

Finalization of the normative strategy 2010-2020 and perspectives 2020-2030

Dr. Jean-Philippe Humbert

Adjoint à la Direction - ILNAS

October 2019

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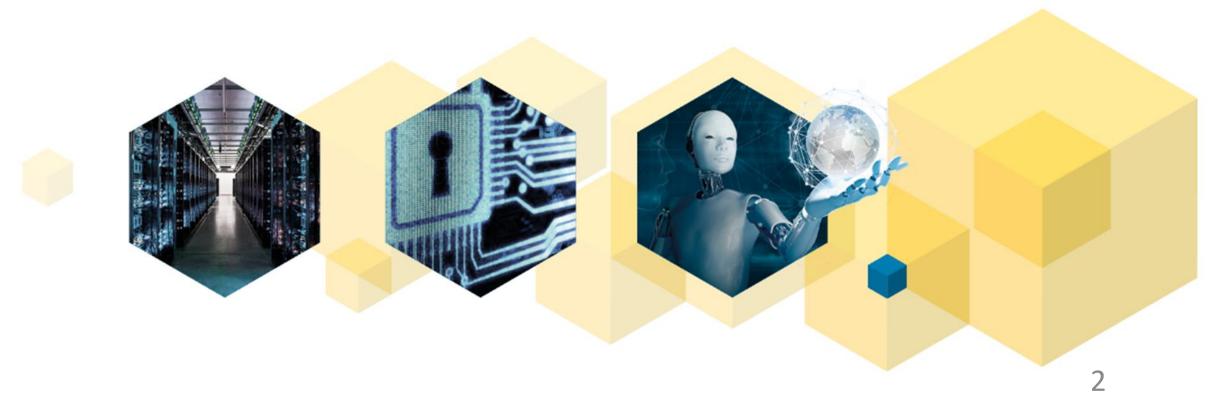




- I INTRODUCTION OF ILNAS
- II NATIONAL STANDARDS BODY

III – NATIONAL STANDARDIZATION STRATEGY (2010-2020) & POLICY ON **TECHNICAL STANDARDIZATION (2015-2020)**

IV – NATIONAL STANDARDIZATION STRATEGY 2020-2030





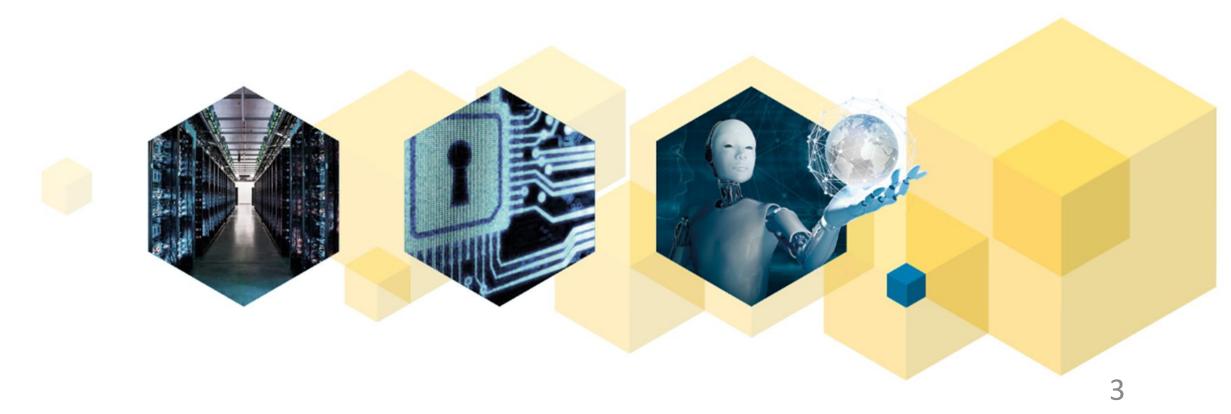
ICT



- **INTRODUCTION OF ILNAS** I —
- II NATIONAL STANDARDS BODY

III – NATIONAL STANDARDIZATION STRATEGY (2010-2020) & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

IV – NATIONAL STANDARDIZATION STRATEGY 2020-2030





INTRODUCTION OF ILNAS ILN4S

A. Key figures

ILNAS, Institut luxembourgeois de la normalisation, de l'accréditation, de la sécurité et qualité des produits et services

- **Creation:** law dated July 14, 2014 (repealing the amended Law of May 20, 2008) and law dated February 17, 2017
- **Legal form:** Public administration under the authority of the Minister of the _ Economy
- Total staff: 48 (October 2019) ____
- Website: www.portail-qualite.lu ____

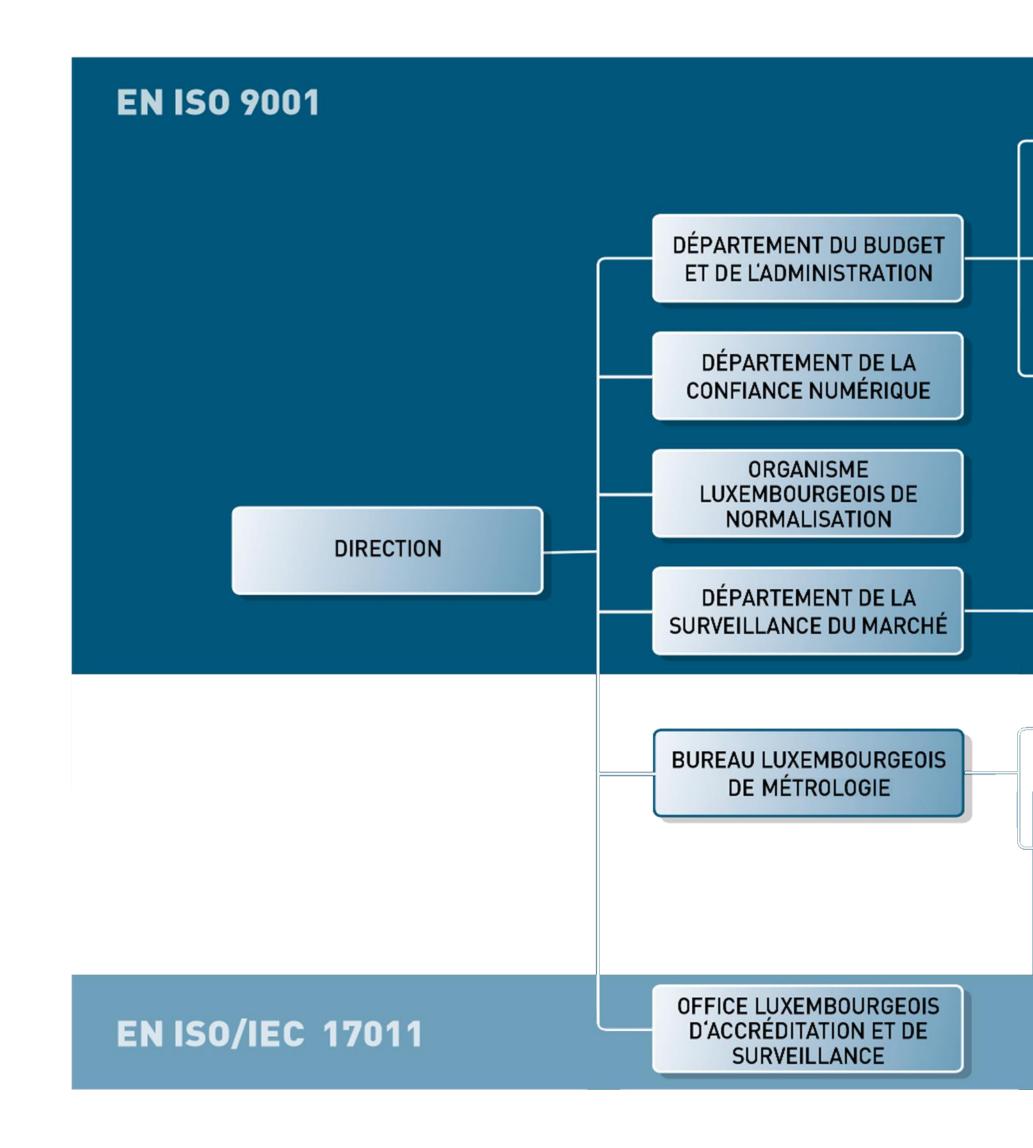






IINAS I. INTRODUCTION OF ILNAS

B. ILNAS Quality Systems





CELLULE SÉCURITÉ DE L'INFORMATION

CELLULE D'ENTRETIEN DES BUREAUX DE L'ILNAS

POINT DE CONTACT PRODUIT

LABORATOIRES ILNAS

SERVICE DE LA MÉTROLOGIE LÉGALE



INTRODUCTION OF ILNAS ILNAS C. ANEC GIE

Agency for standardization and knowledge-based economy

 \rightarrow Supports ILNAS in the execution of the national standardization strategy

- Creation: October 4, 2010 ____
- **Legal form:** Economic Interest Grouping (EIG) ____
- **Objectives:** Promotion, awareness raising and training, applied research in the field of standardization and metrology in order to support companies' competitiveness in Luxembourg
- **Total staff:** 9 employees (October 2019) ____
- **Partners:**





CHAMBRE DES METIERS

Quality system certified against ISO 9001:2015 since July 2018









-DUCHE DE LUXEMBOURG

6

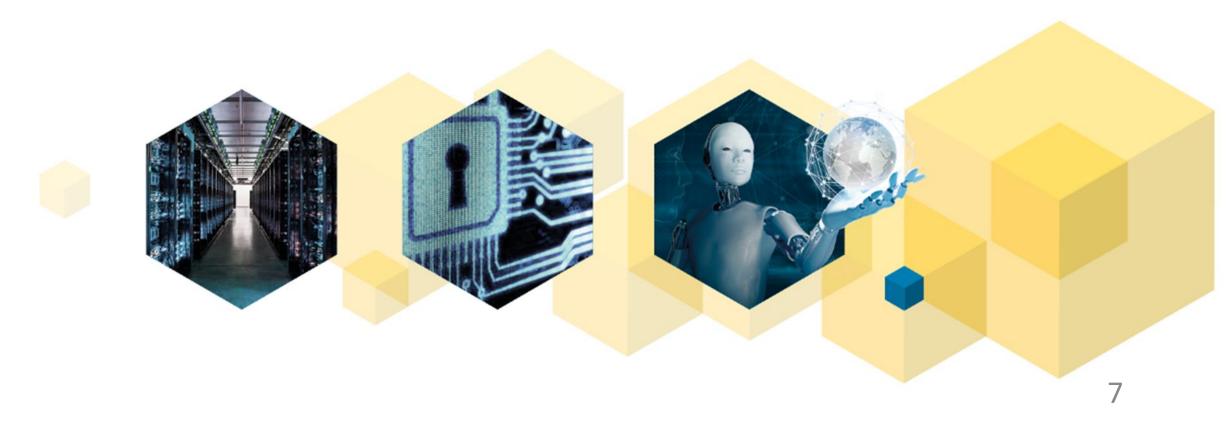


I – INTRODUCTION OF ILNAS

II – NATIONAL STANDARDS BODY

III – NATIONAL STANDARDIZATION STRATEGY (2010-2020) & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

IV – NATIONAL STANDARDIZATION STRATEGY 2020-2030



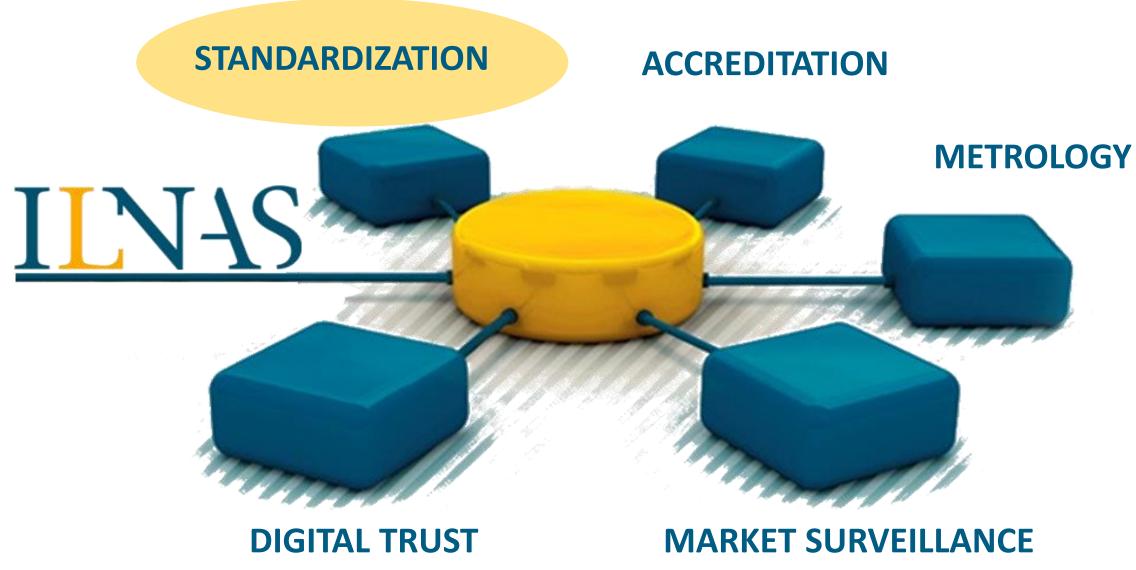


ILNAS I. NATIONAL STANDARDS BODY

Overview Α.

OLN - Organisme luxembourgeois de normalisation -

- Composed of 6 persons
- Close collaboration with the G.I.E. ANEC-N (6 persons)



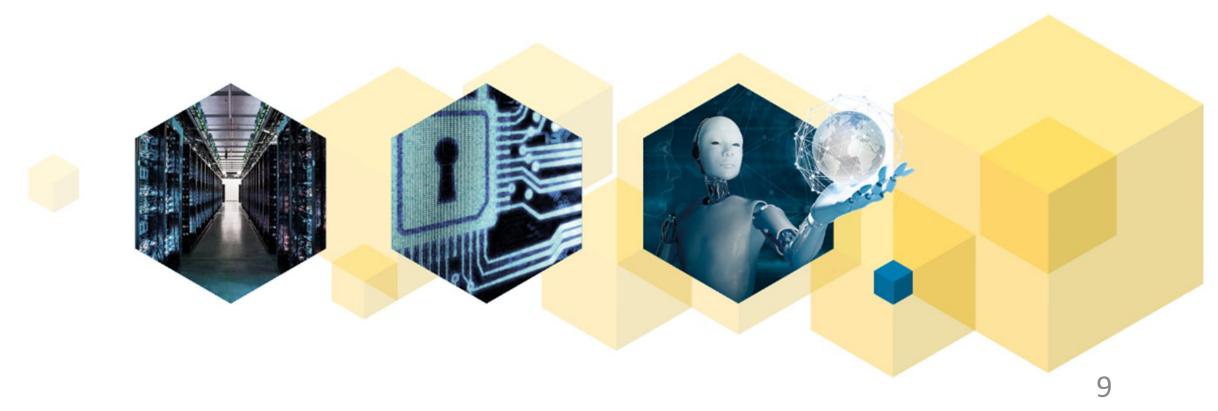




- I INTRODUCTION OF ILNAS
- II NATIONAL STANDARDS BODY

NATIONAL STANDARDIZATION STRATEGY (2010-2020) & POLICY ON **III** – ICT **TECHNICAL STANDARDIZATION (2015-2020)**

IV – NATIONAL STANDARDIZATION STRATEGY 2020-2030

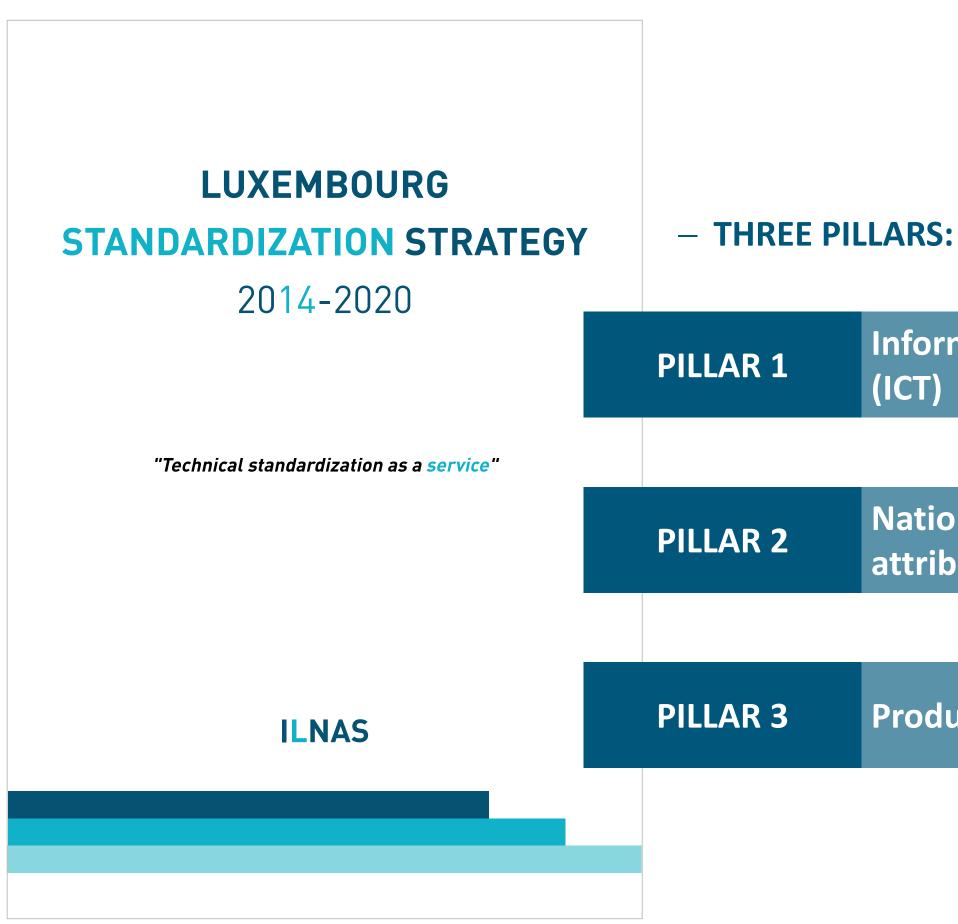






II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Overview Α.



https://portail-qualite.public.lu/fr/publications/normes-normalisation/avis-officiels/strategie-normative-2014-2020.html

Information and communication technologies

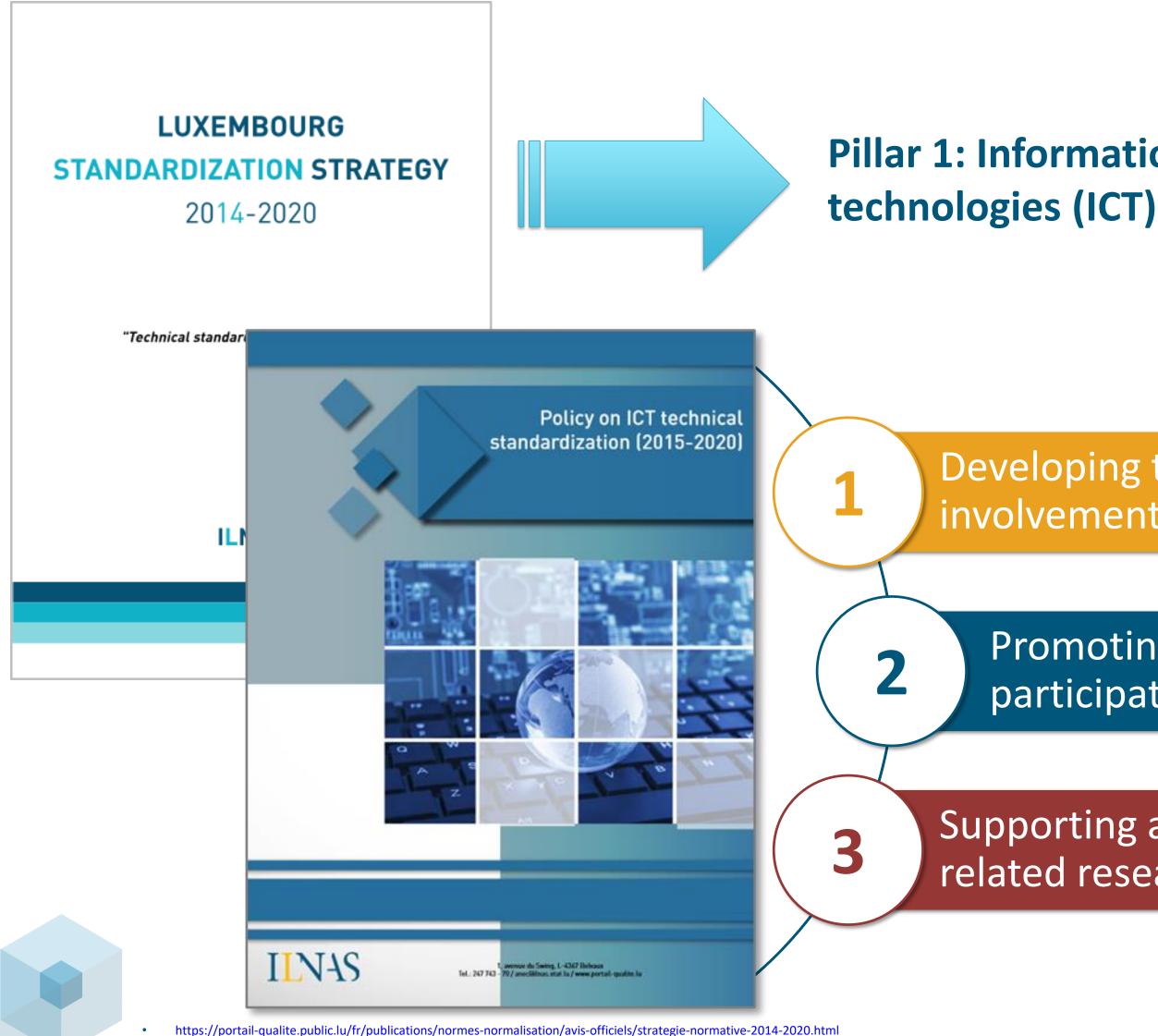
National influence and compliance with legal attributions

Products and services

ILNAS

I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 1: Information and communication technologies (ICT) Β.



https://portail-qualite.public.lu/fr/publications/normes-normalisation/avis-officiels/politique-luxembourgeoise-pour-la-normalisation-technique-des-TIC-2015-2020.html

Pillar 1: Information and communication

Developing the interest and the involvement of the market

Promoting and reinforcing market participation

Supporting and strengthening the EaS and related research activities

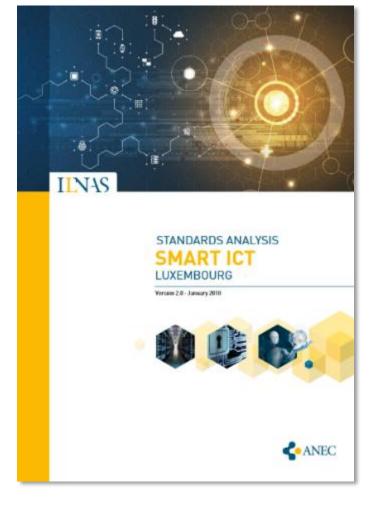


II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

B. Pillar 1: Information and communication technologies (ICT)

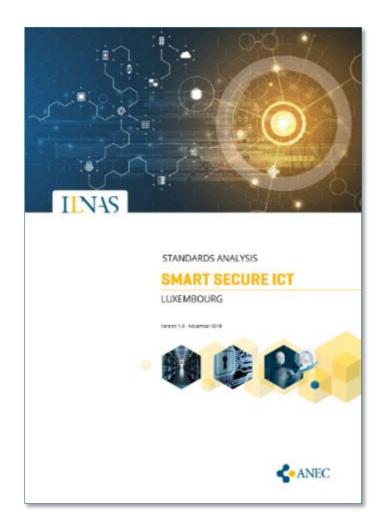
- Standards Analysis of the (Smart) (Secure) ICT Sector





8 editions ofthe StandardsAnalysis of theICT Sector

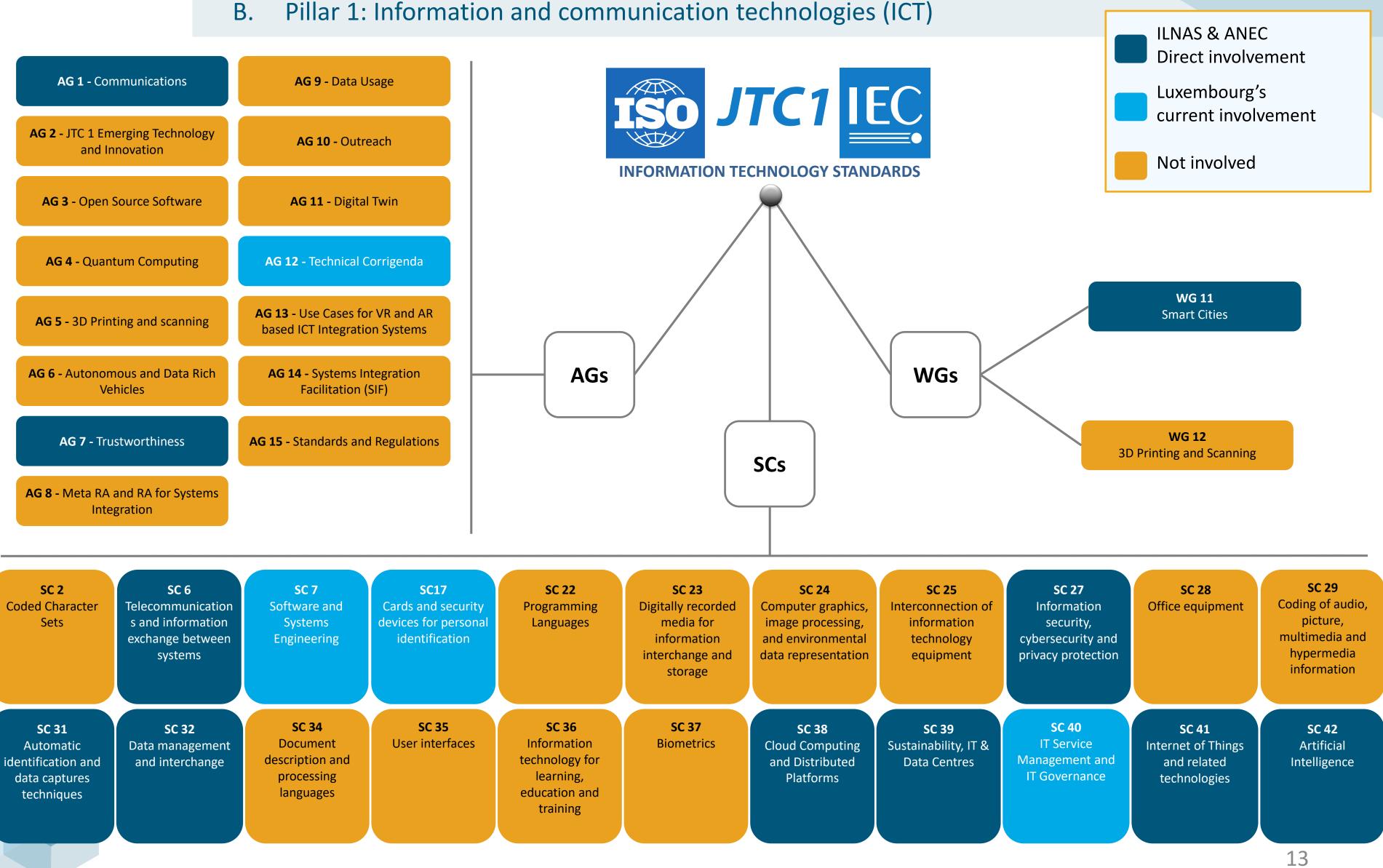
2 editions of the Standards Analysis Smart ICT



1 edition of the Standards Analysis Smart Secure ICT (ed. 2 under development)

ILNAS

I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**





II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

B. Pillar 1: Information and communication technologies (ICT)

- Management of Smart ICT National Mirror Committees



INTERNET OF THINGS



- Participation in 4 plenary meetings
- 6 NMC meetings organized



BLOCKCHAIN AND DLT



Participation in 14 plenary meetings

Participation in 4 plenary meetings 9 NMC meetings organized





Participation in 3 plenary meetings 3 NMC meetings organized





I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 1: Information and communication technologies (ICT) Β.

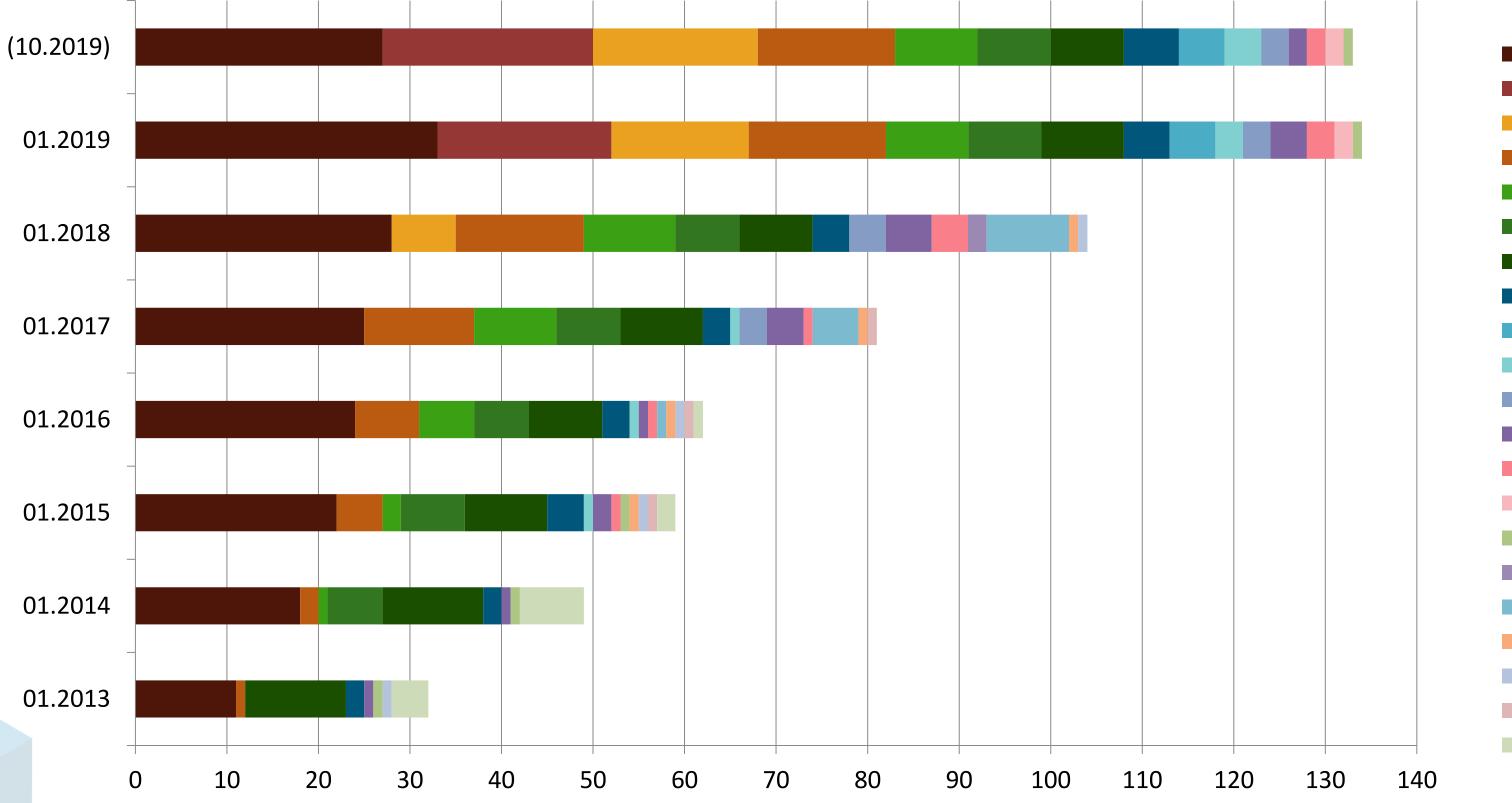
Evolution of the number of national standardization delegates in ISO/IEC JTC 1

> Top representation in JTC 1:

- 27 delegates in the IT security domain
- **15 delegates** in the **Cloud Computing** domain







Registre national des délégués en normalisation - September 2019

• 23 delegates in the Artificial Intelligence / Big Data domains

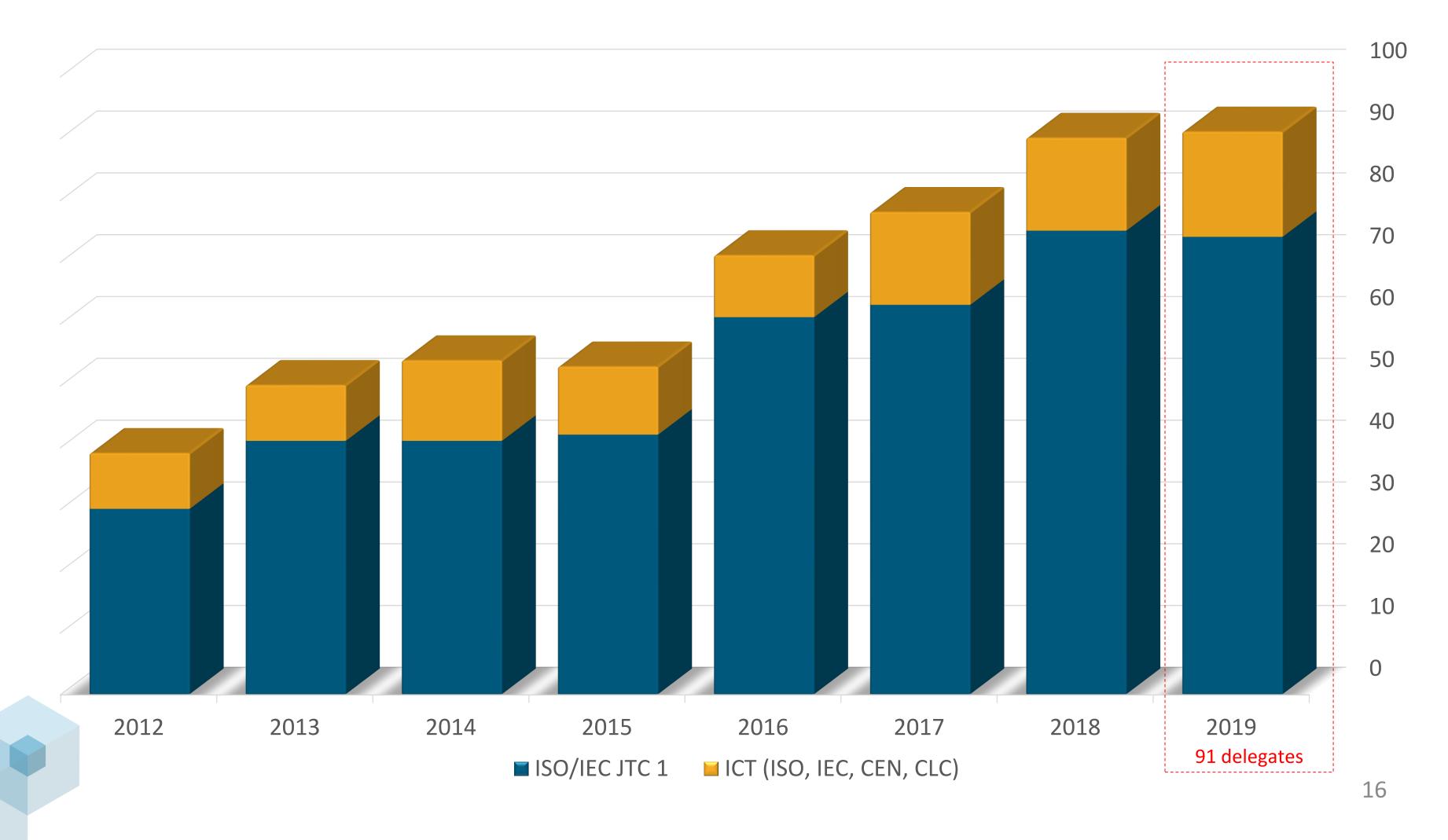
■ JTC 1/SC 27 ■ JTC 1/SC 42 JTC 1/SC 41 ■ JTC 1/SC 38 ■ JTC 1/SC 39 ■ JTC 1/SC 40 ■ JTC 1/SC 7 JTC 1 ■ JTC 1/AG 7 JTC 1/SC 31 JTC 1/WG 11 ■ JTC 1/SC 17 JTC 1/SC 32 JTC 1/AG 1 ■ JTC 1/SC 6 ■ JTC 1/JAG ■ JTC 1/WG 9 JTC 1/SC 34 ■ JTC 1/WG 7 JTC 1/WG 10 JTC 1/SC 36



II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

B. Pillar 1: Information and communication technologies (ICT)

- Evolution of the number of national standardization delegates in the ICT sector





II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 1: Information and communication technologies (ICT) Β.





II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

B. Pillar 1: Information and communication technologies (ICT)

- Publication of White Papers







I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 1: Information and communication technologies (ICT) Β.

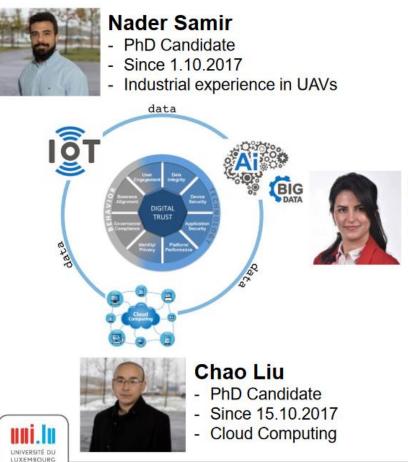
Development of a Research Program (2017-2020) in collaboration with the University of -Luxembourg

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







White Paper "DATA PROTECTION AND PRIVACY IN SMART ICT -SCIENTIFIC RESEARCH AND TECHNICAL STANDARDIZATION"





Prof. Pascal Bouvry

- **Principal Investigator**
- Project coordination
- PhD supervision

Saharnaz Dilmaghani PhD Candidate

- Since 01.03.2018 Standardization experience



Matthias Brust

Postdoc Project support

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



Pillar 1: Information and communication technologies (ICT) Β.

Development of the University Certificate "Smart ICT for Business Innovation" in collaboration with the University of Luxembourg







II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT



ILNAS

I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

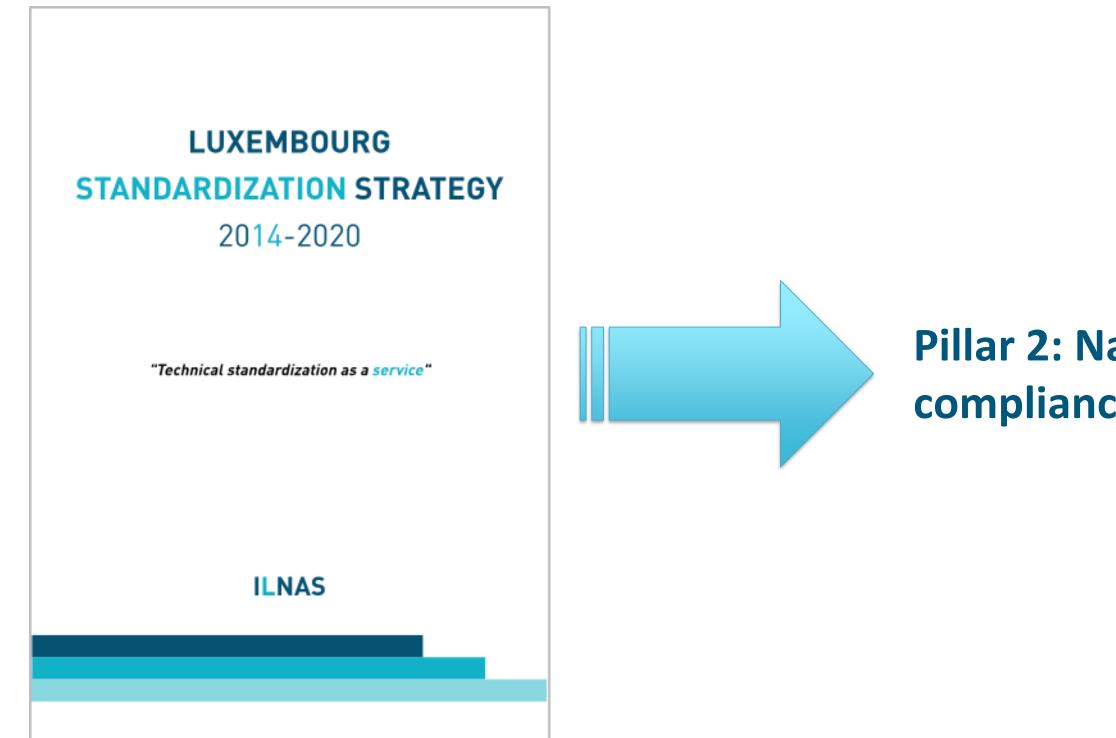
- Pillar 1: Information and communication technologies (ICT) Β.
- **Development of a Master degree "Technopreneurship: mastering smart ICT, standardization** and digital trust for enabling next generation of ICT solutions" in collaboration with the **University of Luxembourg**





II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

C. Pillar 2: National influence and compliance with legal attributions





Pillar 2: National influence and compliance with legal attributions



II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 2: National influence and compliance with legal attributions С.

Representation of Luxembourg in General Assemblies and strategic meetings



Participation in **46 General Assemblies**

JTC1 IEC



Participation in more than 50 strategic meetings









I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 2: National influence and compliance with legal attributions С.

Joint Initiative on Standardisation (March 2017 – June 2019)





The Joint Initiative on

Standardisation

Standards facilitate market access for businesses, build trust in the quality and safety of products and services, eliminate technical barriers to trade, ensure interopera

Friends of

The Single Market is one of the greatest achievements o the European Union and standardisation is at its heart. Voluntary standards, driven by market needs, play a cru sial role in the development of the Single Market, its ad-

The Joint Initiative on Standardisation reflects this crucial role. It has been a unique voluntary collaborative effort that started in 2016 under the NL-Presidency and that has brought a wide range of partners with an interes in standardisation around the table to help further mod-ernise the European standardisation system and raise awareness of its benefits.

Over three years (2016-2019), it has been a launch pad for mutually beneficial results.

A shared vision

- state-of-the-art standards.







Standardisation

bility, support technological developments and the con-tinued digitisation of the European economy. Standards also shape the everyday life of citizens and contribute to schieving the UN-Sustainable Development Goals.

ancement and deepening, enabling it to be future-proof for the benefit of businesses and citizens.

To strengthen the competitiveness of European busi-nesses and enhance societal welfare by supporting the further development of the European standardisa-tion system and by ensuring the delivery of timely and

To support EU policy priorities and objectives while respecting the roles of the various stakeholders, the national delegation principle and the different compe-tences of the EU, EFTA and their Member States.

neurship and SNEs: "The role of sten known to the public, however they are essential to make or gie Market work on the ground and increase the global con s of our industry. This initiative is about making o

na Santiago Cid, Direotor General, CEN and CENELEC re achieved a great deal together. The CEN and CEN manifies have invested considerable resources in the Joint Wiley, which has given us the charce to baild even closer Ving relationships with our stateholders, to help address inderstandings, and to make clear cases to the Commission safety 6on of EU Re

A unique approach

- More than 100 participants signed and endorsed the
- Signatories include EU and EFTA Member States pean and national standardisation bodies; as sociations rep interests, workers, industry and SMEs; and individual businesses from several sectors.
- In true European spirit, the partnership has brought tives around the table from across the ecoreprese nomic and social spectrum, voluntarily working together and dedicated to delivering a set of actions.

Olivier Peyral, Direotor General, AFNOR: "This platform has indeed oraeted a steedy dialogue that has obviously delivered greater understanding and smooth ocoparation, within a group that now assaily refers openly to itself as the "Friends of Stand-

Francesca Paggiali, Public Policy Director for Europe, G81: "In G31 we say that we believe in the power of standards to improve the way we work and live and thenks to JIS, it was exciding to see that this is the common belief of so many friends of sta

Clear objectives

- Strategically focusing on the important role of stand ards in key areas, such as digitisation, services, public procurement, research and innovation, and on awareness-raising with academia, public authorities and civi
- 15 actions in three cluster domains, with the emphasis on increasing the use of standards and inclusiveness of the process to promote high quality, market relevant and user-friendly European standards, which suppor European policies and European competitiveness globally as well as to improve and to facilitate everyda

tophe Sykes, Director General of Cor Europe: "Construction stendentisation experts are sedisfied with the documents developed within the JIS transwork. The regu-latory constraints and stendentisen requirements we easily adverstood themis to the cleve guidance papers and templates developed under this process. Congratulations to all those in-

Institute Germany, CEO, Sweetish Standards Institute: "We week our research match the role of standards within public procurs-west the batter knives, and that knowledge and tools to public research be developed. This is highly basefield for both the buy-re and the suppliers. Following the bard work within the settion

An active network

- Open, transparent and reflecting the public-privat partnership in European standardis
- Regular meetings to assess implementation, p and functioning of the Joint Initiative on Stand tion with co rete results on tions for the future
- Strong call for a permanent European collaborative plati

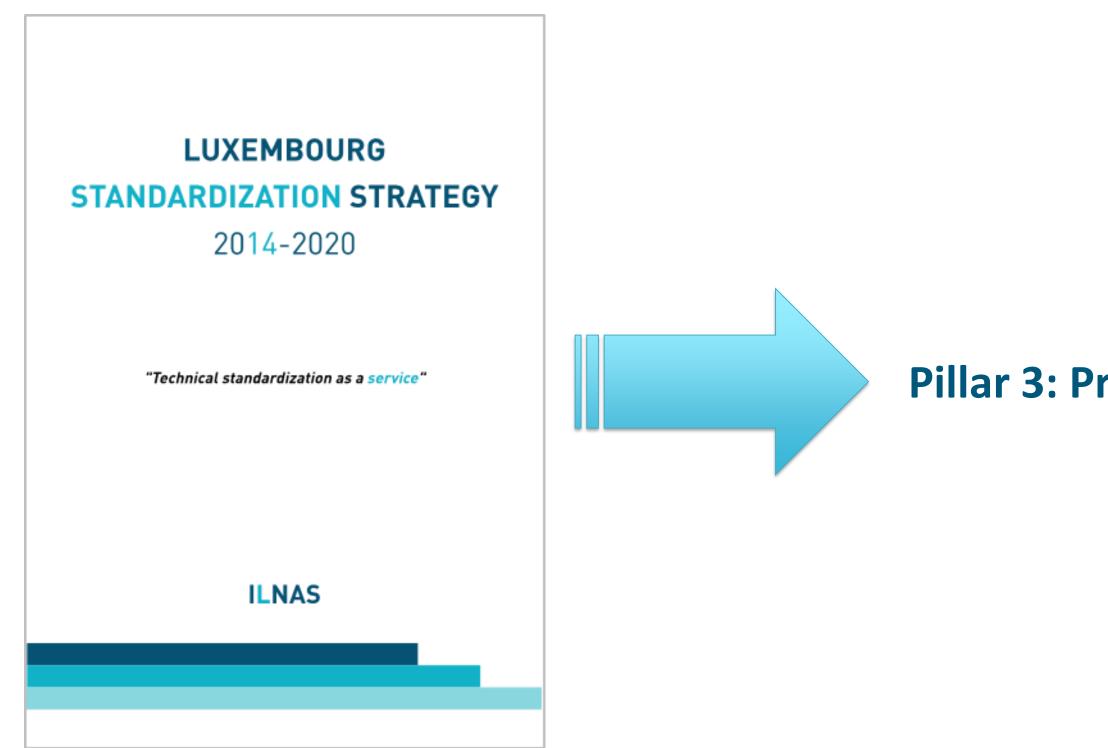
Sibylle Gabler, Head of Government Relations at DIN: "W\$ (Action 4) has created a great momentum for networking enouget Friends of Standardization from netional public asthorities and entitional standardization bodies with the and or improving stand-artification encreases. This has been an exciting and rewarding experience."

Professor Henk de Vries, President of the European Academy fo Standardisation EURAS: "Remarkable and great that the Euro-pean Commission, though initiator of the initiative, did not take any hierarchisel position - all stakeholders could participate on equal basis and in the 'Action on Education' I was involved in, the EC was really supportive. JIS has been a perfect example of cooperation between the European Commission and other



II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

D. Pillar 3: Products and services





Pillar 3: Products and services



II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

D. Pillar 3: Products and services

- Development of trainings on technical standardization



GENERAL TRAININGS ON STANDARDIZATION



STANDARDIZATION IN THE ICT SECTOR



NEW DELEGATE IN STANDARDIZATION







II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

D. Pillar 3: Products and services

- Development of products and services



Awareness raising in more than 100 organizations

More than 30 standards watch conducted

> Different diagnostics delivered



I. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT **TECHNICAL STANDARDIZATION (2015-2020)**

Pillar 3: Products and services D.

On-demand Standards Analysis _





2 editions of

the Standards Analysis of the Aerospace

Sector



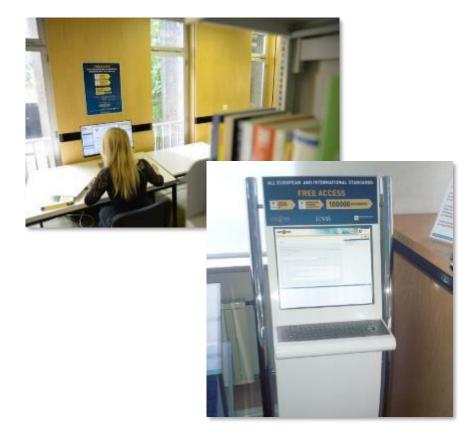
II. NATIONAL STANDARDIZATION STRATEGY 2010-2020 & POLICY ON ICT TECHNICAL STANDARDIZATION (2015-2020)

E. Other achievements during the period 2010-2020

Creation of the ILNAS eShop

WELCOME TO THE ILNAS E-SHOP!	
	Login • Login/Register
National (ILNAS, DIN), European (EN) and International (ISO, IEC) standards are available here!	
LNAS offers you the possibility to search and purchase National, European and International Standards, prepared and adopted by the Standardization Organizations such as ILNAS, DIN, CEN, CENELEC, ETSI, ISO and IEC. This online catalogue	Catalogues
includes draft standards, adopted and published ones as well as historical deliverables.	Browse by Domain (ICS Code)
A read-only access to standards is offered for free at several locations in Luxembourg.	Browse by <u>Committee</u> Browse by <u>EC-Directive</u>
Search a standard	
Ø	Help
Ratified standards Draft standards Withdrawn standards Standards in public enquiry	<u>"ILNAS e-Shop" General Terms and Conditions</u> <u>Sale</u>
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How to search standards? How to purchase standards? How to get your standards?	• <u>Contact</u>
Two ways are provided to you :	
A quick Search box allowing you to search by standard code (number) or keywords and phrases	Satisfaction enquiry Share your opinion
 An Advanced Search which allows you to combine further search criteria such as : O Standard reference / wording 	
Standardization Body Technical Committee	Newsletter
Domain (ICS Field: International Classification for Standards) Directive	Register for our newsletter
• Edition date	
	Free of charge lifelong learning
	"Standardization" Proposed training program
News	Forthcoming sessions Registration
NEWS	• <u>Registration</u>
L'ILNAS et l'Université du Luxembourg, avec le support du	Participate in
ministère de l'Economie, publient un White Paper dédié à la protection des données et de la vie privée dans le contexte des	standardization
Smart ICT	activities
L'adoption des technologies Smart ICT (Cloud Computing, Internet of	Comment on a draft standard in public
Things et Big Data) dans tous les secteurs économiques permet aujourd'hui de collecter, de traiter et d'analyser des volumes de données	enguiry
toujours plus importants, conduisant ainsi à la mise en place de nouveaux services qui bénéficient à la société dans son ensemble. La	

Creation of the ILNAS lecture stations



Creation of the Portailqualite.lu



Certification of the ANEC EIG QMS against ISO 9001



Creation of the ANEC EIG



Certification of the ILNAS QMS against ISO 9001

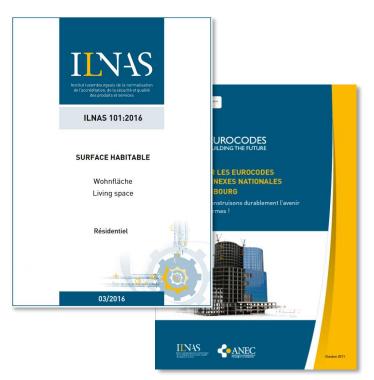


Management System ISO 9001:2015





Creation of national standards



Management System ISO 9001:2015

www.tuv.com ID 9108653630

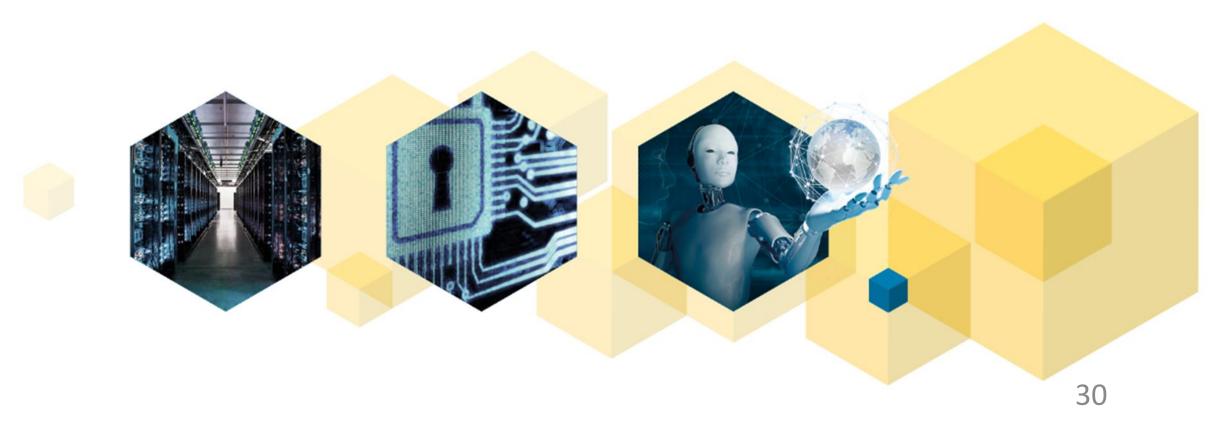
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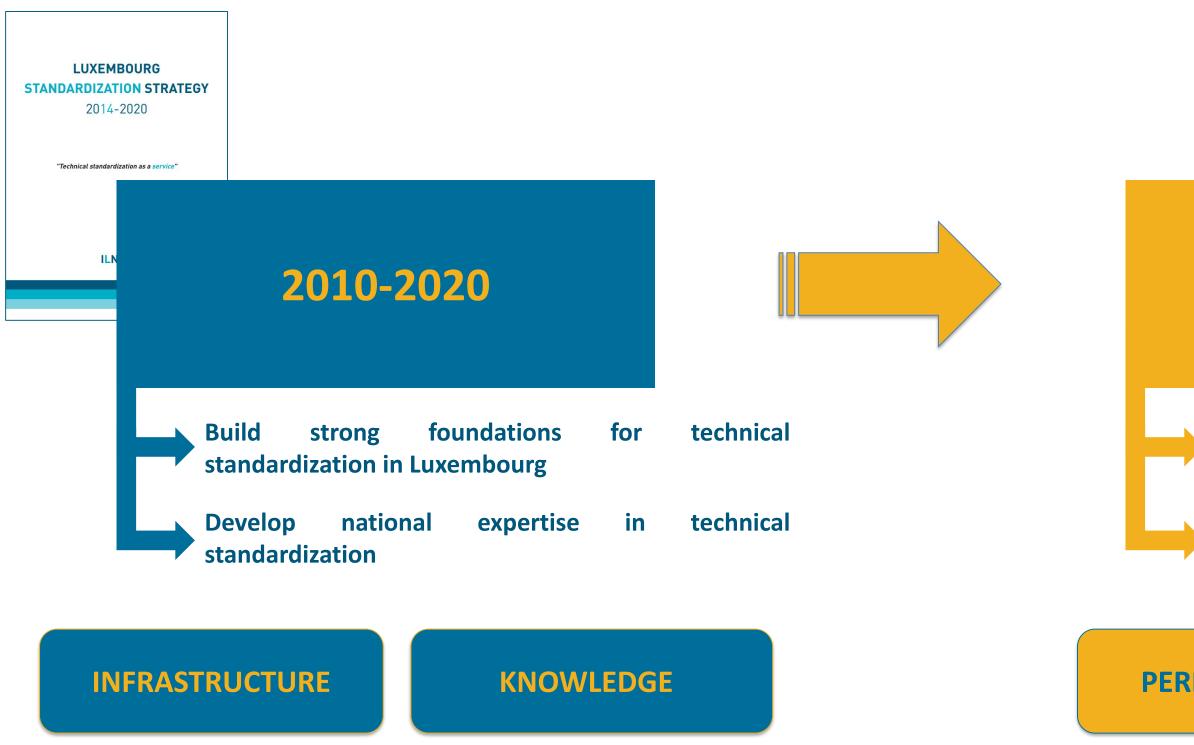
IV – NATIONAL STANDARDIZATION STRATEGY 2020-2030





Overview Α.

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



2020-2030

Enhance the use of standards and the involvement in the standardization process

Improve the global positioning of Luxembourg in the standardization landscape

PERFORMANCE

EXCELLENCE



Overview Α.

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





Pillars Β.

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



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



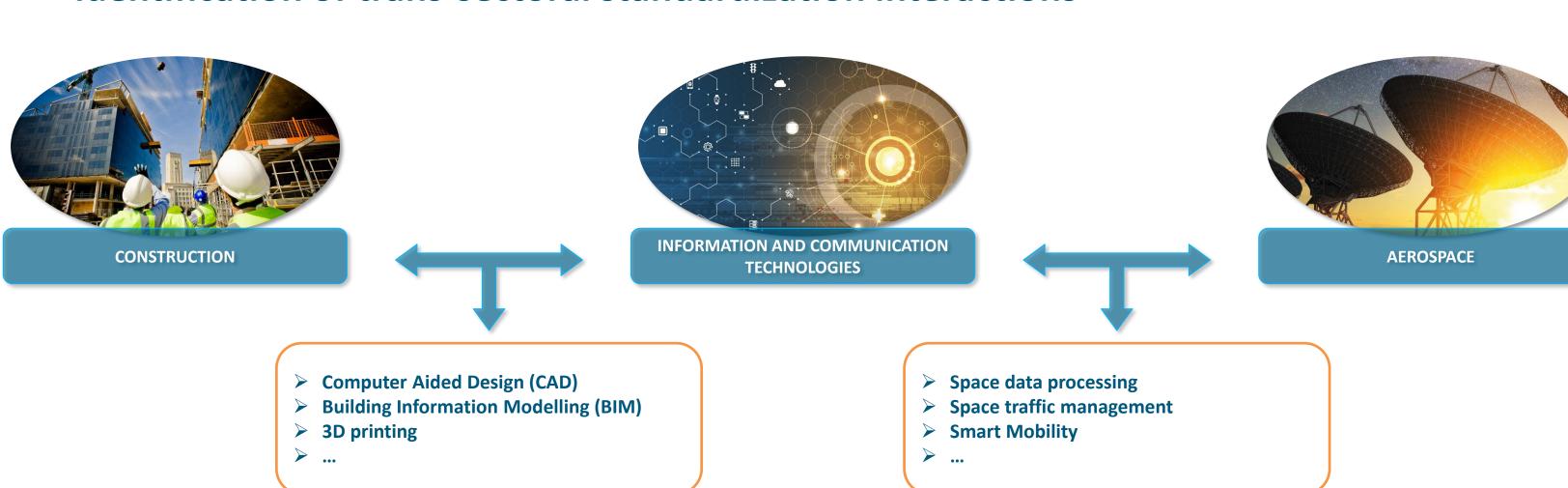
- **Pillar 3 Active participation of the NSB in the European and** international standardization organizations
- **Pillar 4 Development of research and education about** standardization

ILNAS **IV. NATIONAL STANDARDIZATION STRATEGY 2020-2030**

Implementation С.

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

Identification of trans-sectoral standardization interactions



Creation of products and services to support the normative development of the growth sectors



STAY INFORMED ABOUT ILNAS ACTIVITIES



→ Portail qualité: www.portail-qualite.lu

	PORTAIL-QUALITE.LU QUALITE-SECURITE-CONFORMIT				
Sécurité & S	ianté Métrologie	Accréditation & Notification		mes & Propriété mailsation intellectu	
	130	10			
93/05/17				Yest	
loud Co ux nom	mputing : renforcer l	a confiance grace			
laboration d oud Comput	é technique ISC/IEC JTC 1/SC 38 tr. le normes internationales pour so ting. Les projets portent notamme a portabilité ou encore la sécurité. combourg.	utenir le développement de nt sur les Service Level			
٢	Informez-vous sur la li circulation des produit	bre 🕞	nformez-vous sur archivage électronique		ez consulter toutes nos actualités ? IR TOUTES LES ACTUALITÉS
IINAS SHOP	Achetez des normes	æ i	articipez à la ormalisation	alme	ossez un défaut sur un produit taire ou non alimentaire ? ALER UNE NON-CONFORMITÉ
0	Découvrez le certificat universitaire "Smart iC for Business Innovatio	T XN S	dentifiez les instruments oumis au contrôle nétrologique		carbonades de boeuf préparée
Q	Trouvez un organisme accrédité	%	nformez-vous sur la onformité des produits	Avertiss	de Speculoos à tartiner de 2 Lotus (06/03/2017) sement de sécurité Bolssons à 2 Jus de fruits Surprise drink (09/02)
	nté	Normes & Normalisation		ACTUALITÉS	DOCUMENTATIO
curité & Sa				AGENDA	LÉGISLATIO
écurité & Sa létrologie	& Notification	Evaluation de la conformit	Á.R.	FORMATIONS	ACTEUR





\rightarrow Newsletters:

https://portail-qualite.public.lu/fr/support/newsletter.html

→ ILNAS e-shop: https://ilnas.services-publics.lu/

national (ISO, IEO standards are available heref these National, Europeen and International Standards, prepared and adopted by the L. CEN, CENELEC, ETSI, ISO and IEC. This online catalogue includes draft standards, adopted les. • at several locations in Luxembourg.	Login • Login/Respire • Login/Respire • Login/Respire • Drawne by Damain (ES Code) • Drawne by Externation • Drawne by EC-Directive
Withdrawn standards IP Scanterits in public enquiry	Help • "ENAS # Shop" General Terms and Continuous of San • Shopping code • Contact
Azantiants 7 How to get your standards 7 h by standard code (number) or keywords and phrases combine further search criteria such as : fication for Standards)	Satisfaction enquiry Satisfaction enquiry Shim your control Newsletter Newsletter Free of charge lifelong berning "Standardization
Rance grâce aux normes rgeoises utilisaient des services de Coud 14 depuis 2018, Ceste technologe offre de un Dedgeme (R. a. Lacratolistic, optimisation	Processed training program South communications Bestimation PortAil-QUALITE.LU QUALITE-SECURITE-CONFORMITE
- qui fadoptent (ex. : accessibilité, optimilation	



IINAS

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