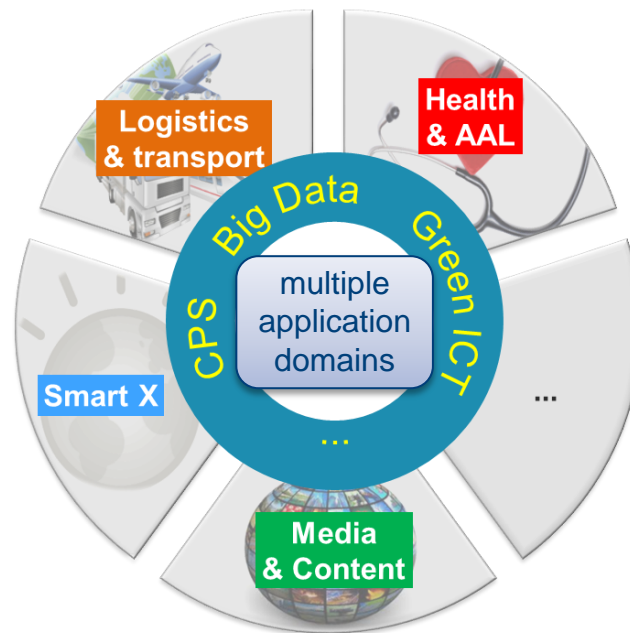
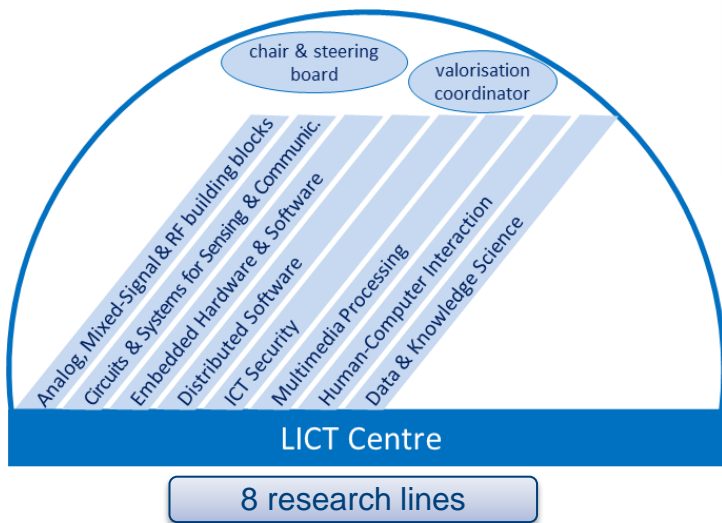


Leuven Centre on ICT (LICT)

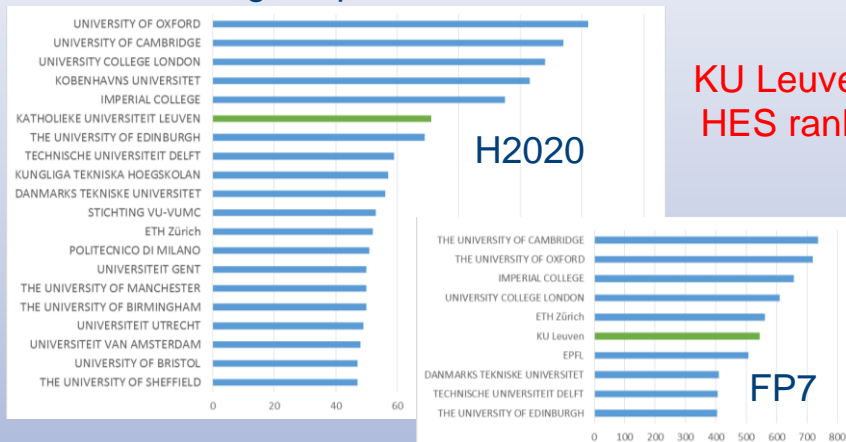
Cross-departmental multi-disciplinary research centre on ICT@KU Leuven
hardware & software, as well as **user & legal issues**

14 research groups
 ~ 65 professors, > 450 researchers



Contact:
 Greet Bilsen, valorisation coordinator,
 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

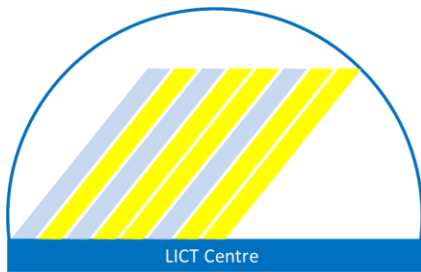
- novel circuit architectures & design techniques
- device and circuit modelling, CAD methodologies & tools
- advanced circuit testing
- MEMS and reconfigurable interface circuits
- antennas & propagation

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 “FoF-11: Digital Automation”



- sensing systems with on-chip data fusion & intelligence
- (low-power) M2M communications
- distributed (service) architectures & cloud computing
- ICT security (incl. security-by-design)
- advanced human-machine interaction for ‘steering’ & ‘feedback/visualisation’
- data & knowledge science
 - artificial intelligence, machine learning & data analytics
 - self-learning systems
 - embedded intelligence
 - situational awareness