



ILNAS BREAKFAST

“The Cybersecurity Act and the European Cybersecurity Certification Scheme for Cloud Services”

Welcome Words

06th October 2022

Jean-Philippe HUMBERT - Deputy Director, ILNAS



- ILNAS

- Public administration under the authority of the Minister of the Economy
- Creation: Law of May 20, 2008
- Legislation in force: amended Law of July 4, 2014
- Total staff: 57 (September 2022)
- ISO 9001:2015 certification (Budget and administration department, OLN, Digital Trust department, Market surveillance department, BLM, OEC)



II - Presentation of the National Standards Body (*Organisme luxembourgeois de normalisation – OLN*)

Main missions

- Coordinate and supervise the creation of national standards
- Make standards available to the market
 - ILNAS eShop
 - ILNAS reading stations
- Manage the participation of national stakeholders in the international standardization organizations (ISO, IEC, CEN and CENELEC)
- Represent Luxembourg in the standardization related organizations
- Develop a normative culture in Luxembourg
 - Promotion
 - Education
 - Research



Technical standardization

"Inclusive tool for performance and excellence to serve the economy"



→ Strategy signed by the Minister of the Economy of Luxembourg

PERFORMANCE



- ☐ Pillar 1 – Use of relevant technical standards
- ☐ Pillar 2 – Involvement in the standardization process

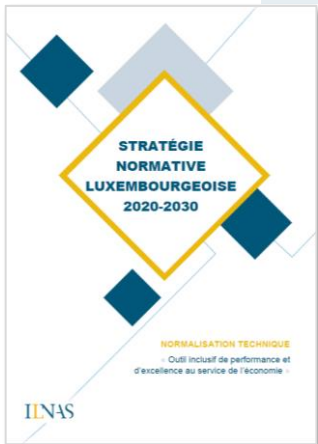
EXCELLENCE



- ☐ Pillar 3 – Active participation of the NSB in the European and international standardization organizations
- ☐ Pillar 4 – Development of research and education about standardization

II - Presentation of the National Standards Body (*Organisme luxembourgeois de normalisation – OLN*)

Luxembourg standardization strategy 2020-2030



Technical standardization
"Inclusive tool for performance and excellence to serve the economy"

3 growth sectors identified



CONSTRUCTION



**INFORMATION AND
COMMUNICATION
TECHNOLOGIES**



AEROSPACE



**Identification of
trans-sectoral
standardization
interactions**

- Computer Aided Design (CAD)
- Building Information Modelling (BIM)
- 3D printing
- ...

- Space data processing
- Space traffic management
- Smart Mobility
- ...

“Foster and strengthen the national ICT sector involvement in standardization work”



1

Promoting the ICT technical standardization to the market

2

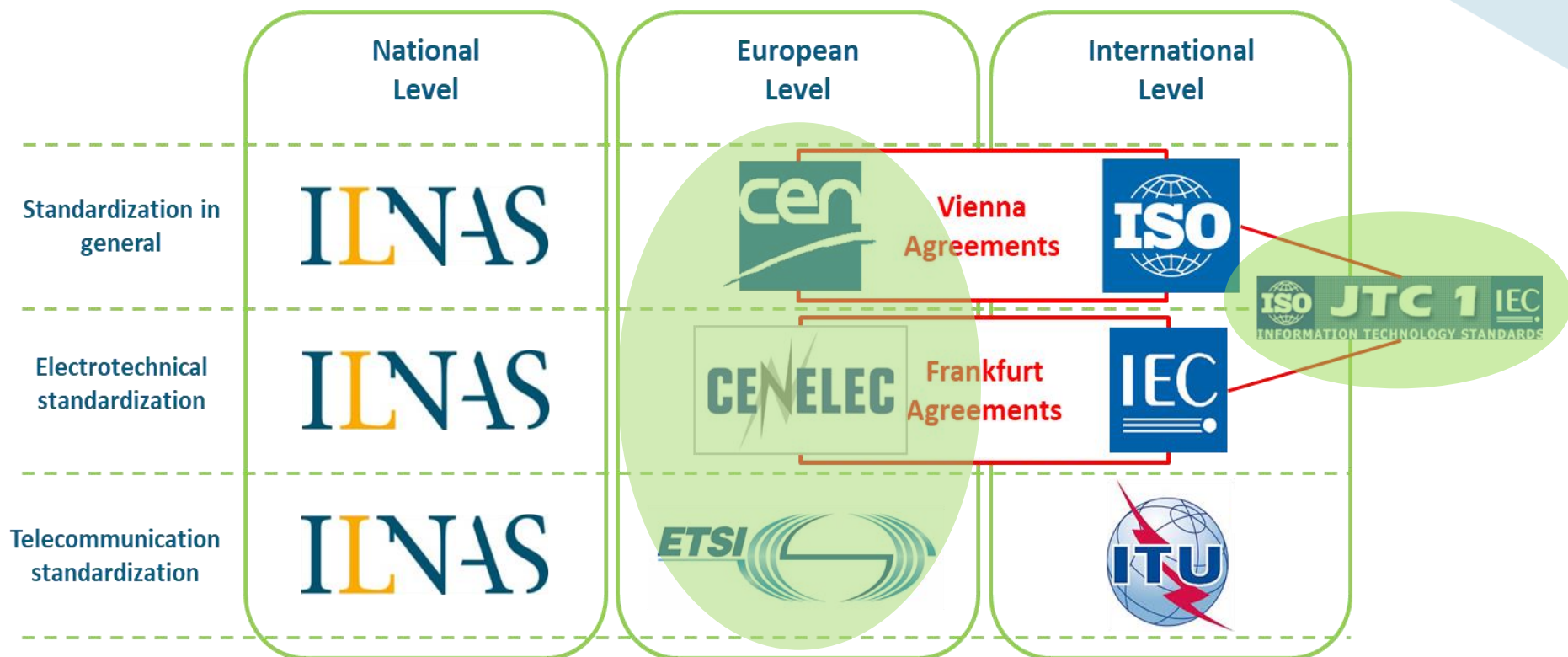
Reinforcing the valorization and the involvement regarding ICT technical standardization

3

Supporting and strengthening the EaS and the related research activities



Policies for the Construction and Aerospace sectors are based on similar lead projects

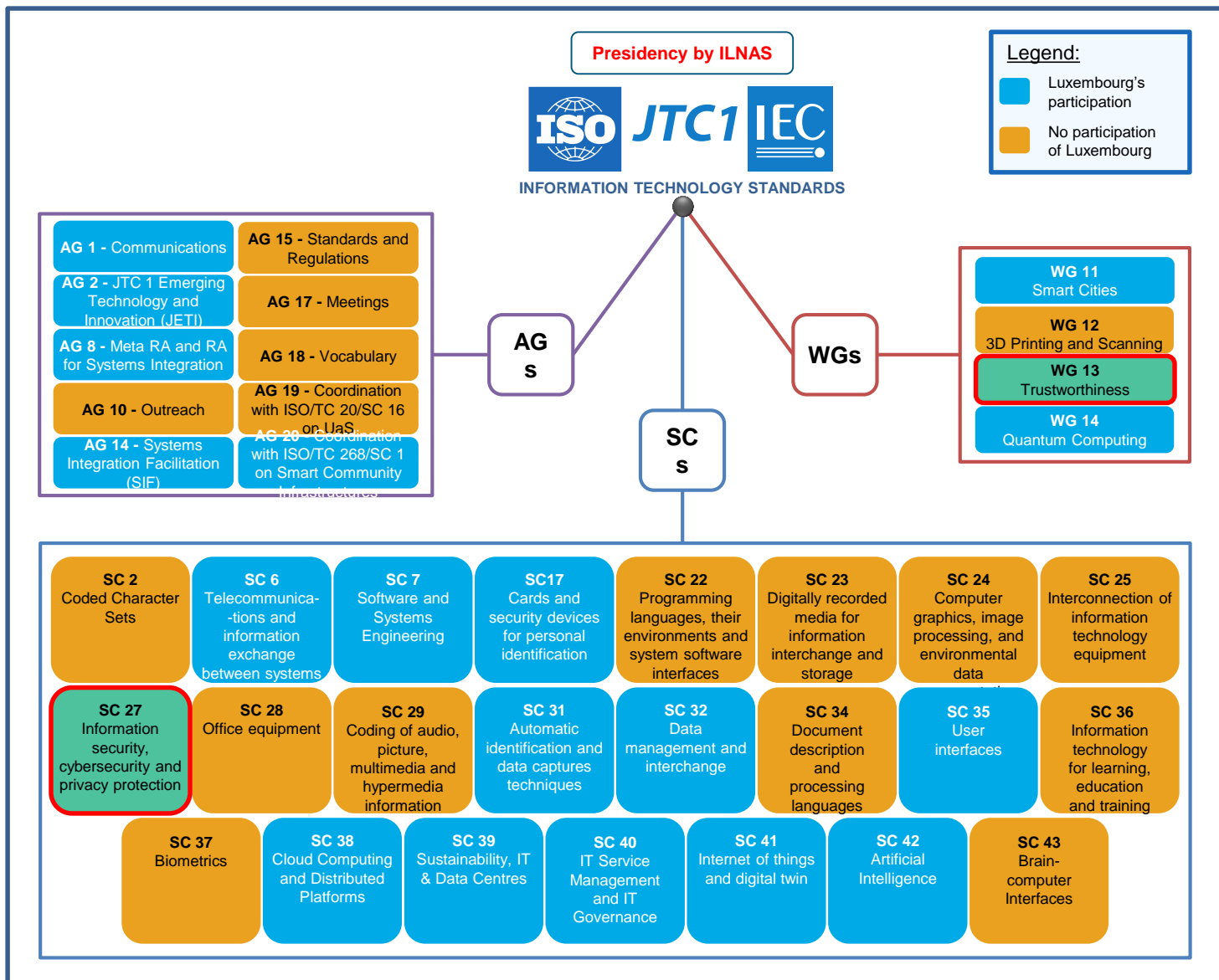


- Cybersecurity related technical committees/working groups

- ISO/IEC JTC 1/SC 27 - Information security, cybersecurity and privacy protection
- ISO/IEC JTC 1/WG 13 - Trustworthiness
- CEN/CLC JTC 13 - Cybersecurity and Data Protection
- ETSI/TC CYBER - Cybersecurity

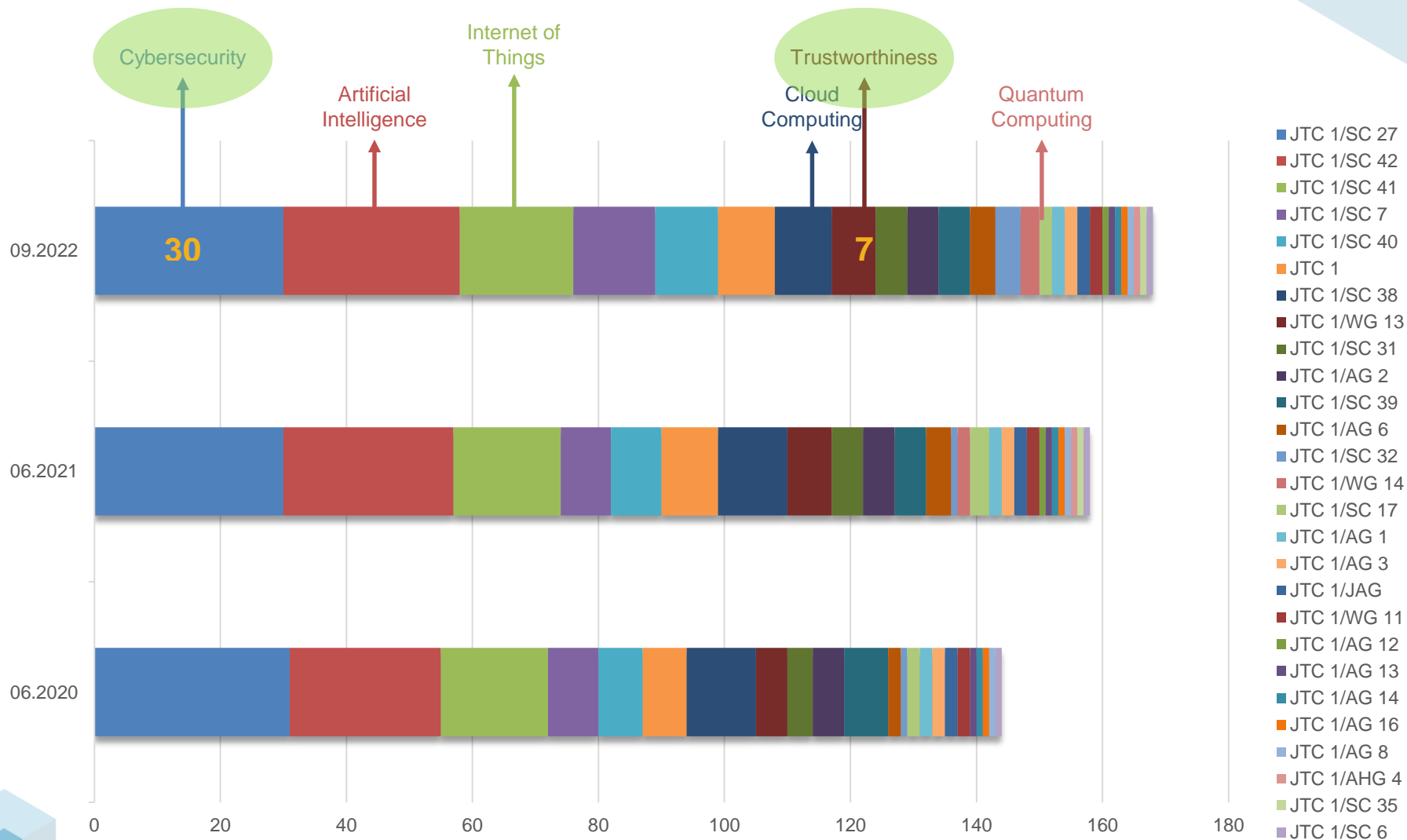
III - Participation of Luxembourg in Cybersecurity technical standardization

ISO/IEC JTC 1



III - Participation of Luxembourg in Cybersecurity technical standardization

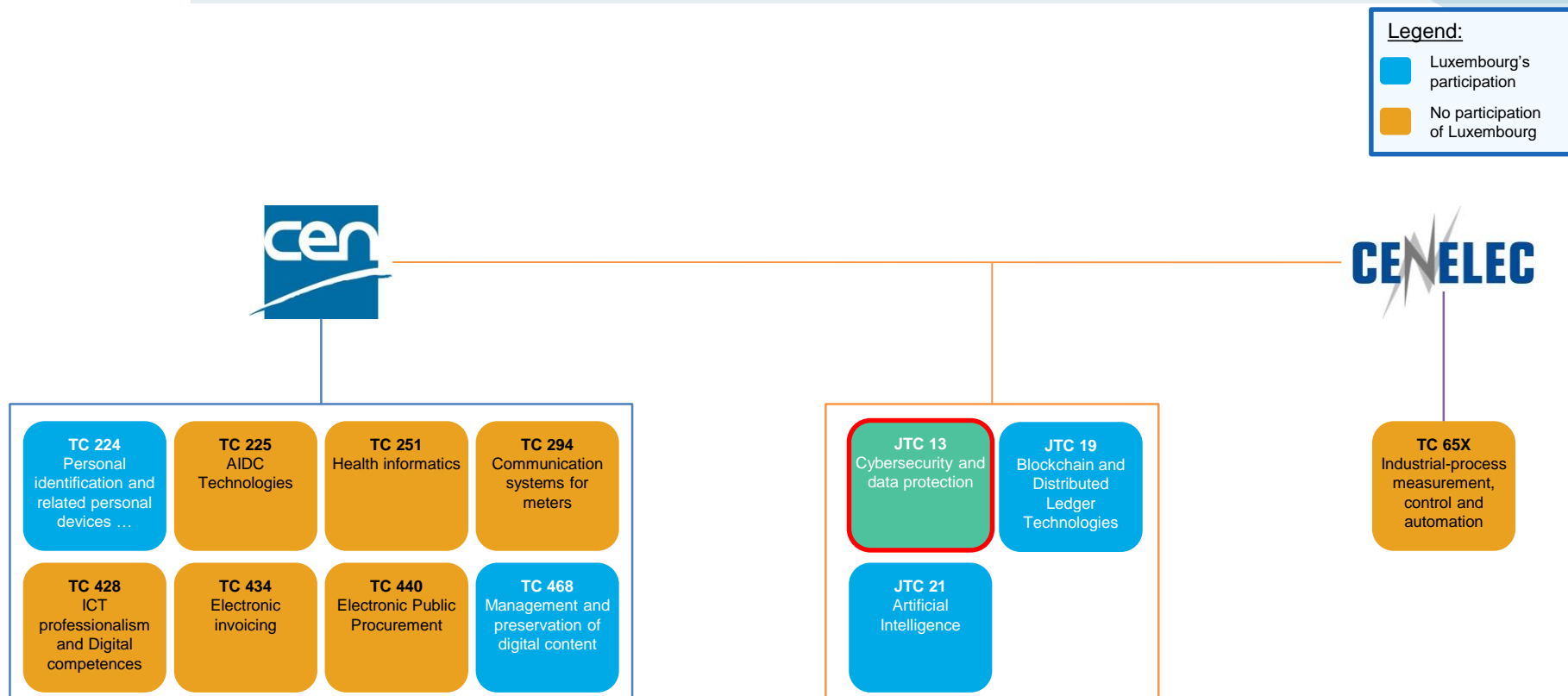
ISO/IEC JTC 1



→ 75 national delegates registered in ISO/IEC JTC 1 for 360 registrations (SCs, WGs)

III - Participation of Luxembourg in Cybersecurity technical standardization

CEN/CENELEC technical committees in the ICT sector

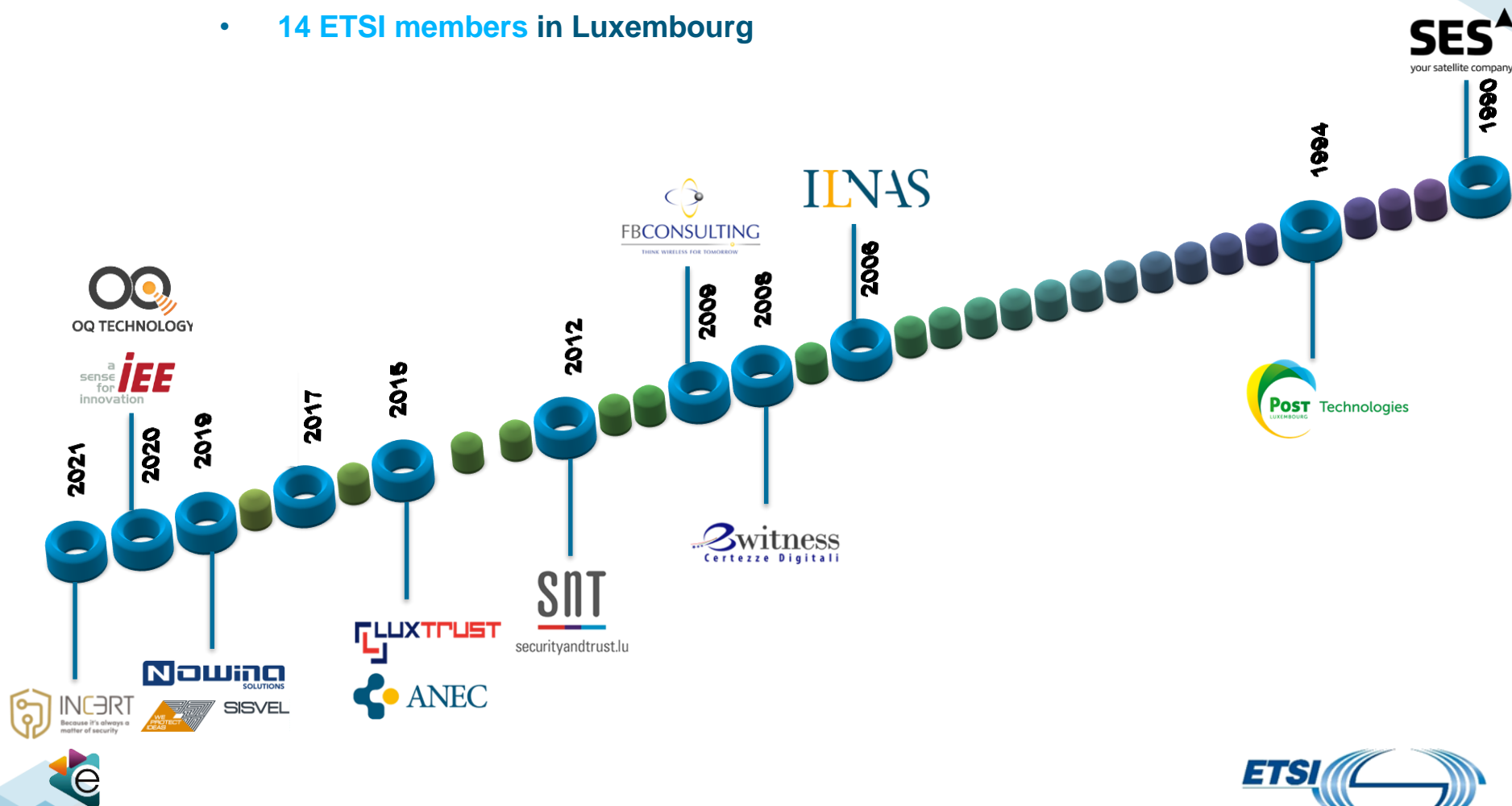


→ 30 national delegates registered in CEN/CLC JTC 13

III - Participation of Luxembourg in Cybersecurity technical standardization

ETSI members in Luxembourg

- 14 ETSI members in Luxembourg



→ 3 national members participating in ETSI/TC CYBER

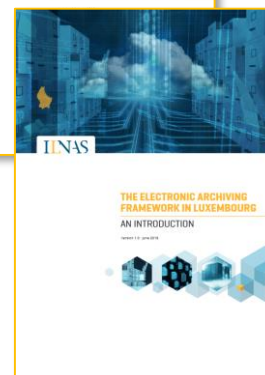
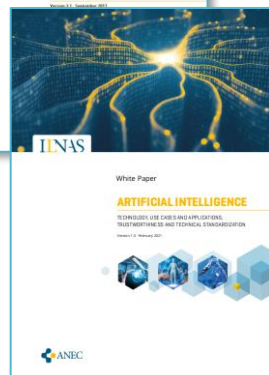
2010-2022 - ILNAS Research activities

Technology
reviewEconomic
overview

Challenges

Technical
Standardization

...

8 White Papers
published2 Guides on
Digital Trust
publishedDIGITAL
TRUST
ARTIFICIAL
INTELLIGENCE
BLOCKCHAININTERNET OF
THINGS

BIG DATA

CLOUD
COMPUTING4 National
Technical
Standardization
Reports
published

The University of Luxembourg and ILNAS are strengthening their collaboration in the field of Smart ICT and standardization. A ceremony was held on May 17, 2017 at the Ministry of Economy to formally conclude the partnership.



In the rear row, from left to right: Jean-Philippe Humbert, Pascal Bouvry, Paul Heuschling, Yves Elsen, Björn Ottersten;
In the front row, from left to right: Ludwig Neyses, Francine Closener, Jean-Marie Reiff

The Smart-ICT Team



Nader Samir
- PhD Candidate
- Since 1.10.2017
- Industrial experience in UAVs



Prof. Pascal Bouvry
- Principal Investigator
- Project coordination
- PhD supervision



Saharnaz Dilmaghani
- PhD Candidate
- Since 01.03.2018
- Standardization experience



Chao Liu
- PhD Candidate
- Since 15.10.2017
- Cloud Computing



Matthias Brust
- Postdoc
- Project support



SNT

Journal Papers

4

Conference papers

21

Short Papers

4

White Paper

1

Technical Report

1

Awards

2

News Coverage

5

Talks to wider audience

15



10/2018 - White Paper “DATA PROTECTION AND PRIVACY IN SMART ICT - SCIENTIFIC RESEARCH AND TECHNICAL STANDARDIZATION”



IS Day 2019 - Information Security Awards
Security Project of the Year: SNT – ILNAS



10/2019 - Technical Reports “SMART ICT: GAP ANALYSIS BETWEEN SCIENTIFIC RESEARCH AND TECHNICAL STANDARDIZATION”



Ms. Saharnaz Dilmaghani - Winner of the ‘Young Researcher’ category of the CEN and CENELEC Standards+Innovation Awards (October 2021)





Objective: The cybersecurity Certification based On Risk evALuation and treatment (CORAL) aims to elaborate a toolkit and methodology to speed up the certification process in line with the EU Cybersecurity Act in what concerns the self-certification and the basic level of assurance, as well as to enhance the exchange of good practices, collaboration and information sharing related to performing evaluations in line with this act.

Master MTECH – ILNAS in collaboration with the University of Luxembourg and the Chamber of Employees

STANDARDISATION	ECTS
Smart Secure ICT and Innovation	1
Technical Standardisation	3
TOTAL	4

SMART ICT	ECTS
Smart ICT Technologies I	5
Smart ICT Technologies II	5
TOTAL	10

DIGITAL TRUST FOR SMART ICT	ECTS
Security for Smart ICT I	2
Security for Smart ICT II	3
Trust Architectures for Smart ICT	4
TOTAL	9

TECHNOPRENEURSHIP	ECTS
Management of Business and Technical Innovation	3
Digital Intelligence	2
Legal Aspects	2
TOTAL	7

MASTER THESIS	ECTS
Master Thesis	30
TOTAL	30

**60
ECTS**

**327
hours of
teaching**

**Internshi
p (750
hours)**

**Started in
February 2021**

**2 years
lifelong-
learning**

**20
students
(max.)**

**11
Modules**

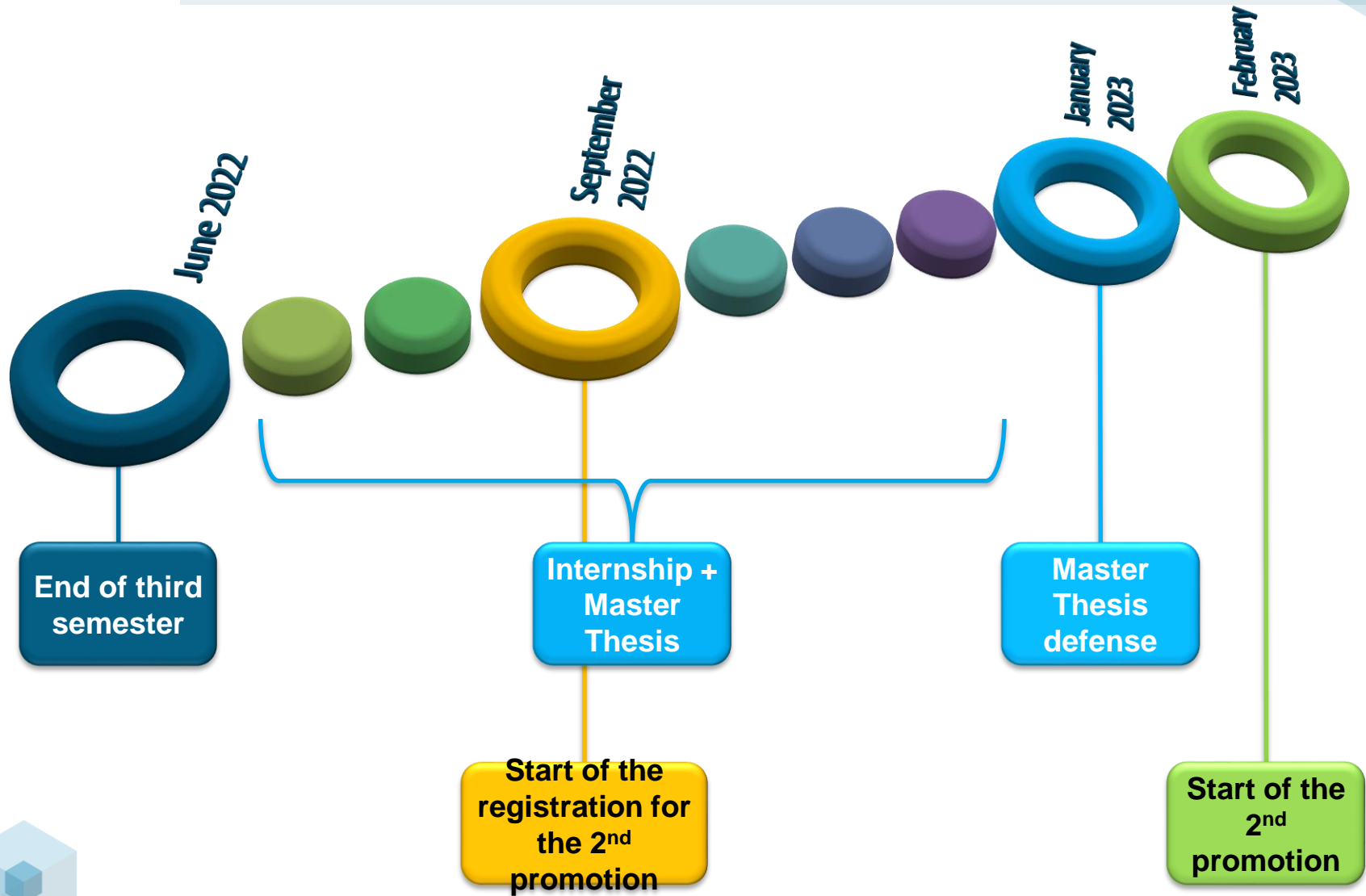
With the support of:



THE GOVERNMENT
OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of the Economy



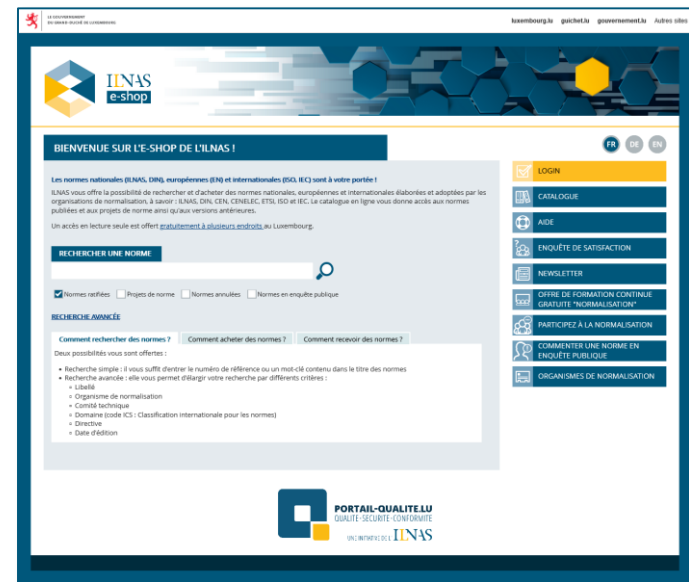
Next steps



➔ **Portail qualité:**
www.portail-qualite.lu



➔ **ILNAS e-shop:**
<https://ilnas.services-publics.lu/>



➔ **Newsletters:** <https://portail-qualite.public.lu/fr/support/newsletter.html>

➔ **Social Networks:**





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