

ACTECO

Eco-efficient activation for hyperfunctional surfaces



6th Framework programme
Integrated project for SMEs



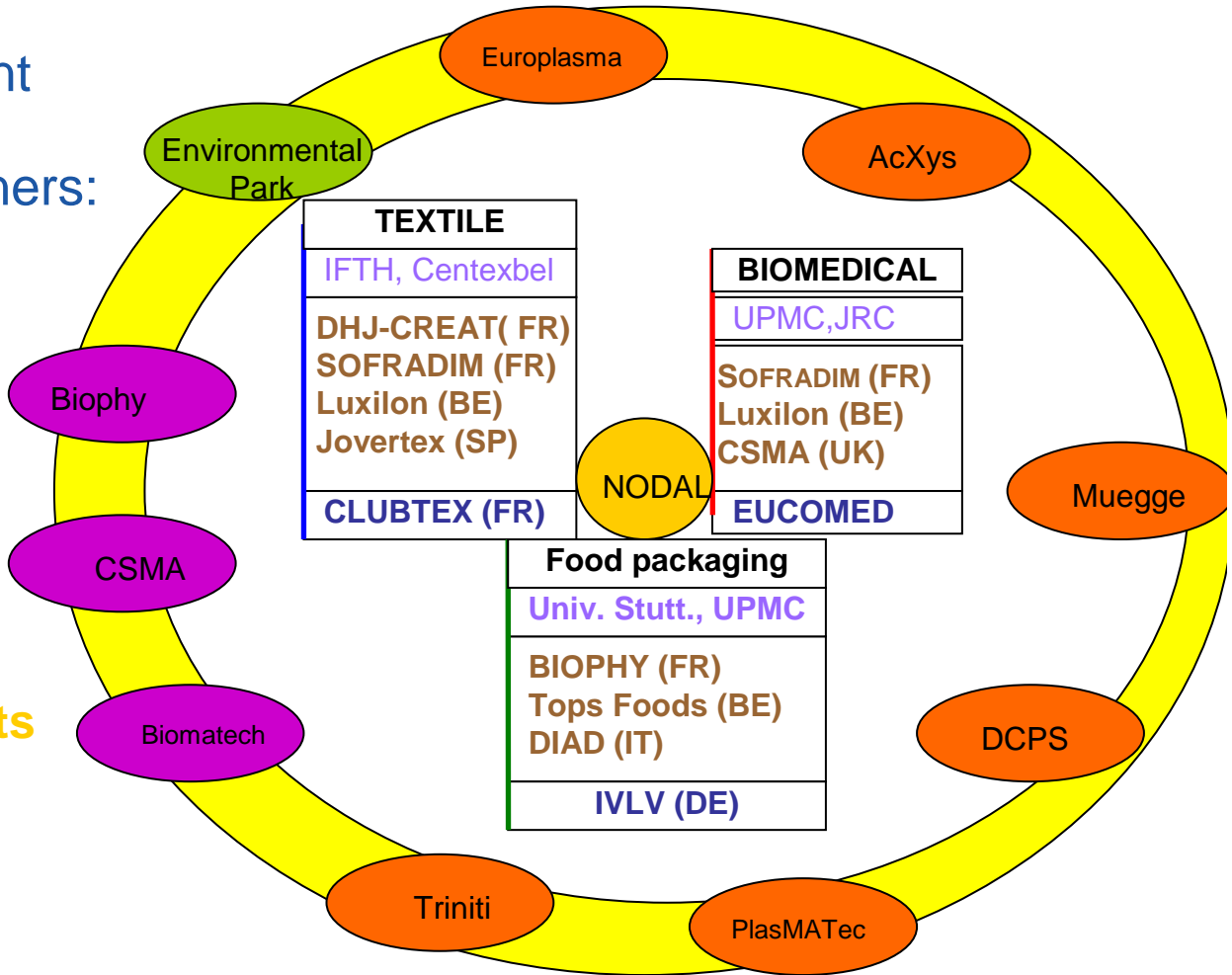
Introduction to project

- Integrated Project under FP6
- “Successor” of European network action PLASMATECH (FP5)
- Dedicated to the use of plasma in three different sectors:
 - (Food) Packaging
 - Medical applications
 - Textile
- Both low pressure and atmospheric pressure plasma are being studied
- Project duration: May 1, 2005 → April 30, 2009
- “large” project: 25 partners

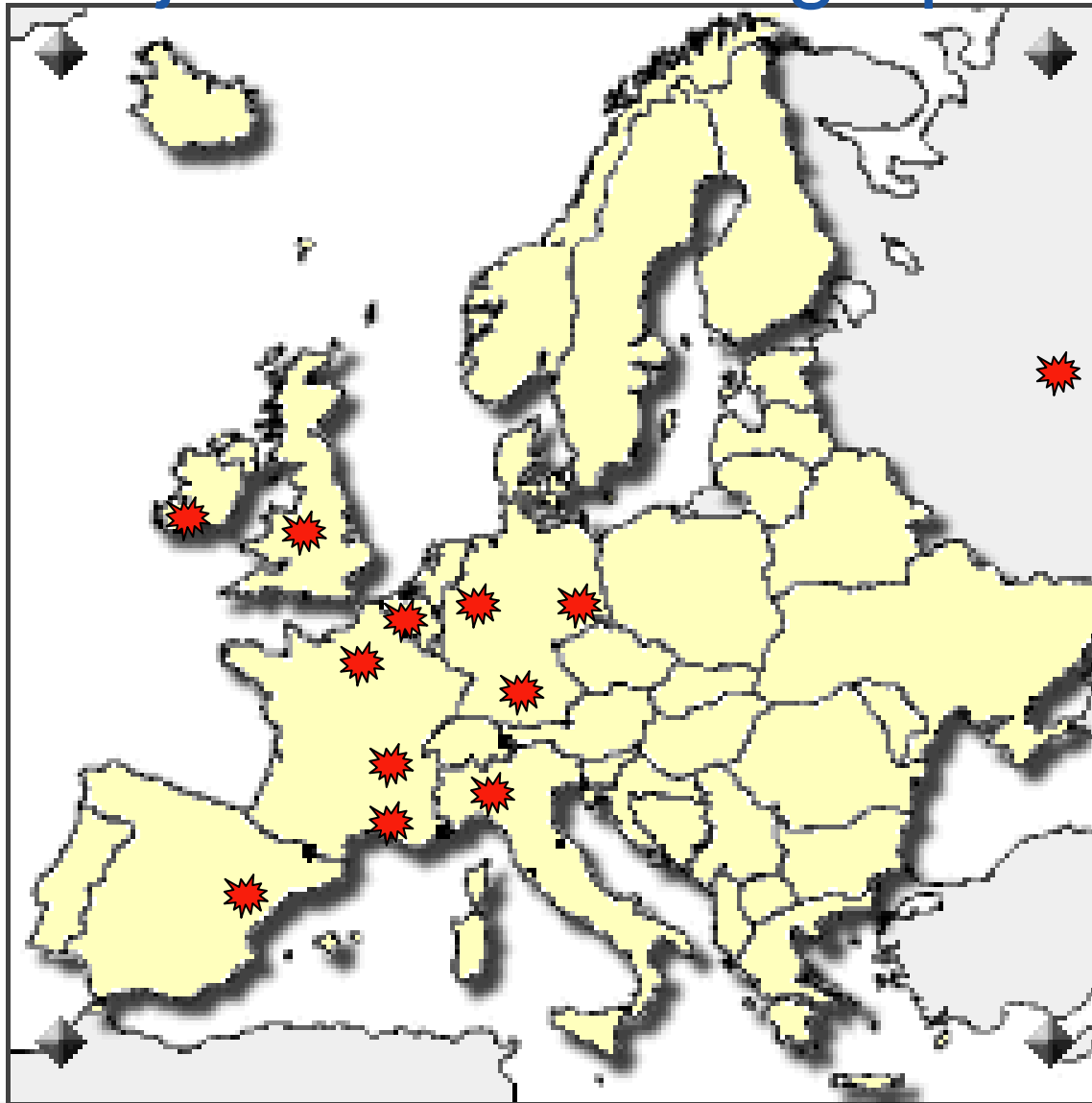
Consortium presentation

Partners with different expertise, i.e. complementary partners:

- End-users**
- Plasma equipment providers**
- RTD centres**
- Analysis (functional, surface)**
- Associations**
- Market research**
- Environmental aspects**



Project Team: Geographic



- Belgium (5)
- France (9)
- Germany (4)
- Spain (1)
- Italy (3)
- United Kingdom (1)
- Ireland (1)
- Russian Federation (1)

Objectives of the project

- Development new plasma systems & processes → **durable** surface engineering
- Modeling plasma processes
- Reduce waste, use of hazardous substances and resource consumption
- Improving existing products:
 - Performance
 - Environmental impact
 - Cost of production
- Main properties targeted for textiles: antimicrobial, hydrophilic, hydrophobic, oleophobic properties

What the project (partners) offer:

- Roll-to-roll plasma treatment:
 - Atmospheric pressure systems
 - Low pressure systems
- Knowledge: equipment & process optimisation
- Evaluation of plasma treatment: surface characterisation, functional testing
- Modelling and simulation
- Environmental impact/ assessment