



Mobilizing Universities of Applied Sciences for Horizon 2020

Anne De Smedt & Julien Lecointre
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The research in Universities of Applied Sciences



1995

Universities of Applied Sciences mission involves Applied Research

20



Universities of Applied Sciences

Independent legal entities have been created



ADISIF



Haute Ecole de la Province de Liège



A unique organ
for guidance / support and
valorization



Detect, increase awareness,
inform

Represent

Support

Networking

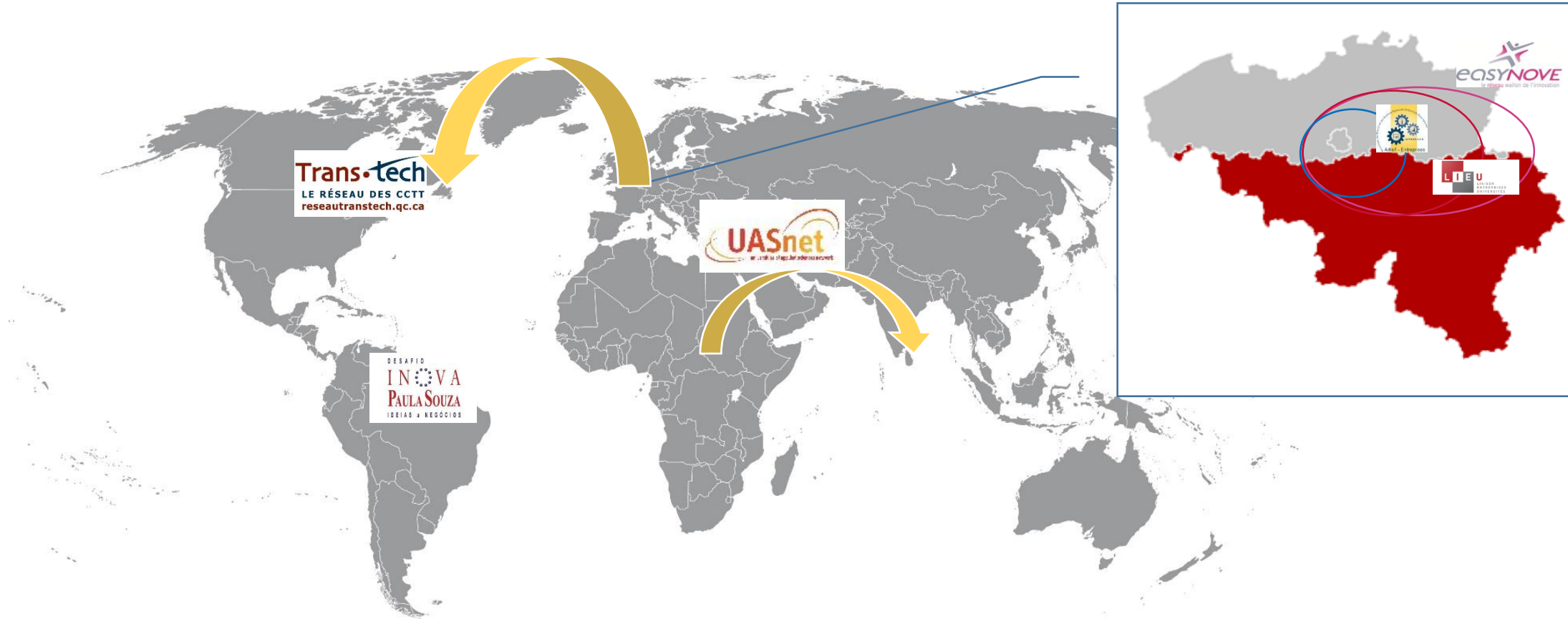
Train

A skills network



ADISIF in networks

ADISIF takes part in networks directly involved in research and valorization



BALANCING PROFITABILITY AND ENVIRONMENT THANKS TO RAPID MANUFACTURING AND ECO-DESIGN

Objective:

Demonstrate to SMEs that eco-design and techniques of rapid manufacturing are:

- ✓ new sources of development and innovation for the company,
- ✓ mobilizing tools to address environmental challenges,
- ✓ opportunities to significantly reduce production costs, bringing a competitive advantage in marketing.



Partners:

- 11 partners: BE/FR/Lux
- Universities, colleges, R&D centres, companies, competency centers, business interfaces...

1. Creation of new academic and continuing education modules:

- ✓ Eco-design and design methodology
- ✓ Material selection and eco-design
- ✓ Optimization of the flow of materials and of energy in the manufacturing process
- ✓ Rapid product development
- ✓ Coupled simulation
- ✓ Topology optimization
- ✓ Environmental management



Working plan:

1. Form

2. Develop

3. Accompany

3. Business Accompaniments:

- ✓ Life Cycle Assessment (LCA):
 - Environmental profile of a product
 - Product comparison
 - Environmental communication
 - ...
- ✓ Rapid prototyping
- ✓ Topology optimization
- ✓ Staff awareness
- ✓ Staff training
- ✓ ...

2. Development of new tools specifically developed for companies:

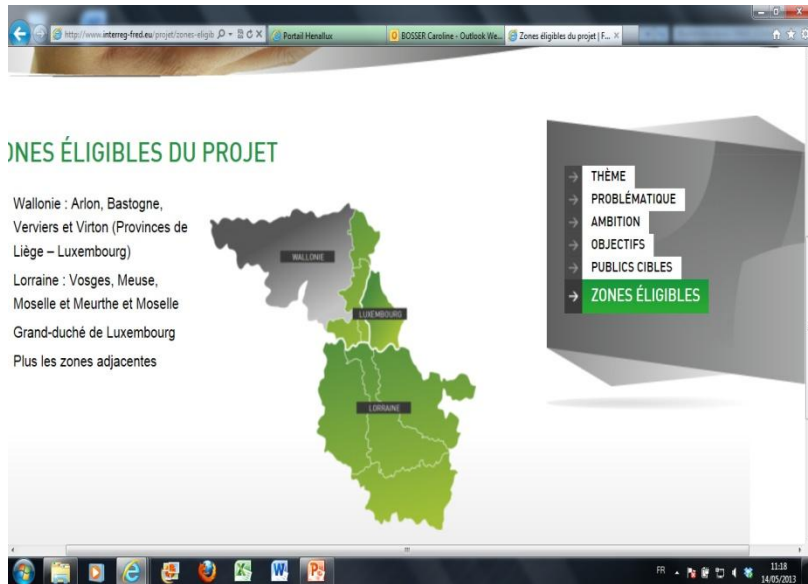
- ✓ Eco-design tools guide
- ✓ Eco-design strategies Guide
- ✓ Questionnaire "Eco-potential"
- ✓ Survey design practices
- ✓ ECOPACT: Development of comics
- ✓ Website: www.interreg-fred.eu/projet/
- ✓ ...



FUTURE DEVELOPMENTS **AND** RESEARCH PARTNERSHIPS

Continue raising awareness **and** supporting companies on eco-design implementation:

- Enlarge the eligible area: the whole Wallonia, Germany, ...
- Applying the approach to any type of business (not only mechanical)
- ...



Eco-design, rapid manufacturing **and** micro-electricity:

- Technical Inventory: Wallonia, BE, Lux, Germany...
- Production peaks smoothing
- Micro-storage
- ...

Thank you for your attention



Anne De Smedt
Interface ADISIF
www.adisif.be

Julien LECOINTRE
FoRS
www.fors-ing-henallux.be

