

Digital Innovation Hubs & Smart Specialisation

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Wallonia

Wallonia (BE)

- **Smart specialisation Strategy**

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- **Wallonia Digital Innovation Hub**

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|----------------------------|
| 3.585.000 inh. |
| 16.844 km ² |
| GDP : 26.377 €/inh. (2015) |



GDP per capita = 86,7% UE 28.

- Decline of traditional industrial sectors but progressive growth of innovative sectors and new specialisation (life science /health).
- Little open economy : Good export dynamism and high level of attractiveness for foreign investors
- High level of labour productivity and education but high level of (structural) unemployment.
- Relative lack entrepreneurial spirit, but economic base largely composed of SME's. Find more about start-ups dynamic : [HERE](#)

R&D-intensity (GERD/GDP) : 2.47%

- High level of concentration, slow deployment of innovation

Smart Specialisation Strategy (S3) in Wallonia : a continuous process

2000-
2010

- Progressive development of the Regional Innovation Strategy
- Marshall Plan and Marshall Plan 2.Green
- Creation of business clusters and Competitive Poles

2012-
2013

- S3 Platform peer review and OECD Innovation policy peer review
- Evaluation of policies, Industrial value chains analysis

2015-
2019

- Marshall Plan 4.0 and Smart Specialisation Strategy : consolidation of a regional industrial innovation policy
- Translation into policy tools (New research and innovation Decree, Competitive Poles policy, Structural funds, Digital agenda...) and improvement of the policy mix

The grounds of S3 in Wallonia : clusters policies



2001

- 2001 : launch of the business cluster policy, bottom-up

2006

- 2006-2009 : 1st Marshall Plan (1,6 billion €)
- Launch of the Competitive Poles policy, 280 millions € (5 poles created). Mix of top-down and bottom-up approaches

2009






- 2009-2014 : Marshall Plan 2.Green (2,75 billion €)
- Pursuing and deepening the Competitive Poles policy, 388 millions € – Creation of a 6th Pole (Green chemistry)








2015

- 2015-2019 : Marshall Plan 4.0 (Human capital, Industrial and innovation policy, Attractiveness, Energy and circular economy, Digital economy)
- Axis II: Deepening of S3 through Competitive Poles (316 millions €), new RDI Strategy, support to growth of enterprises



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| http://clusters.wallonie.be/ | Competitive Poles | Clusters |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="40 158 272 237"></div> <div data-bbox="40 339 272 411"></div> <div data-bbox="7 591 282 715"><i>Industrial processes and new materials</i></div> | MECATECH Mechanical engineering, materials and surfaces of the future, shaping of materials, additive manufacturing, microtechnology and mechatronics, intelligent maintenance and manufacturing | PLASTIWIN Plasturgy : polymers, engineering plastics, elastomers and rubbers, foamed products, composites, technical textiles <div data-bbox="1512 339 1667 522"></div> |
| | GREENWIN Green chemistry, environmental technologies, treatment and reuse of waste and effluents, waste water management, bio-sourced chemistry, management and storage of energy, sustainable building and renovation | |
| | LOGISTICS IN WALLONIA Transport, Logistics and Mobility: multimodality, sustainable logistics, supply chain security, internal logistics and management of industrial processes | |
| | SKYWIN Composites and metal materials, industrial processes, embedded systems, airport services, space applications and systems, modeling and simulations | |
| <div data-bbox="63 1003 227 1082"><i>Health and nutrition</i></div> <div data-bbox="40 1110 256 1186"></div> <div data-bbox="40 1260 272 1339"></div> | BIOWIN Biomarkers, Diagnostics in vitro and in vivo, innovative tools and equipment, medication administration systems, innovative therapies (cell therapy, protontherapy), IT applied to human health, medical equipment, drug discovery, innovative processes and organizational innovations | |
| | WAGRALIM Health and nutritional quality of food, industrial efficiency, packaging and sustainable agro-food industry | |

| http://clusters.wallonie.be/ | Pôles de Compétitivité | Clusters |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i>Sustainable development</i></p> <p><i>Sustainable building and energy</i></p> | <p>GREENWIN</p> <p>Green chemistry, environmental technologies, treatment and reuse of waste and effluents, waste water management, bio-sourced chemistry, management and storage of energy, sustainable building and</p>   | <p>TWEED</p> <p>Development of sustainable energy sectors: renewable energy sources, development of new processes and products for energy saving and energy efficiency</p>  |
| | | <p>ECO-CONSTRUCTION</p> <p>Green building and green renovation</p> |
| | | <p>CAP 2020</p> <p>Green building , low energy consumption building, energy-efficient building</p> |
| <p><i>Transport and mobility</i></p>   | <p>LOGISTICS IN WALLONIA</p> <p>Transport, Logistics and Mobility: multimodality, sustainable logistics, supply chain security, internal logistics and management of industrial processes</p> | |
| | <p>SKYWIN</p> <p>Composites and metal materials, industrial processes, embedded systems, airport services, space applications and systems, modeling and simulations</p> | |
| <p><i>Digital Technologies</i></p> | <p><i>Horizontal approach for the Poles</i></p> <p><i>Big Data innovation Platform</i></p> | <p>INFOPOLE CLUSTER TIC</p>  <p>Smart mobility, e-health, green technologies, Internet of things, serious games, big data, open data, transmedia</p> |
| | | <p>TWIST</p> <p>3D stereoscopic imaging, serious games, digital media, Internet and mobile content, scanning and digital archiving, motion recognition</p>  |

Consolidation and deepening of our Strategy



➡ New innovative value chains

Building an efficient Policy Mix

Walloon Government : Marshall Plan 4.0 – Creative Wallonia
Digital Wallonia



Transforming the business models of companies and reindustrialising Wallonia through digital

Developing the attractiveness of Wallonia's territory through broadband networks and a Smart Region approach

Digital Economy

Smart & Connected Territory

Capturing the added value of digital transformation through a strong, international and innovative digital sector

Digital Sector

Public Services

Skills & Education

Engaging a real Open Government approach and developing innovation through the use of open data

Making digital a priority for school equipment, education for the younger generations and lifelong training

Network/ecosystem approach :

Combination of different actors:

- [competitive clusters](#),
- [recognised research centres](#),
- [training centers](#),
- [professional federations](#),
- Etc...

and coherent mechanisms to **support digital transformation and the creation of companies**, open to all sectors of the industry:

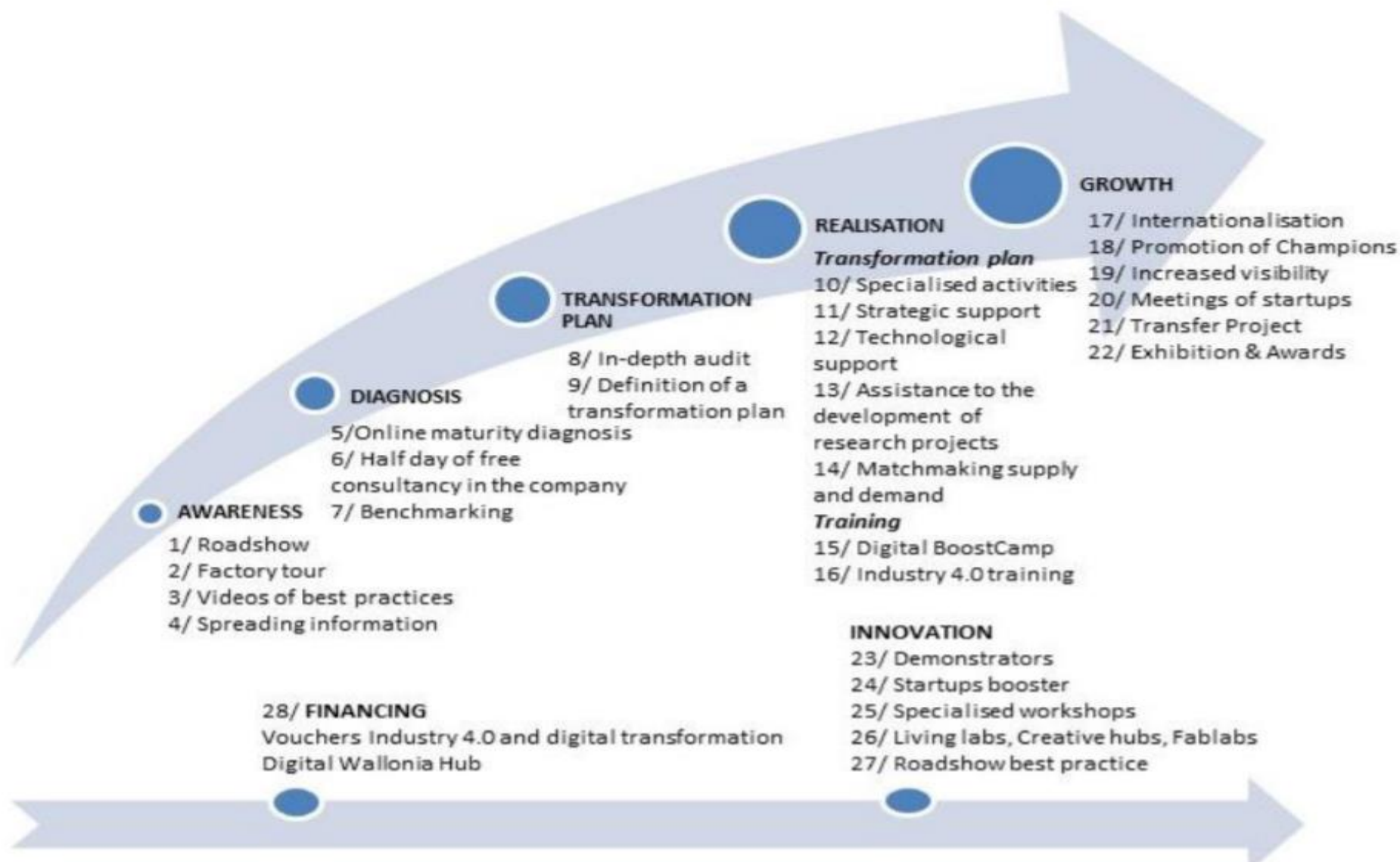
- [Digital Wallonia platform](#),
- [business vouchers](#),
- Etc.

The Walloon DIH covers 28 actions in an integrative framework for support according to the five dimensions of the Industry 4.0, accompaniment by the Walloon DIH.



Wallonia Digital Innovation Hub

Mapping of provided services according to the level of maturity of the company

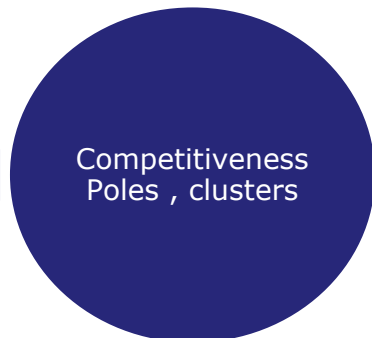


The Agence du Numérique (Digital Wallonia), play a role of orchestrator of this landscape.

Through the Digital Wallonia Strategy, the DIH is a part of the Marshal Plan 4.0 (theme 5). It provides regular feedback and KPI to the S3 (twice a year).

⇒ **The DIH is embedded in the S3 and its implementation**

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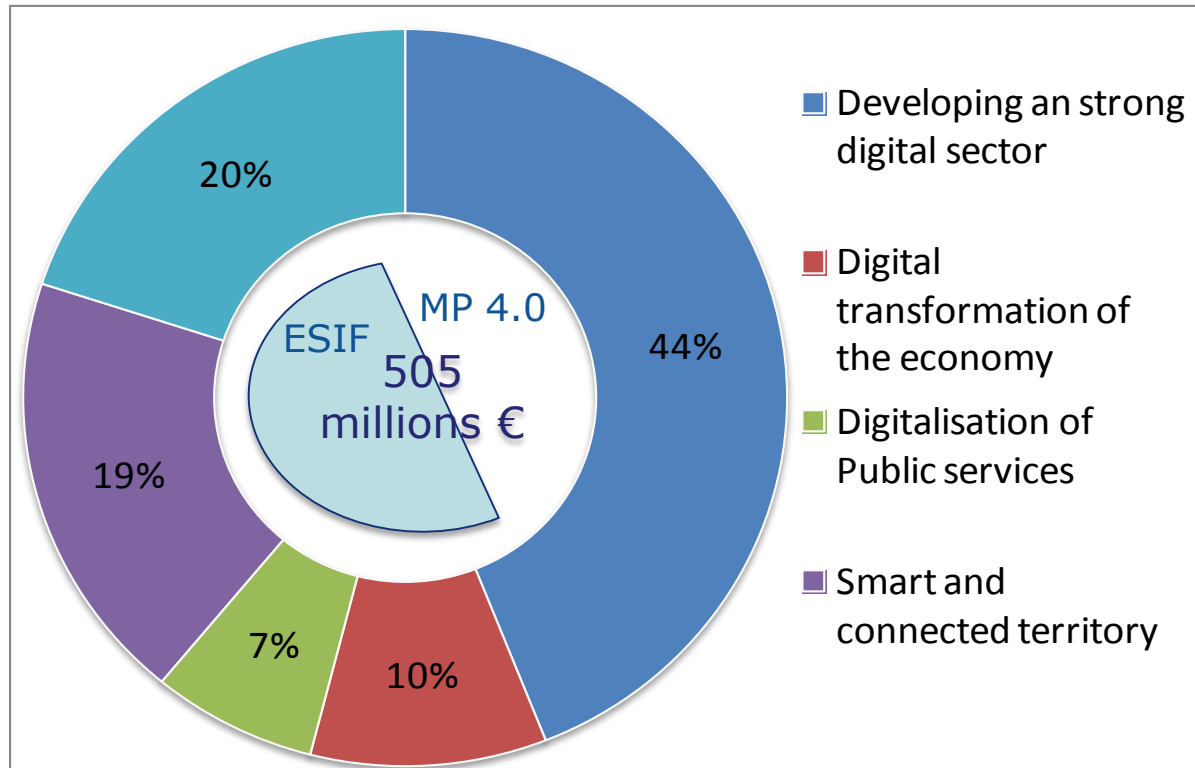
DIH stakeholders and actions
embedded in the S3 policy mix
S3 main stakeholders (clusters
research centers) integrated into
several DIH programs

Coordinating role of the Digital Agency
but effective coordination is a
challenge

Digital agenda as horizontal priority of
the cluster policy

- Clusters involved in Industry 4.0 actions
 - Cross-cluster collaboration : ICT-Infopôle cluster meets Competitive Clusters
 - Start-ups feeding the innovation dynamics in the clusters
- ⇔ Focus of the Digital Wallonia Strategy towards priority sectors of S3

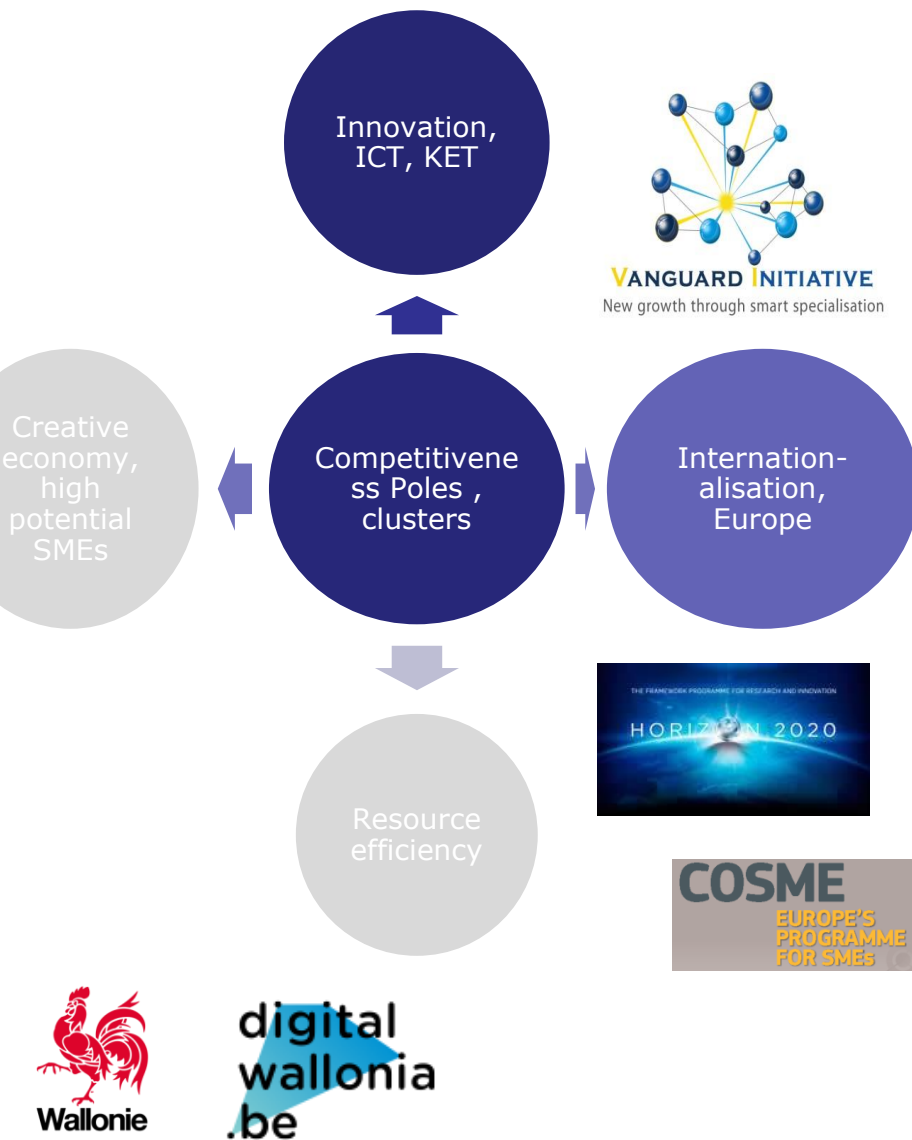
Digital Wallonia Strategy overall budget:



Connection between funding and services provided: Digital Wallonia allows specific funding to operators on a contract-based approach (Brand- Boost – Build).

Competitive calls limited to targeted audiences (e.g. clusters or Creative Hubs)

Open horizontal support measures for companies (vouchers)



Involvement of stakeholders in VI pilots

EU clusters collaboration projects (COSME, INNOSUP)

INTERREG A

Partnership with French Tech

! Clusters as facilitator for collaboration, notably for SMEs

Challenges:

- Few EU funding for cluster collaboration
- Cross-sector/cross-cluster collaboration
- Synergies: efficient articulation between regional strategy and EU policies
- Developing new financing solutions/mixes for interregional demonstration networks

Topics for collaboration:

- Digital Maturity Benchmarking about SME's
- Best practices exchanges about support to digital transformation of SME's
- Cross-border partnerships / technology transfers
- Cross-cluster collaboration / building new value chains
- Interregional demonstration networks
- Interregional vouchers schemes

Thanks for your attention !

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