

CETIC Centre of Excellence in Information and Communication Technologies









Centre d'Excellence en **Technologies** de l'**Information** et de la **Communication** www.cetic.be

Agenda



- About CETIC
- Expertise
- Application domains
- Services
- R&D



About CETIC

Mission





Positioning





Accredited Research Centre



- Non-profit organisation
- Significant self-funding
 - Max 50% of direct funding by Regional authorities
 - Only for R&D projects
- A majority of Industry members in the board
- Focused on a specific industry (ICT)
 - In line with the needs of the regional actors
- Dissemination of research results



History



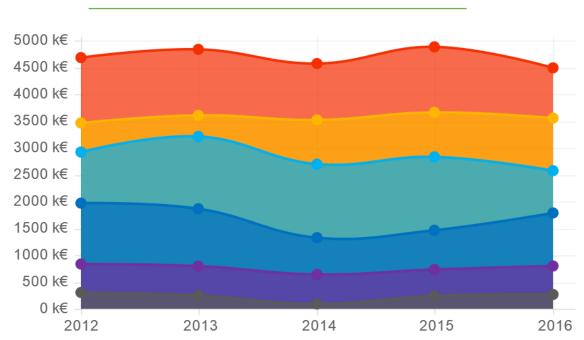
- Founded in 2001 by 3 universities
- Located on the Aeropole in Charleroi
- Support from European Regional Development Fund (ERDF)
- Accreditation: Applied Research Centre by the Walloon authorities
- International Development European Research Area



Key Figures







2016:

Revenus : 4.490 k€

21% Technology transfer

22% European framework programs

18% Wallonia

22% ERDF

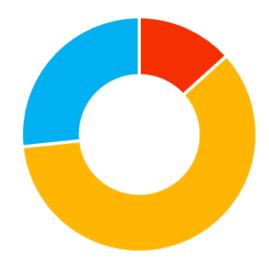
12% Fédéral

6% Other

Composition - Human Resources



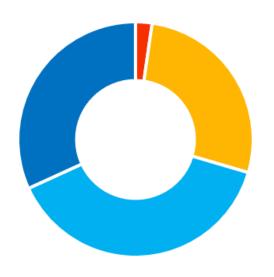
Education



44 people

6 Bachelor27 Master/ Engineers12 PhD

AGE



44 people

1: < 25 12: 25 - 34 17: 35 - 44 14: 45 - 54 0: > = 55

2015

Composition - Board of Administrators



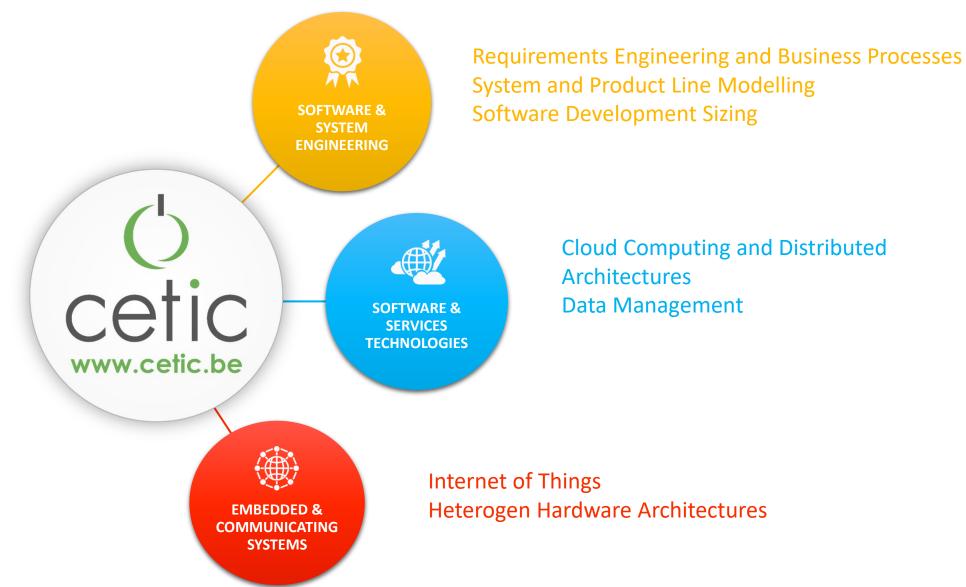




Expertise / Application domains

Expertises









Assist companies in designing high-quality products and services

in terms of reliability, security, maintainability and other important properties in the fields of application

in accordance with international standards

by providing them with methodological support The entire life cycle

Software & System Engineering

Cetic
Your Connection to ICT Research

- Software Engineering and Modeling
 - Requirements Engineering and Business Processes
 - System and Product Line Modelling
 - Software Development Sizing
- Software Design and Optimisation
 - Safety and reliability
 - Computer Security and Trust
 - Software Design and Optimisation
 - Software Design and Optimisation
- Software Development Lifecycle
 - Process Quality
 - Software Code Quality
 - Usability













Help companies exploit emerging technologies to design distributed systems

based on new IT architectures capable of adapting to the load

leveraging automation technologies for managing IT environments

applying management methods and tools of data

Future Internet



- Cloud Computing and Distributed Architectures
 - Cloud Infrastructure Management
 - Distributed systems
 - Programmable Web
- Data Management
 - Big Data Storage
 - Big Data Programming Frameworks
- Open Innovation
 - Open Source
 - Open data
 - Digital and co-creation (Cf Living Labs & Creative Hub)













Helping companies leverage emerging technologies to design embedded systems

with more built-in intelligence

by establishing connectivity that is optimized to the context of use

by leveraging the capabilities of complex hardware architectures when designing smart objects

Internet of Things

Cour Connection to ICT Research

- Internet of Things
 - Objets intelligents
 - Réseaux
- Heterogen Hardware Architectures
 - Advanced architectures
 - Hardware Design
 - Programmable Logic









Application domains

Use of software





Software products and services

Software embedded inside products

Constitution of BL SCATT STATE

Regregated

Body forecast his presented a new very to rector by pur vertical.

Choice or to to tark your section.

Americal Body Tradealt

Tradealt

Android

Android

Iphone

Digital value added services

Today's Automobile

100 million lines of software code
Proliferation of software-embedded components
A significant maintenance challenge





METHODS, LANGUAGES, GENERIC TECHNOLOGIES, SOFTWARE COMPONENTS...

ICT

OTHER SECTOR-SPECIFIC ICT INNOVATIONS







Working with CETIC

How to work with CETIC



Research project

- Collaborative
- Mid term
- Technological risk
- Subsidy (partial)
- Shared intellectual property



Service

- Custom
- Short term
- Innovation / strategic need
- Paid by the company
- Intellectual property transferred

GUIDANCE
SUPPORT TO
INNOVATION PROCESS

TECHNOLOGICAL

TECHNICAL AUDITS





Services

Key Figures



SOURCES OF REVENUE



Revenus : 4.490 k€

21% Technology transfer

22% European framework programs

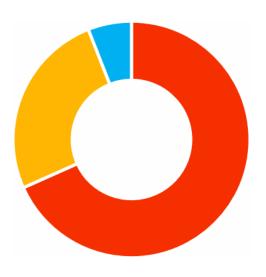
18% Wallonia

22% ERDF

12% Fédéral

6% Other

TECHNOLOGY TRANSFER



Volume of activity:

69% SME

26% GE

6% Public / Non-profit

2016

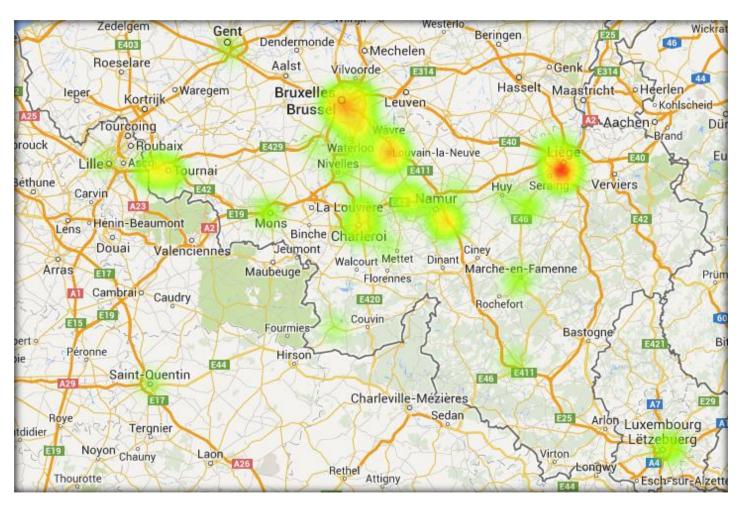
Companies working with CETIC



| MT-C | ∰ ILOOOVE.IT | GENEALEX | Qilium | VRINTELLIGENCE | SOFT 33 | @SPIN EMBED & IMPROVE | ⇒ b enerban | Gemotions | LINE |
|--------------------------------|--|-----------------|----------------|-------------------------------------|-----------------|--|--------------------|-------------------|--|
| тактік | VIGO UNIVERSAL | ©coms | SKYLANE optics | estocada. | dogstudio | IT Software & Services | meterbuy? | be.wan | REVAS |
| I-ITI WIX EXTREME SLOW MOTION | ADVANCED VISION & METHOLOGY | N&J. | Respect-IT | SMOLinfo | BIZZ | Gillam-FEi MOUNCE RECTIONS & TERCOMMUNICATIONS | intersysto | icrocyc Simply IT | Europe Economics |
| AGC | EORTC The future of cancer therapy | ALST O M | opinum | houlogy & | Atos | océ | iba | CISSOID | The state of the s |
| GoTrace | mime #3 | Market - Ip | Cover group | I .care™ | O UNIWAN | PCSOL* | | | |
| AGTITO RETURN ON RELATIONSHIPS | RVC VOTRE RÉALISATION INFORMATIQUE | 2 @bserve | Custy | ONCODNA MONITORING AND TREATMENT | | | | | |

Geography





Services aux entreprises



R&D

Key Figures – R&D Projects



PARTNERSHIPS



119 partnerships, With 103 different entities:

21 Wallonia/Business

19 Wallonia/Research

11 Wallonia/Other

25 Europe/Business

36 Europe/Research

6 Europe/Other

2016

Key Figures – R&D Projects



SOURCES OF REVENUE

SOURCE OF FUNDING



APPLICATION DOMAIN



Revenues: 4.490 k€

21% Technology transfer

22% European framework programs

18% Wallonia

22% Convergence ERDF

12% Federal

6% Other

24 R&D projects:

- 4 Structural funds in Wallonia
- 5 Competitiveness clusters
- 4 Walloon programs
- 2 International programs
- 8 European Framework Programs

1 Other

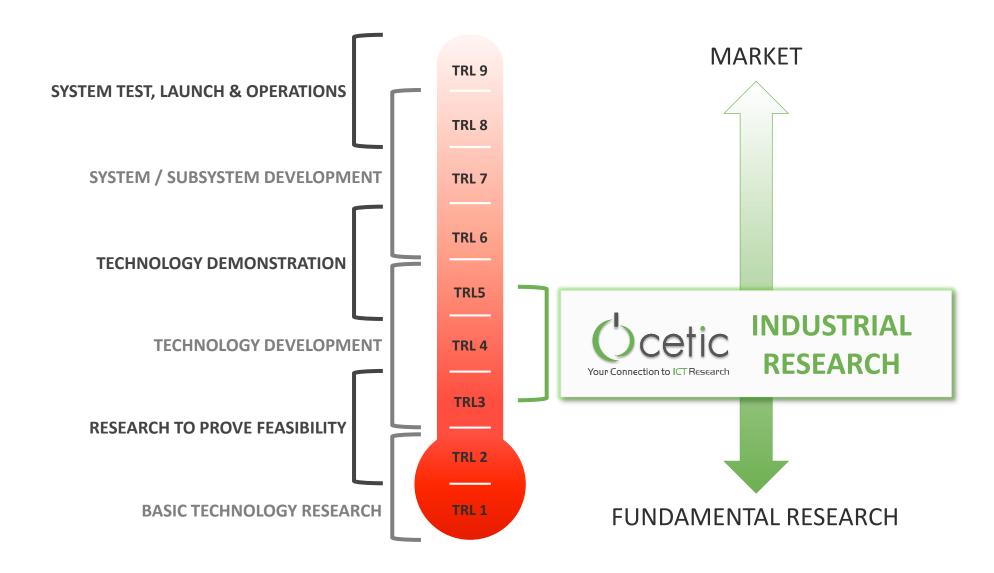
24 R&D projects:

- 10 Software industry
- 3 Transport & logistics
- 3 Health
- 2 Manufacturing
- 3 Energy
- 3 Digital and co-creation

2016

Technology Readiness Level





Involvement in European programmes





H2020

BEACON*

TANGO



FP7

PaaSage

POLCA

Evidence

Redirnet

Ascetic

Bonfire

RESERVOIR

Deploy-IP

PONTE *

S-Cube









Other EU projects

Numericanal (Interreg)

NWERide (Interreg)

12MSTEEL (RFCS)

ComodIT (Era-Net)

SPES (Central Europe)

AMACS (Era-Net)

Dapcare (Era-Net)

Extra (Cornet)

C2A (Interreg)



FP6

Oldes

BEinGRID

CoreGRID

EverGrow

QualOSS *

GridTrust *

AssessGrid

HPC4U

* Coordinator

Conclusion



CONTEXT

- Created in 2001
- Accredited Research Centre
- ~45 researcher in 3 departments

MISSION

- Applied Research at EU and Regional level
- Technology Transfert Agent to (inter-) Regional Industry



SERVING INDUSTRY

- SotA/Techno Evaluation and Coaching (HW/SW)
- Trusted Third Party
- Connect Industry to latest research results

INTERNATIONAL INVOLVEMENT

- EU: Coordinator and Participants
- EraNets and Interreg
- Regional Research project

REGIONAL FUNDING FOR CONTRACT RESEARCH

- Technological Checks
- Feasibility Studies
- R&D 1-1 Projects



Aéropole Avenue Jean Mermoz 28 6041 Charleroi - Belgique



twitter.com/@CETIC twitter.com/@CETIC_be





linkedin.com/company/cetic



info@cetic.be



+32 71 159 362

Going further...

