



Flanders biotech & life sciences ecosystem Ready for the future

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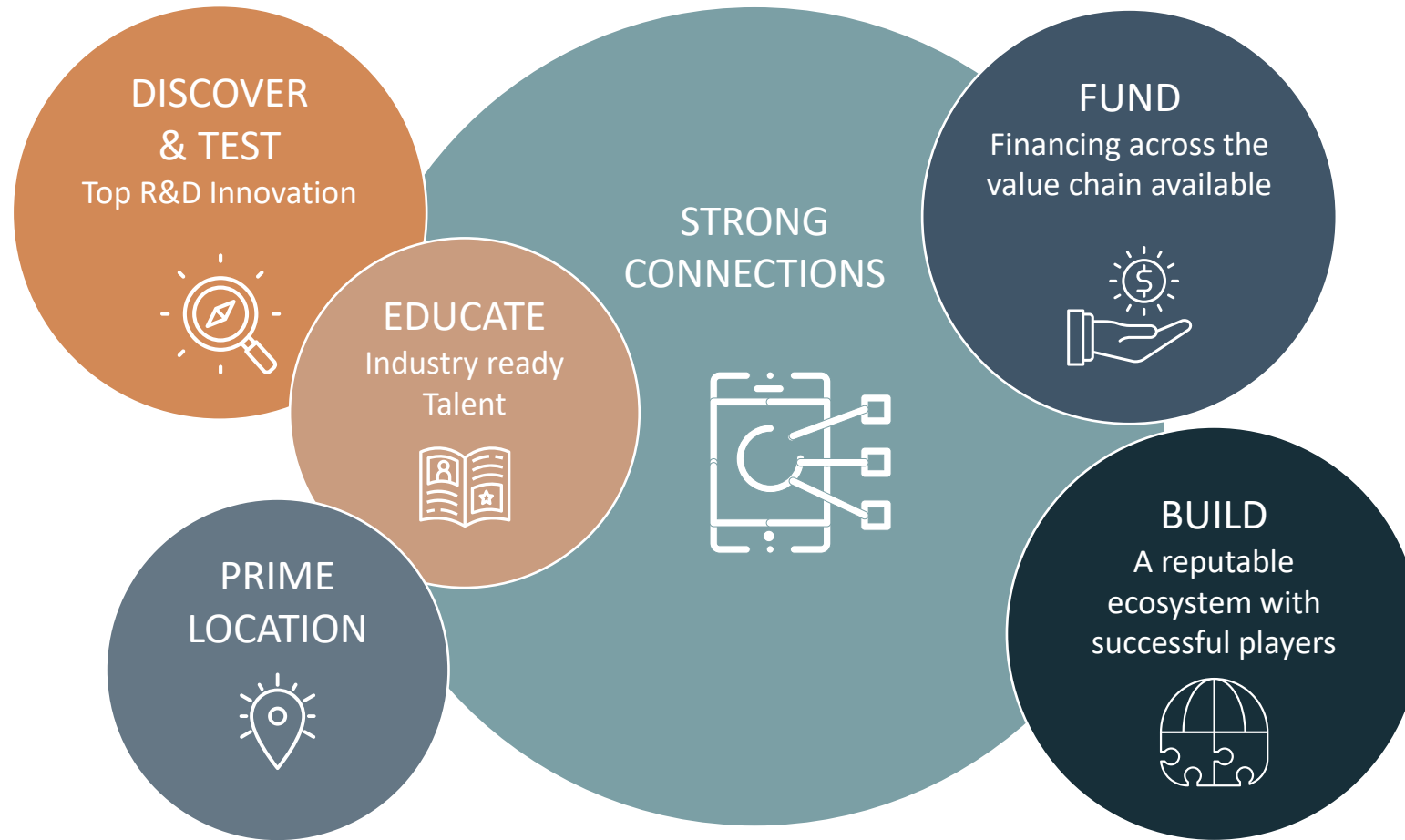
Belgium has its place as an international biopharma valley



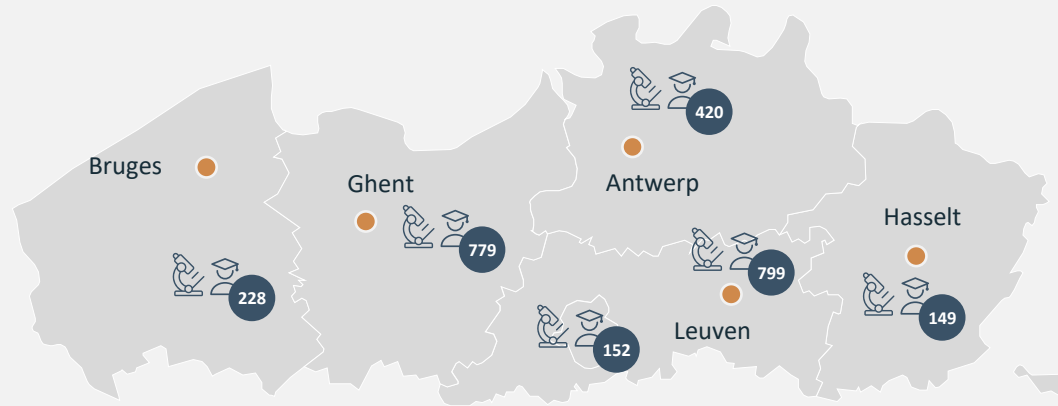
- A prominent **location** at the very heart of Europe and home to the EU, NATO and more than 5000 diplomats
- **Engagement & long-term vision of the regional and federal Government***, academic world, and health industry to strengthen the Flemish Belgian position.
- **Integrated value chain approach**: from idea to market: managing R&D, clinical trials, production, market launch & distribution.
- **Mature financing ecosystem** for most companies
- Home of more than 150 small biotech companies source of disruptive science and many products

* <https://www.premier.be/en/belgium-health-biotech-valley-tomorrow>

Key success Factors



From idea to market : The Flemish Bioscience Ecosystem



Dense Clusters of:

- Universities
- Academic Hospitals
- Research centers
- Bioincubators and science parks



15 Cancer Research Groups
5 University Medical Centers

UZ Antwerp
UZ Leuven
Erasmus Hospital
UZ Ghent
Saint Luc Brussels



Talent Pool
2.500 relevant graduates (yearly)

KU Leuven
University of Antwerp
Free University of Brussels
Ghent University
Hasselt University & 9 university colleges

World Class Research Centers

IMEC (1984)

Nanotechnology and ICT Solutions

- > 3500 employees
- HQ: Leuven



VITO (1991)

Process solutions

- > 700 researchers
- HQ: Geel



VIB (1996)

Life Sciences

- > 1500 researchers
- Universities: Antwerp, VUB, UGent, KU Leuven, UHasselt
- HQ: Ghent



Flanders Make (2003)

Manufacturing Industry

- > 100 researchers
- Universities: Antwerp, VUB, UGent, KU Leuven, UHasselt
- HQ: Lommel and Leuven

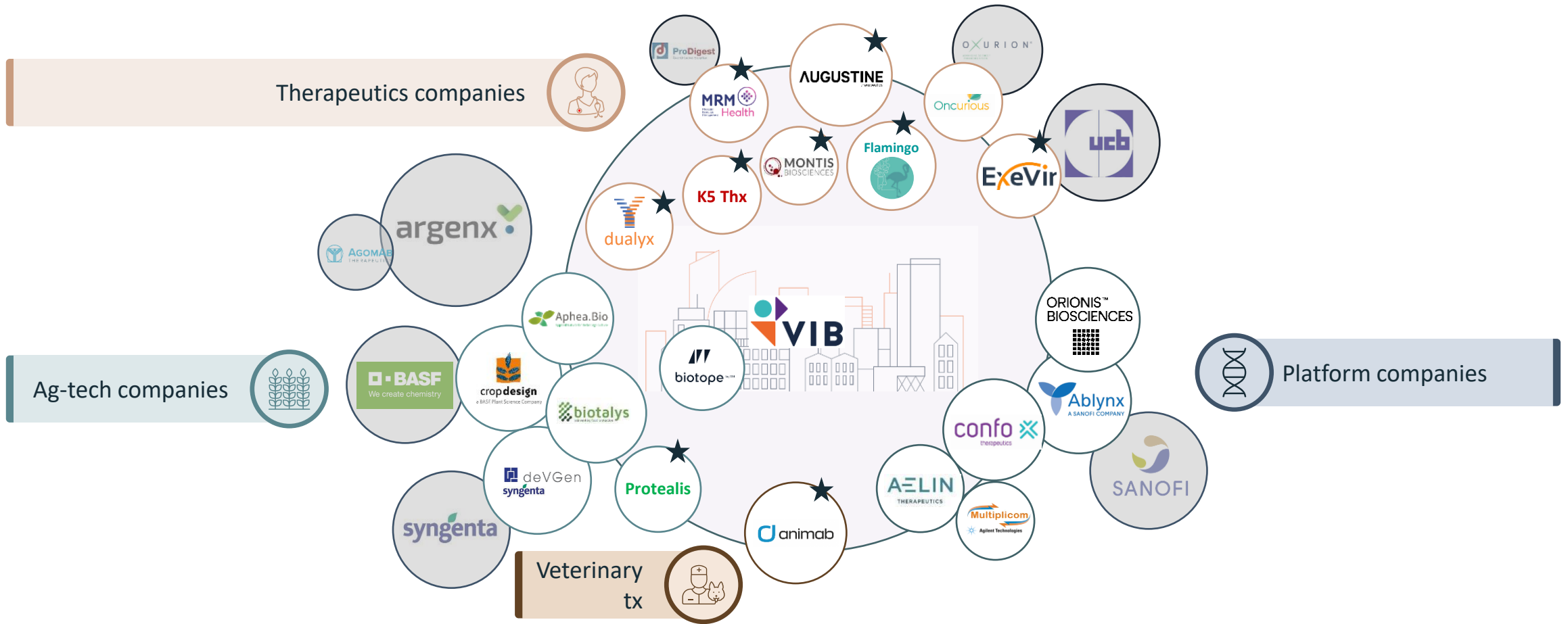


KU LEUVEN



VIB's start-up portfolio: Major impact

Start-ups, joint ventures & spin-outs



Big Pharma concentration is unique

Within 1 hour drive:



Most other Big Pharma companies have corporate seats in the Brussels Region



Research & Development

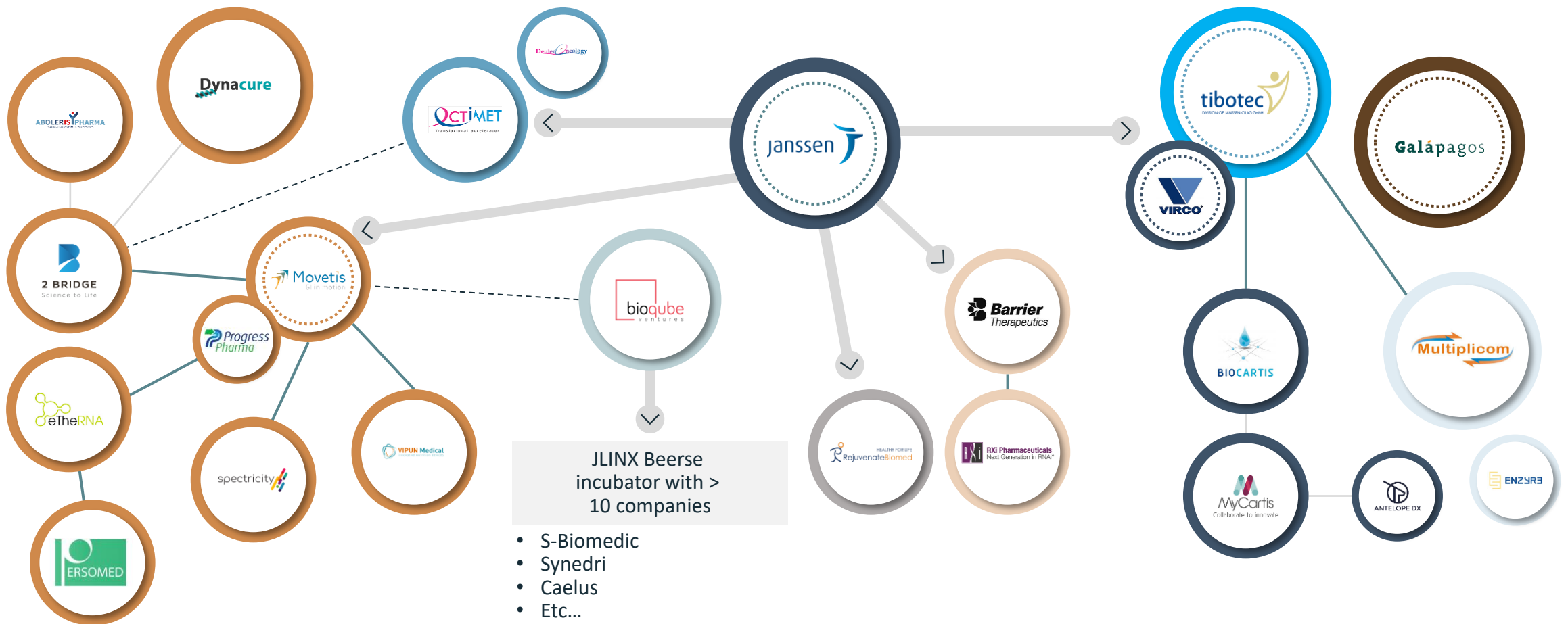
Manufacturing

Marketing & Sales

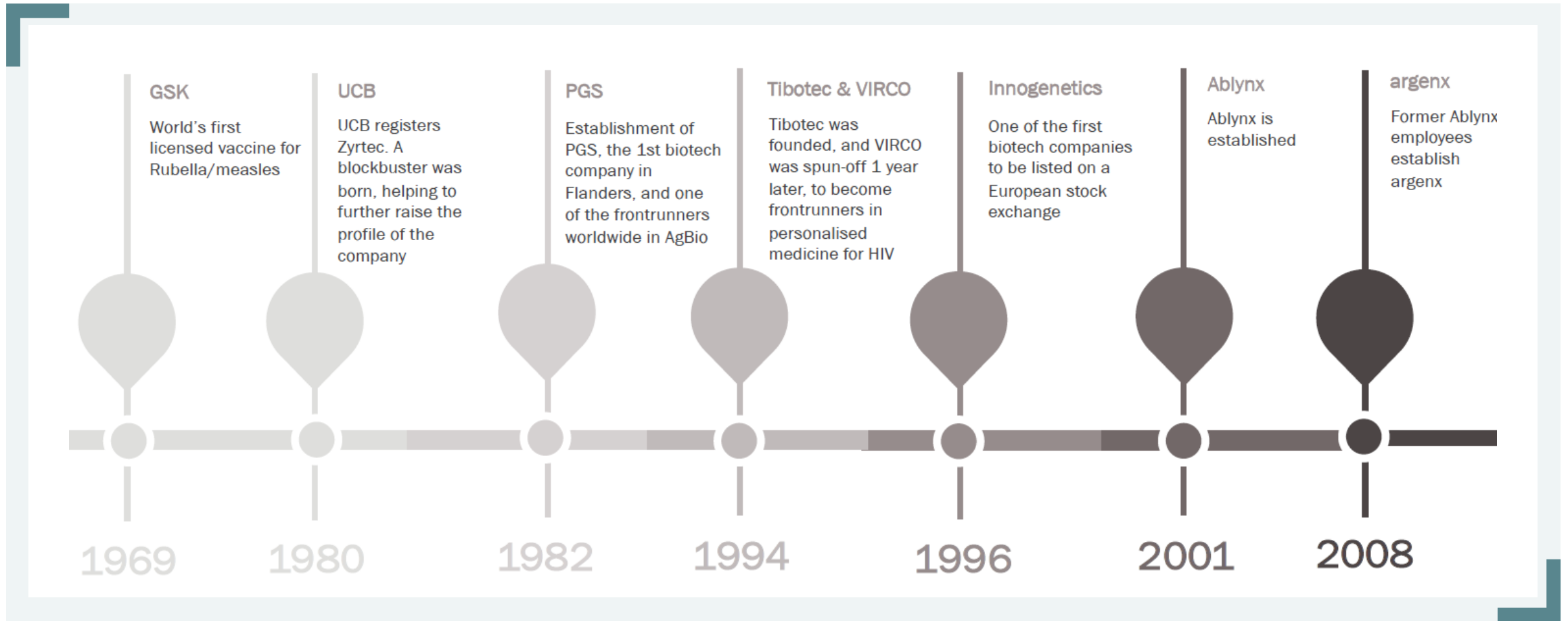
Distribution

Headquarters

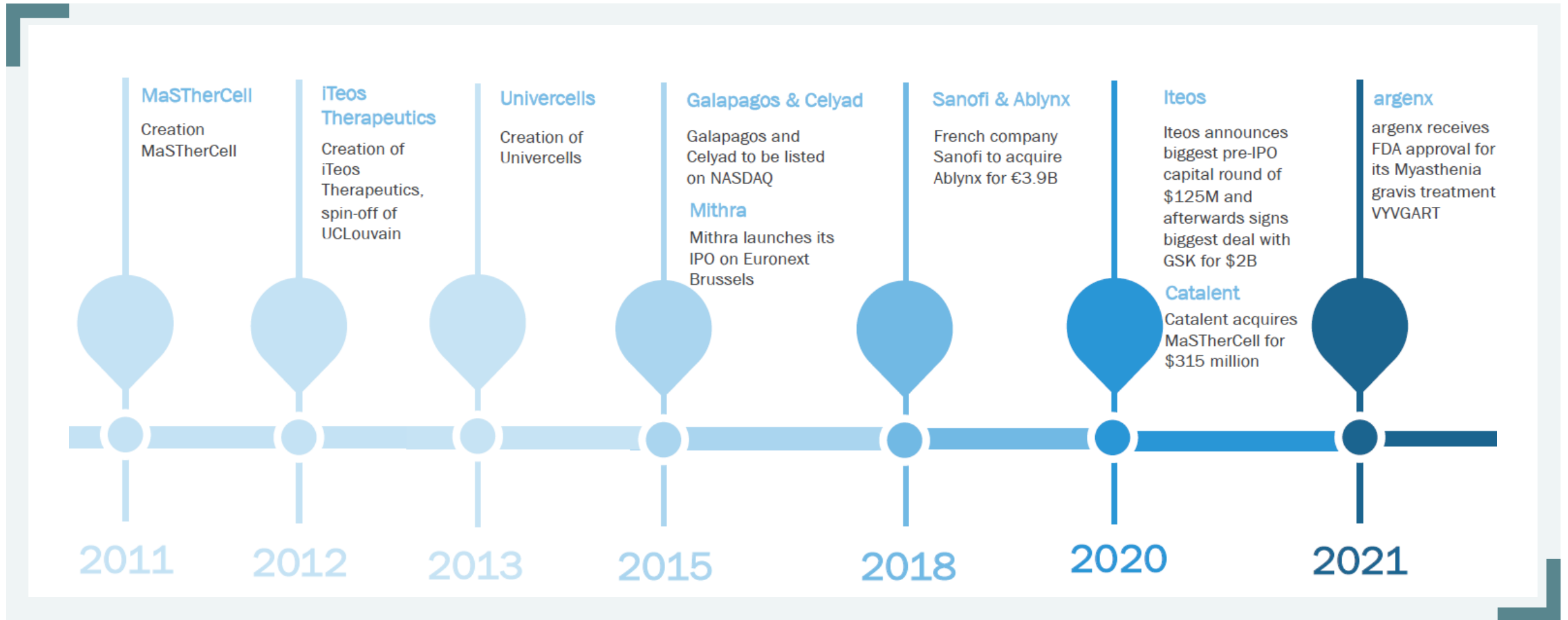
Janssen Beerse as another engine



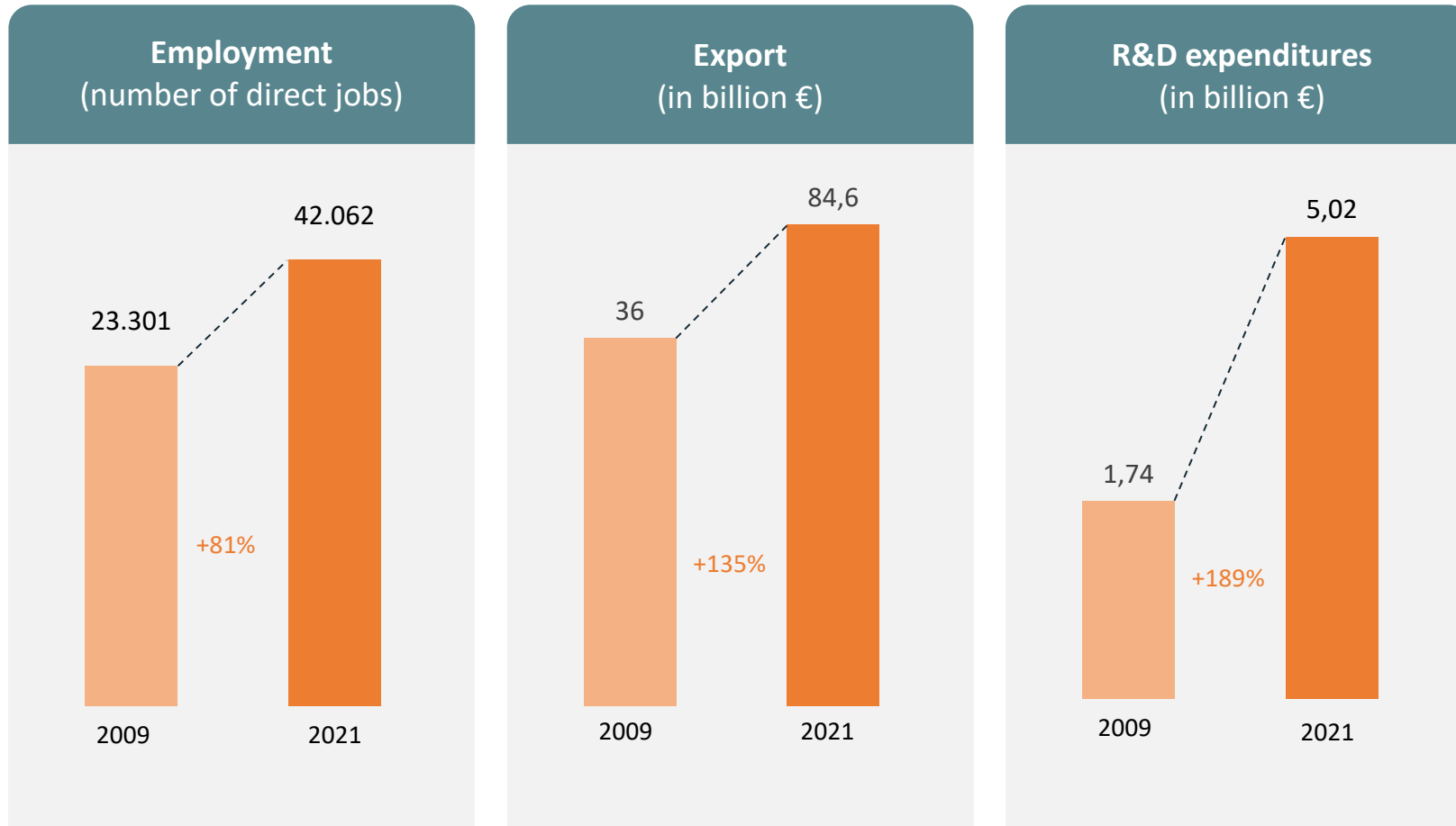
Belgium/Flanders strong history in biotech excellence



Belgium/Flanders strong history in biotech excellence



BELGIUM/Flanders: A growing sector



Biotech in Flanders:
300 companies
20000 employees
80000 indirect employment

Source:

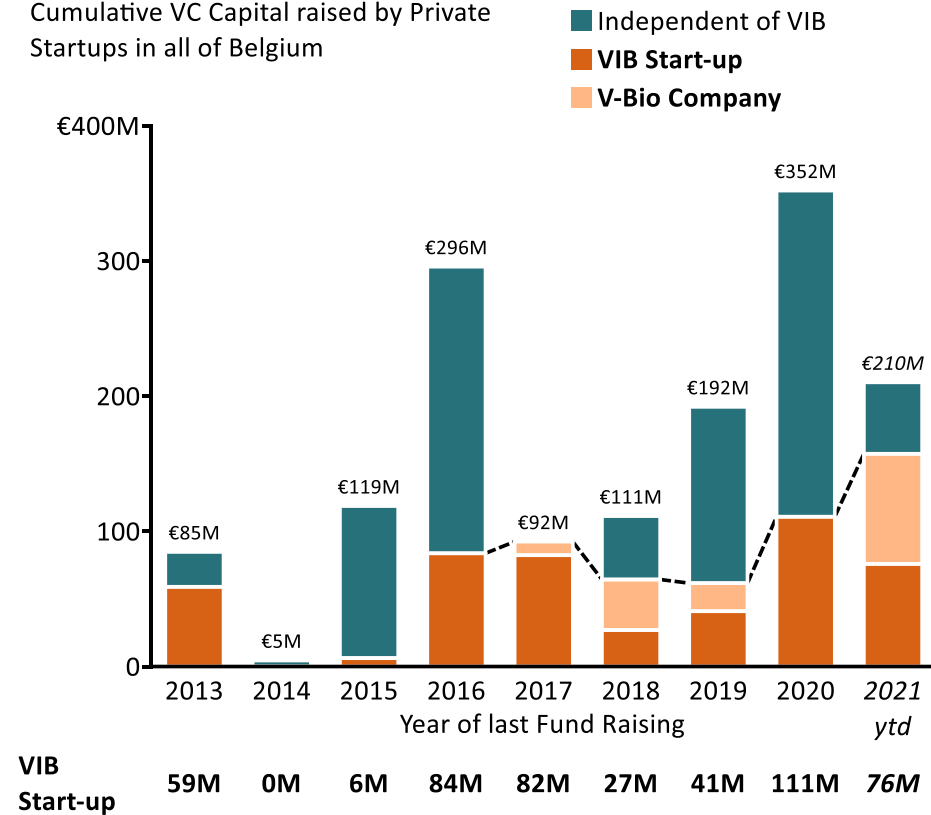
- Employment: National Social Security Office - decentralised statistics (number of jobs on 30th June)
- Export: National Bank of Belgium according to the communautarian concept (i.e. including distribution centers and transit activities)
- R&D: based on data from essenscia R&D survey among its members
- Pharma figures 2021

Belgium's start-up companies are accelerating...

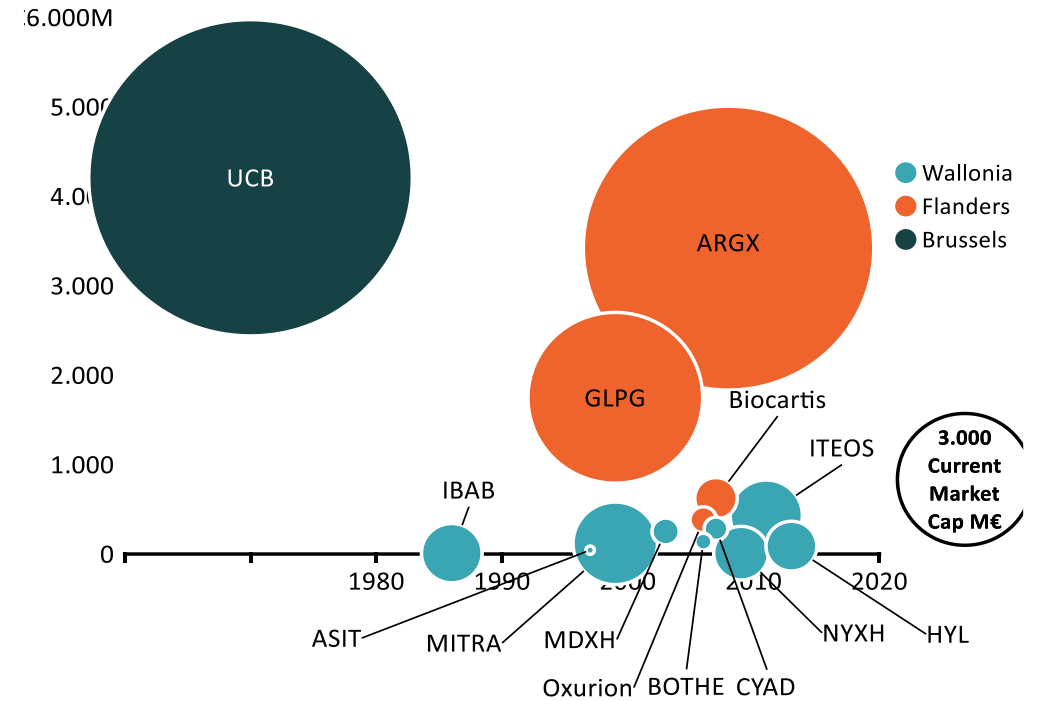
...and grow to biotech superstars



Cumulative VC Capital raised by Private Startups in all of Belgium

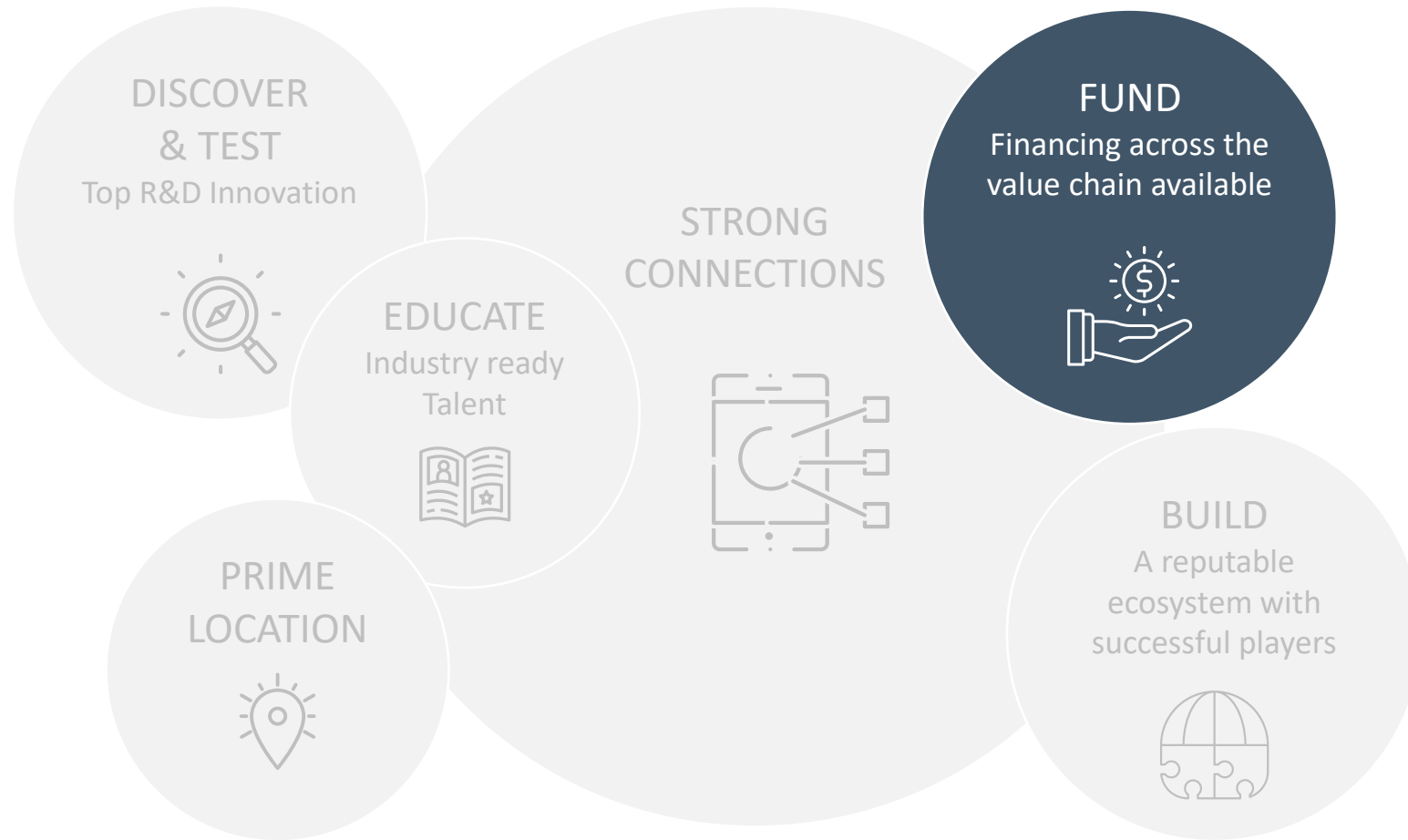


Capital Raised by Belgian Public Life Science Companies by year

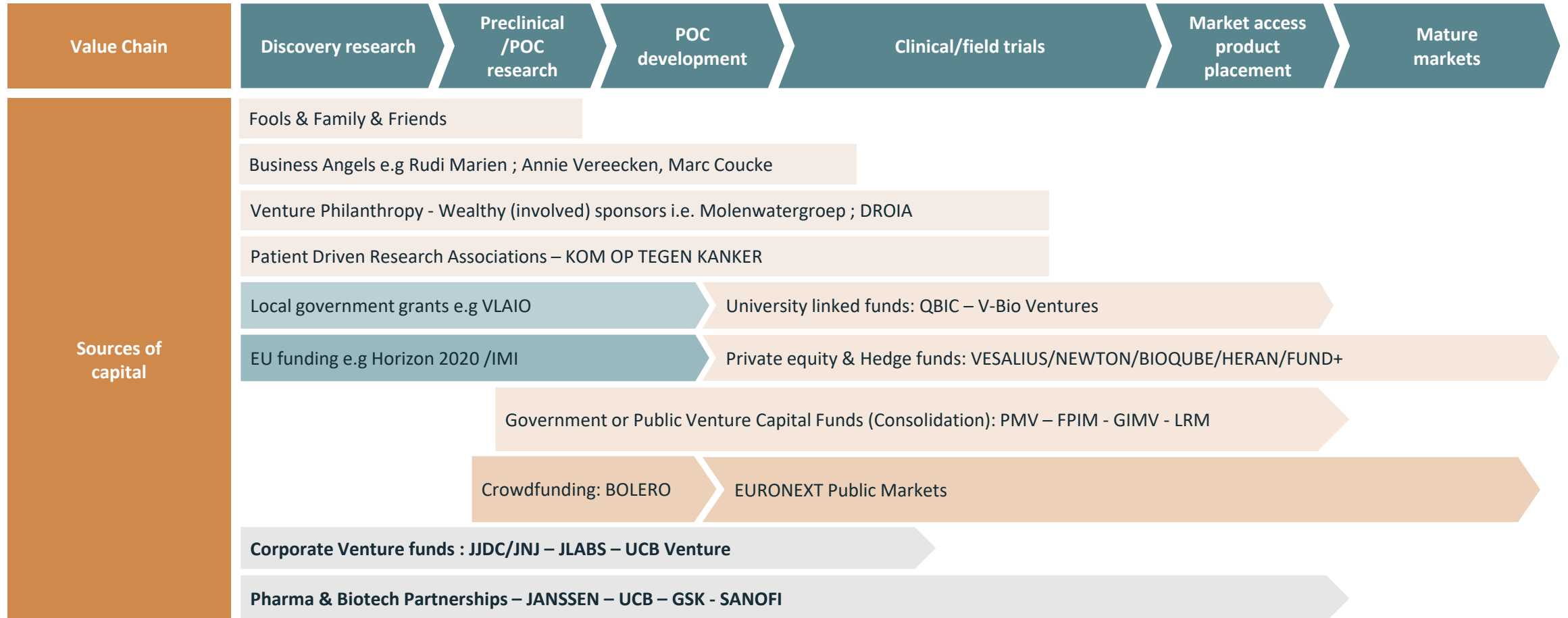


Source: BCIQ, updated March 2021

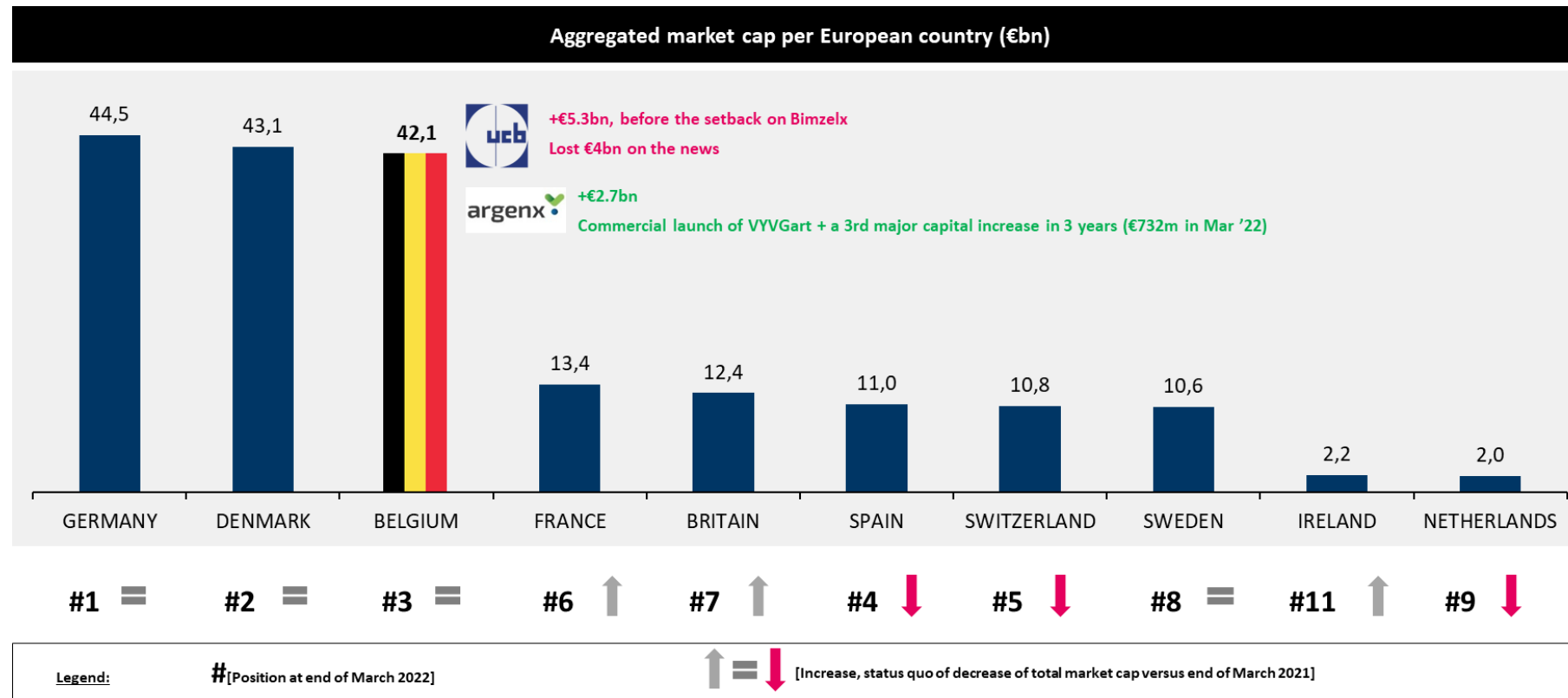
Key success Factors



Sources of funding Today in Belgium



Belgium as public market constantly top 3 in Europe



'omics' excellence in Belgium

All 5 Flemish universities have omics excellence

Excellent knowledge institutes

- **VITO** Centre for proteomics
- **VIB** Computational biology

15+ flanders.bio members active in omics

- **BioLizard**: recognised as an Official Illumina Connected Analytics (ICA) Implementation Partner (July 2022)
- **BioStrand** became subsidiary of IPA (Immunoprecise Antibodies LTD) (April 2022)
- **myNEO** and Janssen Pharmaceutica were awarded a VLAIO grant for the ImmunoPepX research project in collaboration with KU Leuven, VITO and VUB (July 2021)

'omics' challenges for the future



Clinical applications: curative and preventive healthcare



Data : Combined and integrated datasets - complex big data analysis



Reuse of data for clinical and research purposes



New healthcare professionals trained in omics and clinical application



Close collaboration between clinicians, genetic laboratory specialists, bioinformaticians, clinical geneticists, and geneticists and omics consultants is critical for the introduction of omics medicine

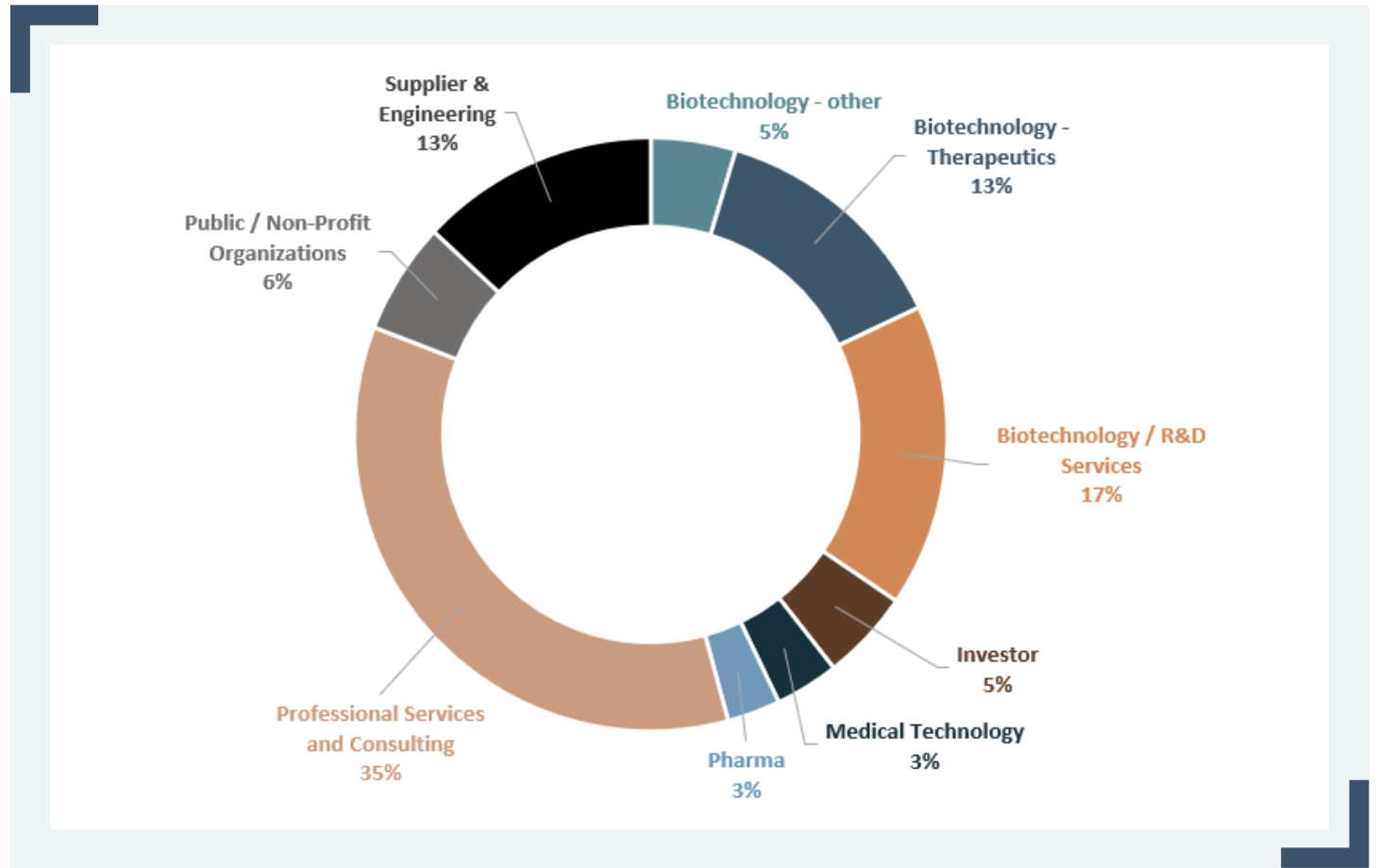
Driving force behind this vibrant sector

- An **independent life sciences cluster** organisation based in Flanders, Belgium with currently 340+ members
- **Three classes of members:**
 - R&D companies (95+)
 - Academic and public research organisations (20+)
 - Competence providers (220+)
- From **3 regions in BE** and regions in **adjacent countries** (e.g. the Netherlands)

Who are our 340+ members?



Our 340+ members are active in ...



Networking

- **KNOWLEDGE FOR GROWTH**, our flagship event
- 19th edition: **June 1, 2023, Antwerp**



2021 (hybrid)



2022 (hybrid)

