

IOT

INTERNET OF THINGS

LIST

uni.lu
UNIVERSITÉ DU
LUXEMBOURG

- A yearly one-day event co-organized by [University of Luxembourg](#) and [Luxembourg Institute of Science and Technology \(LIST\)](#)
- Sponsored by the [Club de la Sécurité de l'Information Luxembourg \(CLUSIL\)](#), [Computer Science and Communications Research Unit \(CSC\)](#) and [Luxembourg Institute of Science and Technology \(LIST\)](#)
- Conference day that aims sharing each year new knowledge on a hot-topic related to security and privacy
 - Primarily targets the [current and former students](#) of the professional MSSI Master
 - However ISED also provides an ideal forum where [academics and practitioners](#) can learn about the different facets of a key-topic, exchange, discuss ideas, and compare experiences

AGENDA (1/2)

Time	Title & Speaker
9:00	Welcome of the participants
9:15	Opening <i>Paul Heuschling, Professor & FSTC Dean, University of Luxembourg</i> <i>Jun Pang, Research Scientist, University of Luxembourg</i> <i>Nicolas Mayer, Course Director and Senior R&T Associate at IT for Innovative Services (ITIS), LIST</i>
9:30	Towards open IoT ecosystems: Ambition, Challenges & Opportunities <i>Sylvain Kubler, Associate Professor, Research Center for Automatic Control of Nancy</i>
10:15	Data protection challenges in the IOT <i>Alain Herrmann, IT & New Technologies, CNPD</i>
10:45	Coffee break

AGENDA (2/2)

Time	Title & Speaker
11:15	Privacy in the Smart Grid <i>Alfredo Rial Duran, Research Associate, SnT, University of Luxembourg</i>
11:45	Standardizing the un-standardizable, or how to agree on the IoT <i>Carlo Harpes, Managing Director, itrust consulting</i>
12:15	Lunch
13:15	IoT & Data Security – How to navigate in a safe way <i>Christophe Bianco, Founder & Managing Partner, Excellium services</i>
14:00	IoT & Risk Management <i>Edgar Biro, Member of CLUSIL</i>
14:30	Round table <i>Moderator: Pascal Steichen, CEO, SECURITYMADEIN.LU</i> <i>Participants: Christophe Bianco, Olga Gadyatskaya, Carlo Harpes, Sylvain Kubler</i>
15:30	Cocktail



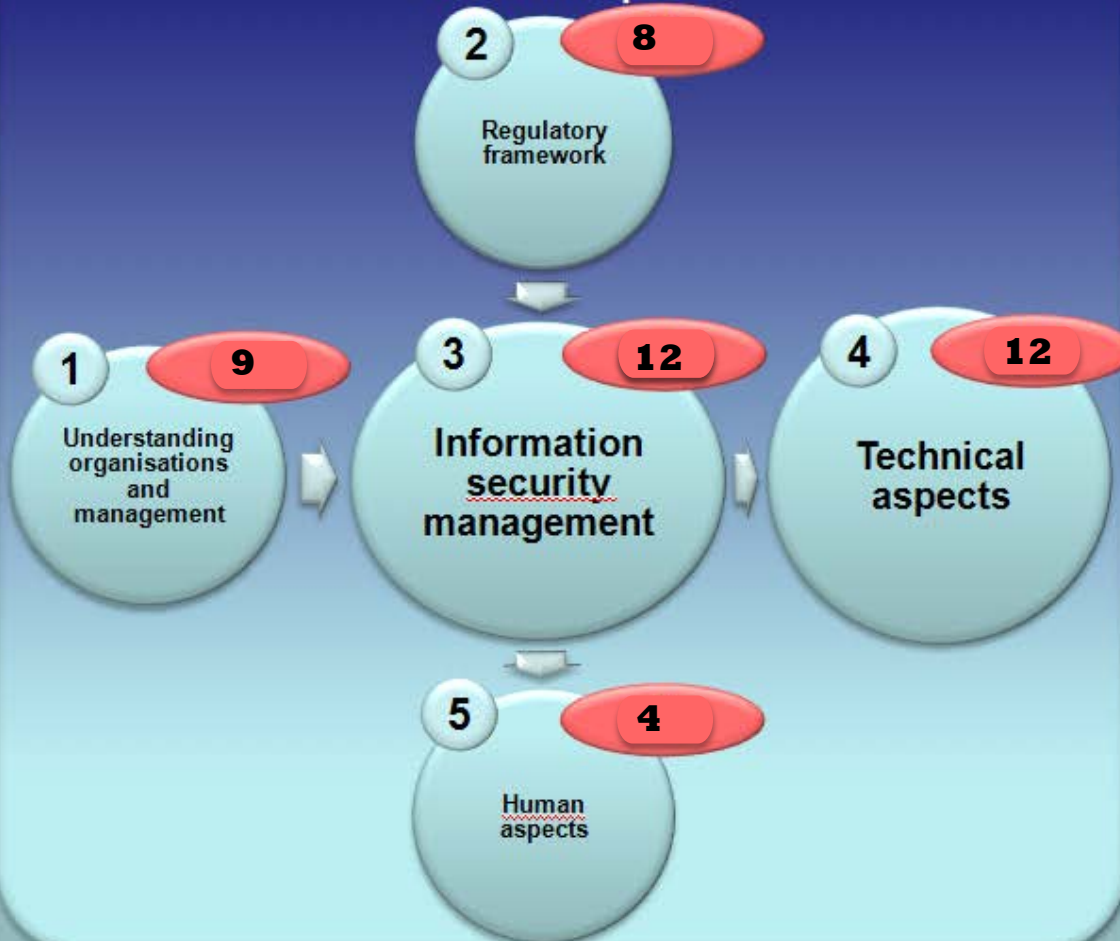
Train experienced professionals

to give the skills of

Chief Information Security Officer (CISO)

Supporting the information security responsibility

Academic part



Positioning the Master

- Information security responsibility
- Link Master with the CISO responsibilities
- Stay close to the market needs

6 Professional part

Working in information security management

- The job, by an experienced CISO
- Explain job and stakes

1

The professional project

- Achieving one's use case inside the enterprise
- Pushing the academic added value
- Pushing the student added value
- Value through security

14

INTERDISCIPLINARY TRAINING

Legislation
and
regulation

Security
standards

Security
Audit

Methodologies
for information
security

Organisation

Technologies
for securing
information and
systems

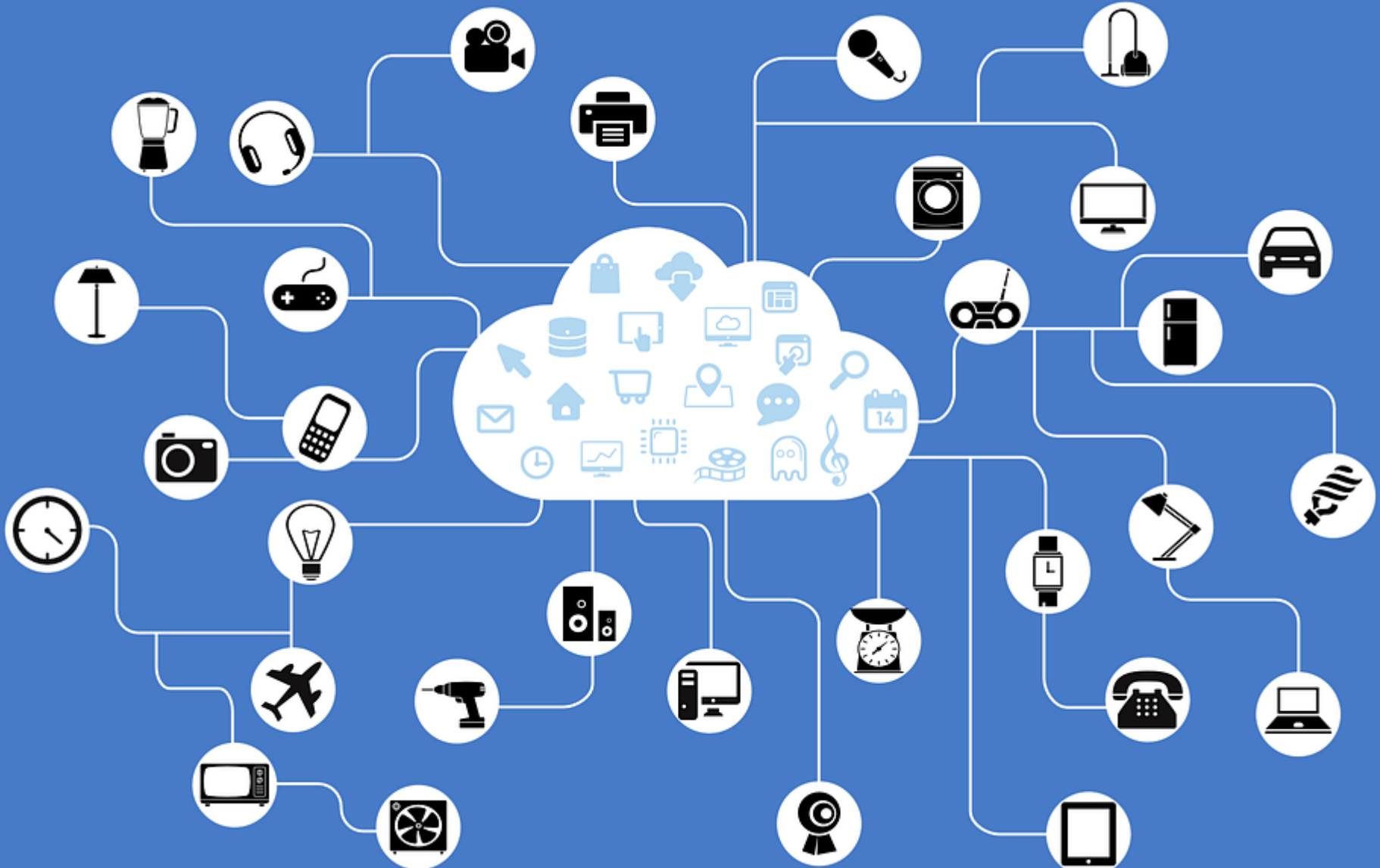
Enterprise
management

Risk
Management

Security
management

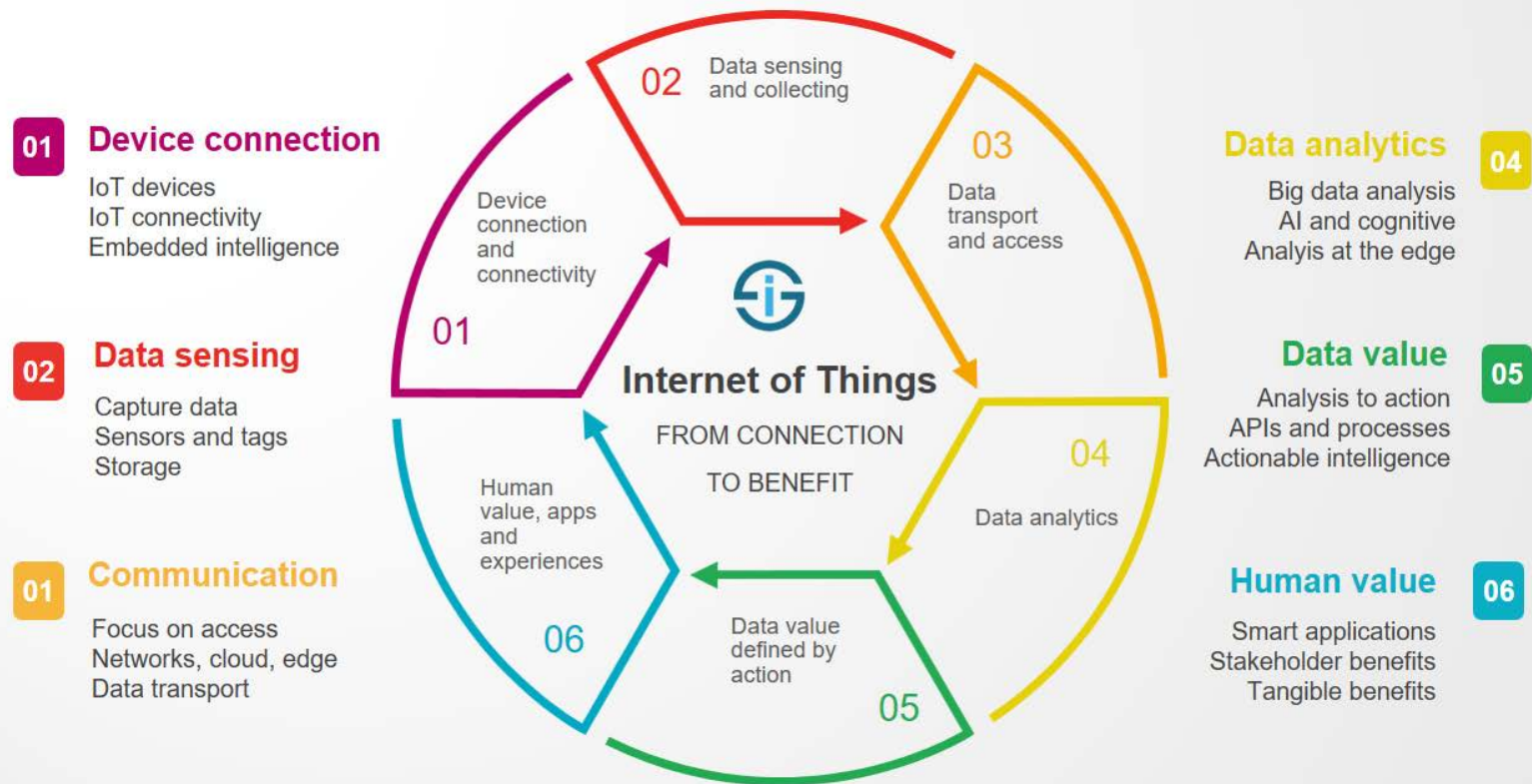
Project
management

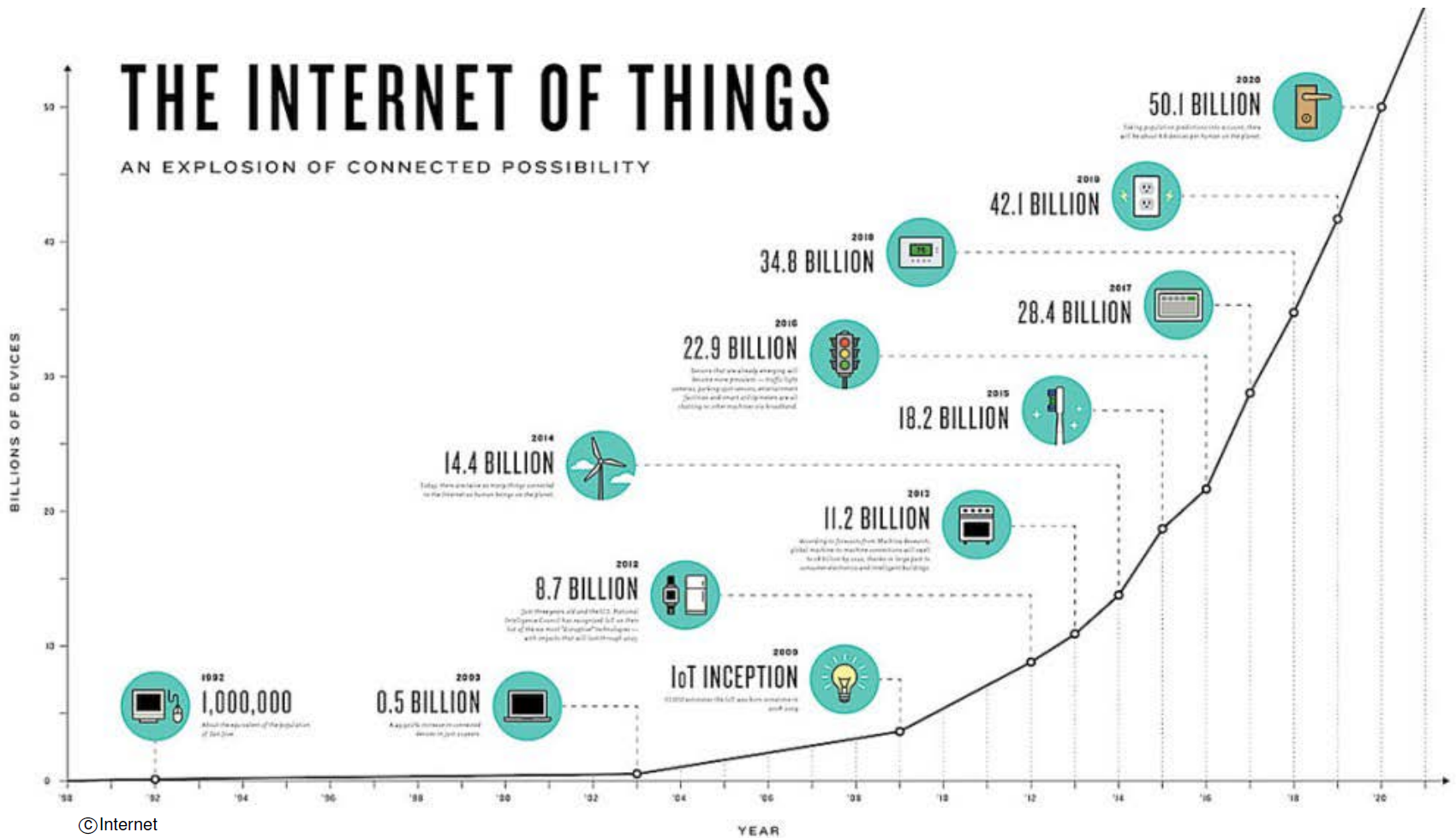
IoT: DEFINITION (1/2)



The Internet of Things

From connecting devices to human value





©Internet

IoT SECURITY (1/2)



 360EquityInvestments and 149 others follow



Financial Times  @FT · 2h

Uber faces a delay with its self-driving car programme after a **crash** in Arizona
on.ft.com/2nmG2kw



IoT PRIVACY (1/2)



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IoT PRIVACY (2/2)



FACEBOOK

Facebook Is Trying to Exclude 1.5 Billion Users From Stricter Privacy Regulations

Tom McKay
Yesterday 11:55pm • Filed to: IN SPIRIT

5.2K 10



TOP 10 IoT SECURITY CHALLENGES

- 1 Secure constrained devices
- 2 Authorise and authenticate devices
- 3 Manage device updates
- 4 Secure communication
- 5 Ensure data privacy and integrity
- 6 Secure web, mobile, and cloud applications
- 7 Ensure high availability
- 8 Detect vulnerabilities and incidents
- 9 Manage vulnerabilities
- 10 Predict and preempt security issues