









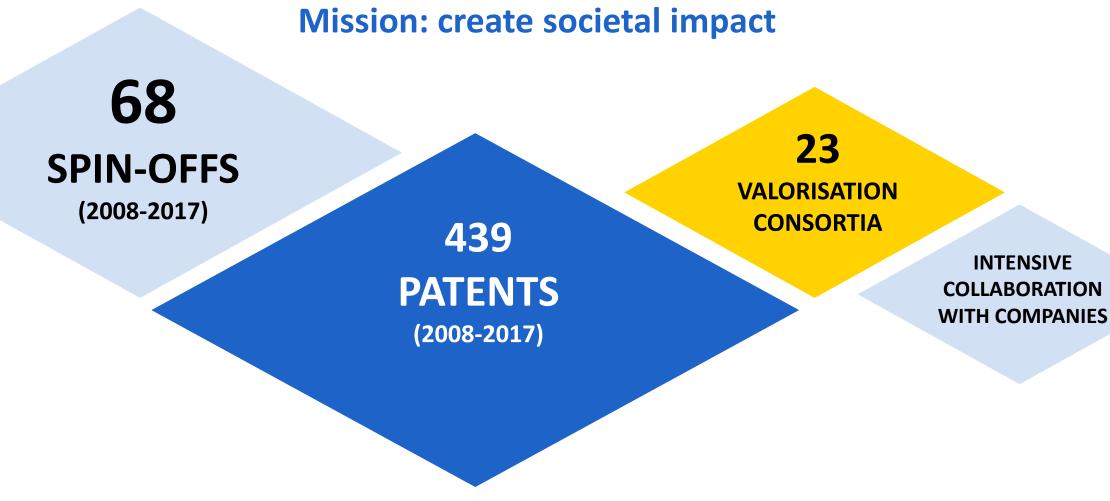
## Ghent University: facts and figures

- Founded in 1817
- 66<sup>th</sup> in academic ranking of world universities
- Annual revenue: 410 million euro
- 11 faculties and 86 faculty departments
- 9000 employees
- 1400 professors
- 44000 students





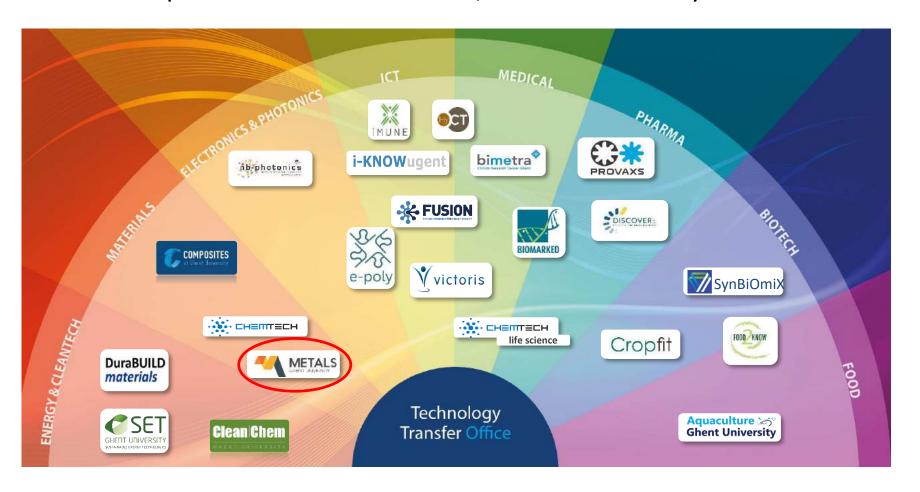
## Industrial research at Ghent University





## Industrial research at Ghent University

- Central Technology Transfer office (~36 people)
- 23 business development centra or consortia, all coordinated by a business developer

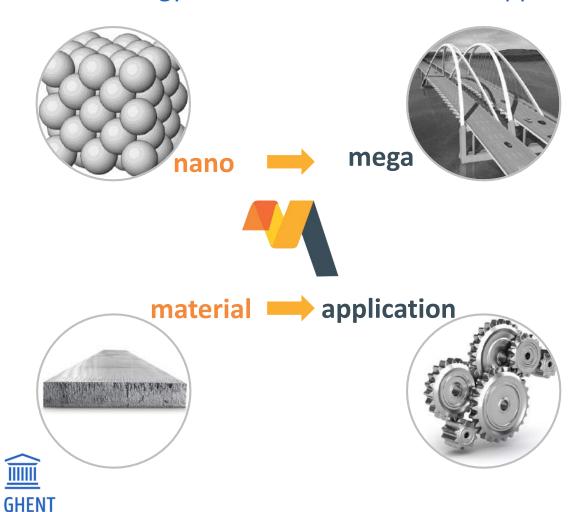




### Focus areas of the Metals Consortium



The Metals consortium provides **solutions** in research and technology domains related to metal applications.



UNIVERSITY

DEVELOPING
& MAKING
INNOVATIVE METALS

CHARACTERIZATION & EVALUATION

metallurgic mechanic tribologic electromagnetic DESIGN,
CONSTRUCTION &
EXPLOITATION

of industrial constructions and machines offering optimal functionality and durability

## Our multidisciplinary team



Tribology	<b>Prof. P. De Baets</b> Prof. D. Fauconnier
Fracture and fatigue	Prof. W. De Waele Prof. S. Hertelé
Physical metal science	Prof. S. Cottenier Prof. L. Kestens Prof. R. Petrov Prof. P. Verleysen
Sustainable materials	Prof. K. Verbeken
Magnetic materials	Prof. L. Dupré
Vibrational control and dynamics	Prof. M. Loccufier
Bridges, roads, tunnels Metal constructions	Prof. H. De Backer Prof. W. Decorte



13 academic research group+ 6 industrial partners













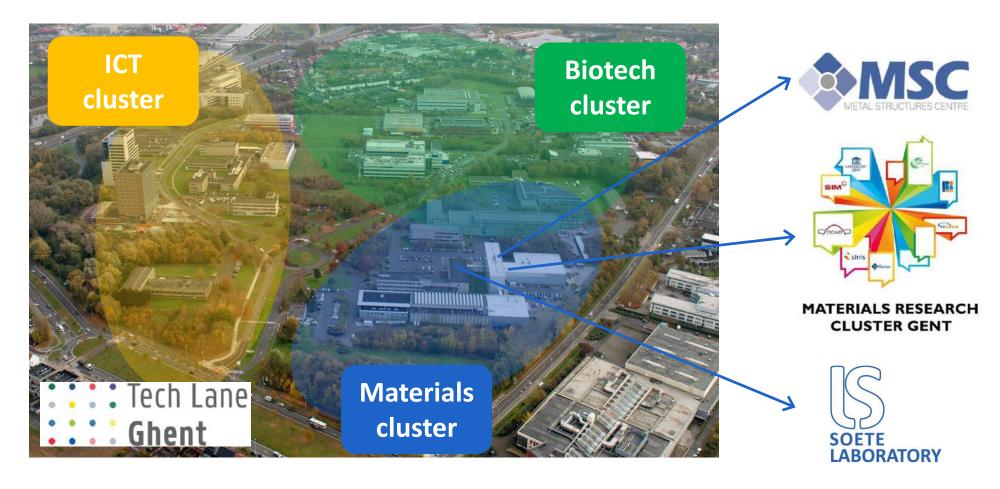


## We are fully embedded



Materials domains clustered at TechLane Ghent Science Park

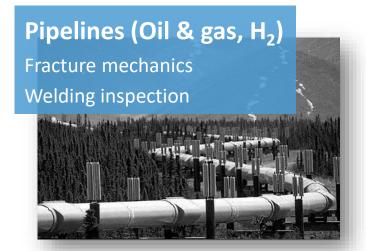
- UGent consortia Metals, Composites, DuraBUILDmaterials
- Material Research Cluster and Metal Structures Center

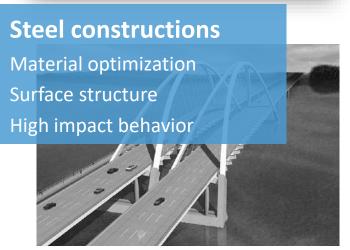




## Markets and specialties

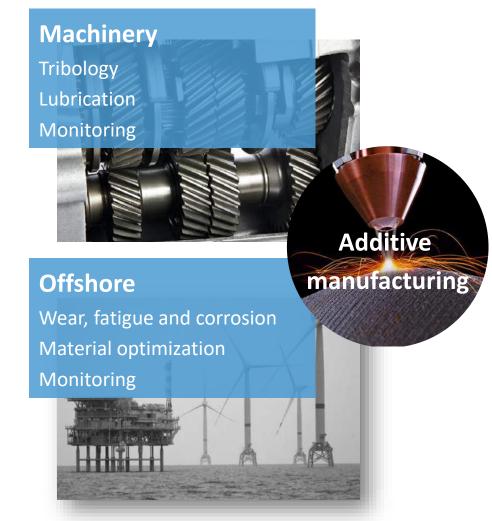














### Our strengths

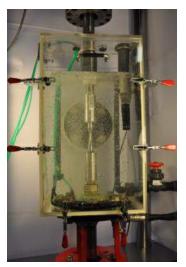


- Unique infrastructure: metal production (up to 100 kg), hot and cold rolling technologies
- Microscopic texture characterization
- Large-scale mechanical testing accounting for environmental conditions
- High-throughput platform and computational screening
- Condition monitoring for predictive maintenance
- Hybrid materials (including 3D-printed materials)







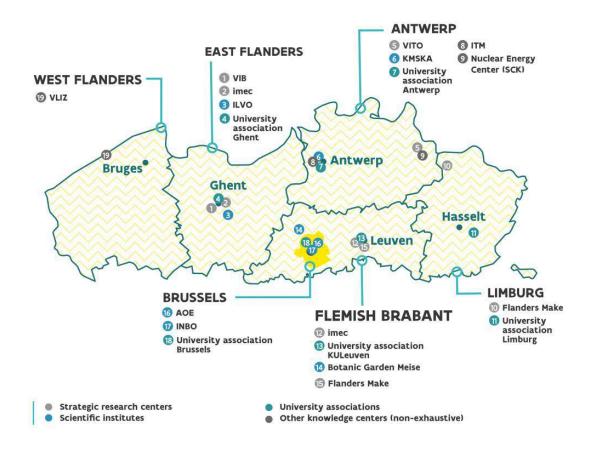




## R&D and innovation landscape in Flanders



#### Flanders is a top 5 knowledge region in Europe



Metals at Ghent University strongly anchored in Flemish landscape through ...

- University associations
   UGent, KUL, VUB, UHasselt, UAntwerp
- Strategic research centra
   IMEC, Flanders Make, VIB, ...
- Spearhead clusters
   SIM, Catalisti, VIL, Blue Cluster, ...



#### How can we collaborate?



#### **Partnership models**

# Project Partnerships

- Project-based
- Ad hoc
- Short-term (2-4yrs)

# Structural Partnerships

- Framework agrmnt.
- Multiple projects
- Mid-term (3-5yrs)

# Strategic Partnerships

- On campus
- Joint programs
- Long-term (5+ yrs)

# Thematic Partnerships

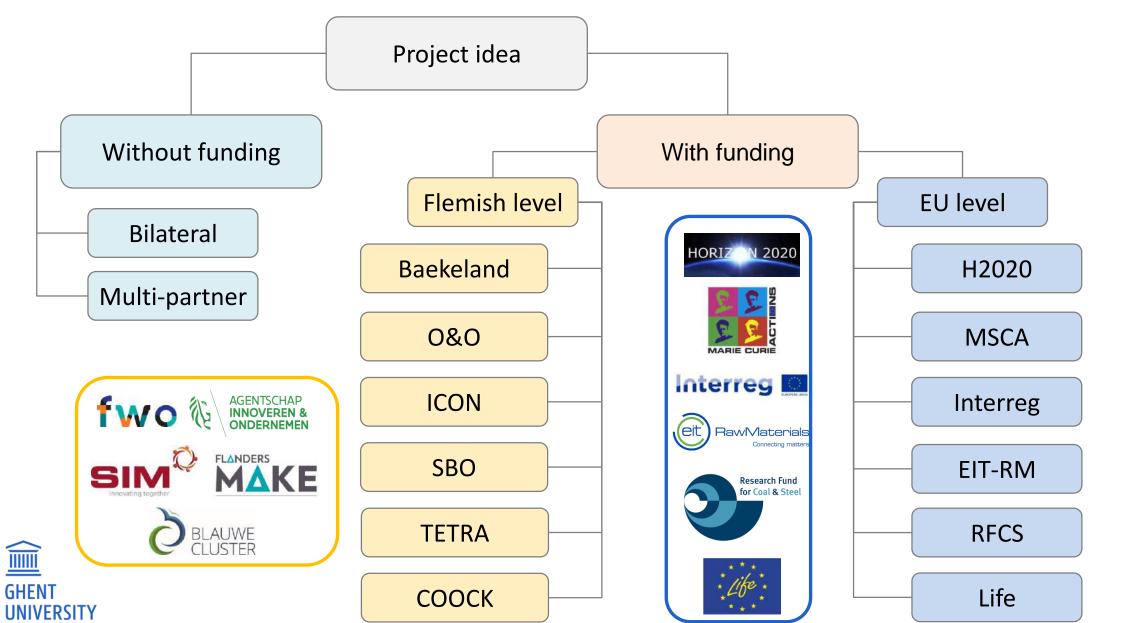
- theme-centered
- Multiple partners
- Mid-term (2-3yrs)

Strive towards long-term partnership



### How can we collaborate?









### Kristof De Wispelaere

Business developer

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