

# prEN 16231 «Energy Efficiency Benchmarking methodology» and BEESTE projet definition

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# Public Research Center Henri Tudor

CRP Henri Tudor - an autonomous Luxembourgish institution for applied research

- Research: Contribute through scientific excellence to the production and transfer of knowledge and to the international recognition of the scientific community in Luxembourg.
- Innovation: Sustainably strengthen the innovation capacity of companies and public organisations.
- Policy support: Support through research and innovation the definition, implementation and evaluation of national public policies.



Materials technologies



Environmental technologies



Health care technologies

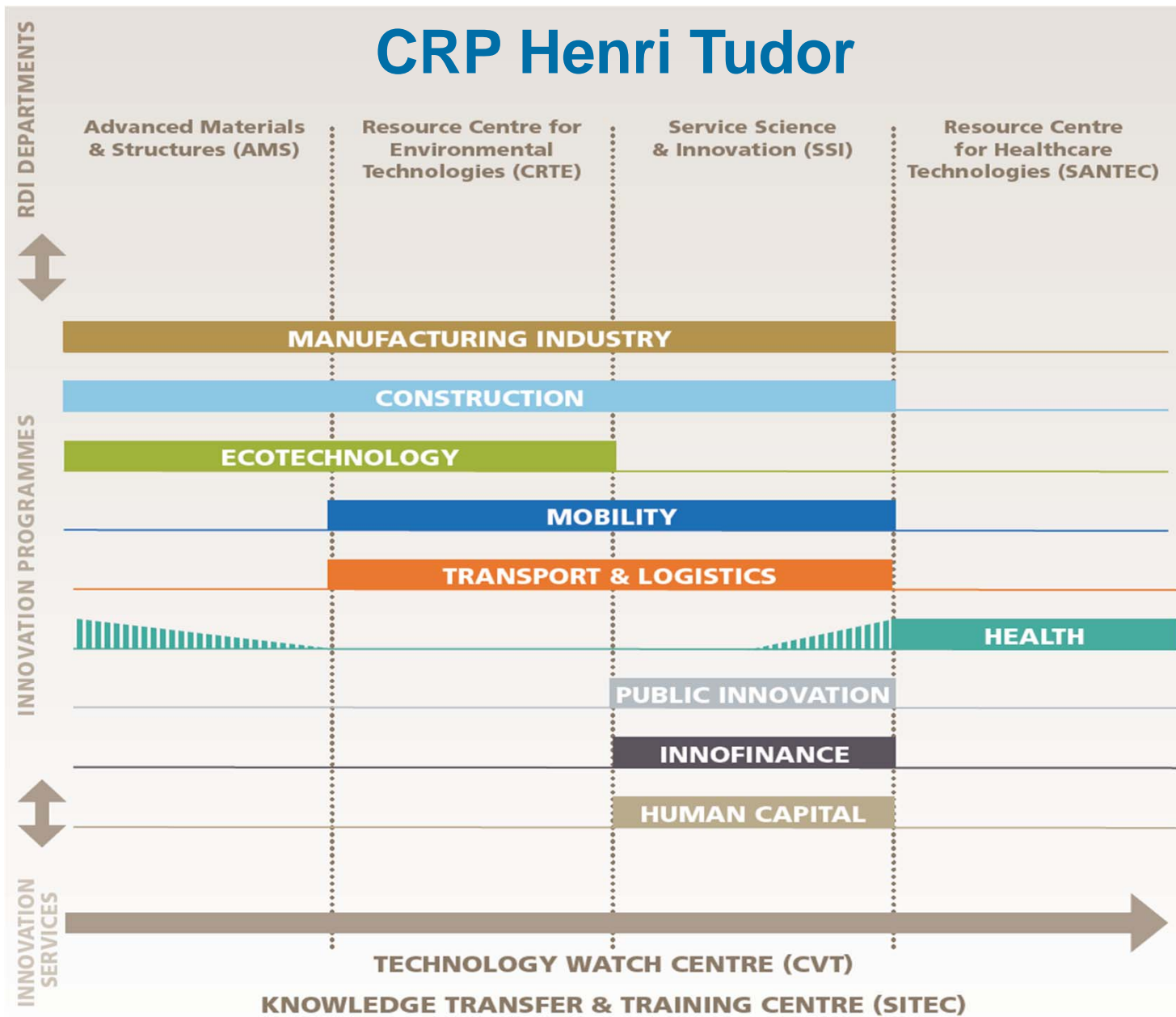


Information and communication technologies



Business organisation and management

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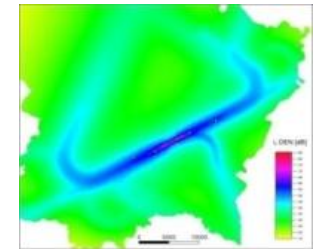
# Ressource Center for Environmental Technologies (CRTE)

## Objective

- Foster eco-innovation and support the implementation of ecotechnologies by adopting an integrated and pro-active approach

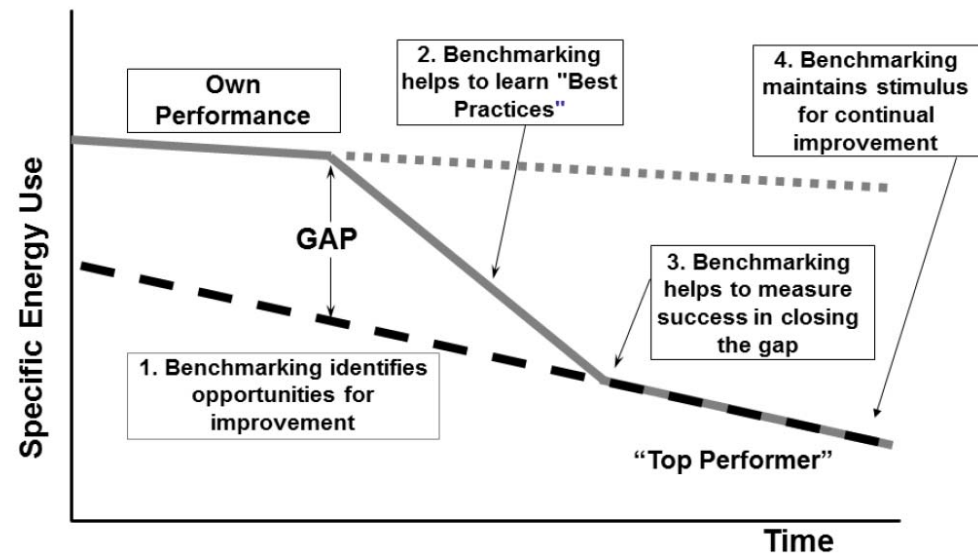
## Key Competences & RDI topics:

- Multi-criteria assessment and environmental management
  - Analysis and management of material and energy flows
  - Life cycle assessment of products, processes and services, eco-design
  - Assessment and management of environmental risks
- Clean technologies and process engineering
  - Instrumentation, control and automation
  - Process optimization through modeling and simulation
- Environmental modeling
  - Integrated modeling and meta-modeling
  - Analysis and management of spatial data



# prEN 16231 «Energy Efficiency Benchmarking methodology»



- Objective of the standard: *to provide organizations a methodology for collecting and analysing energy data with the purpose of establishing and comparing energy efficiency between or within entities.*
- Status: awaiting formal vote (June 2012)



# prEN 16231 «Energy Efficiency Benchmarking methodology»

- Introduction of CRP Henri Tudor to working group by M. F. Hencks
- Meetings attended:
  - 21/10/2009 (Luxembourg, LU)
  - 26/01/2010 (Berchem, BE)
  - 01/09/2010 (Brussels, BE)
- CRP's roles: contribution to the standard elaboration via comments and discussions, meeting organisation
- Main partners:
  - AFNOR
  - NEN
  - DIN
  - ABB
  - Cimalux
  - ArcelorMittal
  - Cofely-GDFsuez
  - EDF
  - Siemens
  - ADEME
  - National Energy Foundation

# BEESTE - Benchmarking Energy Efficiency in SMEs Throughout Europe

- Project main goal: provide reliable energy efficiency benchmarking data for and from SMEs in Europe:
  - Develop a methodology to apply the CEN supported Energy Efficiency Benchmarking Standard (prEN16231) to 300 SMEs in Europe
  - Develop an online benchmarking tool for data entry and storage
  - Conduct one-day energy “quick check” of the SMEs
  - Benchmark at least 50 SMEs out of 6 – 8 sectors
- Duration: 36 months
- Total project budget : 2 170 000€ - Funding:  INTELLIGENT ENERGY EUROPE 
- Role of CRP Henri Tudor: contribution to methodology development, acquisition and conduction of quick checks of approximately 40 companies in Luxembourg, assessment of benchmarking data (WP leader)
- Status: waiting for approval by IEE

# Conclusions

- Participation to the JWG on the prEN 16231 led to important networking activity:
  - Exchange with VBBV (Verificatiebureau Benchmarking Vlaanderen) on their own benchmarking activities in Flanders,
  - Successful invitation to participate to the BEESTE project
  - Contact with potential future project partners (e.g. ADEME)
- Activities in the JWG support actions in the IEE-EINSTEIN II project (specific work package on energy audit standardisation)





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pour l'Environnement

Thank you for your attention !

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