



Ghent University Innovation & Valorization Policy

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Ghent University

A creative community for a changing world





Facts and figures


 STUDENTS
35817

 INCOME
524,412,000

 ADMINISTRATIVE
AND TECHNICAL STAFF
2585

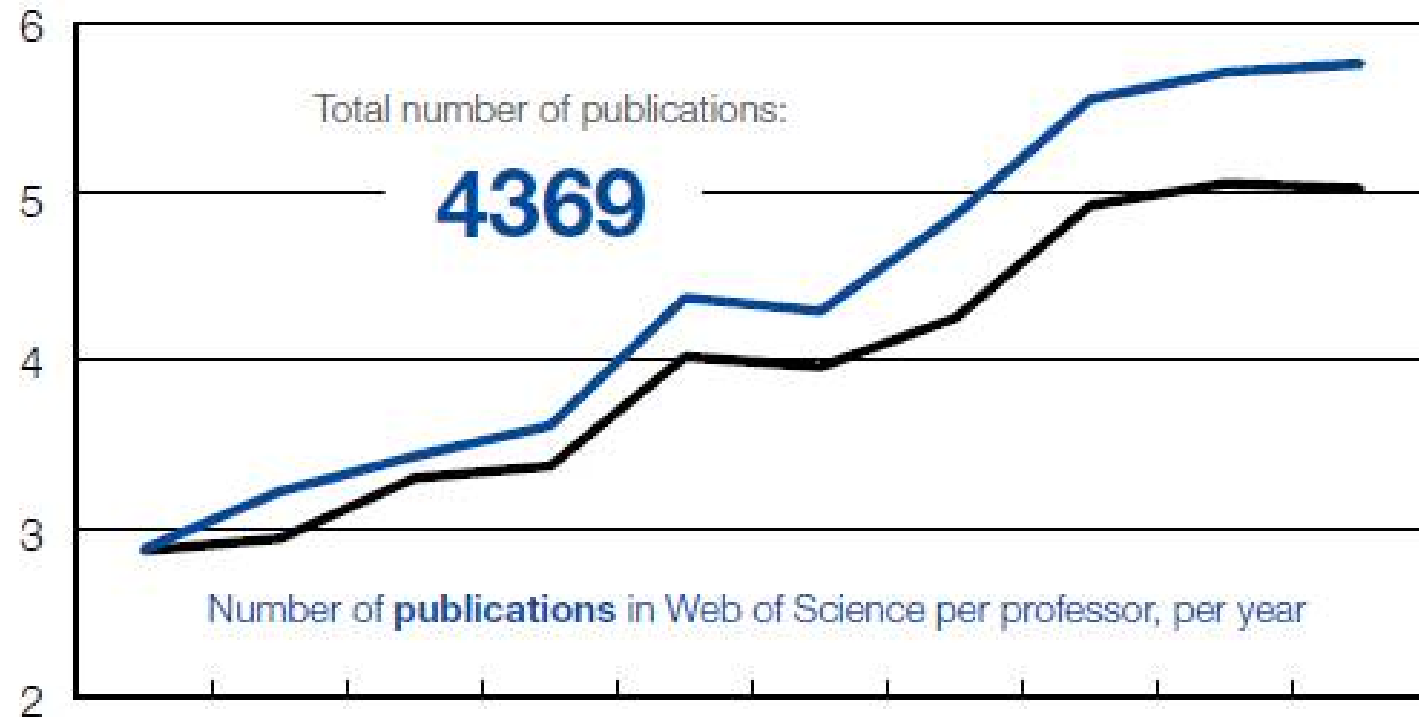
 PROFESSORS
1556

 ASSISTING
ACADEMIC STAFF
1175

 OTHER
RESEARCHERS
(EXTERNALLY FUNDED)
3306

6037
ACADEMIC STAFF

Research at Ghent University



	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
GHENT UNIVERSITY	2,88	3,22	3,43	3,61	4,37	4,29	4,86	5,55	5,71	5,76
AVERAGE FL. UNIVERSITIES	2,87	2,94	3,30	3,37	4,02	3,96	4,25	4,92	5,05	5,02

Ghent University: excellence rewarded

Shanghai Academic Ranking of World Universities 2012		
World rank	Regional rank	National rank
89	31	1
Times Higher Education World Universities Ranking 2012 - 2013		
World rank	Regional rank	National rank
93	31	2

Invest in research excellence

- growth requires management and must focus on quality as well as quantity
- balance between bottom-up and top-down management

Objectives

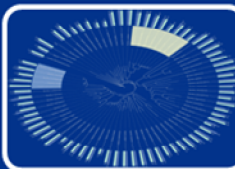
- To strategically steer the university's growth
- To prioritise quality objectives in this growth path

Policy tool: Spearheads in research



Biotechnology for a sustainable economy

The project Ghent Bio-Economy focuses on reinforcing the interaction between green (plant) biotechnology and the white (industrial) biotechnology for a sustainable bio-based economy



Bio-Informatics

The platform From Nucleotides to Networks (N2N) aims at setting up pipelines for the processing of the increasing flow of molecular data and the development of techniques for the integration of this data into further bio-informatics research



Nano- and Biophotonics

The Center for Nano- and Biophotonics sets up research lines in the area of nanoparticles, microlaser technology and optical switches, biosensors, bio-spectroscopy, scanning of biomaterials, electro-optical particle manipulation and active nanophotonic implants



Neurosciences

The Institute for Neurosciences studies behavioural control in the field of cognition and emotion, from a perspective of health and pathology and in terms of behaviour-based, neuro-atomic and neurochemical aspects



Inflammation and Immunity

The multidisciplinary research partnership GROUP-ID coordinates projects aiming at building up knowledge relating to the origins and maintenance of inflammatory reactions



Valorization: why and how

- Promoting economic development and the creation of employment (“knowledge-based economy”)
- Growing attention to socio-cultural valorization
- How ?

Translation of technological innovations into useful commercial products, processes , services

- through IP outlicensing
- via the creation of spin-offs



BAEKELAND FONDS



• Science Parks



Valorization at UGent

- Scientific excellence => Conditio sine qua non
- Comprehension of industrial innovation => Identify high potential “fertile” areas
- Optimization of technological innovation => Minimize the gap between academic research and industrial development
- => Stimulate entrepreneurship

Unique dual structure



Centralized structure with professional valorization expertise



Decentralized valorization structure with high technology expertise (22)

Industrial Research Fund - IOF



Flemish Government
19 M€ / year



Ghent University
6.1 M €/year (2011)



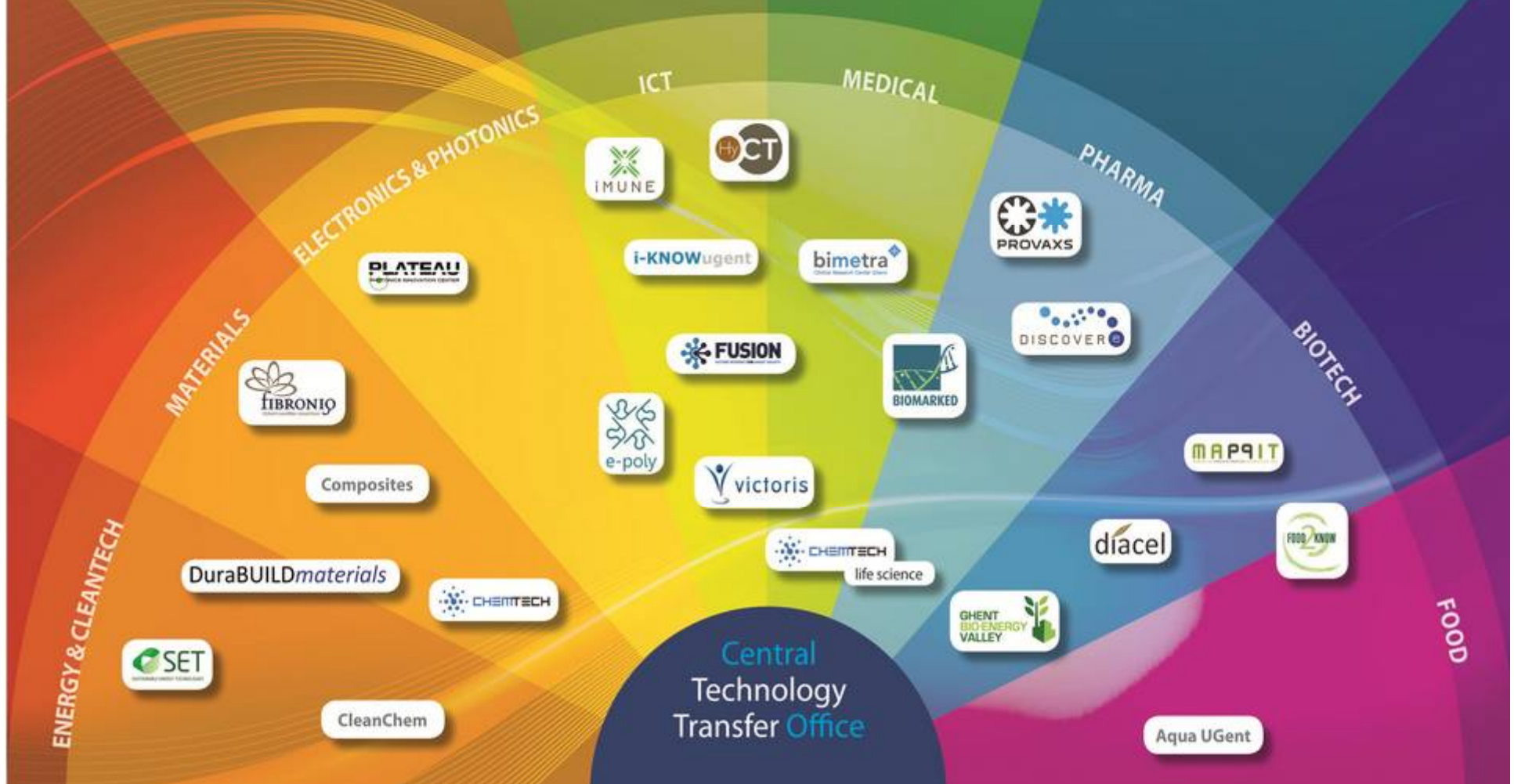
IOF Business
Development Centres



Project Funding
3 M€/year

Technology Transfer at Ghent University

Technology transfer at Ghent University wants to facilitate the commercial application of promising technologies developed within the Ghent University Association. Key technology transfer activities include industrial collaboration programs, IP licensing and spin-off creation. For its liaison with industry, UGent uses a network of specialized business development centres backed by a Central Technology Transfer Office.



IOF – Proof-of-Concept funding

StarTT project:

- Transition from scientific research to goal- and application oriented development.
- Proof-of-concept
- Max €75K ; 1-2 years

Advanced project :

- Maturation of technology
- Technological and industrial Proof-of-concept
- Max €150K ; 1-2 years

Stepstone project:

- Spin-off incubation
 - Projects with broad technology basis or originating from capital intensive fields
 - Max €500 K ; 1-3 years
-



Professional Technology Transfer
support: central TTO

- Core competences
 - IP& Licensing
 - Management of the intellectual property (patent) portfolio
 - Legal & Contracts
 - Management of contracts with industrial partners
 - Business development

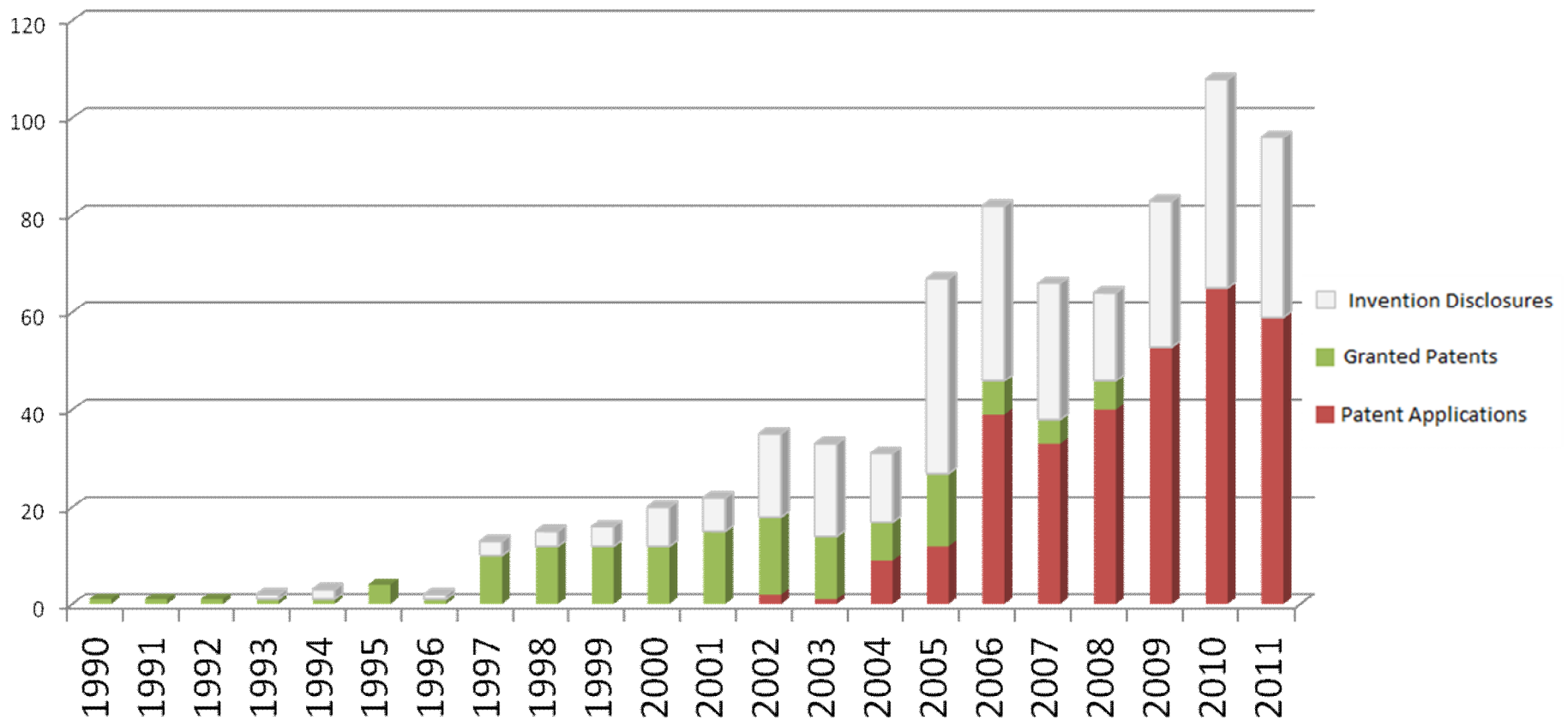


IP & Licensing

- Management of technological innovations from concept to commercialization (licensing)
 - Identification of patentable inventions
 - Drafting and prosecution of patent applications
 - Freedom-to-Operate analysis
 - Opposition and Third Party procedures
 - Negotiation of licensing agreements (with legal and BD)



UGent patent portfolio evolution

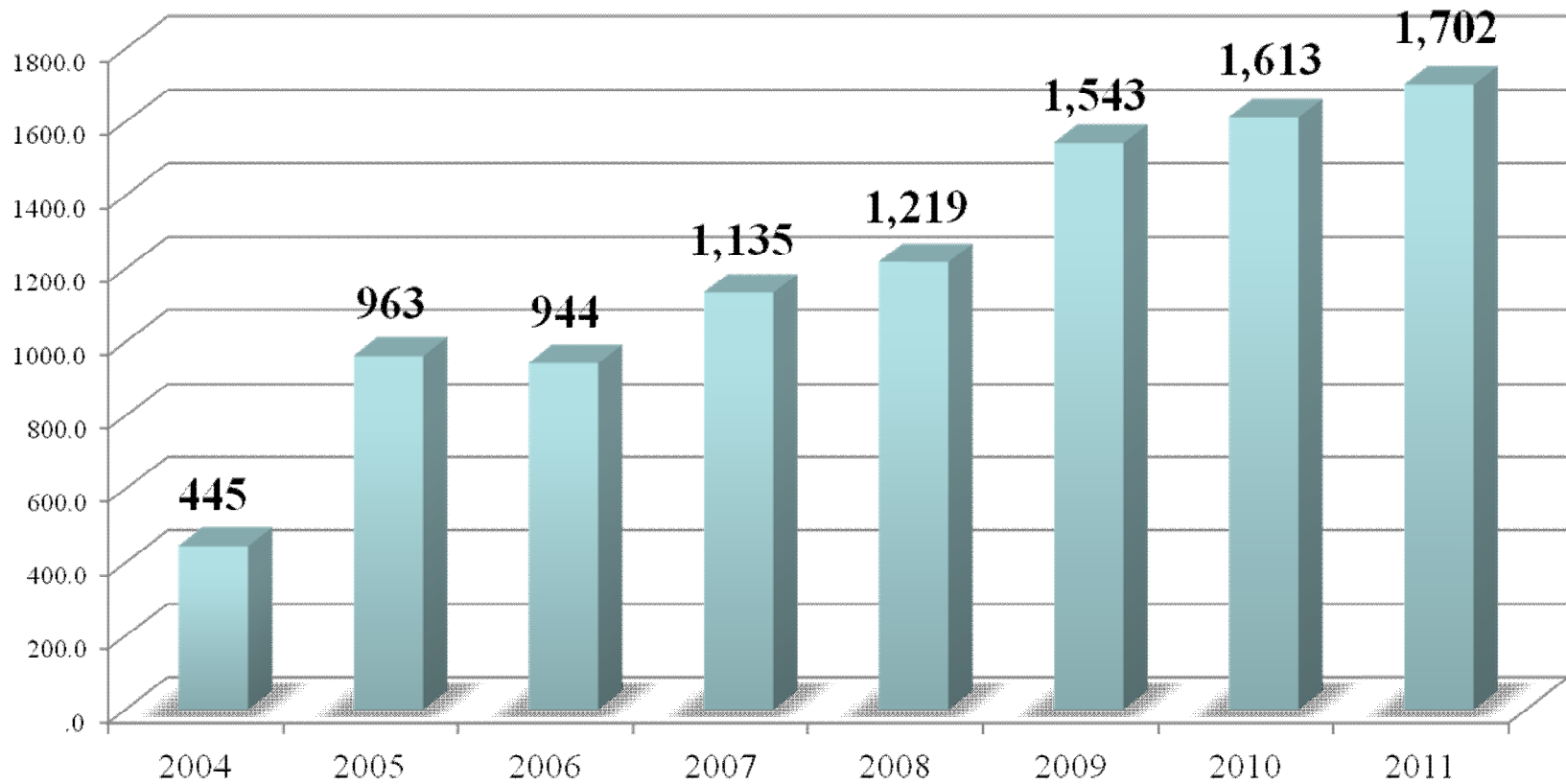




Legal & Contracts

- Drafting and Management of contractual agreements with industrial partners
 - research collaborations
 - outlicensing or transfer of intellectual property
- Legal advise in R&D-related areas
- Legal support in spin-off creation

Legal: Evolution # Contracts





Business Development

- UGent-Industry interactions: novel approaches
 - Industry is focusing primarily on short term objectives → increasing role for academic institutions in the long-term R&D strategy
 - Aim at strategic, long-term partnerships formalized into framework agreements



Strategic Partners



Business Development

- **Stimulate entrepreneurship at UGent**
 - Doctoral schools
 - Tech Transfer skills course
 - Student-entrepreneurs
- **Spin-off policy**
 - Entrepreneur driven spin-offs
 - Technology driven spin-offs



Entrepreneur-driven Spin-offs

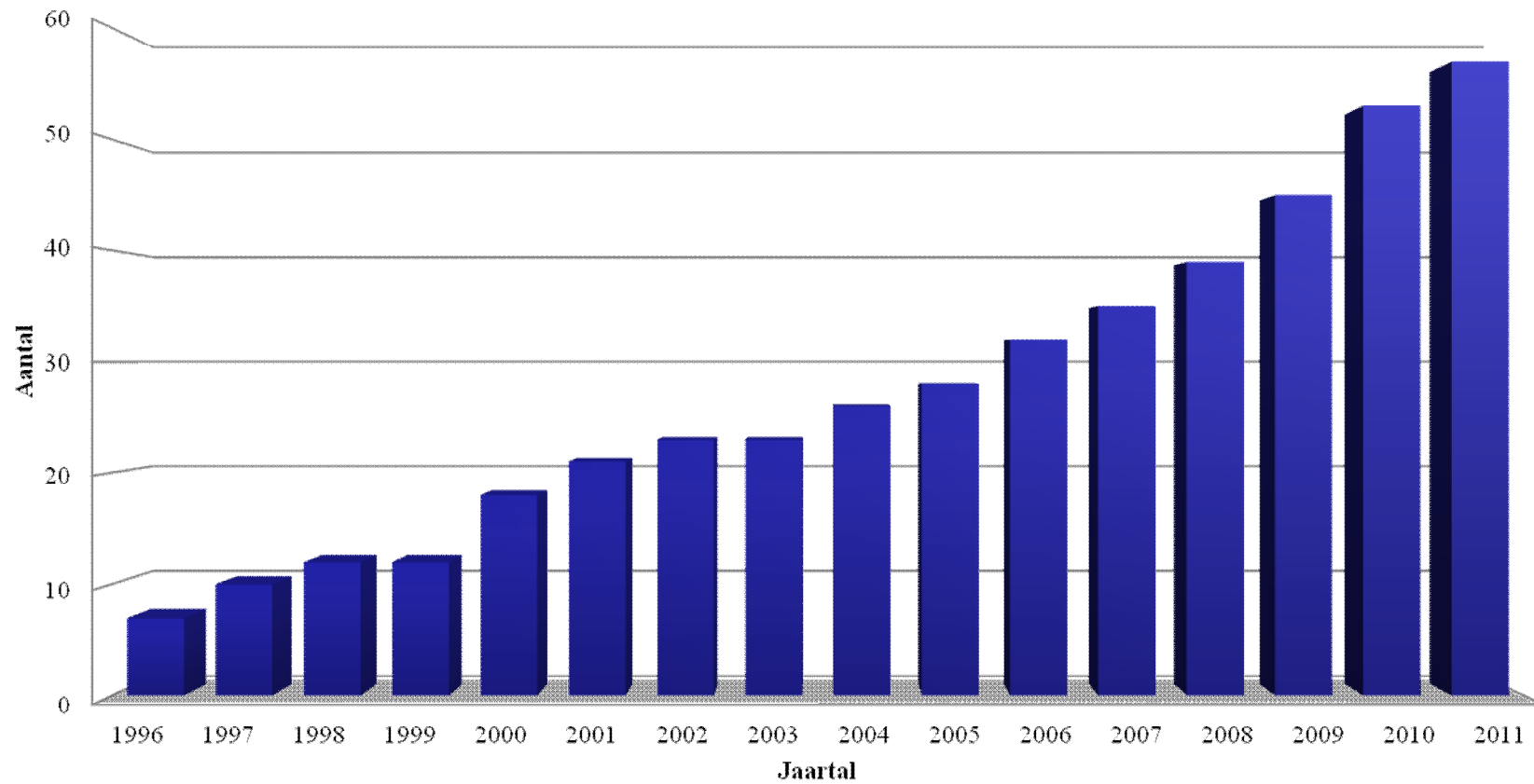
- Companies started by UGent students/researchers
- UGent offers an ideal training ground for young entrepreneurs
 - Spin-off companies can be hosted within UGent infrastructure (max 3 years)
 - Simple license agreement with the host laboratory
 - Right to use the technologies for commercial purposes
 - Minimizes the entrepreneurial risk
 - No employees on the payroll until there is sufficient revenue



Technology-driven spin-offs

- Companies developing products or processes based on UGent technological innovations/platforms
- Professionally supported and coached during the incubation (industrial proof of concept) phase
 - Industrial Research Fund provides incubation funding of up to 500.000 €
 - TTO contributes to business case development, start-up team composition and attraction of seed capital

UGent Spin-Offs: evolution (cumulative)





UGent spin-offs 2010



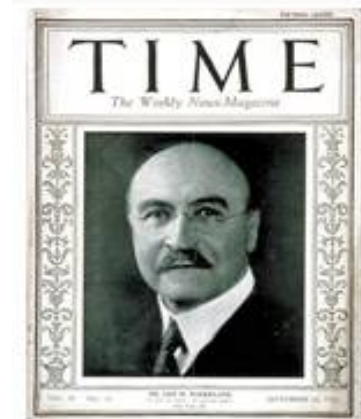


UGent spin-offs 2011- 2012ytd



Seed Capital Funds

- Baekeland Fund II (closed end, 12 years)
 - Seed and early stage financing of UGent spin-offs
 - Capital: € 11,2 Million
 - Currently in the follow-up investment period
- Qbic Fund
 - Newly raised inter-university fund
UGent, Free Univ of Brussels and Antwerp University
 - Capital: > € 30 Million
 - Possibility to finance spin-off projects
prior to actual incorporation (incubation funding)





BAEKELAND FONDS



• Science Parks



Tech Transfer



For more information
www.techtransfer.ugent.be

Thank You