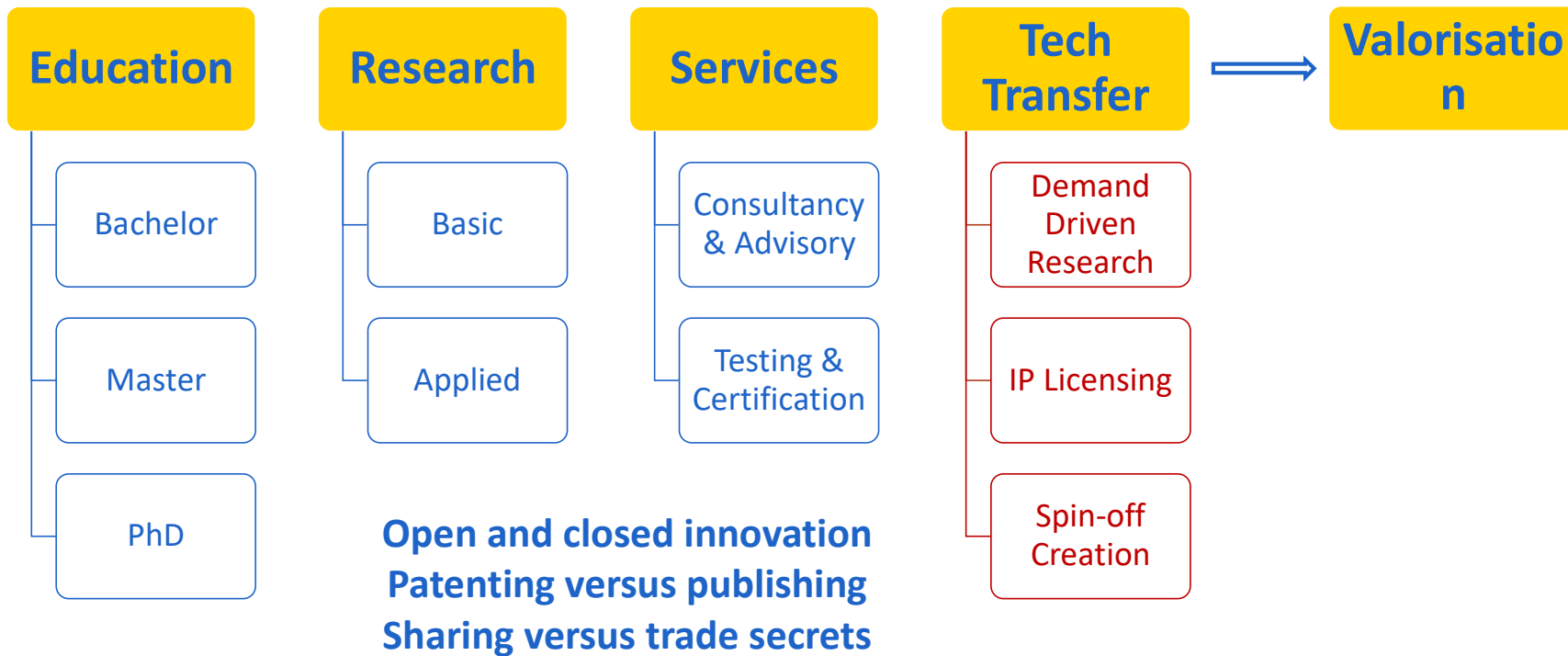


# ONTWIKKELINGEN IN VEILIGHEID & PUBLIEK-PRIVATE SAMENWERKING

Studiedag: Evoluties in publiek-private samenwerking op evenementen en in een stedelijke context

Dr. Arne Dormaels, Business Developer i4S, AUGent

# INTRODUCTION: THE EXPANDED ROLE OF A UNIVERSITY



# UGENT TECHTRANSFER (TT)

## Bringing research to life

Transfer of knowledge: university to market for benefit of society

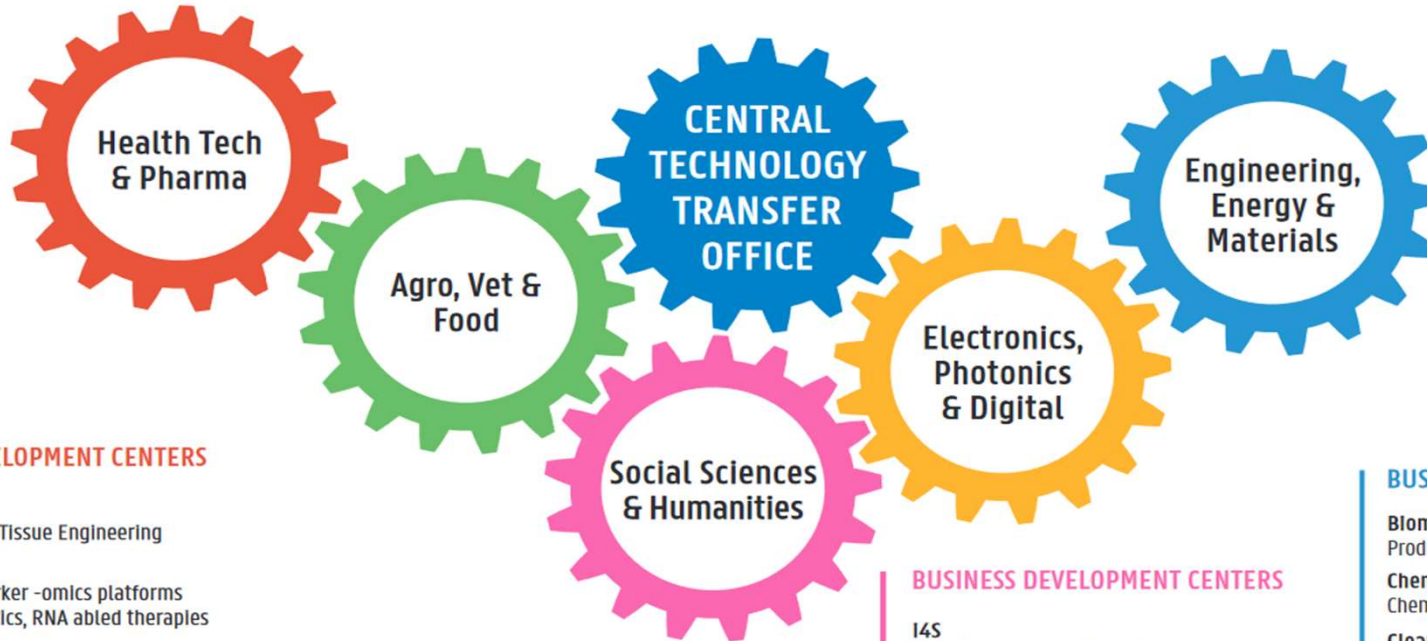
- Protect & manage IP/knowhow UGent
- Support contracting
- Internal researchfunding
- Early engagement researchers valorisatie proces



[www.ugent.be/techtransfer](http://www.ugent.be/techtransfer)  
[techtransfer@ugent.be](mailto:techtransfer@ugent.be)



# BUSINESS DEVELOPMENT CENTERS (IOF CONSORTIA)



## BUSINESS DEVELOPMENT CENTERS

**ACT-T**  
Advanced Cell and Tissue Engineering

**Blomarked**  
Pre-clinical biomarker -omics platforms and BioIT, diagnostics, RNA abled therapies

**ChemTech Life sciences**  
Chemistry Technologies for the life sciences

**HyCT**  
Hybrid CT image building technologies for material and life sciences applications

**MEDTEG**  
Medical Device Technologies

**Protein Technologies Ghent**  
Proteomics & biopharmaceutical protein production and delivery technologies

**UGent DiscoverE**  
Drug discovery, drug delivery and drug manufacturing Innovations

**Victoris**  
Technological optimization, research and Innovation in sport

## BUSINESS DEVELOPMENT CENTERS

**BLUeGent**  
Innovations in aquaculture and blue life sciences

**CropFit**  
Biostimulants and Biocontrol for plants

**End-of-Waste**  
Processing of organic wastes and by-products from agro & food industry into new biobased resources

**Food2Know**  
Feed, Food & Health

**PROVAXS**  
Innovation in animal health

## BUSINESS DEVELOPMENT CENTERS

**I4S**  
Smart Solutions for Secure Societies

**Liaison officer**  
Social Sciences and Humanities Faculties

## BUSINESS DEVELOPMENT CENTERS

**e-Poly**  
Center for advanced, polymer based microsystems and applications

**INDATA**  
Internet & Data Lab

**I-Know**  
Intelligent Information management

**nb-photonics**  
Photonics, components, systems, applications

## BUSINESS DEVELOPMENT CENTERS

**Blomolecules**  
Production of Bio-based molecules and engineering tools

**ChemTech**  
Chemistry & Water Technologies

**CleanChem**  
Cleantech for sustainable chemical production

**Composites**  
Innovative technology platform for composites

**DuraBUILDmaterials**  
Innovative technologies for durable building materials and structures

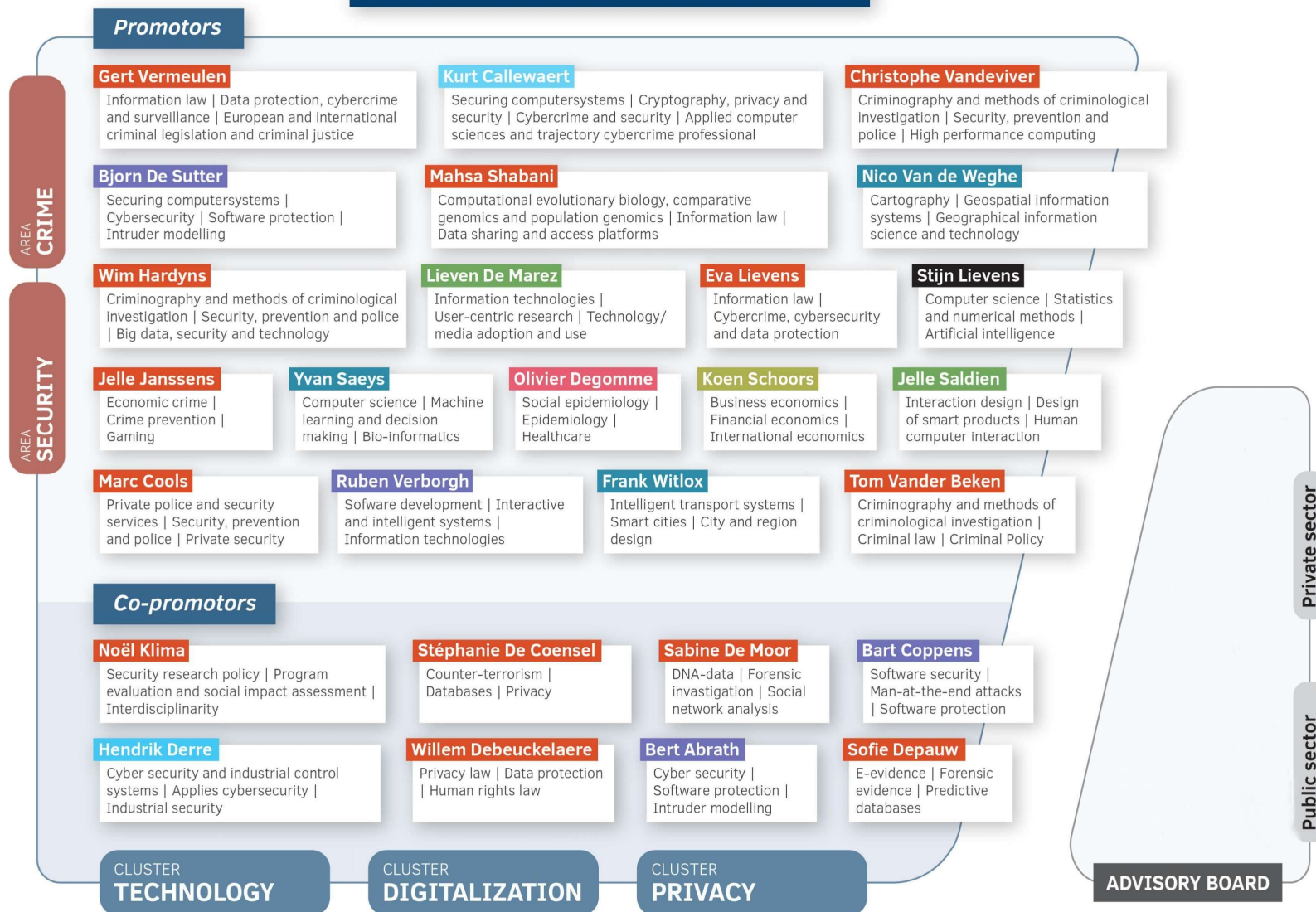
**Machinerles & Factories**  
Machine & factory design and optimization; Industry 4.0

**Metals**  
Your partner for metals research

**EnerGhentIC**  
Energy Research & Innovation Community

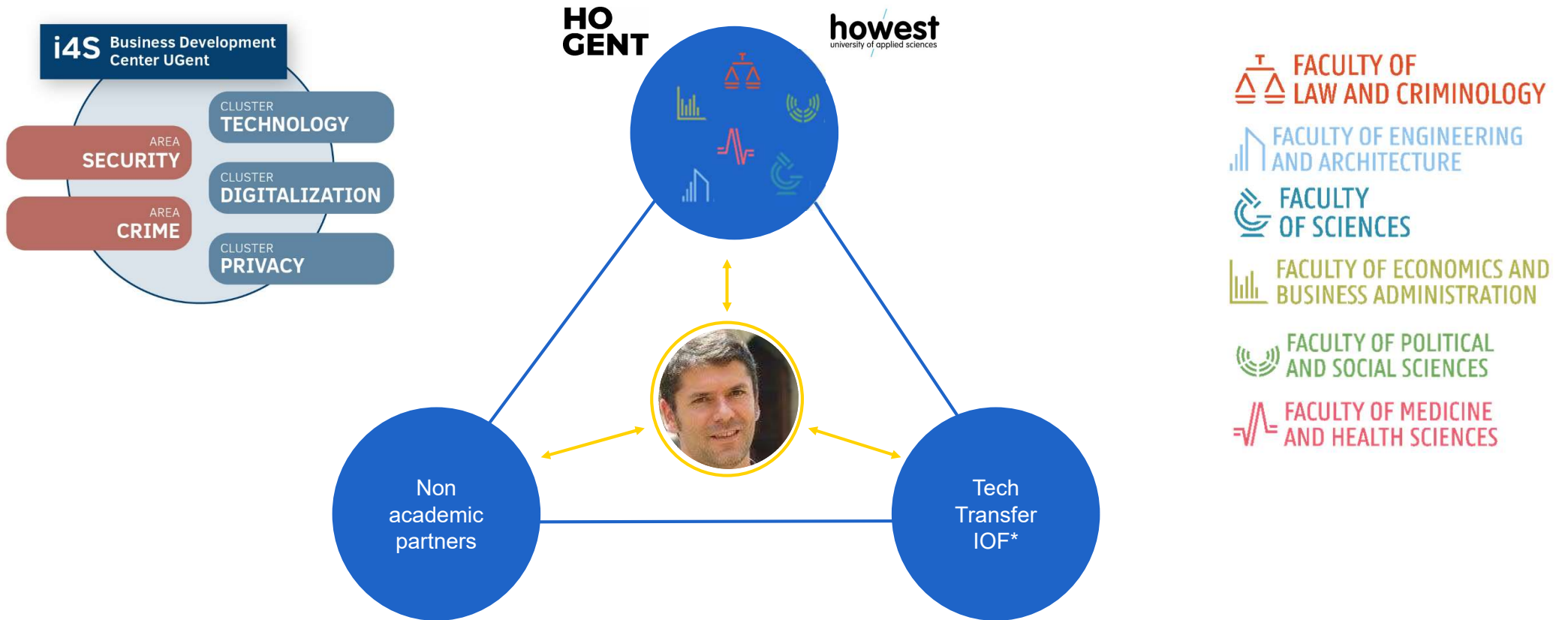
**T-Cap**  
Textiles for Comfort and Protection

## i4S - Business Development Center UGent





# BUSINESS DEVELOPMENT CENTER I4S



# POTENTIAL PUBLIC PRIVATE COLLABORATION

Creating value from knowledge by making knowledge suitable and/or available for economic and/or societal use

Knowledge based innovative security industry



Funding



IPR

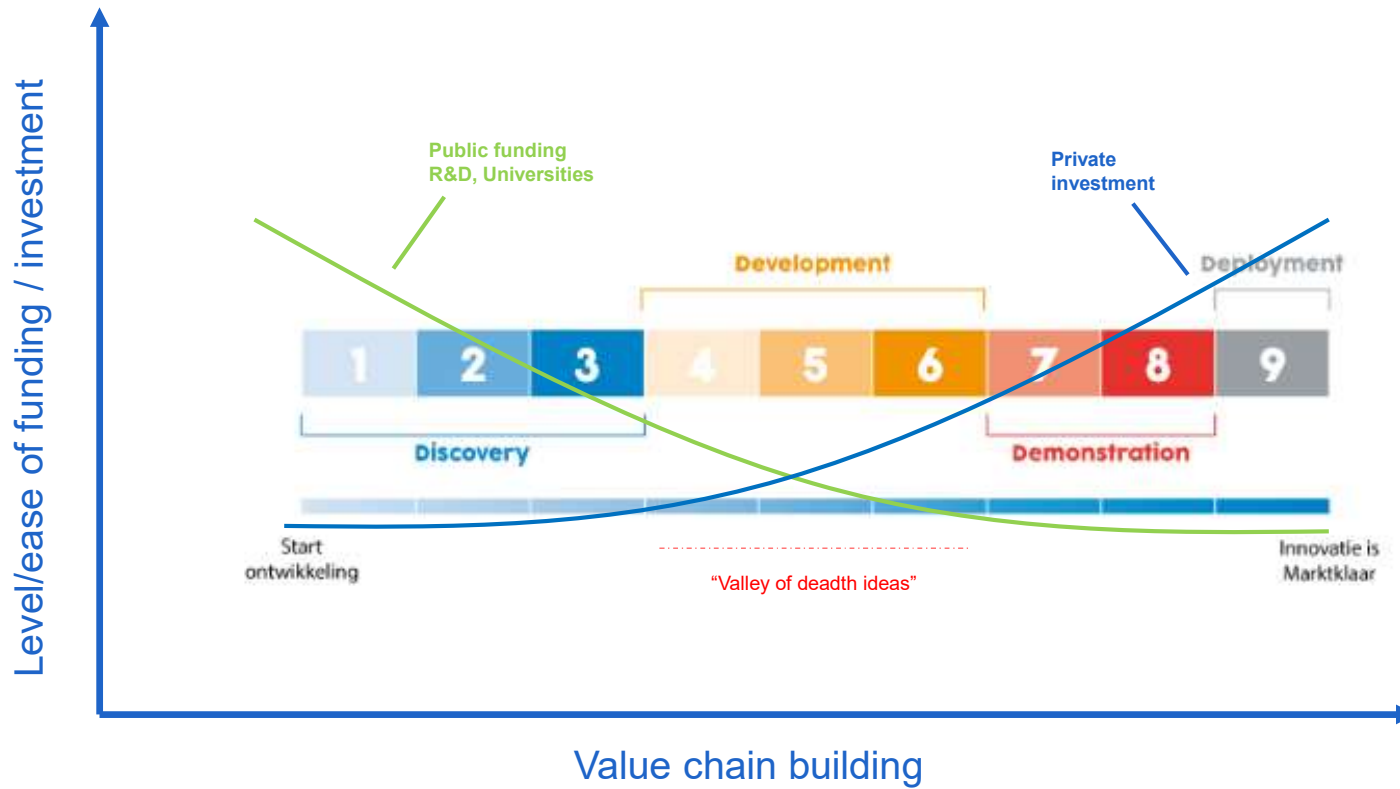


Proposal



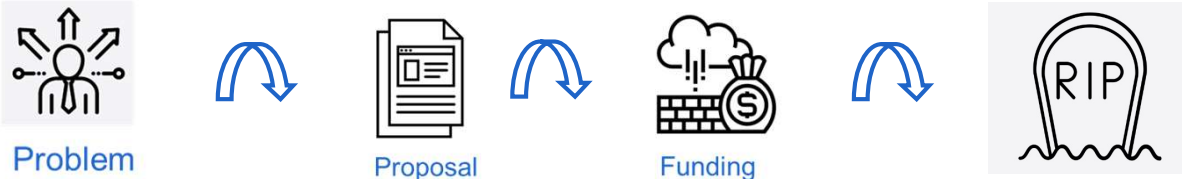
Feasibility

# VALLEY OF DEATH IDEAS





# VALLEY OF DEATH IDEAS



# OBSTACLES FOR ECONOMIC VALORISATION OF SECURITY RESEARCH

## Intellectual Property Challenges:

- Complex intellectual property (IP) issues can arise, making it difficult to establish ownership, protect innovations, and negotiate licensing agreements.
- Balancing the need for open academic research with the protection of intellectual property can be a delicate process.

## Misalignment of Incentives:

- Academic institutions and researchers may not always have aligned incentives for commercialization. Traditional academic metrics such as publications and citations may not reward efforts in entrepreneurship or technology transfer.

## Long Development Timelines:

- The time required for academic research to mature into commercially viable products or services can be lengthy. This extended timeline may not align with the short-term goals of investors or businesses.

## Lack of Industry Collaboration:

- Limited collaboration between academia and industry can hinder the translation of research findings into practical applications.
- Stronger partnerships between researchers and industry professionals can facilitate technology transfer.



# OBSTACLES FOR ECONOMIC VALORISATION OF SECURITY RESEARCH

## Market Viability and Validation:

- Determining the market viability of academic research can be challenging. Research may not always address real-world problems, or there may be a lack of market demand for the proposed solutions.

## Regulatory Hurdles:

- Negotiating complex regulatory landscapes
- Multipliers ROI funding
- National vs regional authorities

## Inadequate Funding and Resources? INSPIRE

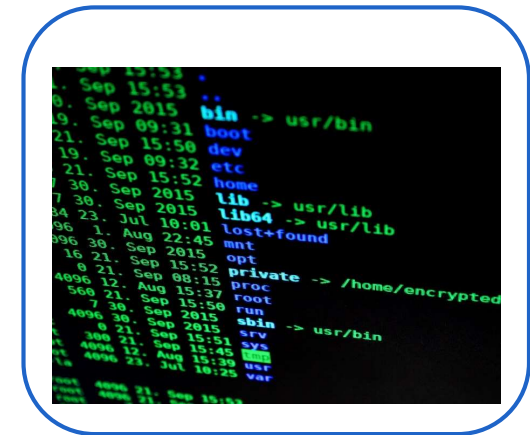


# INSPIRE



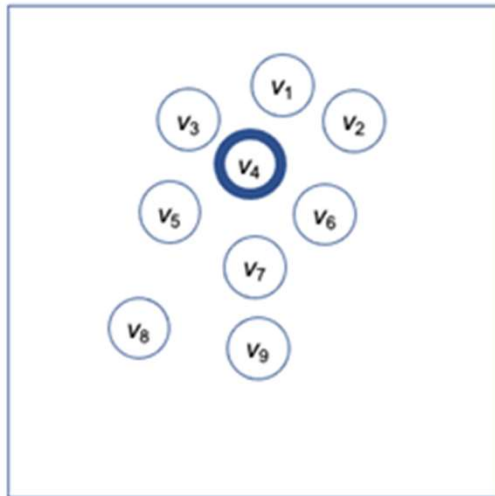
# SECURITY RESEARCH & LOCATION BASED SERVICES

Enrichment: policing security, geomatics & privacy

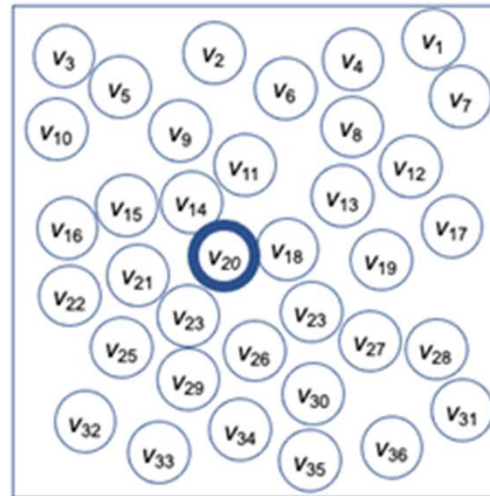


# CONCEPT PROPOSAL TIME-SPACE ANALYSES

Beeld van camera 1



Beeld van camera 2



- Perpetrator(s) multiple incidents for incidents spread across time and space based on different camera images).

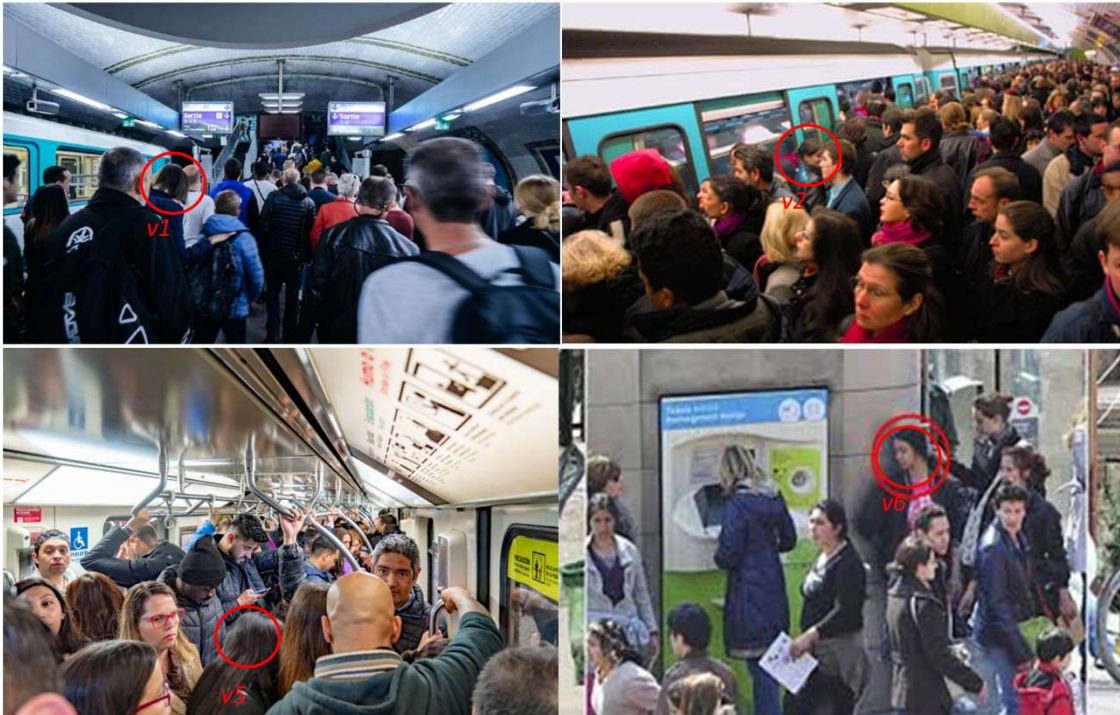
! Privacy:

- Soft biometrics: colour patterns, textures of clothing/accessories  
Facial biometrics 'Visual DNAs': formula/matrix/...

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# PROPOSAL QUICK IDENTIFICATION OF SUSPECTS THROWING OBJECTS IN STADIUMS



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# PARTICIPATORY GIS (PGIS)

**3 MINUTEN  
VOOR EEN  
VERKEERSVEILIG GENT**

Door het beantwoorden van enkele korte vragen help je ons inzicht te krijgen in de verkeersveiligheid in Gent.



<https://fietsbarometer.ugent.be/finy/>

UNIVERSITEIT GENT | VAKGROEP GEOGRAFIE | IDM

V3.1. Nico Van de Weyer, Krijgslaan 281, gebouw 58, 9000 Gent. Met op de openbare weg goedgekeurd.

**Een ongeval is snel gebeurd. Help ons drie minuten om De Sterre veiliger te maken.**

Druk op start op onderstaande kaart en vul vijf vragen in.



Meer info over dit onderzoek kan u [hier](#) lezen.





## TAKE AWAYS

- Exemple STAR-Plan Defense / DEFRA Call: towards a STAR-Plan civil security?
- Flipped techtransfer UGent
- Bringing research to life = close collaboration private partners & researchers





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[www.i4S.eu](http://www.i4S.eu)

Department Criminology, Criminal Law and Social Law  
Business Development Center i4S - Smart Solutions for Secure  
Societies

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