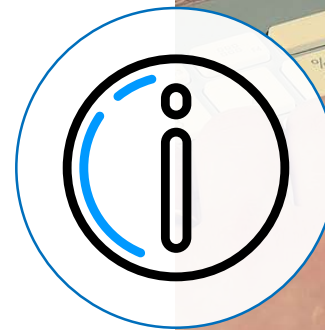


**LUXEMBOURG
ECOINNOVATION
CLUSTER**

Achievements

2017

- **Event: Circular Economy Hotspot Luxembourg**
- **Project: Hot Spot Wiltz**
 - nomination of a Project Manager
 - implementation of Circular Economy principles
- **Networking: Launch of the Greater Region Cleantech Network – Greater Green**
- **Programme: Fit 4 Circularity**
 - first results (Astron, Contern, Ramborn)



Human resources

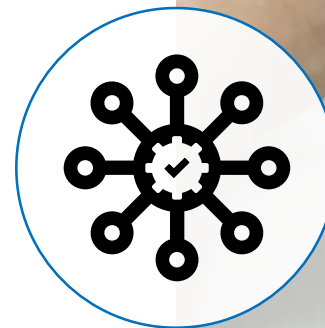
2017-18

Departures

- Marcel Klesen (Cluster Manager)
- Claude Feiereisen (Deputy Cluster Manager)

New team:

- Lucien Hoffmann (Director - LIST ERIN department), new Vice President of the Cluster Steering Committee
- Charles-Albert Florentin, new Cluster Manager



Strategy

2018

- **Working programme: focus on material flows and ecocities**
- **Project mode: select flagship projects (plastics, paper, deconstruction waste, biogas...)**
- **Carry on the promotion of the Fit 4 Circularity programme**



EcoInnovation Cluster

Context

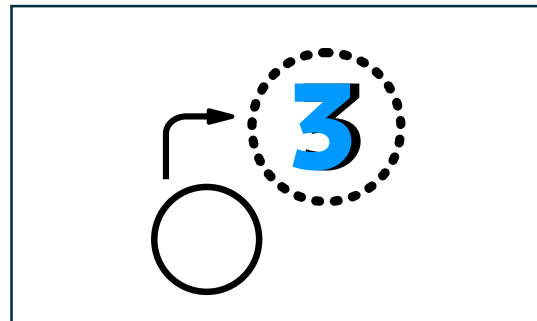


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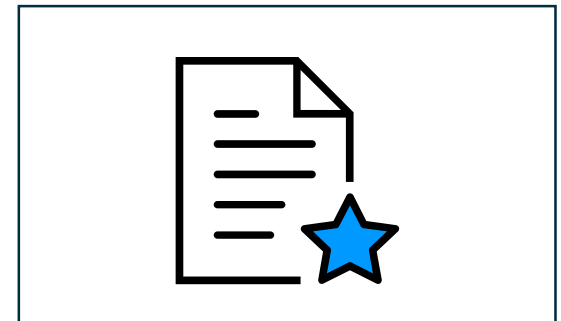
Context



2030 Agenda
adopted by the
Luxembourg
government



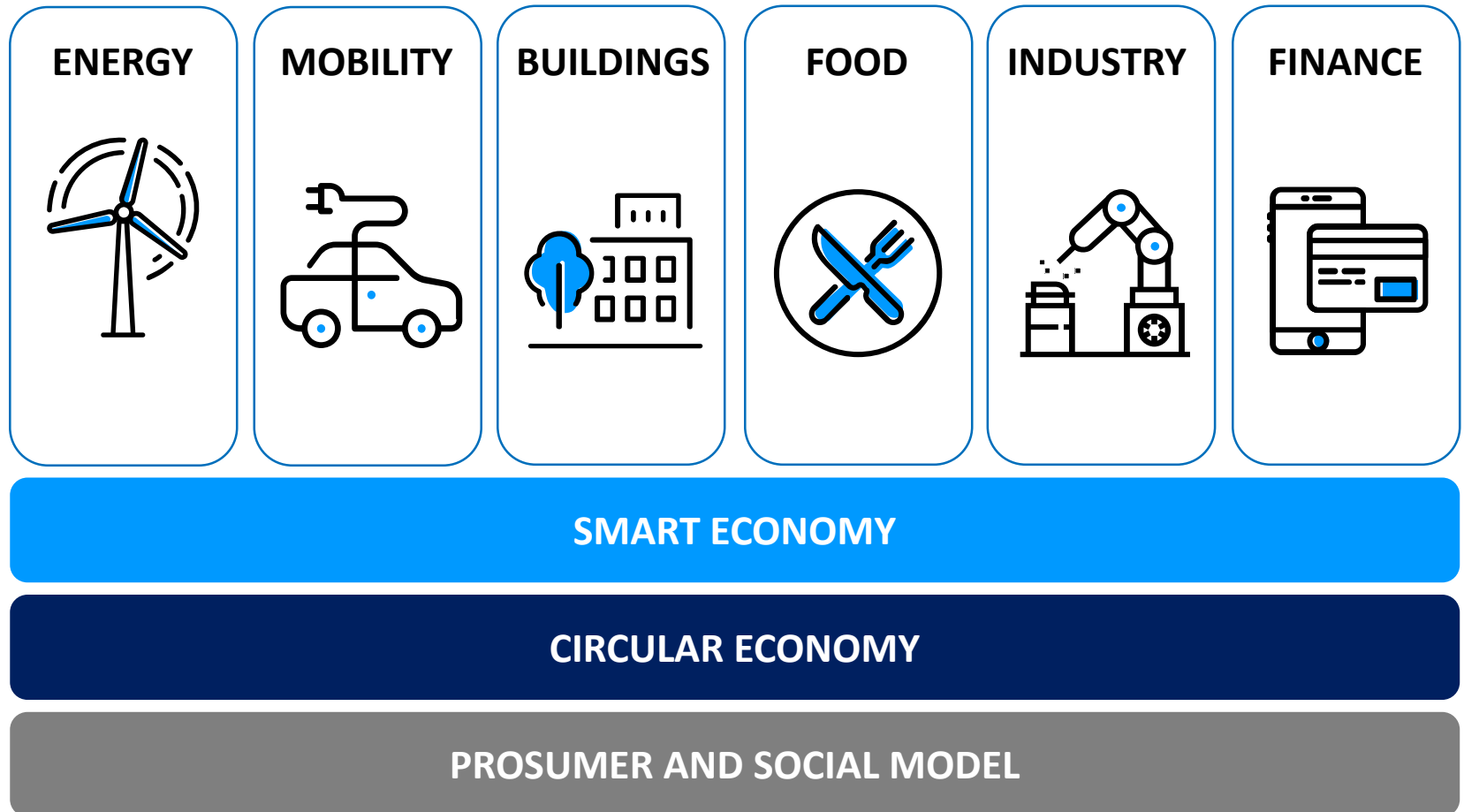
**Third Industrial
Revolution**
J. Rifkin's strategy study
for Luxembourg



Cleantech strategy
for sustainable growth
Ministry of Economy
2012

Context

Third industrial revolution

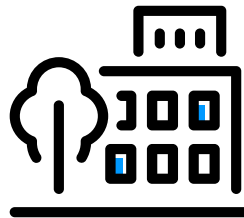


Context

Cleantech Luxembourg

SMART CITIES

Sustainability,
mobility, connectivity

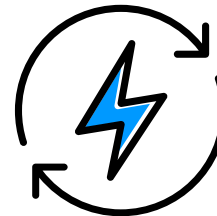


WATER

Drinking and waste
water management

BUILDINGS

Construction and
wood sector

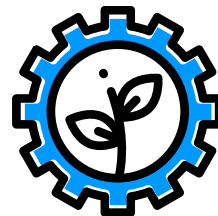


ENERGY

Energy efficiency,
renewable energy and
storage

CIRCULAR ECONOMY

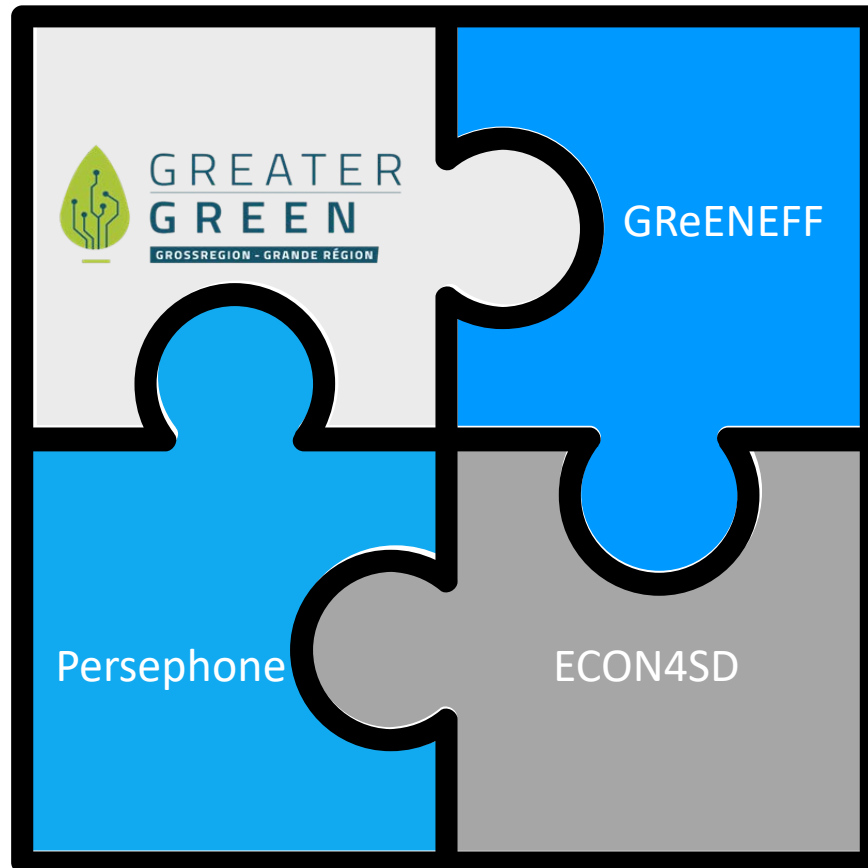
Enterprises and politics



Context

Partners projects

Meta Cluster Environment



Energy efficiency in buildings

Research on biogas, digestates, nutrients

Sustainable buildings

Context

Greater Green

Luxemburg: Luxinnovation,
Luxembourg Institute of Science
and Technology, Neobuild

Frankreich: Region
Grand'Est, Hydreos, Pôle
Fibres Energie Vie, Institut
Carnot Energie
Environnement en Lorraine



Belgien: AWEX, Region Wallonie,
Cluster Plastiwin, Pôle GreenWin,
Cluster CAP 2020, Cluster Eco
Construction, INFOPÔLE Cluster
TIC, Cluster TWEED, Cluster Val+

Rheinland-Pfalz:
Umwelt-Campus Birkenfeld,
Ecoliance e.V.,
Umweltministerium Rheinland-
Pfalz

Saarland: htw saar,
Staatskanzlei des
Saarlandes



Context

Greater Green: objectives

- Networking of GreenTech actors in the Greater Region
- Sensibilising SMEs and research centres to cross border collaboration
- Increasing the attractiveness and international visibility of the greentech sector in the Greater Region
- Increasing exportation rate
- Shortening innovation cycles, with a positive impact on
- jobs creation and mobility

Context

Greater Green: topics

- **Circular Economy**
 - Eco-design
 - Bio-economy and green chemistry
 - Materials flows, waste recycling and reuse
- **Sustainable buildings**
 - Design
 - Deconstruction waste
- **Decentralised energetic systems**
 - Solar and wind energy
 - Hydraulic energy, geothermy
 - Biomass, methanisation
- **Water treatment and management**



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Priorities and objectives



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Clusters

Industry clusters

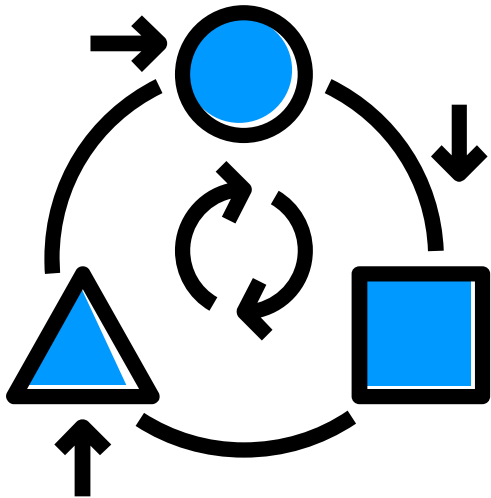
Establish

- Synergies
- Dynamic relationships
- Network between companies
- Successful triple helix partnering,
- Building blocks of regional and national economies.

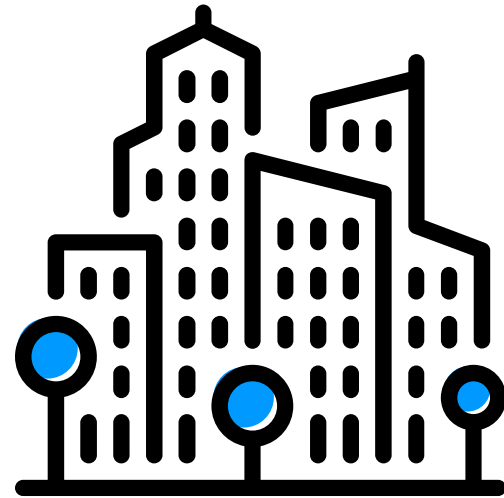


Priorities

Circular economy

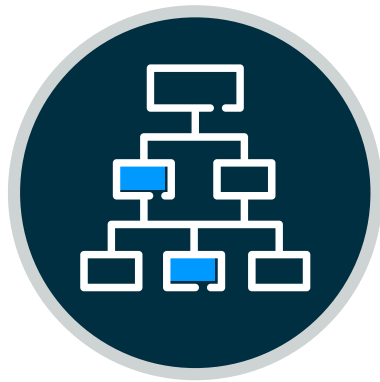


Ecocities and urban metabolism



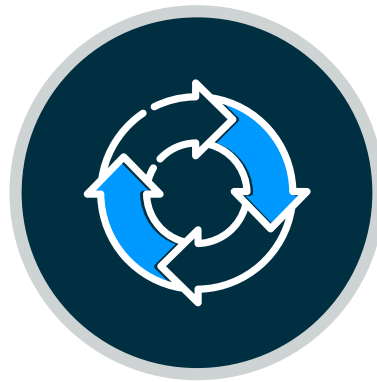
Circular economy

Priorities



Material flows

Waste streams
Industrial symbiosis



Industrial loops

Plastics, paper & wood
Deconstruction waste
WEEE

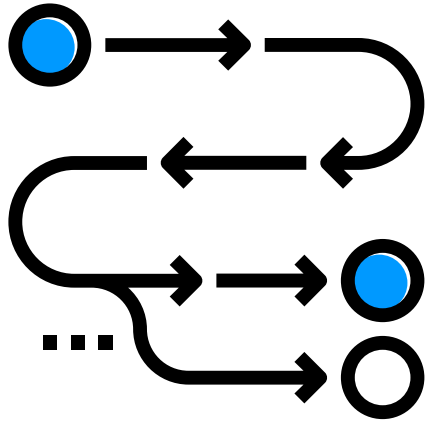


Bioeconomy

Green chemistry
Bioenergy
Biomimetism

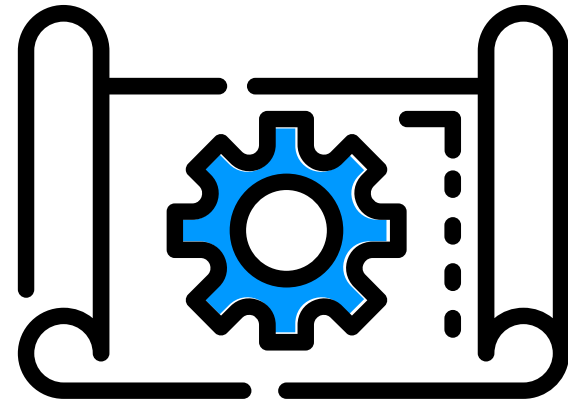
Ecocities

Priorities



Urban resources management

Introduction of innovative technologies

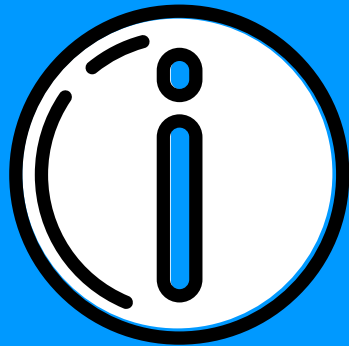


Ecocity models

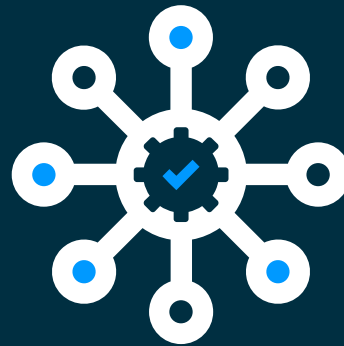
Systematic approach, linking of players, identification of innovative models

Eco-Innovation Cluster

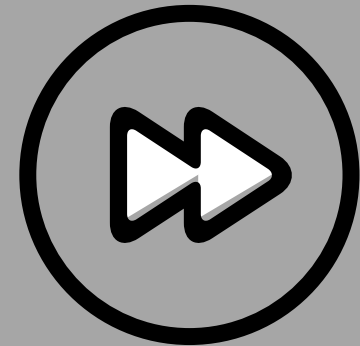
Supporting sectorial growth



Inform



Connect



Realise

Support to sector growth

Inform

Promotion of the Cluster members' activities

- Newsletters
- Social medias
- Pitching events
- Study trips

Connect

Networking of Cluster members

Thematic workshops:
identification of
potential projects

Cleantech network in the
G.R. (Greater Green) &
Horizon 2020 assistance

Realise

Materials flows
analysis

Circular Economy Hot
Spot Wiltz

Greater Green Project:
energy, waste, water, biomass

Fit 4 Circularity

EcoInnovation Cluster

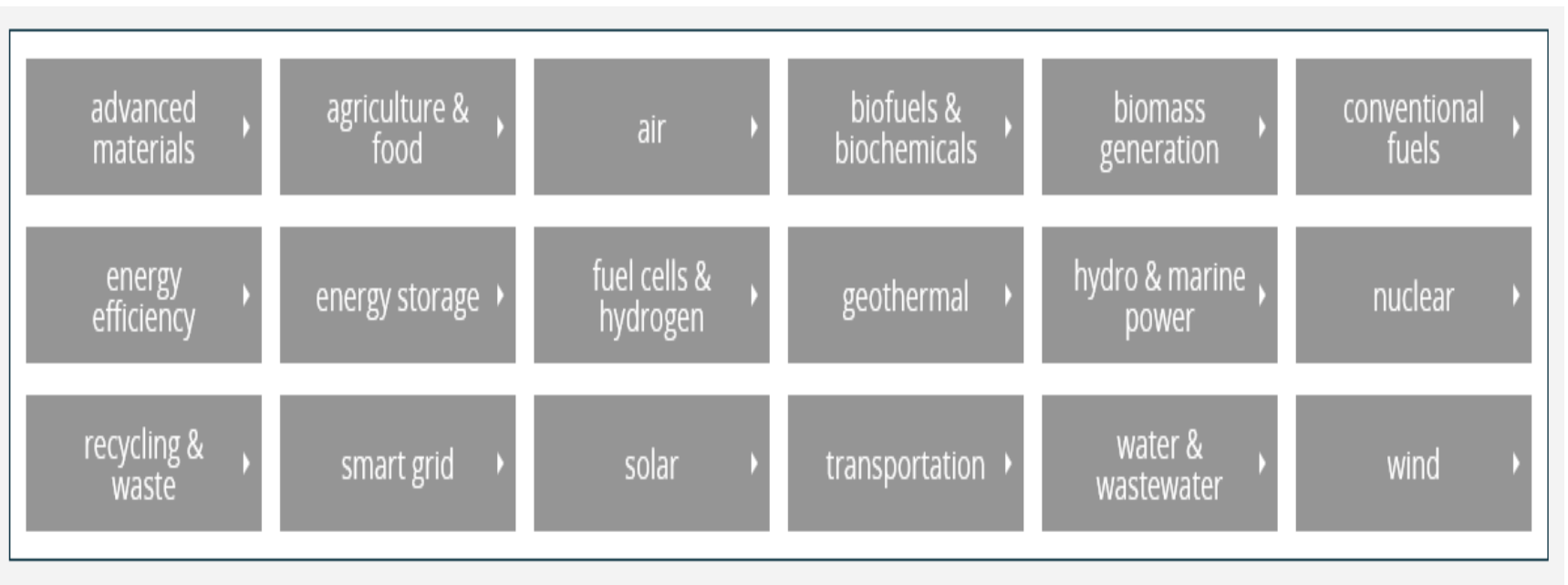
Organisation and actions
2018



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Eco-Innovation Cluster

Mapping & working groups



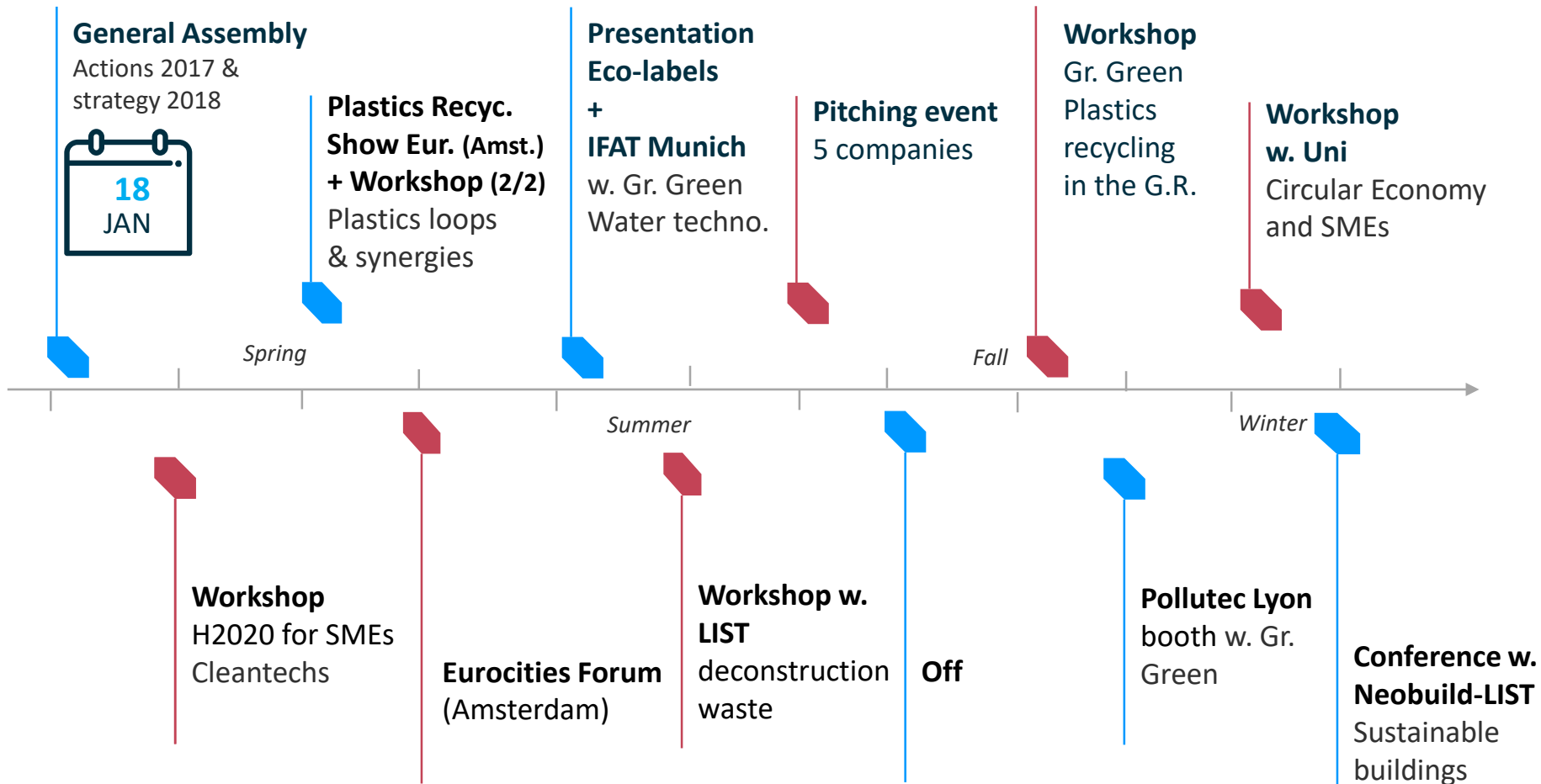
Cleantech taxonomy
Source: The Cleantech Group

Eco-Innovation Cluster

Potential working groups (2018-19)

Targeted markets			
Luxembourg and the Greater Region			
CIRCULAR ECONOMY		WATER & ENERGY	URBAN RESOURCES
PLASTICS : loops & recycling	DECONSTRUCTION WASTE: manag. & reuse	WATER/SLUDGE: treatment/valorisation RENEWABLE ENERGIES: biogas/nutrients	ENGINEERING & CONSULTING: Urban farming, waste, water & energy flows in Ecocities
SYNERGIES with: LXI's Materials and Wood Clusters – LIST/University Interreg projects: Greater Green/GReNEFF/Persephone			

Timeline



Thank you!

■ **Charles-Albert
FLORENTIN**

*Eco-Innovation Cluster
Manager*

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