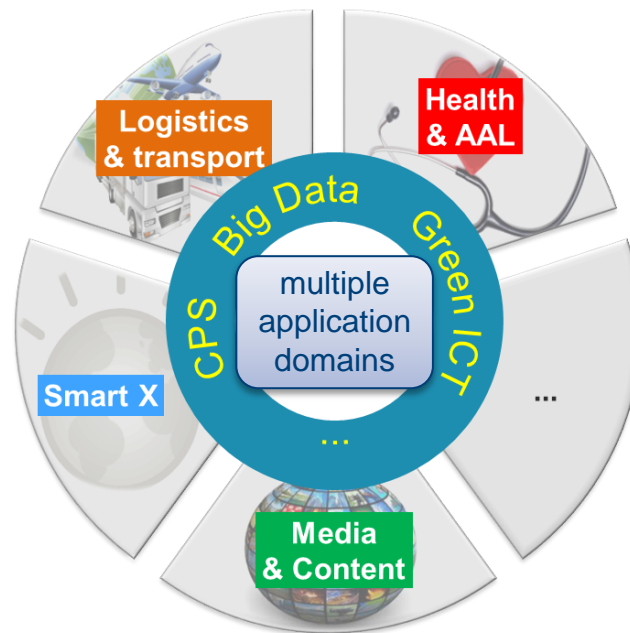
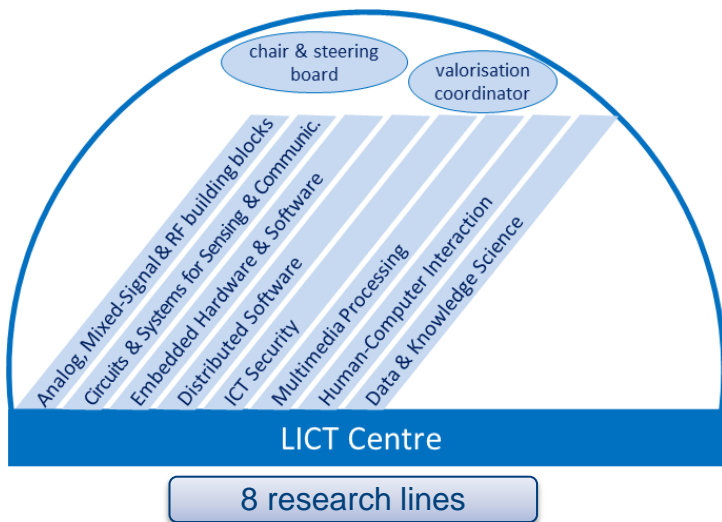


Leuven Centre on ICT (LICT)

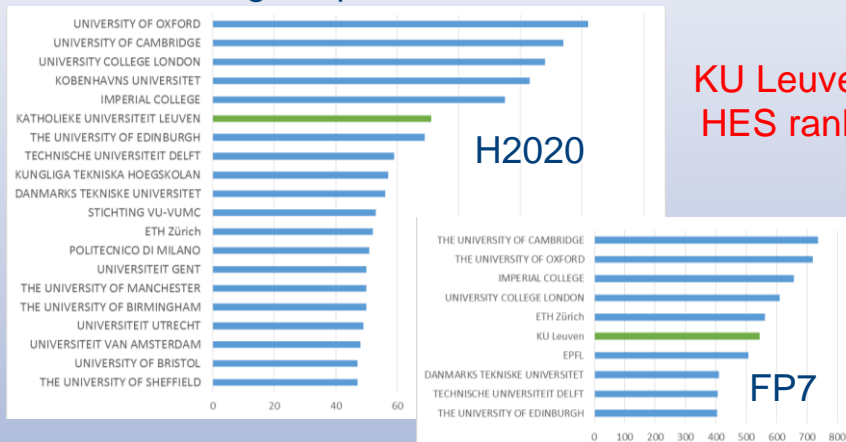
Cross-departmental multi-disciplinary research centre on ICT@KU Leuven
hardware & software, as well as **user & legal issues**

14 research groups
 ~ 65 professors, > 450 researchers



Contact:
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 LICtcoordinator@kuleuven.be
<http://www.kuleuven.be/LICT>

Large experience in FP7 & H2020



KU Leuven in HES ranking

Research topics

Embedded Hardware & Software

- higher performance @ lower energy consumption & implementation cost
- non-functional constraints: composability, predictability, flexibility, scalability, reliability
- incorporation of privacy & authentication
- processor architectures & novel computing paradigms
- networked, distributed & cooperative embedded systems

in a system-wide approach

Distributed Software

- adaptive & self-adaptive software
- cloud computing: Paas, BPaaS, SaaS, data storage.
- context aware & mobile computing
- Future Internet services & service oriented architectures

ICT Security

- cryptographic algorithms & protocols
- secure SW & SW development
- efficient & secure (tamper & side-channel resistant)
- privacy
- data security and privacy law - cybercrime law

Circuits & Systems for Sensing & Communication

- wideband & reconfigurable radio architectures at RF, mm-wave, and THz
- DSP for wireless, wireline & optical communications, and sensing
- self-calibration, self-test, & self-organization of systems
- RF, mm-wave & THz communication, sensing & monitoring systems
- cross-layer design & modelling of systems for sensor networks, mobile broadband, wireline & optical communication

chair & steering board

valorisation coordinator

Multimedia Processing

- computer vision
- natural language processing
- speech, speaker & dialect recognition
- information retrieval
- information/media law

Human-Computer Interaction

- multimodal human-computer interaction (speech, vision, text, tangible and embodied interaction, ...)
- information visualization & visual analytics
- persuasive system design & gamification strategies
- human centered design & user experience evaluation

Analog, Mixed-Signal & RF building blocks

- novel circuit architectures & design techniques
- device and circuit modelling, CAD methodologies & tools
- advanced circuit testing
- MEMS and reconfigurable interface circuits
- antennas & propagation

Data & Knowledge Science

- machine learning, data mining & knowledge discovery
- data and visual analytics
- declarative languages & knowledge based systems
- mathematical modelling & optimization
- constraint satisfaction & optimization

most relevant expertise of LICT for “ICT-01: Smart Cyber-Physical Systems”

- embedded hardware:
 - high performant, low-energy and low-cost
- embedded software:
 - non-functional constraints: composability, predictability, flexibility, scalability, reliability
 - networked, distributed & cooperative embedded systems
 - middleware for embedded systems
 - model driven software development
 - adaptive and self-adaptive software
 - aspect-oriented software development to increase modularity and adaptability
 - context aware & mobile computing
- embedded (low-power) security & privacy
- embedded intelligence/machine learning

