



Internationalisation of Science, Technology and Innovation in Wallonia-Brussels

M. Hubert Goffinet
Head of Unit

Wallonie-Bruxelles International
Research and Innovation Department

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WALLONIA – BRUSSELS: A PLACE FOR INNOVATION

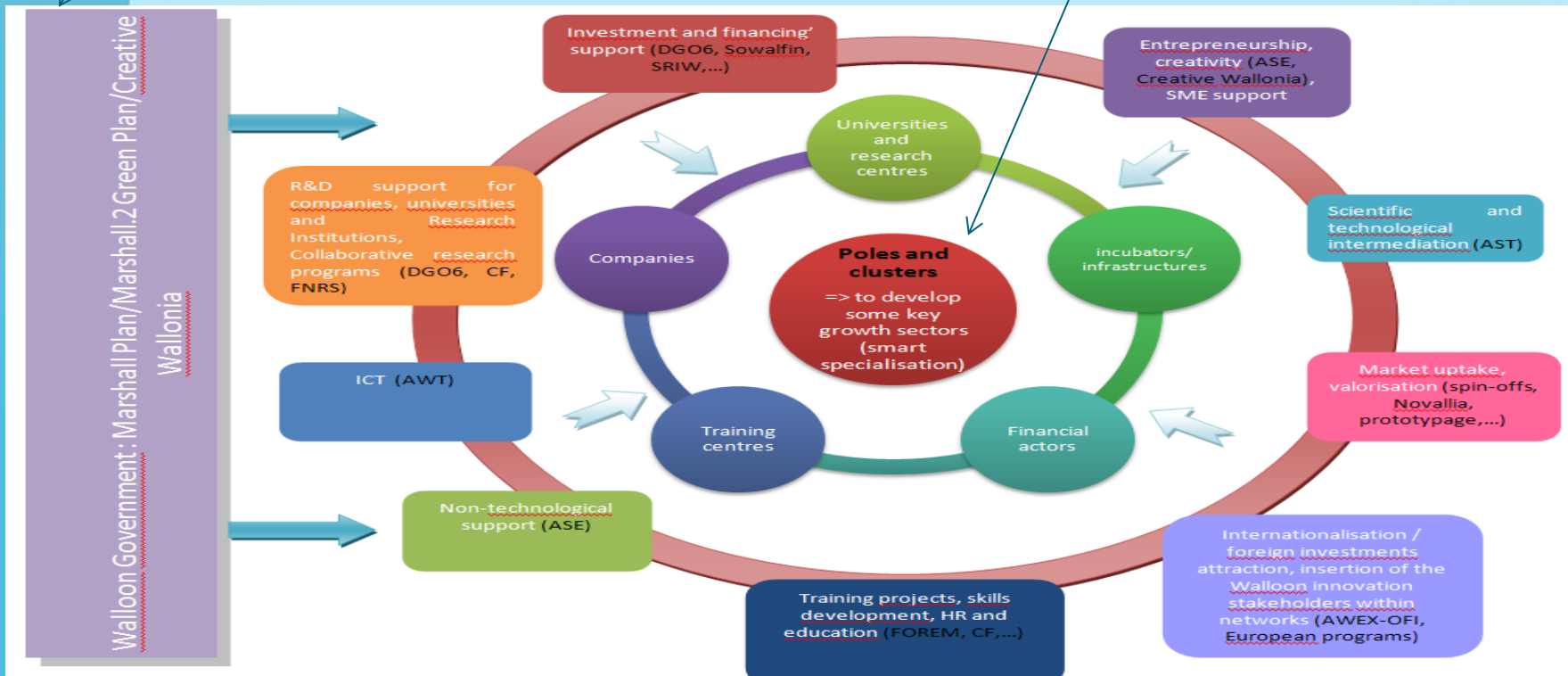


- 300 public and private R&D units and over 11.000 researchers
- 9 university centers and more than 250 spin-offs in activity
- €0.5 billion of public R&D expenditure (2010-2014)
- 130 fully-equipped Business Parks and 7 Science Parks
- 6 Competitiveness Clusters and 7 Clusters
- 2.24% of GDP engaged in R&D activities (2013)

WALLONIA – BRUSSELS: INNOVATION POLICY

The Walloon Government is the relevant regional authority responsible for economic development and STI policies.

→ Mainly developed through Competitiveness Clusters and clusters in strategic economic sectors.



Competitiveness Clusters = the mix of

- 3 actors
 - ❑ enterprises
 - ❑ research units
 - ❑ training centres

- 4 areas of action :
 - ❑ research
 - ❑ training
 - ❑ investment
 - ❑ international development

- 4 decisive factors :
 - ❑ partnerships
 - ❑ joint innovative projects
 - ❑ critical mass
 - ❑ international visibility

WALLONIA – BRUSSELS: INNOVATION POLICY

Within the framework of the Marshall Plan 2.Green, priority is given to the 6 most promising growth sectors:



1. Life sciences (*Biowin*)



2. Aeronautics and aerospace (*Skywin*)



3. Mechanical engineering (*Mecatech*)



4. Transport and logistics (*Logistics in Wallonia*)



5. Food-processing industry (*Wagralim*)



6. Environmental technologies (*Greenwin*)

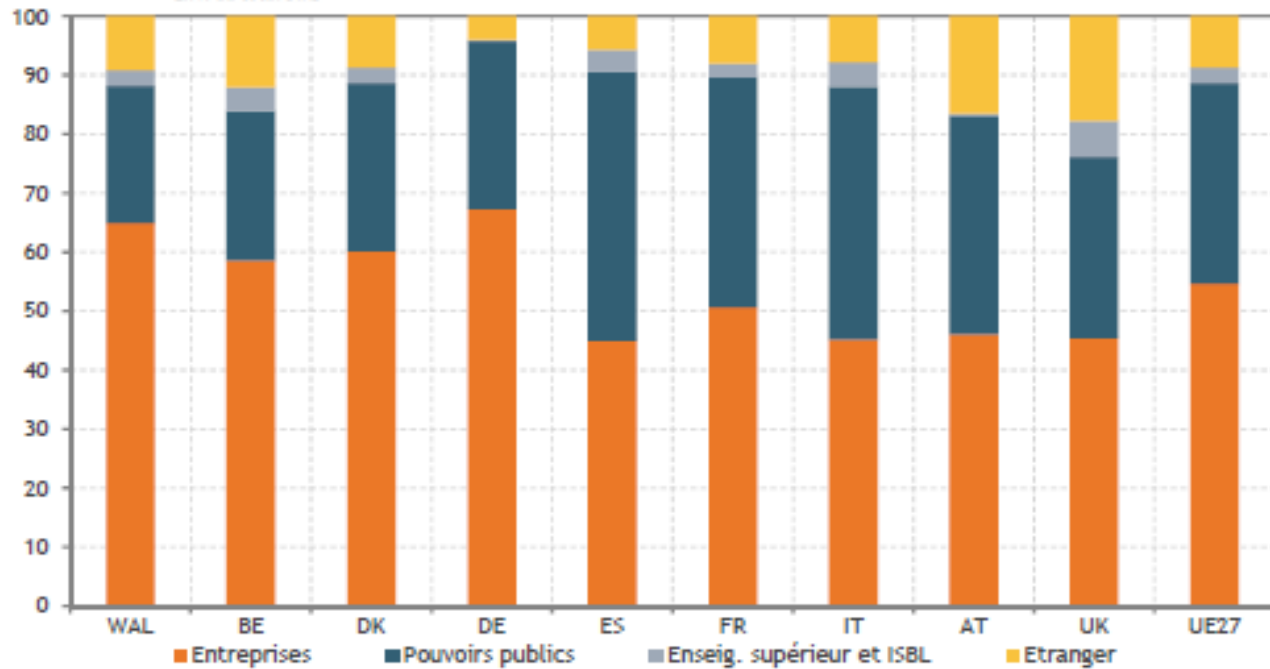
8 transversal objectives:

1. To strengthen the complementarities of instruments
2. To reach an objective of 3% of GDP in R&D expenditures (PPP)
3. To enhance partnerships and research valorisation
4. To foster international dimension of Walloon R&D (infrastructures)
5. To reinforce capabilities (researchers status and mobility)
6. To define a strategic agenda in 5 priority areas
 - A. Sustainable Development**
 - B. Renewable Energies**
 - C. High-Technological Research**
 - D. Active and healthy ageing**
 - E. Health care**
7. To launch a benchmark mechanism (ex-ante and ex-post evaluations)
8. To better integrate sciences and society (consultations)

SOME FIGURES ON RESEARCH AND INNOVATION

Funding of R&D is dominated by the private sector
and this proportion is higher in Wallonia than in the EU27

Graphique 23 Dépenses totales intra-muros de R&D par source de financement en Région wallonne et dans les pays sélectionnées, 2008
En % du total DIRD



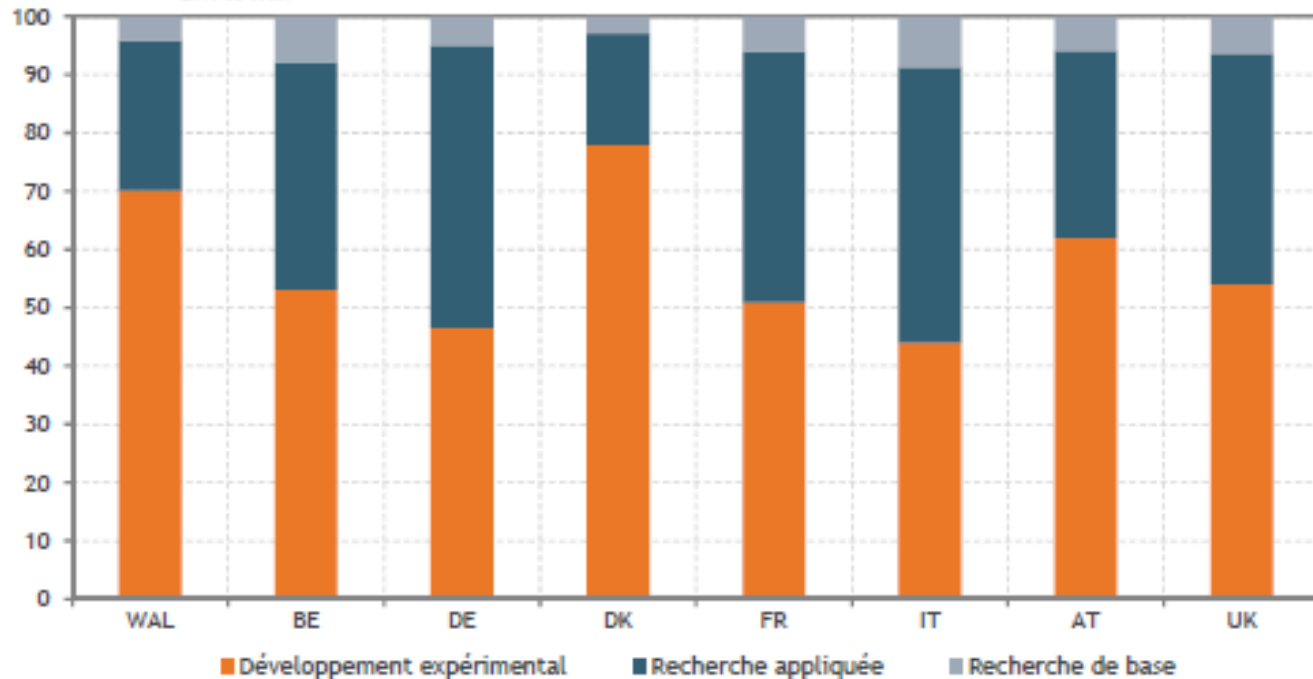
Source : Eurostat, Science et technologie, Statistiques de R&D.

Remarques : données pour les Pays-Bas et le Luxembourg non disponibles, données de l'année 2009 pour le Danemark.

SOME FIGURES ON RESEARCH AND INNOVATION

R&D expenditures in the private sector are essentially dedicated to experimental development

Graphique 22 Dépenses totales de R&D exécutées par les entreprises en Région wallonne et dans les pays sélectionnés selon le type d'activité de R&D, 2008
En % du total



Source : Eurostat, Science et technologie, Statistiques de R&D.

Remarques : données de 2007 pour l'Allemagne et l'Autriche, pas de données disponibles pour le Luxembourg, les Pays-Bas, l'Espagne et la moyenne européenne.

SOME FIGURES ON RESEARCH AND INNOVATION

Most HT Corporate R&D is concentrated in Pharmaceuticals and Chemistry

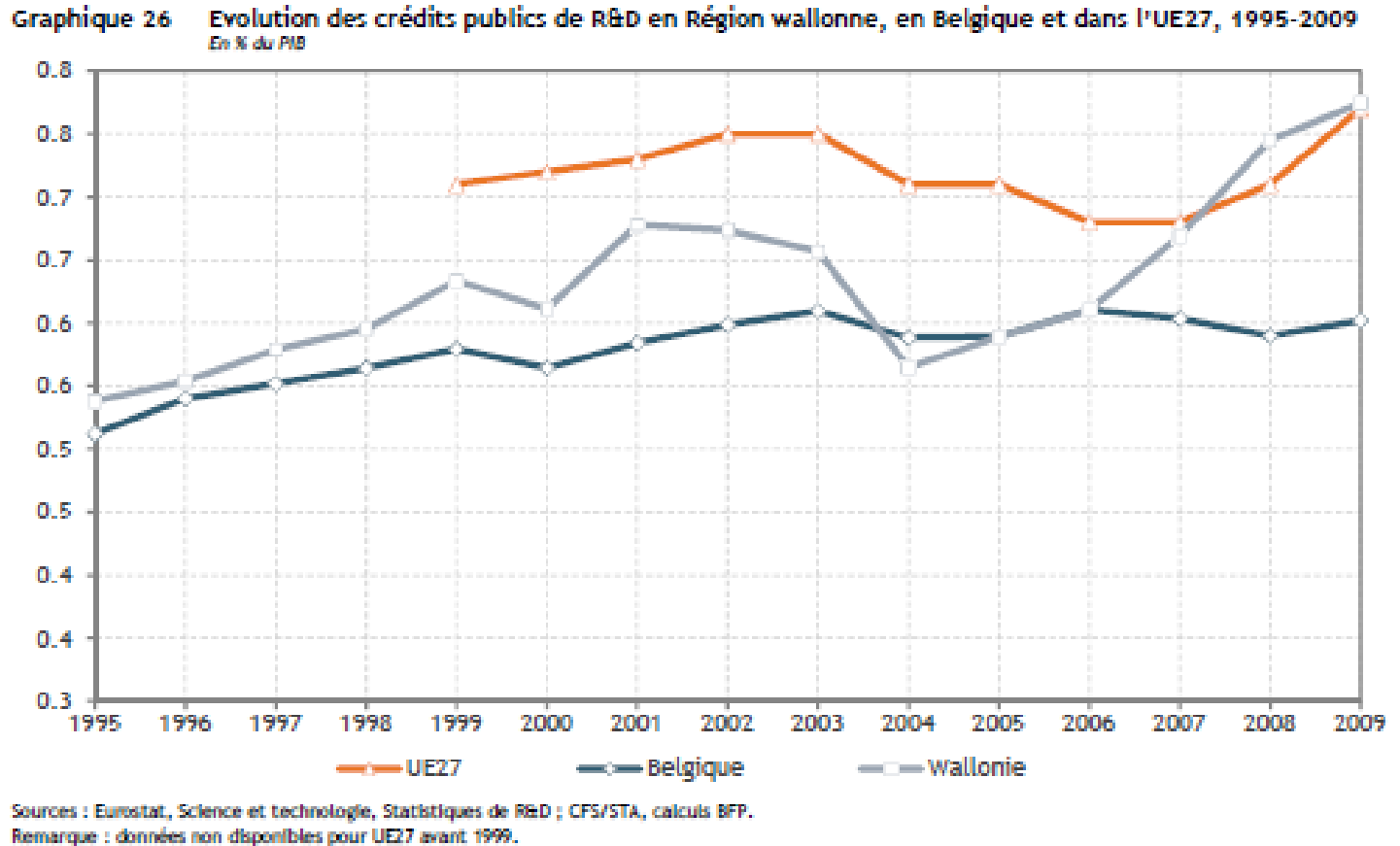
Tableau 2 Ventilation des dépenses intra-muros de R&D des entreprises entre les branches d'activité de haute technologie (HT) et de moyenne-haute technologie (MHT), 2009
En % du total des dépenses de la région concernée

Branches	NACE Rev. 1.1	BRU	FLA	WAL	BE
Total des branches HT dont :		57,2	45,3	65,2	52,5
Manufacture HT					
24.4	Industrie pharmaceutique	13,1	21,3	48,6	28,4
30	Fabrication de machines de bureau et de matériel informatique	0,3	0,3	0,4	0,3
32	Fabrication d'équipements de radio, télévision et communication	0,3	7,6	2,5	5,3
33	Fabrication d'instruments médicaux, de précision, d'optique et d'horlogerie	0,4	5,4	1,7	3,7
35.3	Construction aéronautique et spatiale	3,2	0,2	5,1	2,0
Services HT					
64.2	Télécommunications	9,9	4,4	3,4	4,7
72	Autres activités informatiques	28,9	6,2	3,5	7,9
73	Recherche et développement expérimental	1,1	0,0	0,1	0,2
Total des branches MHT dont :		17,1	23,1	21,2	21,9
Manufacture MHT					
24 (sans 24.4)	Industrie chimique (hors produits pharmaceutiques)	14,5	10,9	11,2	11,4
29	Fabrication de machines et équipements	0,3	7,3	2,2	5,0
31	Fabrication de machines et appareils électriques	0,3	3,5	4,8	3,5
34	Construction et assemblage de véhicules automobiles, de remorques et semi-remorques	2,0	1,1	3,0	1,8
35 (sans 35.3)	Fabrication d'autres matériels de transport (hors Construction aéronautique et spatiale)	0,0	0,3	0,0	0,2
Autres branches		25,7	31,6	13,6	25,6
TOTAL		100,0	100,0	100,0	100,0

Source : CFS/STAT, Politique scientifique fédérale.

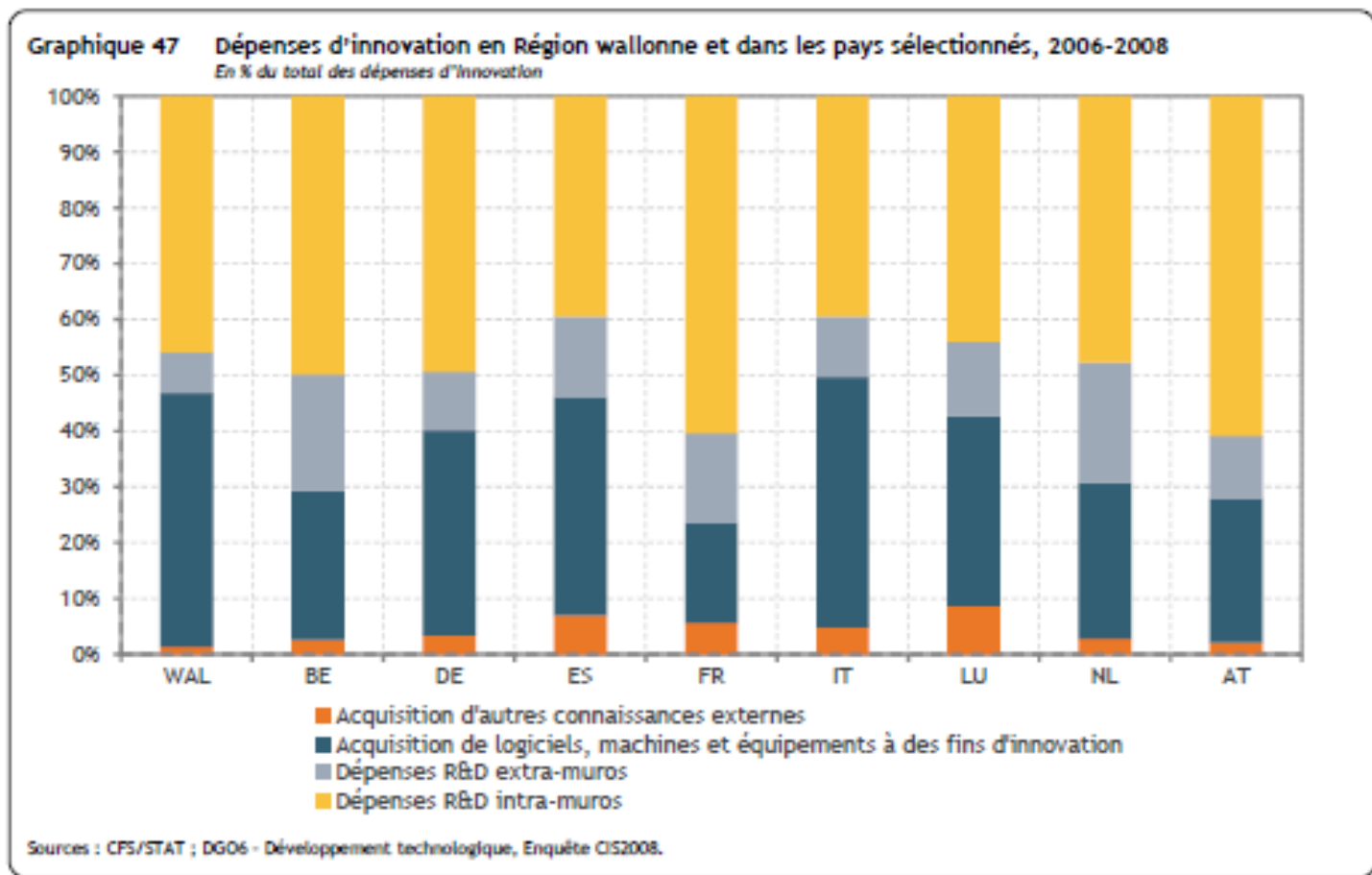
SOME FIGURES ON RESEARCH AND INNOVATION

Growth of public expenditures in R&D is higher than in the EU27



SOME FIGURES ON RESEARCH AND INNOVATION

Most corporate R&D expenditures are done in equipment acquisition

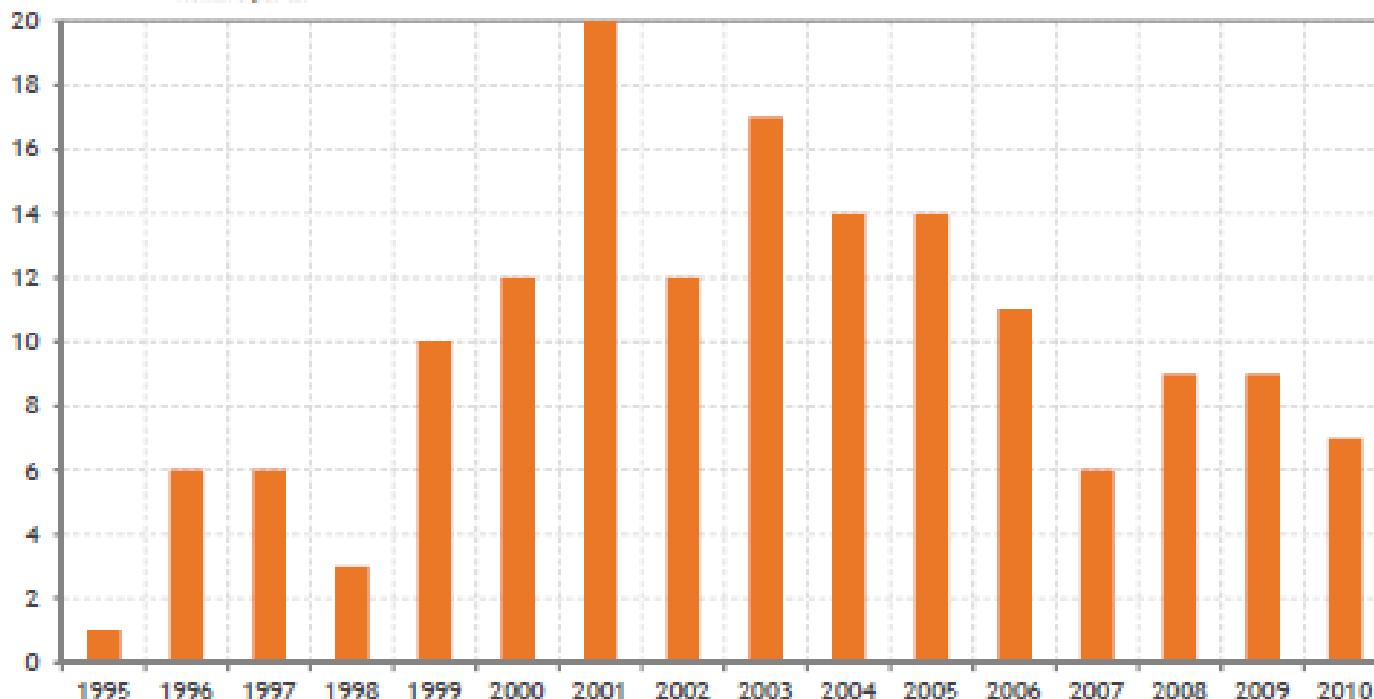


SOME FIGURES ON RESEARCH AND INNOVATION

Wallonia has always been a territory for spin-offs creation

Graphique 72 Evolution du nombre de spin-offs universitaires créées annuellement par les universités francophones belges, 1995-2010

Nombre par an

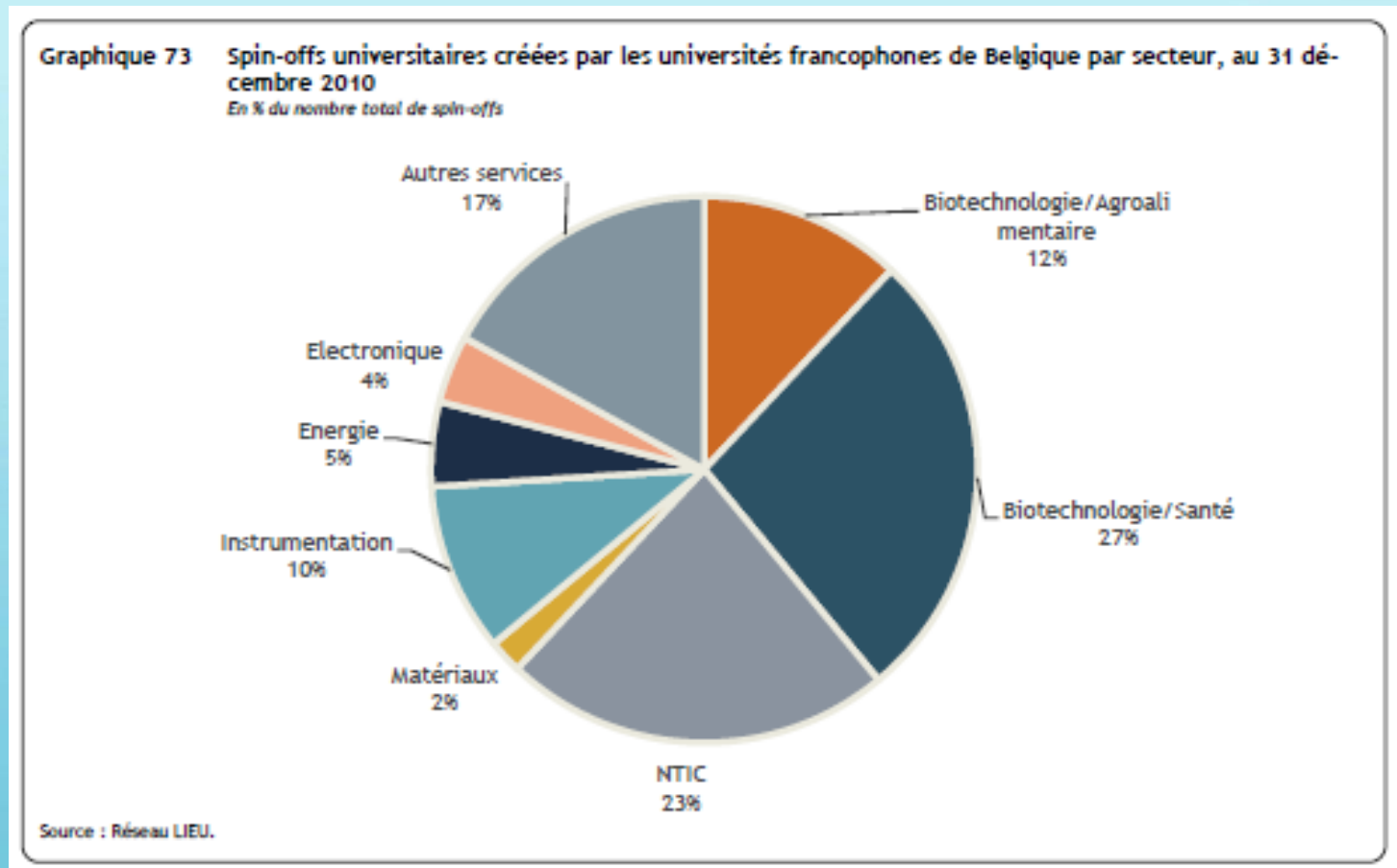


Source : Réseau LIEU.

Remarque : Il s'agit des membres du CRef (Conseil des Recteurs des Universités francophones de Belgique) à savoir la Faculté Polytechnique de Mons (FPiM), la Faculté Universitaire des Sciences Aeronautiques de Gembloux (FUSAGx), les Facultés Universitaires Notre-Dame de la Paix de Namur (FUNDP), les

SOME FIGURES ON RESEARCH AND INNOVATION

The red biotechs, the ICT and the green biotechs sectors show a higher proportion of spin-offs creation



WALLONIA – BRUSSELS : INTERNATIONAL RELATIONS



Acts as the "Ministry of Foreign Affairs" of Wallonia and of the French-speaking Community of Belgium

Subsidiaries

- Wallonia-Brussels Design Mode*
- Wallonia-Brussels Musics*
- Wallonia-Brussels Images*
- Wallonia-Brussels Theater & Danse*
- Wallonia-Brussels Architecture*
- Wallonia-Brussels Campus*



An agency specialized in foreign trade and foreign investors



An agency specialized in cooperation and development





WALLONIA – BRUSSELS : INTERNATIONAL RELATIONS



MISSION

- **Accompany Wallonia-Brussels' operators in international research projects.**
- **Build international networks involving the Tripe Helix (Academia – Industry - Government)**

RESPONSIBILITIES

- **Planning, negotiating and implementing international agreements ;**
- **Organizing a scientific & technological watch ;**
- **Giving support to international cooperation mechanisms and alliances;**
- **Promoting technological developments and partnerships;**
- **Animating the WBI Research and Innovation Platform;**
- **Coordinating the Scientific Liaison Officers network.**

Dialogue and Consultation area:

The WBI R&I Platform is a multi-stakeholder forum that gathers all the R&I actors of the Triple Helix

- **Academia:**
 - **FNRS (National Funds for Scientific Research);**
 - **Wallonia-Brussels' Academy (5 main universities);**
 - **LIEU (Network of Technology Transfer Offices);**
- **Industry:**
 - **6 Competitiveness Clusters**
 - **7 thematic Clusters** (CAP 2020, Infopole, Photonique, Tweed, Plastiwin, TWIST, Eco-construction)
 - **WaITECH** (Network of the 22 Research Centres of Wallonia)
 - **NCP** (FP7 National Contact Point for SMEs, universities, research institutes and researchers)
 - **EEN** (Enterprise Europe Network) and **SPoW (Network of the Science Parks of Wallonia);**
- **Public Bodies:** **AST** (Innovation Agency), **DGO6** (Ministry for Research & Economic Development), **AWEX** (The Walloon Agency for Export and Foreign Investment), **WBI** (Wallonia-Brussels International), **Ministerial Cabinets** (Minister-President; Minister of Economy and Higher Education; Minister for Research).

WBI – RESEARCH & INNOVATION PLATFORM







WBI – RESEARCH & INNOVATION PLATFORM

- Acts as an advisory body regarding the initiatives settled by the WBI R&I Department;
- Shares information between the partners with a view to identify common priorities which could lead to coordinated or joint initiatives;
- Contributes to define the WBI priorities of international cooperation in an open innovation approach

**The Platform provides a Wallonia-Brussels
coordination forum
for international cooperation in R&I**

WBI - OPPORTUNITIES WITH HUNGARY

Leading-edge technologies in Wallonia	EU Societal challenges	Strategic opportunities with Hungary
<ul style="list-style-type: none"> ➤ Biotechnologies ➤ Advanced materials ➤ Advanced manufacturing ➤ Nanotechnologies ➤ Micro/nano-electronics ➤ Photonics ➤ ICT <div style="text-align: right; margin-top: 20px;">  </div>	<ul style="list-style-type: none"> ➤ Health, demographic change and wellbeing; ➤ Food security and bio-based economy; ➤ Secure, clean and efficient energy; ➤ Smart, green and integrated transport; ➤ Supply of raw materials, resource efficiency and climate action; ➤ Inclusive and innovative societies ➤ Security <div style="text-align: center; margin-top: 20px;">   </div>	<ul style="list-style-type: none"> ➤ Scientific and technological reviews identifying new opportunities ➤ Organizing matchmaking event related to the high-priority sectors in Wallonia and Hungary ➤ Supporting the mobility of researchers and professors ➤ Visits of sciences parks, research institutes, spin offs and laboratories ➤ Supporting collaborative research between Wallonia and Hungary <div style="text-align: right; margin-top: 20px;">      </div>



Thank you for your attention !

Wallonie-Bruxelles International

Place Saintelette, 2

1080 Bruxelles