



**PRODEM – SME finds VITO:  
Support in the first steps towards a green economy  
Cluster experiences**

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# What's on the agenda?

- » VITO in a nutshell
- » VITO's SME work
- » Cluster experiences

# Short Presentation of VITO



- » Leading European, independent research and consulting centre based in Flanders
- » Active in Sustainable Technologies in the field of
  - » Energy
  - » Environment
  - » Materials
  - » Remote sensing
- » Provides
  - » Intelligent and qualitative solutions → competitive advantage for companies
  - » Objective research, studies and advices → future policy for industry and governments
- » Collaborating with
  - » Research organisations as universities, research centres, ...
  - » Industries and sector organisations
  - » Authorities at regional, national and international level
- » Public body with autonomous board of directors

# PRODEM – how does it work (1/2)

- » PRODEM= Promotion and demonstration of innovative sustainable technologies
  - Support/guidance in the search for the best available sustainable technology in industrial processes and industrial buildings
  - validation/fine tuning of new technologies
- » Co-financing program:
  - » 2/3th subvention of the total project cost
  - » EFRD + Flemish Government
    - » Administratively
      - » Request for subvention done by VITO
      - » Immediately subvented at invoicing
- » 2007 – # 35 sme's
- » 2010 – # 88 sme's
  - » Scope from 2011 on – # 100 sme's yearly

SME come to VITO!



# PRODEM – How does it work? (2/2)

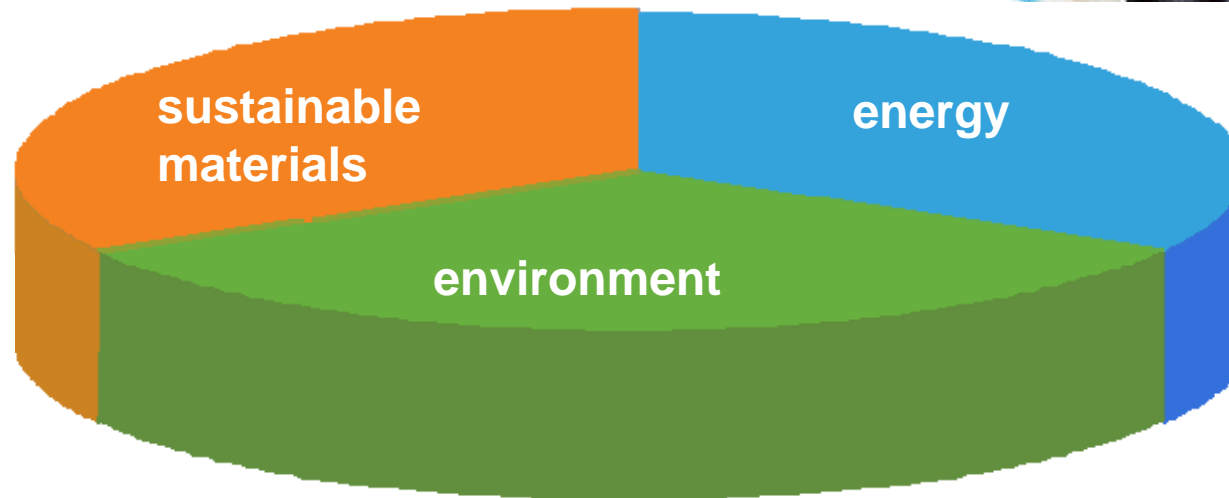
- » Type of projects
  - » Feasibility studies, pilot testing, testing on lab scale
  - » Theoretical studies
- » Domains
  - » Technical-economical
  - » New business development
  - » Go-to-market
- » Collaboration:
  - » Innovation Centers, Sector federations
  - » Academic and other knowledge institutes, Private partners, ....
- » **Demonstration point in International context**
  - » Enforcing international green ambitions
  - » Support for the right actors/networks for guidance/financing support
  - » In collaboration with multiple actors: FIT, Unizo, Voka, ...
  - » Result: demonstration of Flemish technology in international context!



# PRODEM Environment

## examples

- » pilot test concerning the optimisation of biological water treatment
- » feasibility study of carbon CO<sub>2</sub>-cleaning of pipes
- » feasibility study of a new fermentation concept
- » validation of new technologies for waste valorisation





# Example: Biological waste → nutritional valorisation

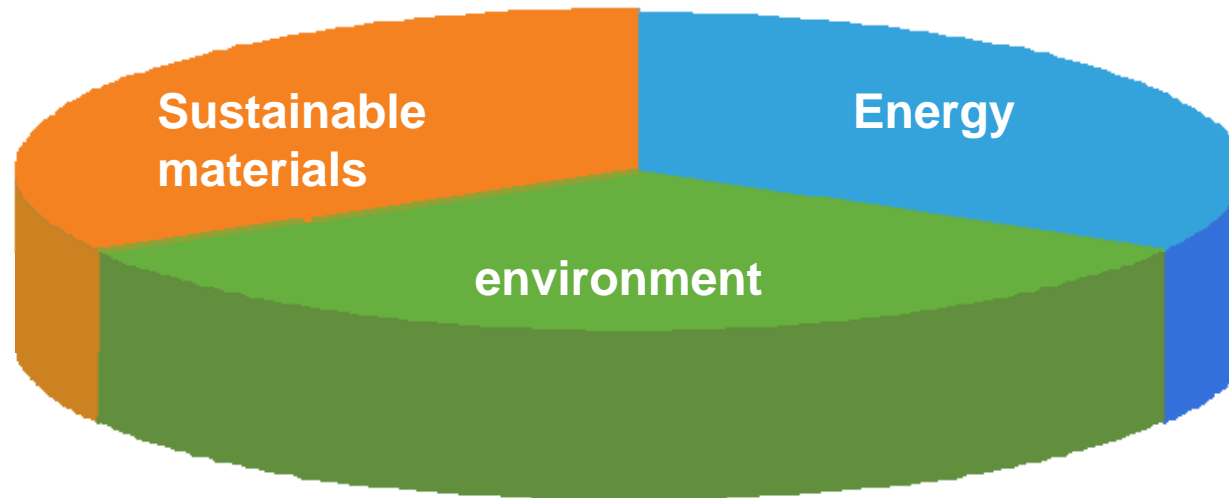


- mother company
  - chicken processing
- spin-off
  - production of protein preparation
- investment 12 mio €



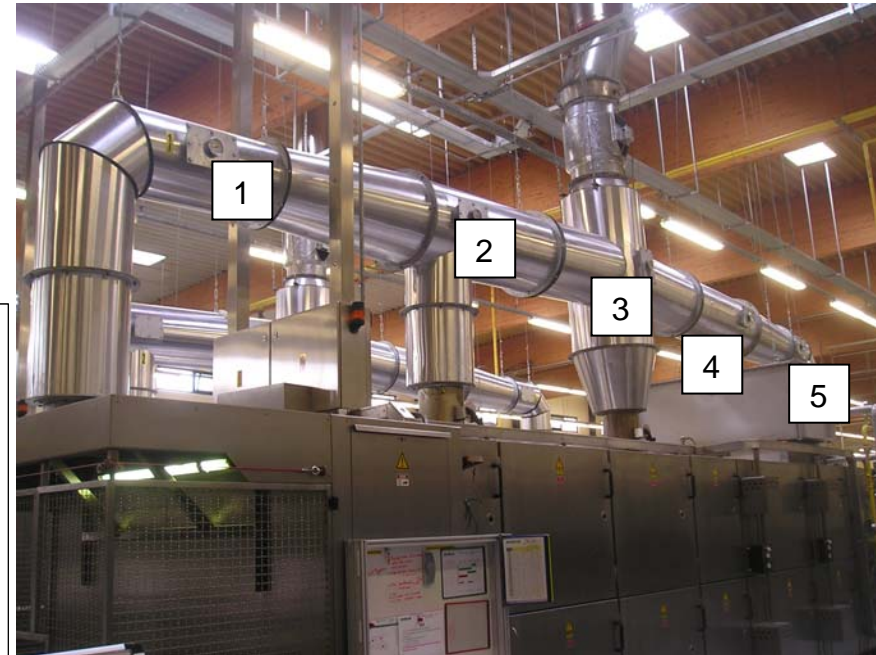
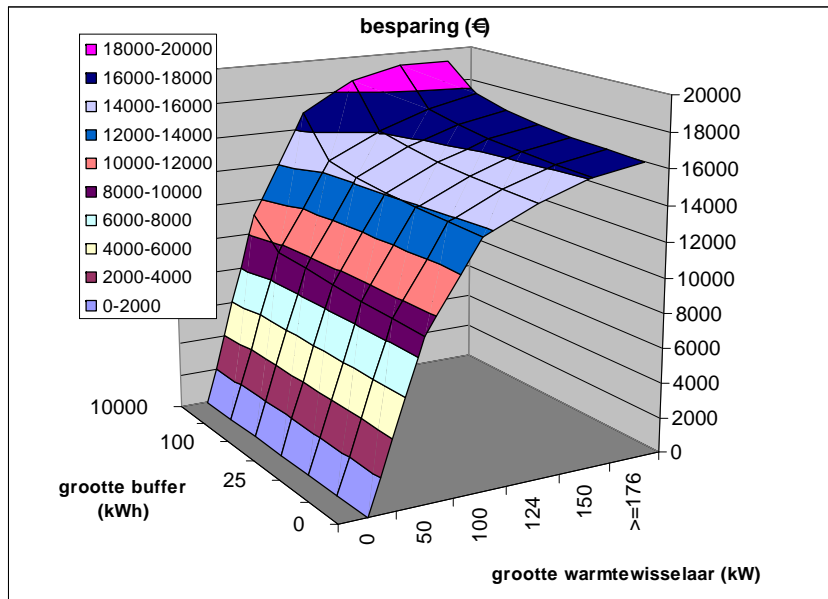
# PRODEM Energy examples

- » feasibility study of heat recuperation in a production process
- » feasibility study of cogeneration (CHP)
- » feasibility study of sustainable energy solutions when renovating a city quarter
- » feasibility study of geothermal technologies



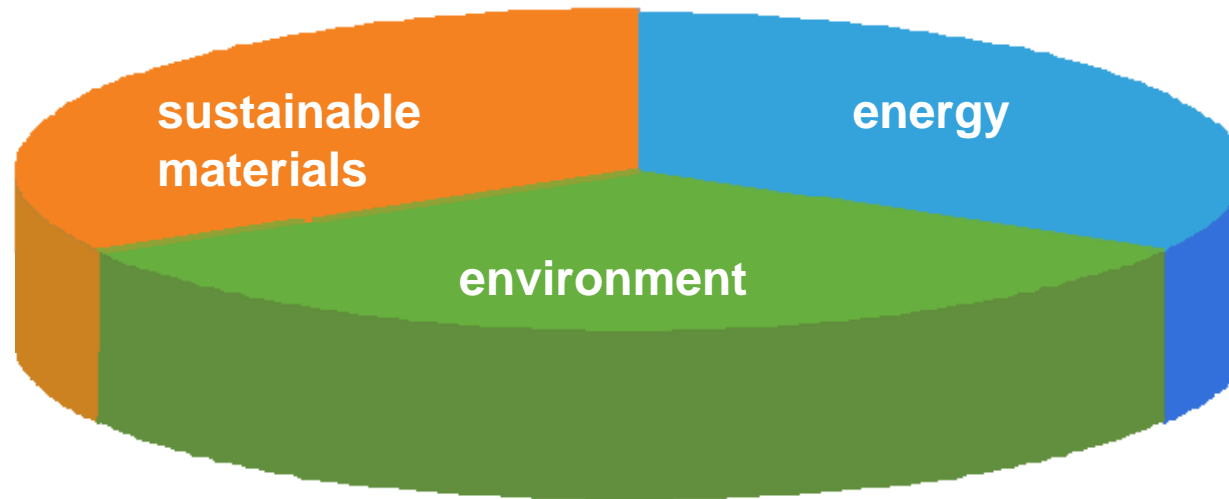
# Example: heath recuperation

- » Feasibility of heath recuperation in a production process



# PRODEM sustainable materials Examples

- » lab tests determining health impact of recycled materials
- » feasibility study of new applications for construction debris
- » feasibility study exploration and exploitation new earth layers
- » feasibility study of new methods for surface treatment



# Cluster experiences - Several initiatives

- » INDUSTRIAL DISTRICTS (→ geographic proximity)
- » SECTOR ASSOCIATION
- » THEMATIC CLUSTERING



# Clustering: Sector association

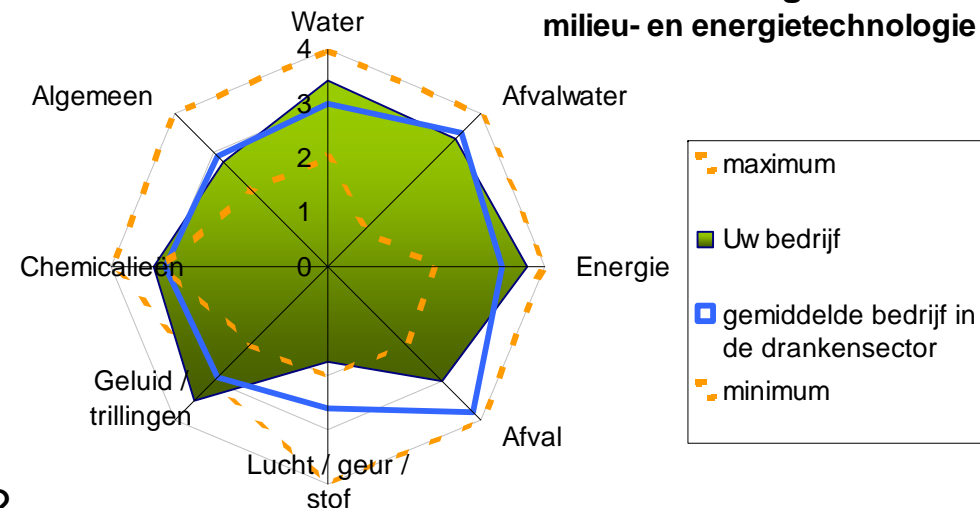
» Sectoral → **Eco technology tool for sme**

» “a quick view on technology”

» Is my company innovative?

» Where are the quick wins?

**VITO KMO technologieën scan  
milieu- en energietechnologie**



» Technically – economically feasible?

» Which financing possibilities for

» Feasibility study → PRODEM

» Investment → ECOLOGIEPREMIE, IWT, ...?

# Clustering: Sector association

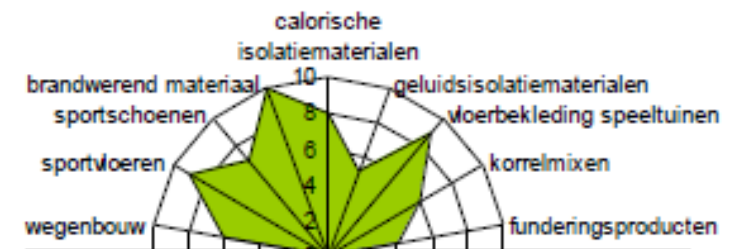
- » Sectors available:
  - » Brewery
  - » Laundry
  - » Surface treatment
  - » Meat processing
  - » *New coming*



- » Results of tool:
    - » 1 to 1 projects: feasibility studies
    - » Clustering projects: f.e.
      - » Sector of powder coating:
        - waste issue
- (= also clustering in value chain)

## Spectrumkaart van hergebruiksmogelijkheden

Afvalstroom "puingranulaat"



# THEMATIC Clustering: f. e. call “Sustainable Building”



transitie duurzaam wonen & bouwen

- » “Integration of sustainable materials, concepts, systems and techniques in residential en non-residential new building”
- » Example projects
  - » Costs more to study work (architect, contractor, builder, engineering company, material producer)
  - » Independent validation by VITO and other knowledge institutes
  - » 66% subvention
- » Submit **till 15th of March 2011**
- » [www.vito.be /kmo](http://www.vito.be/kmo)



# THEMATIC Clustering



## SewagePlus II - Combined treatment of domestic waste water en waste streams

Bedrijfspartners

Onderzoekspartners



# THEMATIC CLUSTERING



## Restwarmtevalorisatie in de haven van Antwerpen

Bedrijfspartners



Vzw's



# Flanders Cleantech Association aims to provide a window on cleantech industry activity and projects in Flanders

**FCA Flanders Cleantech Association**

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### FCA presents Flanders cleantech region

Flanders owns all assets required to become a leading cleantech region. According to the 2009 ranking of most successful cleantech clusters/regions, the elements deemed crucial for success include a thriving technology base, abundant entrepreneurial and management talent, access to capital and a proactive environmental public policy.

Flanders Cleantech Association has been set-up with the sole purpose to provide a platform to all stakeholders in Flanders to join forces in concentrating our efforts, creating critical mass where required, focusing policy, leveraging our assets and hence further attracting the required elements of success, bound to create thousands of green collar jobs and attract billions of investments.

[What to expect from FCA...?](#)

**Energyville**  
Specialisation: Renewable energy, smart grids, efficient cities  
Location: Gank

**in the picture**

7-10 June 2011 - FCA goes to CIEPEC 2011  
China International Environmental Protection Exhibition & Conference (CIEPEC), the most prestigious environmental show in China as well as a world famous event for environmental technologies, products and services.

video  
Think Flanders - FCCC

blog  
Flanders, the next top cleantech region!  
13.12.2010  
What is required to develop into a cleantech region with international stature? It is a question I have often asked myself, and the question is...

search

**Cleantech guide**

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Flanders Investment & Trade

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**vito**  
vision on technology

# Take home message

- » PRODEM – SME's come to VITO!
  
- » PRODEM – Partner in international context!
  
- » Clustering: benefits for all parties: experience in
  - » Industrial districts
  - » Sector associations
  - » Thematic clustering

# Contact?

[www.vito.be/kmo](http://www.vito.be/kmo)

Download brochure  
Videoclips with testimonials



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