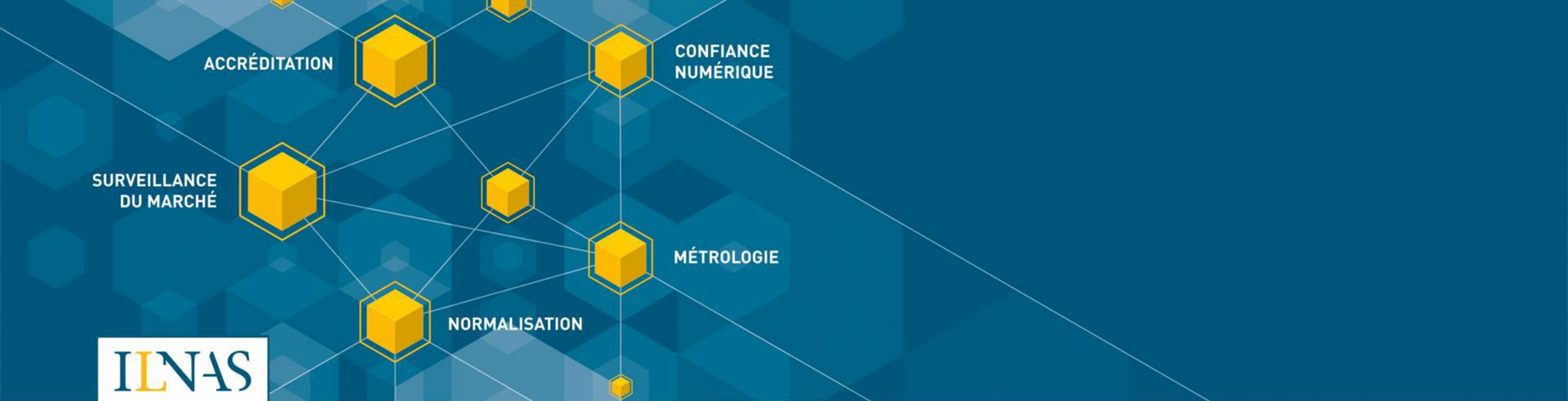




# Presentation Breakfast of Technical Report « Conformity Assessment: Overview »

12/06/2024





# Introduction

Jérôme Hoerold, ILNAS/OLN, Head of department  
12/06/2024



# ILNAS

- Public administration under the authority of the Minister of the Economy, SME, Energy and Tourism
- Interesection of several technical and administrative attributions
- 65 collaborators (June 2024)
- ISO 9001:2015 certified

## ORGANISME LUXEMBOURGEOIS DE NORMALISATION

- National standardization body
- Close collaboration with GIE ANEC-N (4 persons)
- Main goals:
  - Set-up a national normative culture
  - Create national standards
  - Manage the contribution of national experts to the drafting of European and international standards
  - Representation of Luxembourg at European and international level



LE GOUVERNEMENT  
DU GRAND-DUCHÉ DE LUXEMBOURG  
Ministère de l'Économie



## 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

Technical standardization

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

3 growth sectors identified



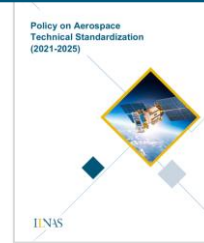
ICT



CONSTRUCTION



AEROSPACE



CASCO





“Foster and strengthen **the national economic** sectors involvement in standardization work”

1

Promoting technical standardization to the market

2

Reinforcing the valorization and the involvement regarding technical standardization

3

Supporting and strengthening the Education about Standardization and the related research activities



ILNAS, in collaboration with ANEC GIE, offers the following products and services to national socio-economic actors:

- Dissemination of normative information
  - Sectoral Standards Analyses (“Fundamental” Sectors, e.g. Aerospace, 2023)
  - White papers (Trustworthiness in ICT, Aerospace, and Construction applications - Scientific Research and Technical Standardization, 2023)
  - Technical reports (Quantum technologies, 2023)
  - Newsletters
  - Etc.
- Informative sessions
- Continuous training in standardization
- Targeted standards watch

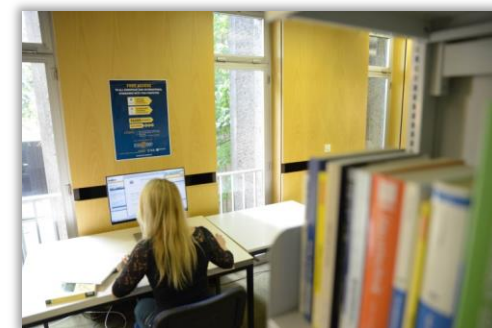


<https://portail-qualite.public.lu/fr/normes-normalisation/produits-et-services.html>

- Published technical standards (ILNAS, ETSI, CEN, CENELEC, ISO and IEC) can be freely consulted on the ILNAS reading stations

Locations:

- University of Luxembourg (Campus Kirchberg)
- Luxembourg House of Cybersecurity (**with an appointment**)
- Chambre des métiers
- Lifelong Learning Center
- ILNAS (**with an appointment**)
- LIST (Belvaux)
- Administration communale de la Ville d'Echternach
- Atert-Lycée Redange
- Lycée des Arts et Métiers



- These standards can also be purchased through the ILNAS e-shop at competitive prices
  - Over 200,000 normative documents available
  - Format: electronic
  - Language: English, French and German



**Informative session following the revision decision of the standard ISO/IEC 17020**

**25<sup>th</sup> January 2023**

2 LU delegates registered

**Consultative meeting for the revision of ISO/IEC 17025:2017**

**15<sup>th</sup> February 2023**

Luxembourg position:  
confirmation of the standard

**Consultative meeting for the revision of ISO/IEC 17011:2017**

**2<sup>nd</sup> March 2023**

Luxembourg position:  
confirmation of the standard

## Breakfast

**« Introduction to the conformity assessment »**

**25<sup>th</sup> May 2023**

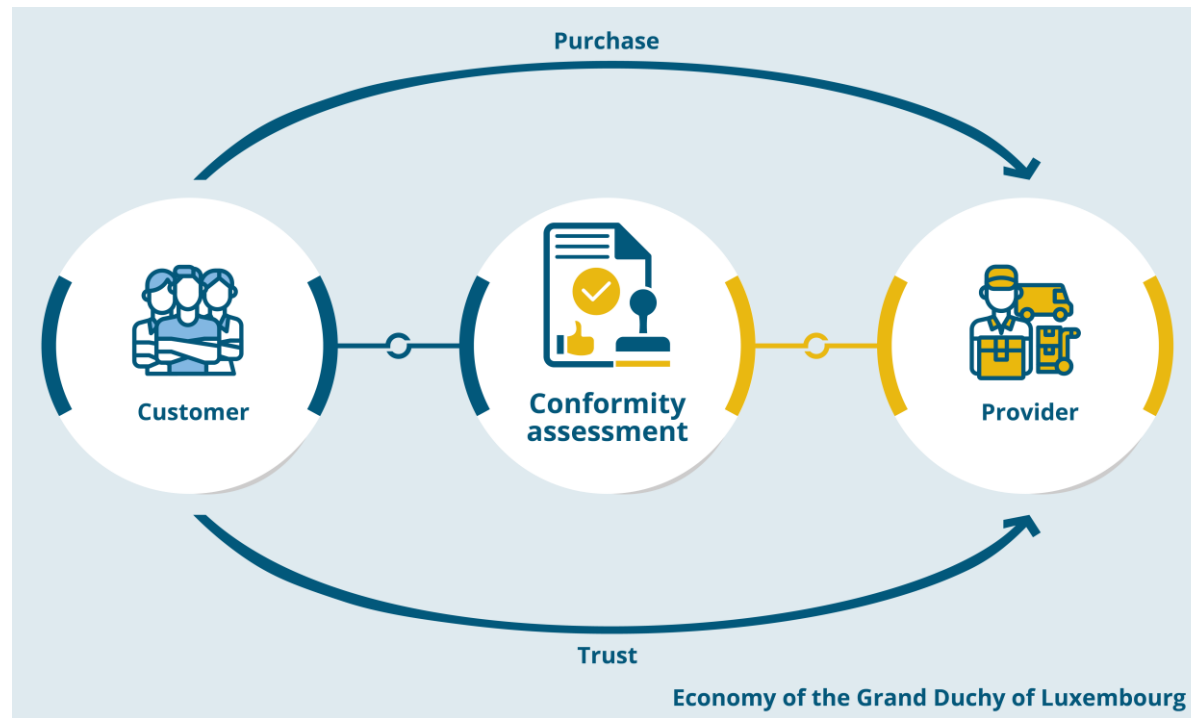
Presentation of the different activities and stakeholders involved in the chain of trust-building related to the conformity assessment domain

1 LU delegate registered



- **Conformity assessment** is “The process of conformity assessment demonstrates whether a product, service, process, claim, system or person meets the relevant requirements”<sup>1</sup>

### Chain of trust-building



Conformity assessment is a great tool to reach high economical confidence

<sup>1</sup><https://www.iso.org/conformity-assessment.html>

- What are the characteristics to be followed in order to build trust through conformity assessment ?

Coherence

Transparency

Openness

Quality

Consensus

Independence

Impartiality

Objectivity



Thank you for your  
attention

Questions ?

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[www.portail-qualite.lu](http://www.portail-qualite.lu)



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D'ACCREDITATION ET DE  
SURVEILLANCE



L'accréditation OLAS :  
La preuve de la compétence



# Accreditation as keystone for Trust

**Dominique Ferrand**

Head of OLAS Department

12<sup>th</sup> of June 2024

*Welcome · Bienvenue · Willkommen*

**ILNAS**

## Source : ISO/IEC 17000:2020 – Conformity assessment – Vocabulary and general principles

- Conformity assessment : demonstration that specified **requirements** are fulfilled
- Conformity assessment activities : Activities covering testing, calibration, inspection, certification of products, management systems, personnel, validation, verification
- conformity assessment scheme or conformity assessment program : **set of rules and procedures** that describes the objects of conformity assessment, identifies the specified requirements and provides the methodology for performing conformity assessment
- Conformity assessment body (CAB) : **Body** that performs conformity assessment activities, excluding accreditation



## Source : ISO/IEC 17011:2017 - Conformity assessment – Requirements for accreditation bodies accrediting conformity assessment bodies

- Accreditation : **Third-party attestation** related to a conformity assessment body conveying formal demonstration of its **competence** to carry out specific conformity assessment tasks

## Source : Regulation (EC) No 765/2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products

- Accreditation : Attestation by a national accreditation body (NAB) that a conformity assessment body meets the requirements set by **harmonized standards** and, where applicable, any **additional requirements** including those set out in relevant sectoral schemes, to carry out a specific conformity assessment activity

## Conformity assessment bodies:

Conformity assessment bodies can be public or private bodies **evaluating the conformity** of products, services, systems, persons... according to recognized standards or regulations.

Conformity assessment can be performed by manufacturers, distributors or third party bodies.

## Accreditation bodies:

Accreditation bodies are public or private third party bodies **attesting the technical competence** of conformity assessment bodies to perform certain conformity assessment activities. Accreditation is only delivered to **organizations** (not to persons).

Conformity assessment and Accreditation are **complementary activities**. From the product, service, system, persons... to the consumer, these two activities constitute the **chain of trust** supported, for example, by the European regulations.



Peer-evaluation  
system



Trusted  
**NAB**

Accreditation  
activities



Trusted  
**CAB**

Conformity  
assessment  
activities



Trusted  
**Product**



Standard for NABs organization

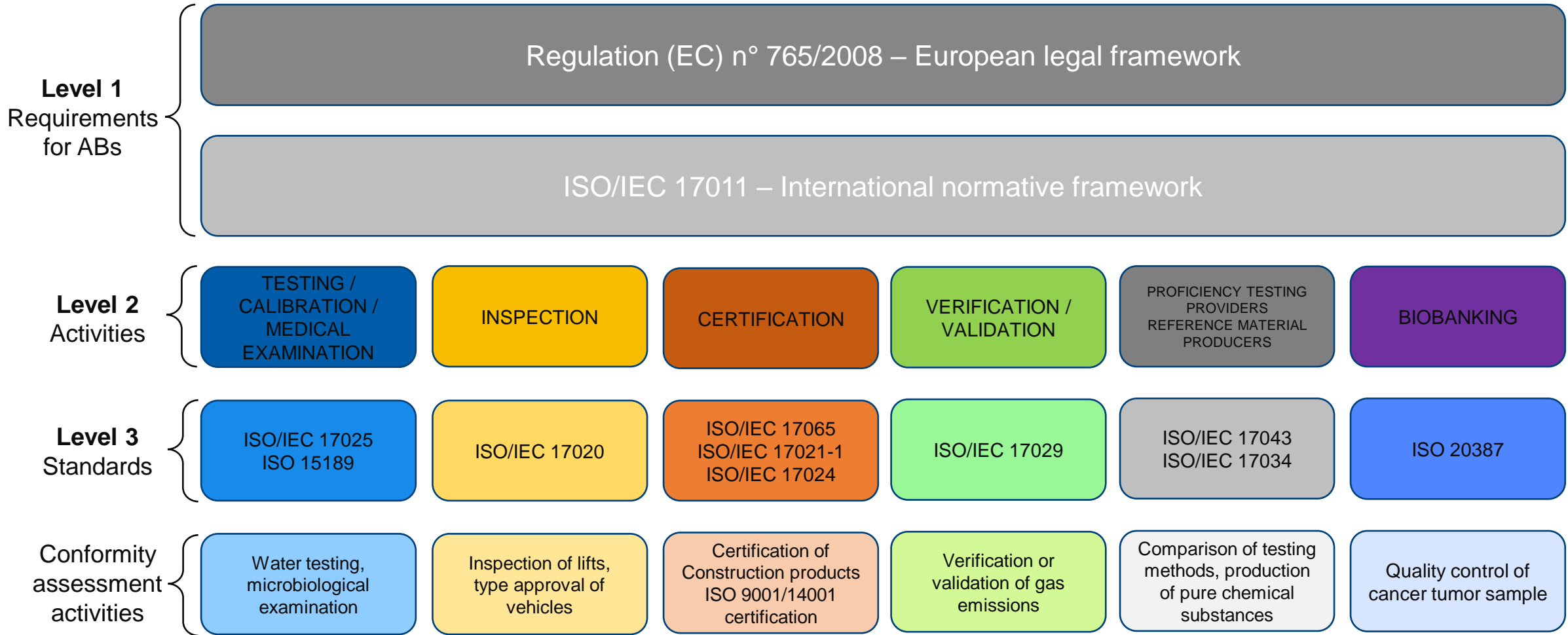


Accreditation standard for laboratories



Technical standards for water testing





Domains of legislations	Number of EU legislations
Union harmonization for products to guarantee EU free movement	32
Food and Feed	17
Climate / Environment	38
Vehicles	7
Railway	6
Transport	7
Aviation	1
Forensic	1
Data protection	2
Cybersecurity / IT security	3
Medical	1
Sustainability / Eco design / Green transition	4
<b>Total</b>	<b>119</b>

Coherence

Transparency

*Openness*

*Quality*

*Consensus*

Independence

Impartiality

Objectivity



## Coherence and objectivity in accreditation

### European and national legal framework

- Regulation (EC) n° 765/2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products – *Accreditation definition*
- Loi du 4 juillet 2014 portant réorganisation de l'ILNAS – *Definition of OLAS missions (accreditation and notification of CABs)*
- RGD du 12 avril 2016 pour la mise en application des articles 5 et 7 de la loi ILNAS – *Details of the definition of OLAS missions (accreditation and notification of CABs)*

### International normative framework

- Standard ISO/IEC 17011 – Conformity assessment — Requirements for accreditation bodies accrediting conformity assessment bodies

## Independence and impartiality in accreditation

### Regulation (EC) n° 765/2008 – Definition of European principles

- **One NAB** by Member State
- NAB acts as a **public authority**
- **Not-for-profit** activity
- Accreditation – **last level of control** in the conformity assessment chain
- **Non-competition** between NABs

## Independence and impartiality in accreditation

### Regulation (EC) n° 765/2008 – Definition of European principles

- Access to **competence** to perform accreditation of CABs
- **Independence** from the CABs and **impartiality** of decision making process (third-party)
- Cross-border accreditation
- European accreditation infrastructure
- **Peer evaluation system** managed by EA – tool for **Mutual recognition agreement**

Application of these principles guarantee trust in the accreditation system

## Impartiality, coherence and transparency of accreditation

### Regulation (EC) n° 765/2008 : Article 10 – Peer evaluation

- NABs shall participate to the peer evaluation organized by EA
- Peer evaluation is operated based on a coherent and transparent evaluation system
- The results of the peer evaluation is published by EA, via its website, to all the Member States and to the European Commission
- European Commission, in cooperation with the Member States, is supervising the rules and the proper implementation of the peer evaluation system

### Guarantee of the harmonization in accreditation system performed by NABs

## Coherence and objectivity in accreditation through mutual recognition agreement

### Mutual recognition agreement main objectives:

- Recognition of the competences of CABs by the NABs signatories of the mutual recognition agreements
- Acceptance of products, services, certificates, reports... delivered by accredited CABs, across national borders,
- Removal of barriers to global trade

**“Accredited once, accepted everywhere”**

## Coherence and objectivity in accreditation through mutual recognition agreement

### Benefits of mutual recognition agreement:

- For government: government to government bilateral and multilateral international **trade agreements**
- For regulators: internationally recognized 'stamp of approval' to demonstrate compliance against agreed **standards and requirements**
- For industry users: ensures that businesses depending on conformity assessment activities are **performed in a competent way**
- For manufacturers: **reduce the costs of internal assessments** to confirm the quality of products by using the services of recognized accredited CABs.
- For consumers: **provide confidence** to consumers by using conformity assessment services delivered by accredited CABs.



## European co-operation for Accreditation (EA)

**Regional Association** of NABs (Regulation (EC) No 765/2008)

Defining, harmonizing and building consistent accreditation services in Europe.

Maintaining a **Multilateral Agreement (MLA)** between accreditation activities and reciprocal acceptance of accredited conformity assessment services and results.

EA MLA incorporates EU & EFTA NABs, Council of Europe and EU neighborhood policy NABs (49 NABs).

EA MLA means for the signatories:

- The **equivalence** of the accreditation systems operated by the signatories (peer-evaluation system);
- The **reliability** of the results provided by CABs accredited by the signatories for the relevant scope.

**EA MLA provides trust on conformity assessment results to all interested parties (e.g. reports and certificates) provided by CABs accredited by EA MLA signatories.**



## International Laboratory Accreditation Cooperation (ILAC)

**International association** of NABs (6 regions + 110 members)

Defining, harmonizing and building consistent international accreditation services.

Maintaining a **Mutual Recognition Agreement (MRA)** between accreditation activities (Testing, Calibration, Medical laboratories, Inspection bodies) and reciprocal acceptance of accredited conformity assessment services and results.



International  
Laboratory  
Accreditation  
Cooperation

## International Accreditation Forum (IAF)

**International association** of NABs (6 regions + 95 members + 27 associations)

Defining, harmonizing and building consistent international accreditation services.

Maintaining a **Multilateral recognition Agreement (MLA)** between accreditation activities (Products and Management System Certification bodies) and reciprocal acceptance of accredited conformity assessment services and results.

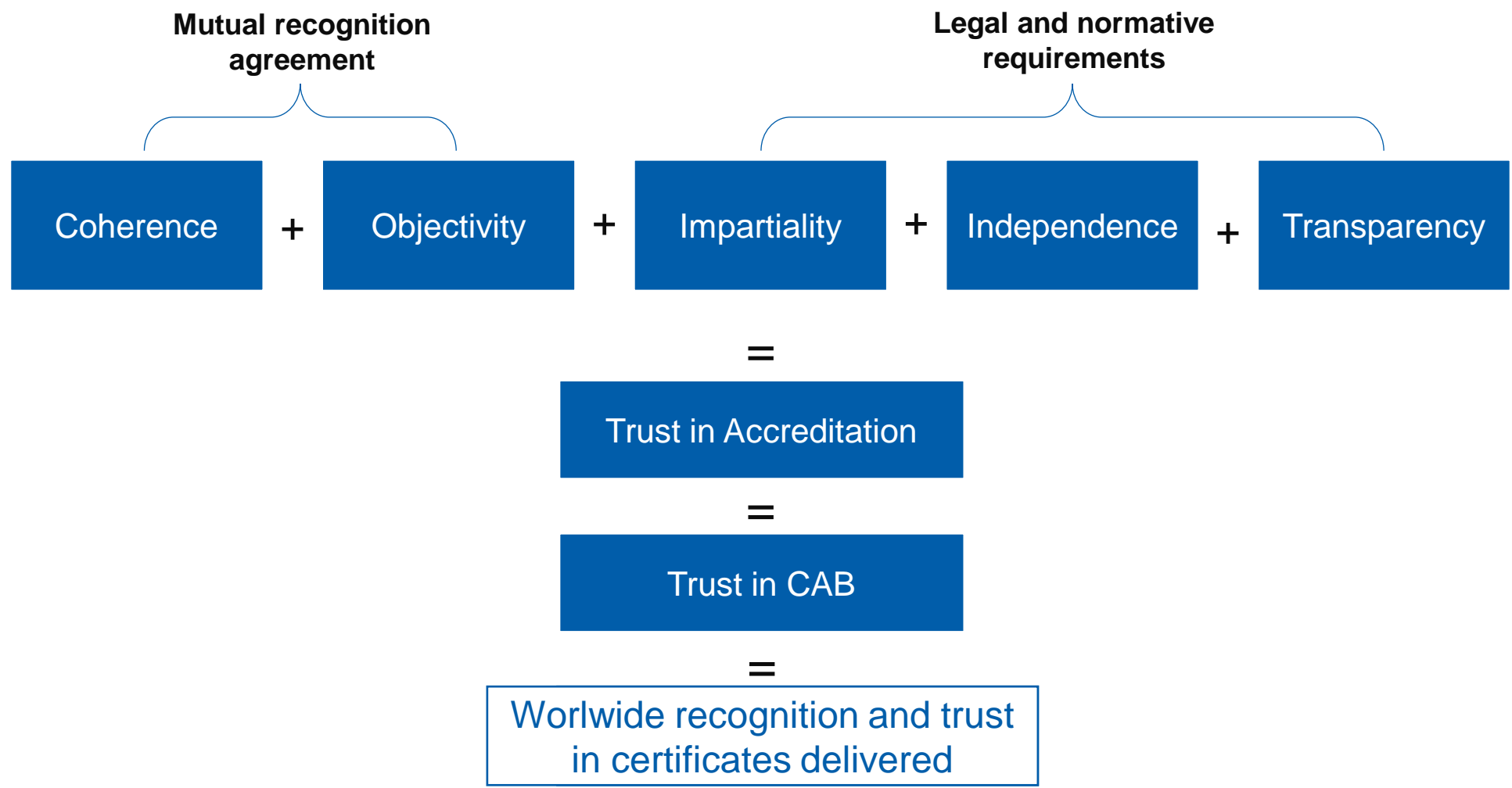


International  
Accreditation Forum

**ILAC MRA and IAF MLA provide trust on conformity assessment results to all interested parties (e.g. reports and certificates) provided by CABs accredited by signatories.**

**Accreditation** is providing the following **benefits** to accredited CABs:

- Verification of conformity with standards and regulations,
- Demonstration of competence,
- Assessment of management system and risk,
- Guarantee of independence and impartiality,
- Facilitates cross border trade (trade agreements),
- Minimize product failure and recalls,
- Delivers public confidence.





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D'ACCREDITATION ET DE  
SURVEILLANCE



L'accréditation OLAS : La preuve de la compétence



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www.ilnas.lu



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

## Office Luxembourgeois d'Accréditation et de Surveillance (OLAS):

- Created in 2001
- 6 internal staffs
- 16 members in the accreditation committee part of the decision making process
- 140 experts (QMS and technical) to cover all the domains accredited by OLAS
- 60 accredited CABs
- Signatory of EA, ILAC and IAF multilateral recognition agreements



**OFFICE LUXEMBOURGEOIS  
D'ACCREDITATION ET DE  
SURVEILLANCE**

**Questions ?**

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*Thank you · Merci · Danke*



# Standardization and conformity assessment

Lucas Cicero, ILNAS/OLN, Project officer  
12/06/2024



## Defined in Regulation (EU) No 1025/2012 on European standardization

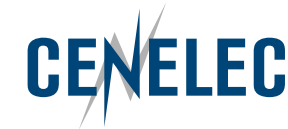
*“ ‘standard’ means a technical specification, adopted by a recognised standardisation body, for repeated or continuous application, with which compliance is not compulsory”*

**(1) technical specification:**

document that prescribes requirements to be fulfilled by products, services, processes, competencies, etc.

**(2) recognised standardisation body:**

standard publication is limited to



**(3) repeated or continuous application:**

aims to cover well established activities

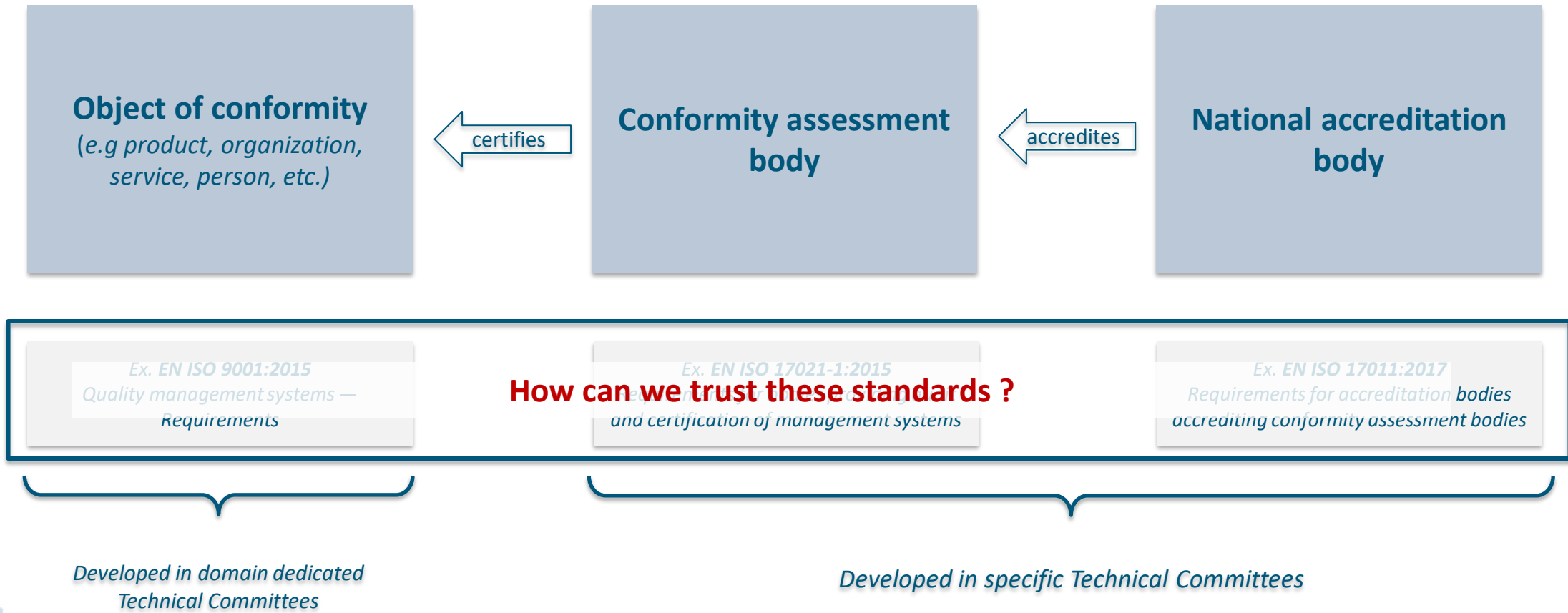


**(4) compliance is not compulsory:**

up to you to follow them... or not !



Role of standard in the conformity assessment landscape



## How can we trust standards content ?

- **Standardization has legal framework in Europe**

The « [REGULATION \(EU\) No 1025/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2012 REGULATION \(EU\) on European standardisation](#) » L 316/12 is currently the legal act in-force for the European standardization. It aims to define....

*« [...] rules with regard to the cooperation between European standardisation organisations, national standardisation bodies, Member States and the Commission, the establishment of European standards and European standardisation deliverables for products and for services in support of Union legislation and policies, the identification of ICT technical specifications eligible for referencing, the financing of European standardisation and stakeholder participation in European standardisation »*

### Content

- Clear **definition** of standard
- **Founding principles** of standardization
- **Who are able to create standard in EU**
- Principles of **European standard creation**
- **Standards « harmonization »** inside EU
- The **Annual Work Programme on Standardization**
- The specific role of ICT
- Standardization funding



Practical rules are defined by recognized European standardization organizations

### How can we trust standards content ?

- Standardization activities meet several attributes of trust

Coherence

Transparency

Openness

Quality

Consensus

Independence

*Impartiality*

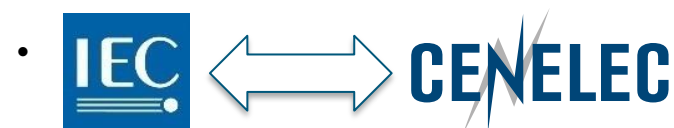
*Objectivity*

### Coherence... between international, European and national standardizations

- **European standardization rules are similar to international ones**
  - *CEN/CENELEC Internal Regulations = ISO/IEC Directives – Part 2*
- **Agreements between European standardization organizations and international ones**



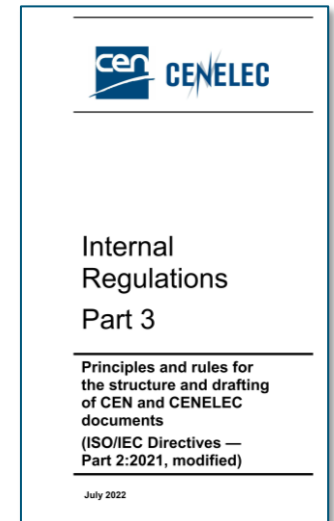
*Vienna agreement*



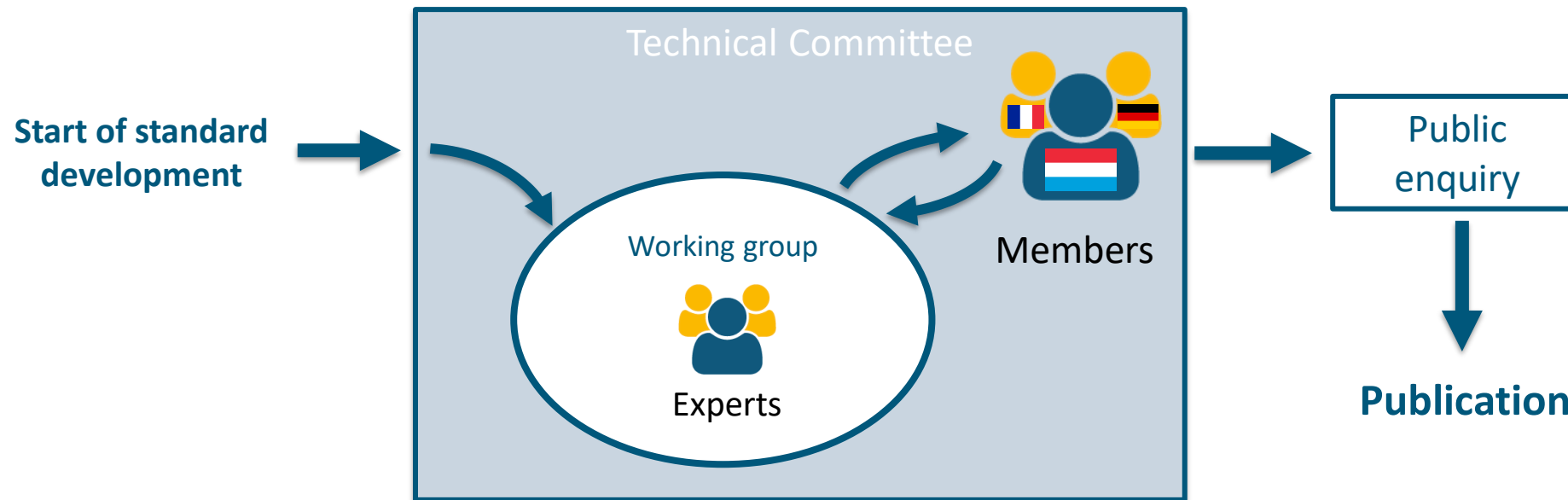
*Frankfurt agreement*

- **Notification of standard projects between national standardization organizations, but also to European organizations**
  - *Defined in Regulation (EU) No 1025/2012*
- **Yearly publication of work programmes**

→ Standards applicability is worldwide and duplication of work is avoided



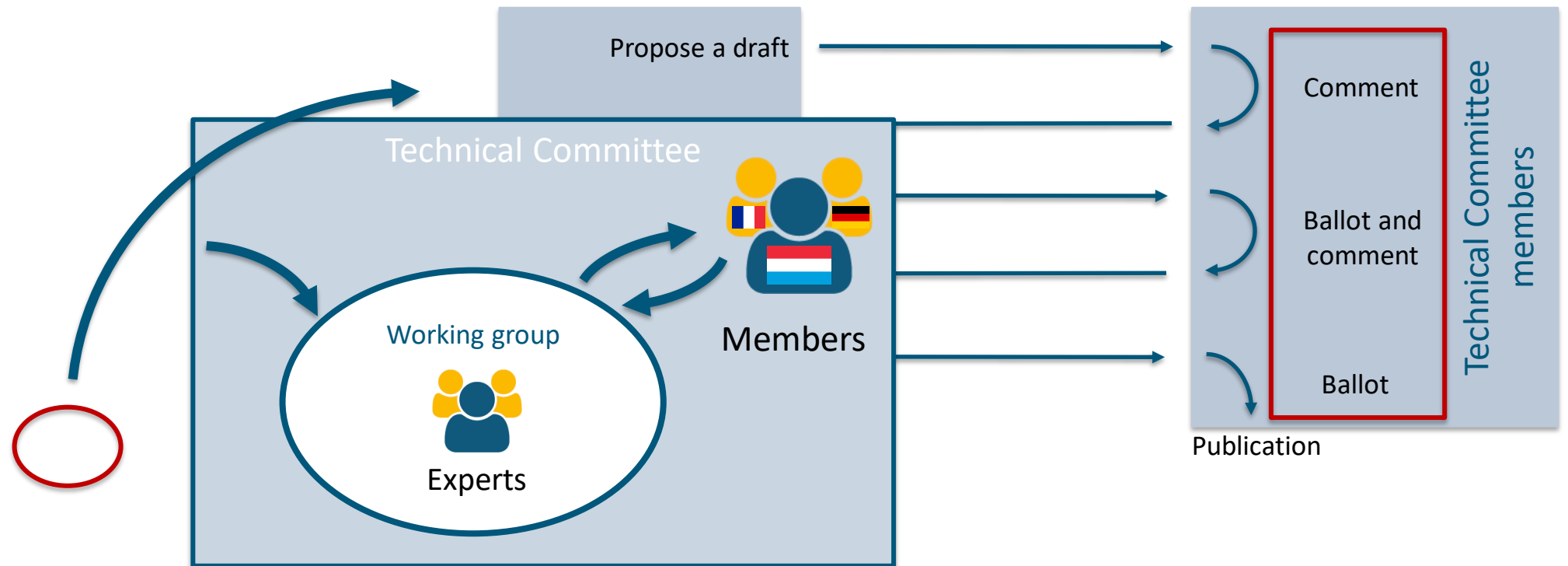
## Transparency... during the process of creation of standards



→ Rules and roles are **described** within the *Internal Regulations* of recognized standardization organizations and disclosed

→ All standards are issued in a common way and more easily accepted

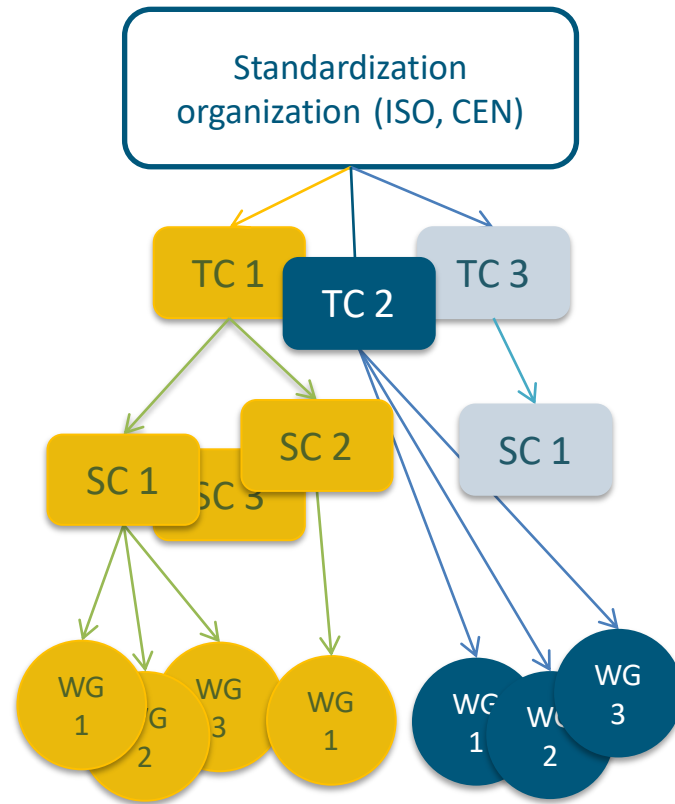
## Transparency and consensus... of the decisions



→ For each standard development, results and comments are recorded, and final decision is based on known criteria

→ Standards content is accepted by all stakeholders contributing to standard development

## Quality... inside the standard content

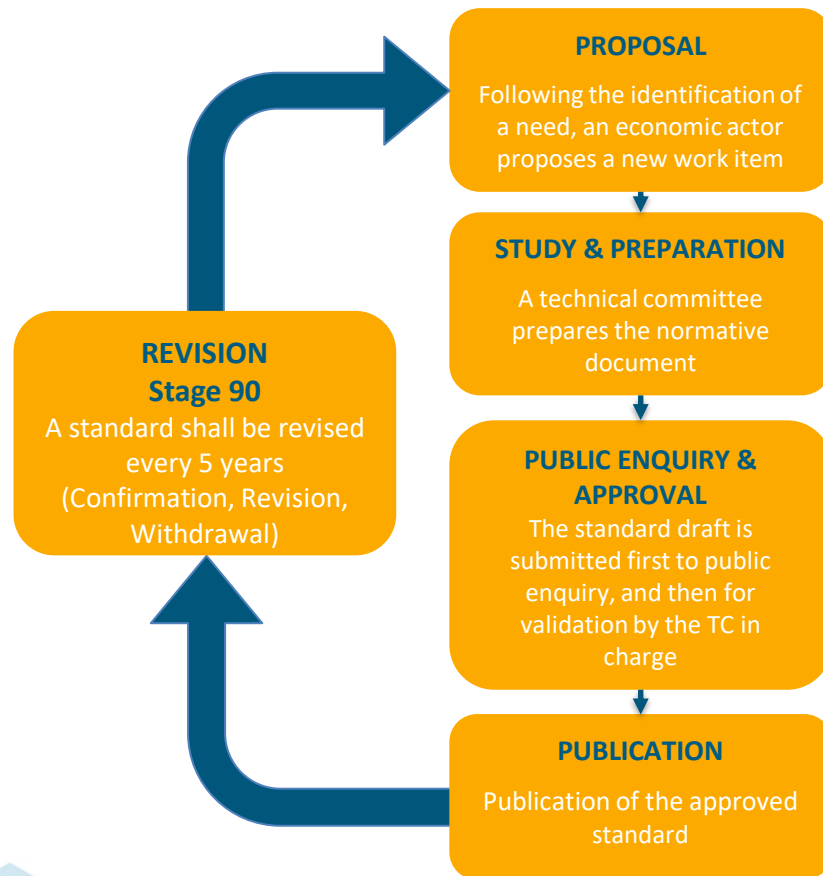


## Standardization organization structure

- **Presence of several Technical Committees and Subcommittees, covering specific domains**
  - *e.g. ISO/TC 207/SC 1 - Environmental management systems*
- **Presence of Joint Technical Committee**
  - *e.g. ISO/IEC JTC 1 - Information technology*
- **Tackling very specific topic**

→ Standards are drafted in a domain specific ecosystem which act as a catalyst

## Quality... inside the standard



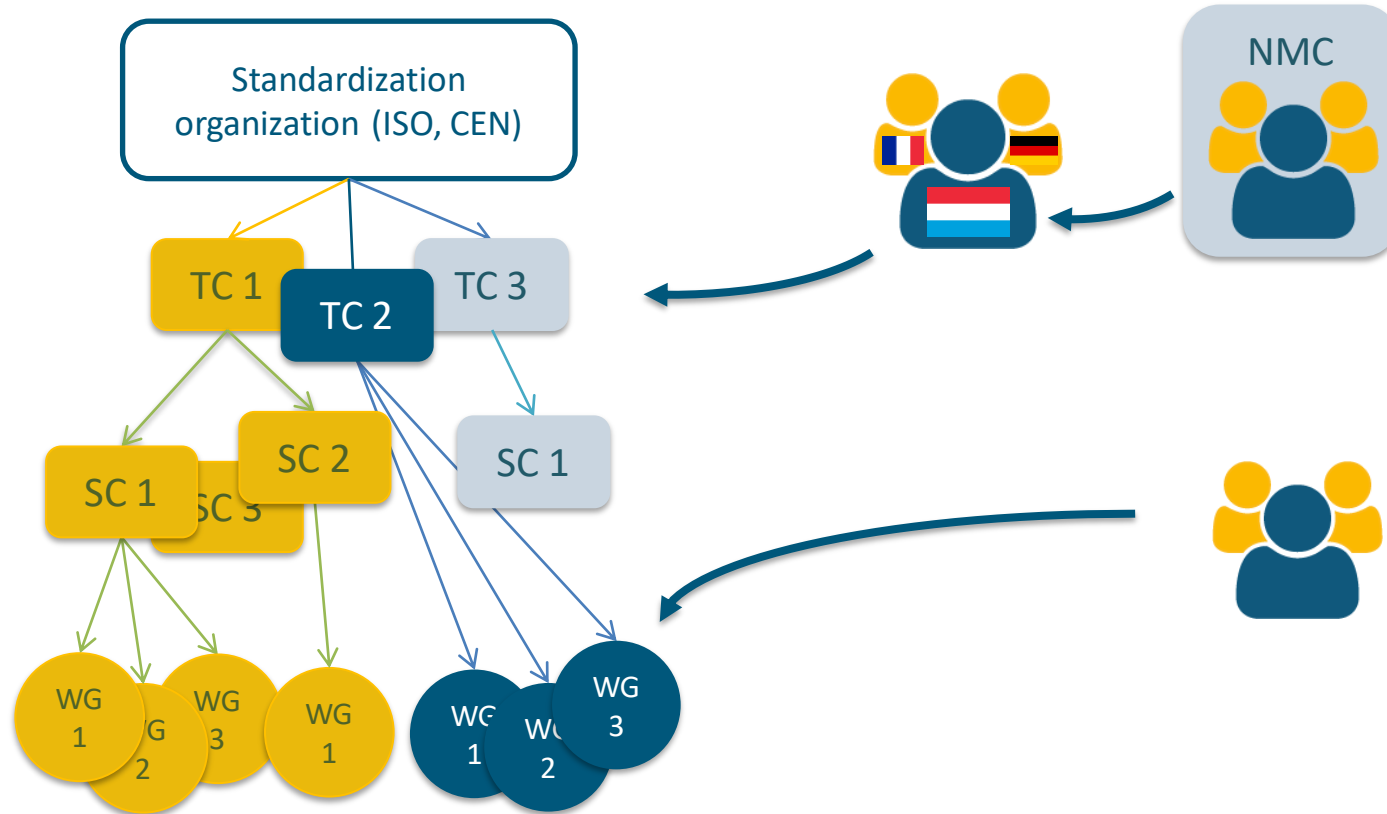
## Standardization process

- As final step, **the public** is consulted to **approve and comment** the draft standard
- Standards are submitted to **revision vote every 5 years**
  - Decision can go to the direction of **revision, confirmation or withdrawal**
- Revision can be triggered by members if judged necessary

→ Standards content is always relevant and up to date



## Quality, openness and independence... via the participation



## National delegates

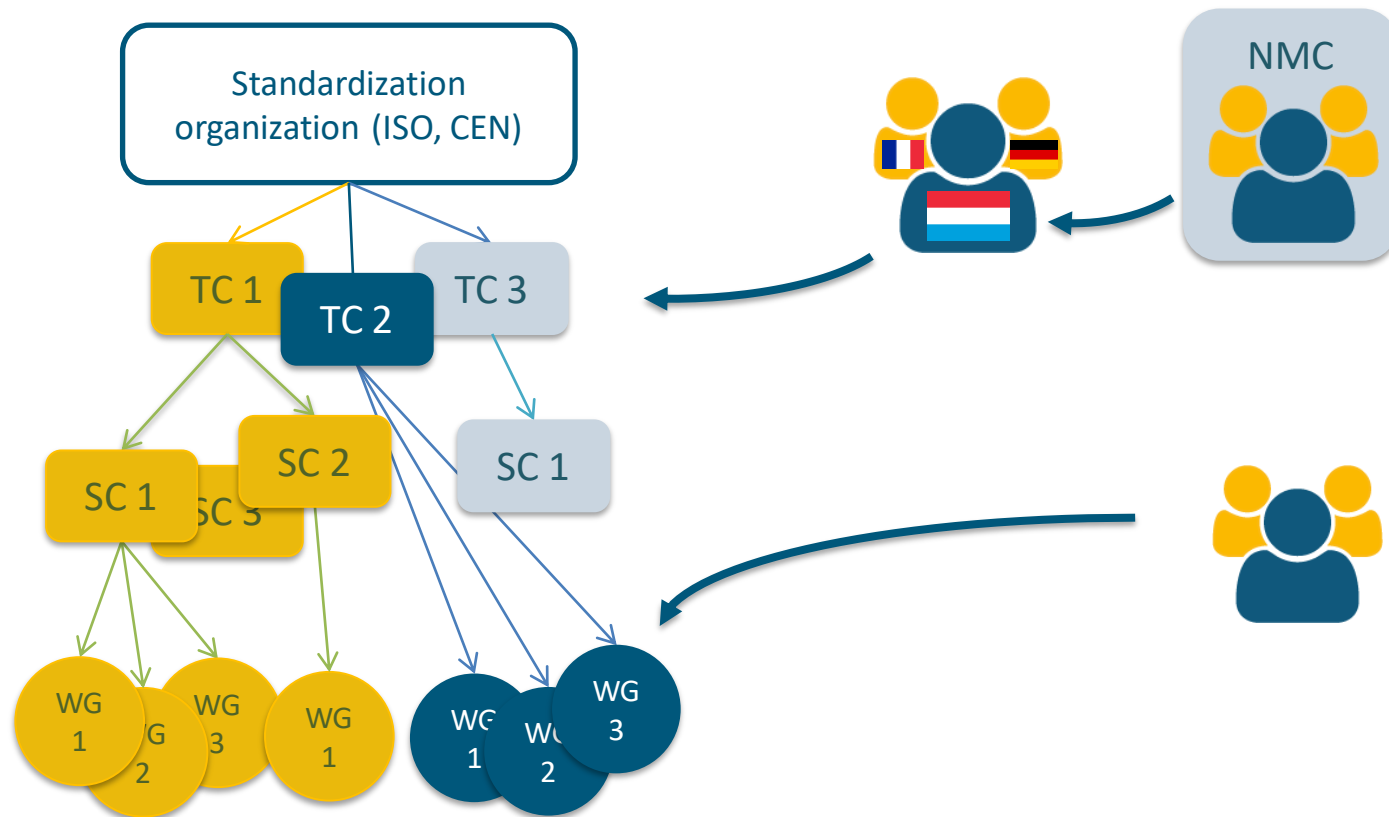
- Participation of organizations through the **National Mirror Committee**
- National interests are **defended** at this step
  - **Goal** : review and comment the drafted documents, and set the position of Luxembourg
- **Participation promoted** by NSO and has to **include** all stakeholders (industrials, SMEs and governmental institutions)

## Experts

- No national interests **defended** at this step
  - **Goal** : best translation of the state-of-the-art inside a standard
- **Open to everyone** who has expertise
- **Participation promoted** by NSO and has to **include** all stakeholders (industrials, SMEs and governmental institutions)

→ Expertise and inclusiveness of participating members allow to translate every standpoint within standard

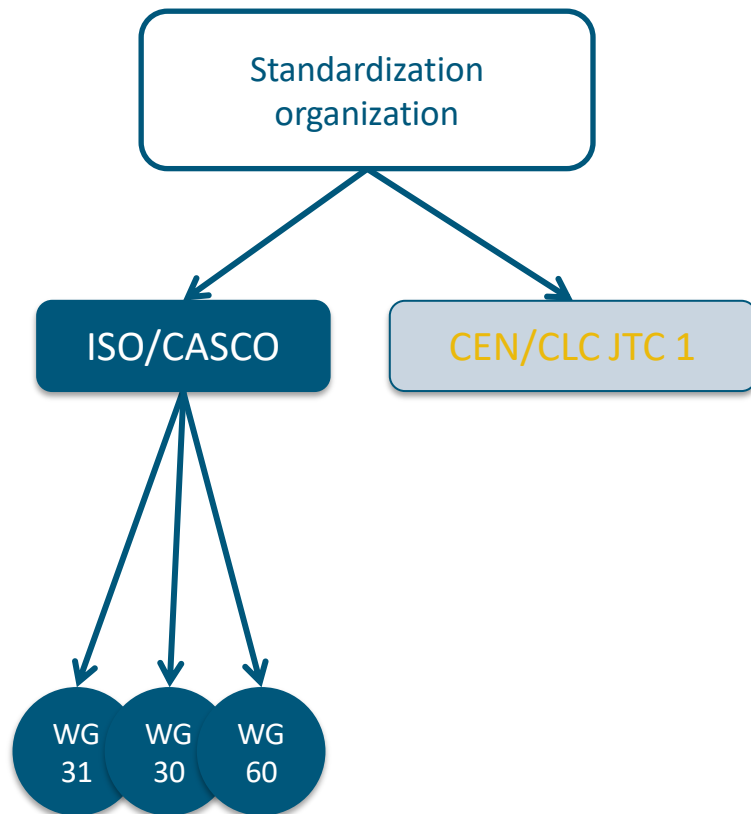
## Quality, openness and independence... via the participation



## In Luxembourg

- Participation is **open to everyone**
- **Registration process is disclosed** on [portail-qualite.lu](http://portail-qualite.lu)
- To maintain openness and independence, **a decision board** takes place constantly in order to review the applications
- By participating to standardization, **national delegates has dues and rights**, available in ILNAS' policy related to participation to standardization
- **Participation register** is available on [portail-qualite.lu](http://portail-qualite.lu) website

## Quality, openness and independence... via the participation



ISO/CASCO

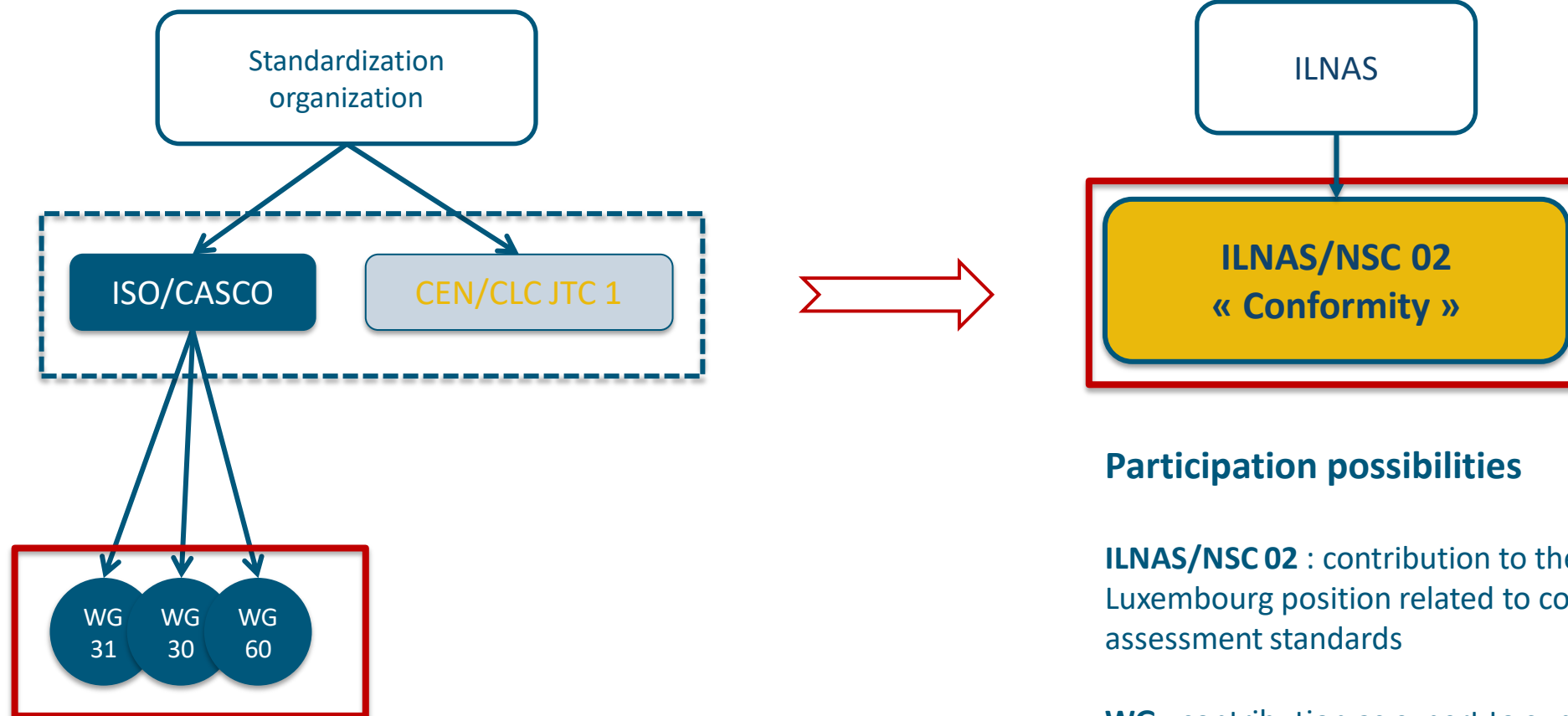
International technical committee in charge of the development of CASCO Toolbox (family of standards ISO 17000) supporting mostly accreditation activities



CEN/CLC JTC 1

European joint technical committee, supporting the transposition of ISO/CASCO standards to European standards

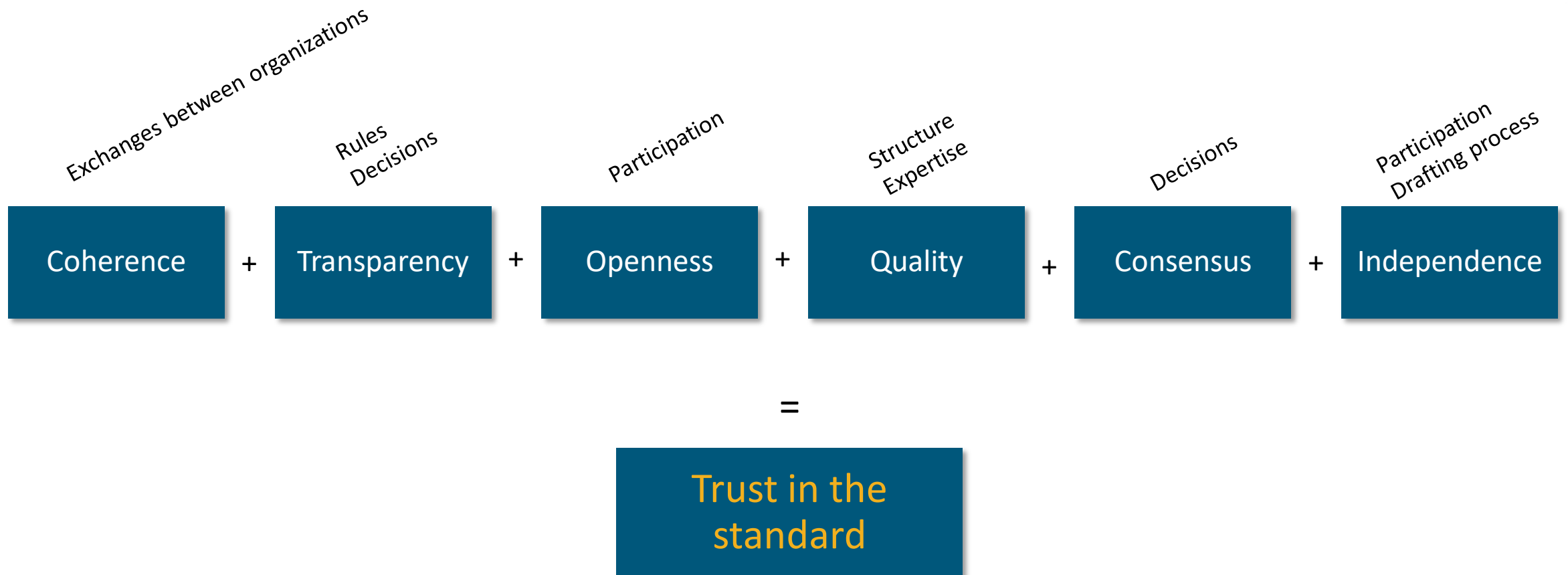
## Quality, openness and independence... via the participation



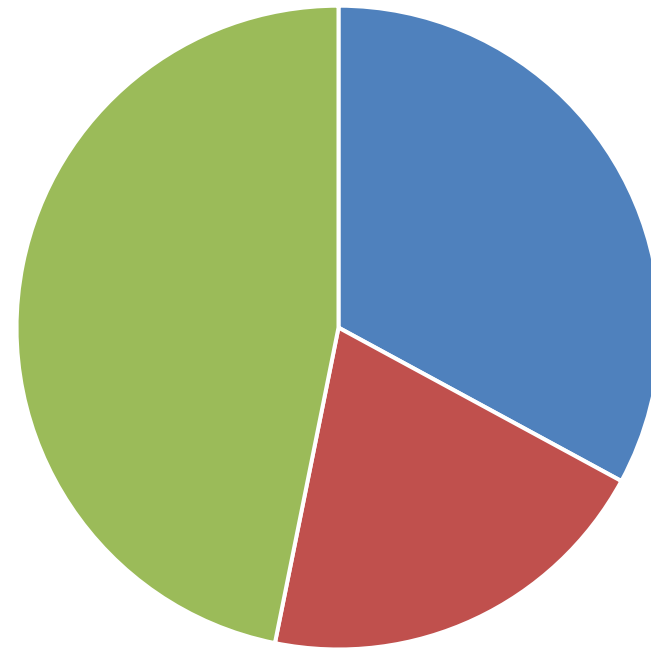
## Participation possibilities

**ILNAS/NSC 02** : contribution to the definition of Luxembourg position related to conformity assessment standards

**WG** : contribution as expert to support drafting activities of international standard



## Trust in economy



■ Accreditation ■ Standardization ■ ?



Thank you for your  
attention

Question ?

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ACCREDITATION

CONFIANCE  
NUMÉRIQUE

SURVEILLANCE  
DU MARCHÉ

MÉTROLOGIE

NORMALISATION

ILNAS

ANEC

# Technical Report Conformity Assessment: Overview

12/06/2024, Natalia Vinogradova, ANEC GIE

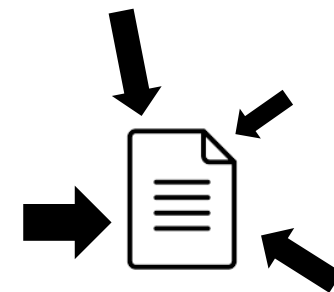






### Main information

This report provides an overview of the conformity assessment process, related European legislation, and associated standards. It highlights the importance of conformity assessment for the economy of trust and raises awareness on the technical standards that act as widely recognized good practices for the domain.



### Purpose

- Evangelization of the concept of conformity assessment
- Explaining how conformity assessment helps building trust
- Pointing to relevant technical committees and standards
- Encouraging to join the standardization efforts

### What aims?

- Point out various elements in the ecosystem of conformity assessment
- Identify legal framework
- Explain principles underlying the conformity assessment and standardization process
- Fit all the element together

**Part 1****Introduction to conformity assessment**

- Introduction to conformity assessment
- Conformity assessment and trust
- European legal framework

**Part 2****Conformity assessment concepts**

- Conformity assessment ecosystem
- Conformity assessment activities
- Who performs conformity assessment?
- Accreditation

**Part 3****Standardization for conformity assessment**

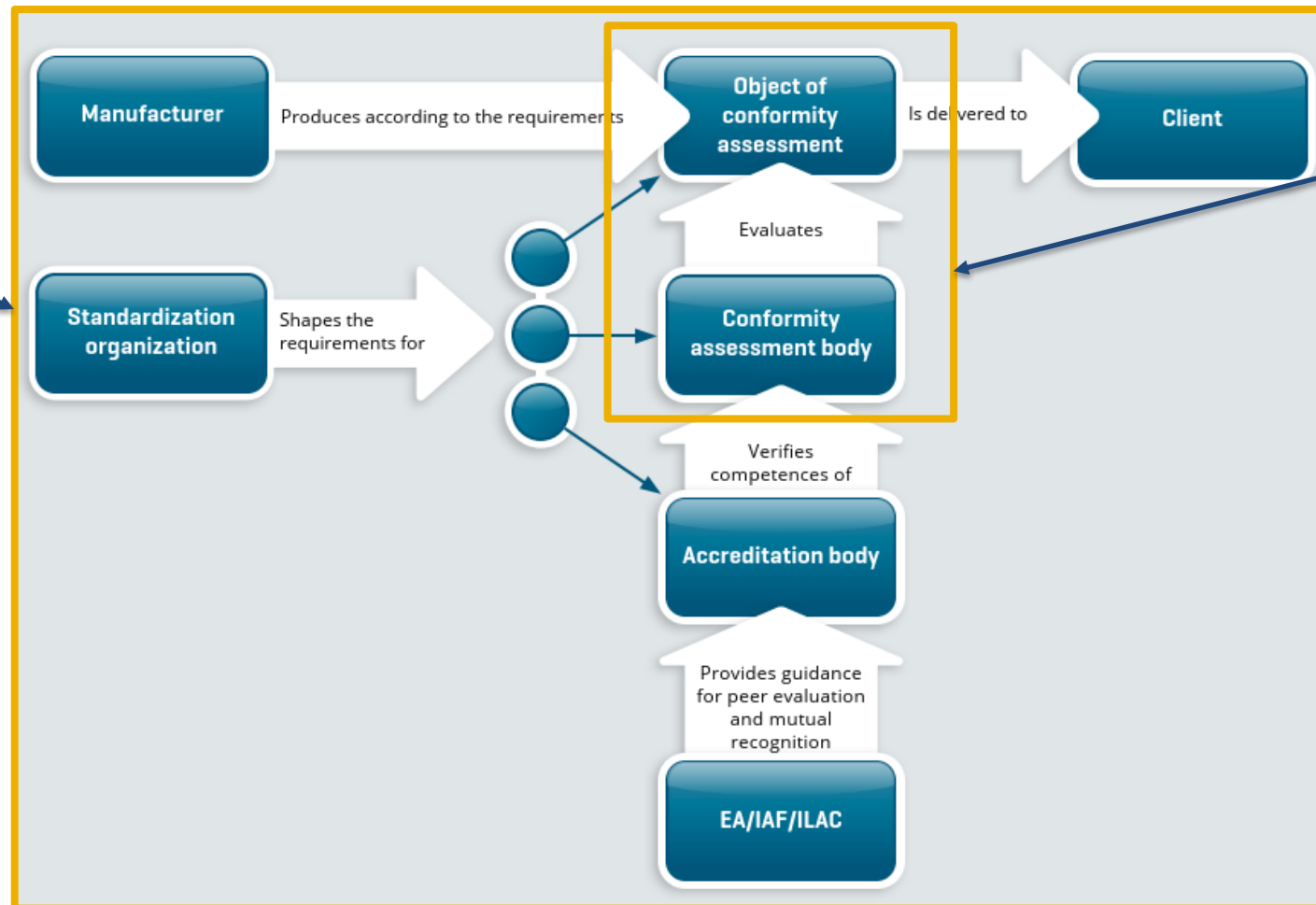
- Standardization ecosystem
- Principles related to writing conformity assessment standards
- Classification of conformity assessment standards
- Examples of standards for conformity assessment, including accreditation

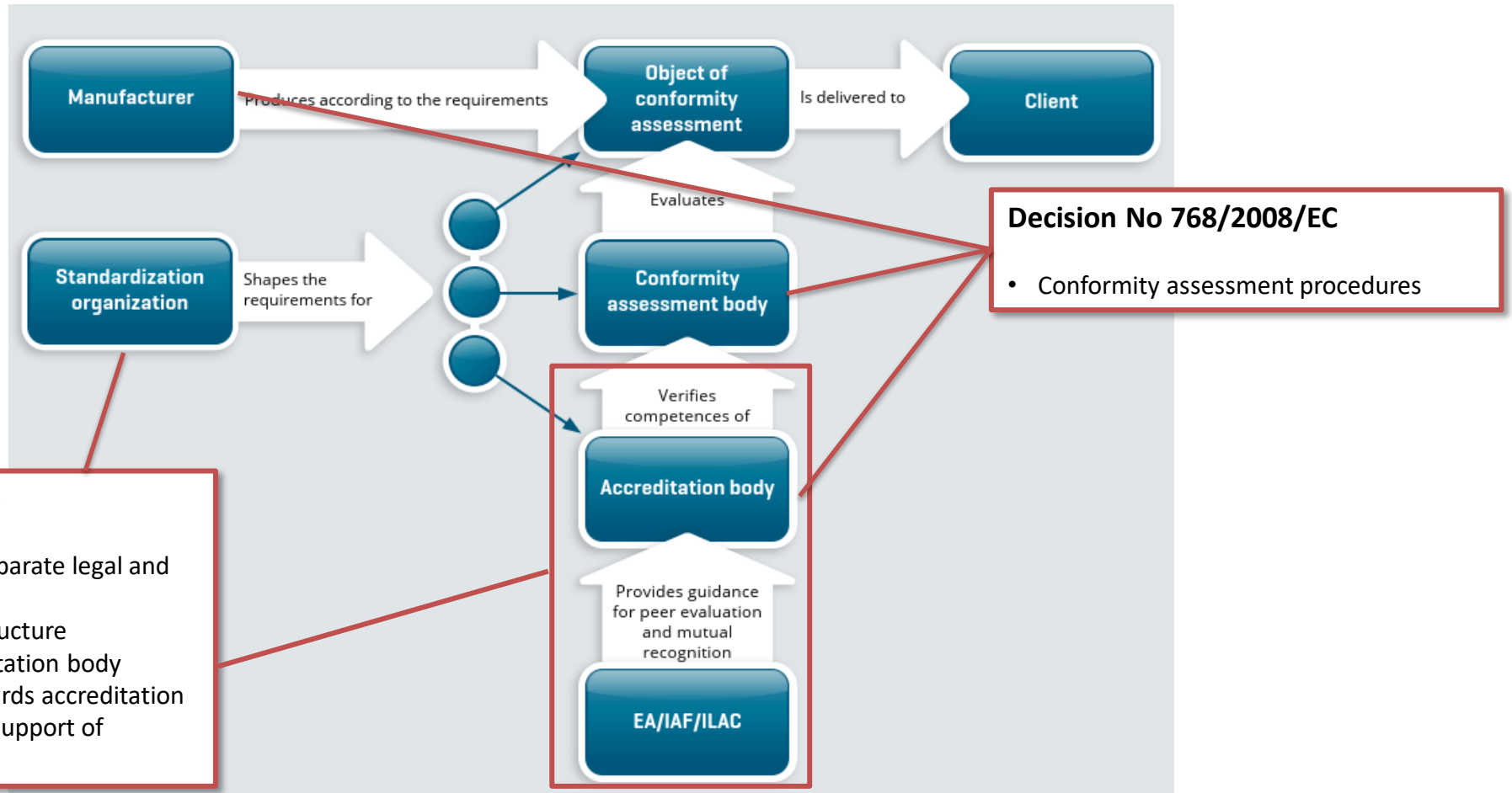
**Part 4****Standardization opportunities in Luxembourg**

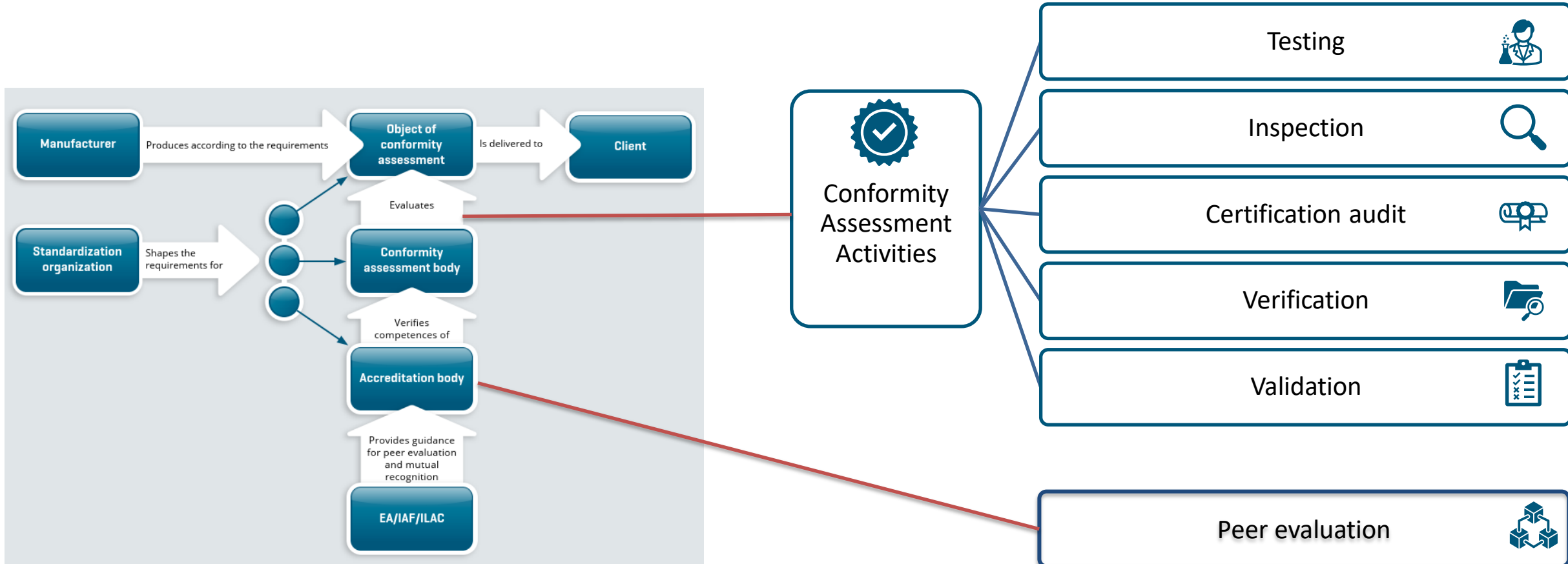
- How to access the standards
- How to get involved in standards development

Broad perspective

Narrow perspective

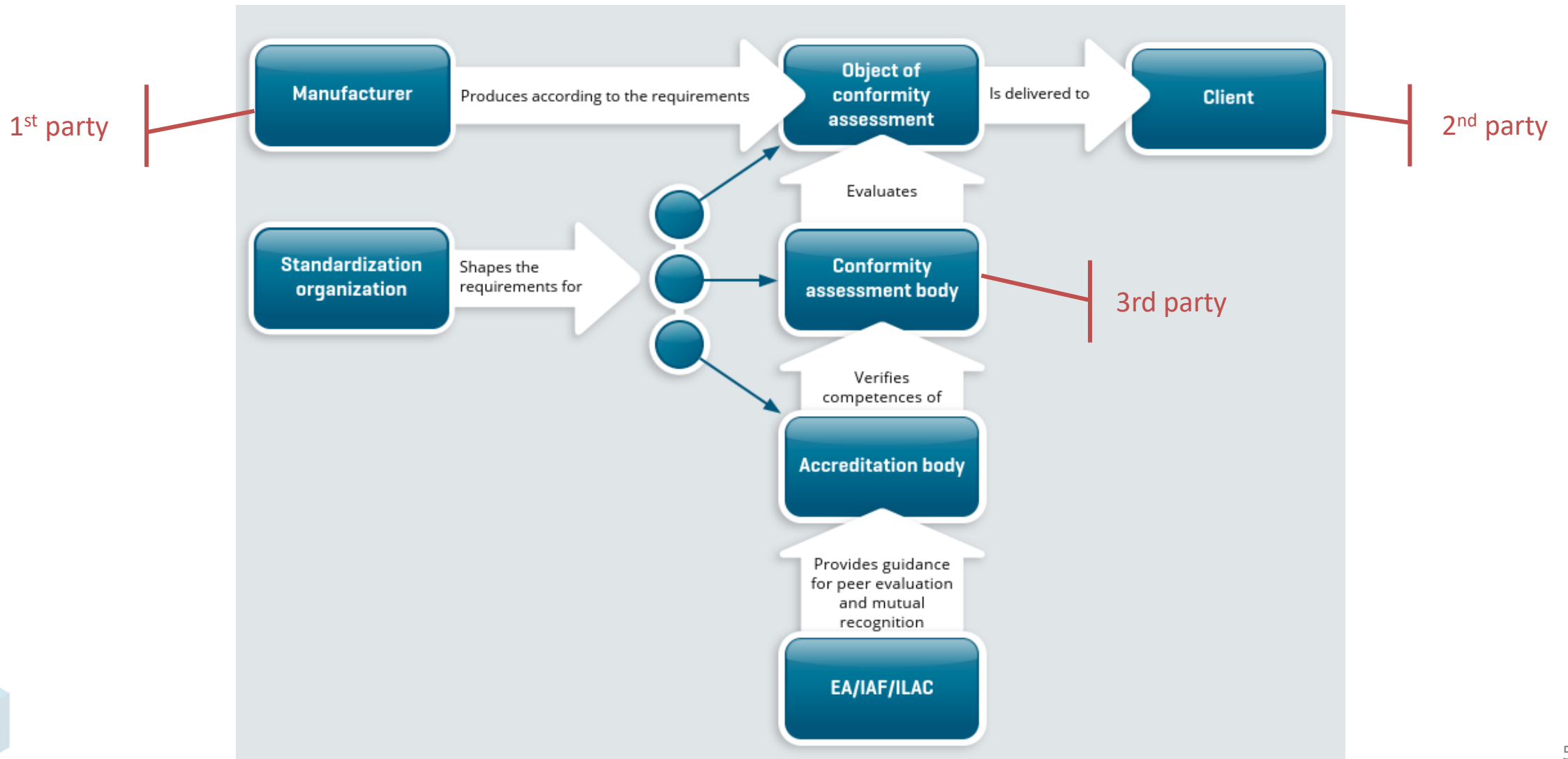


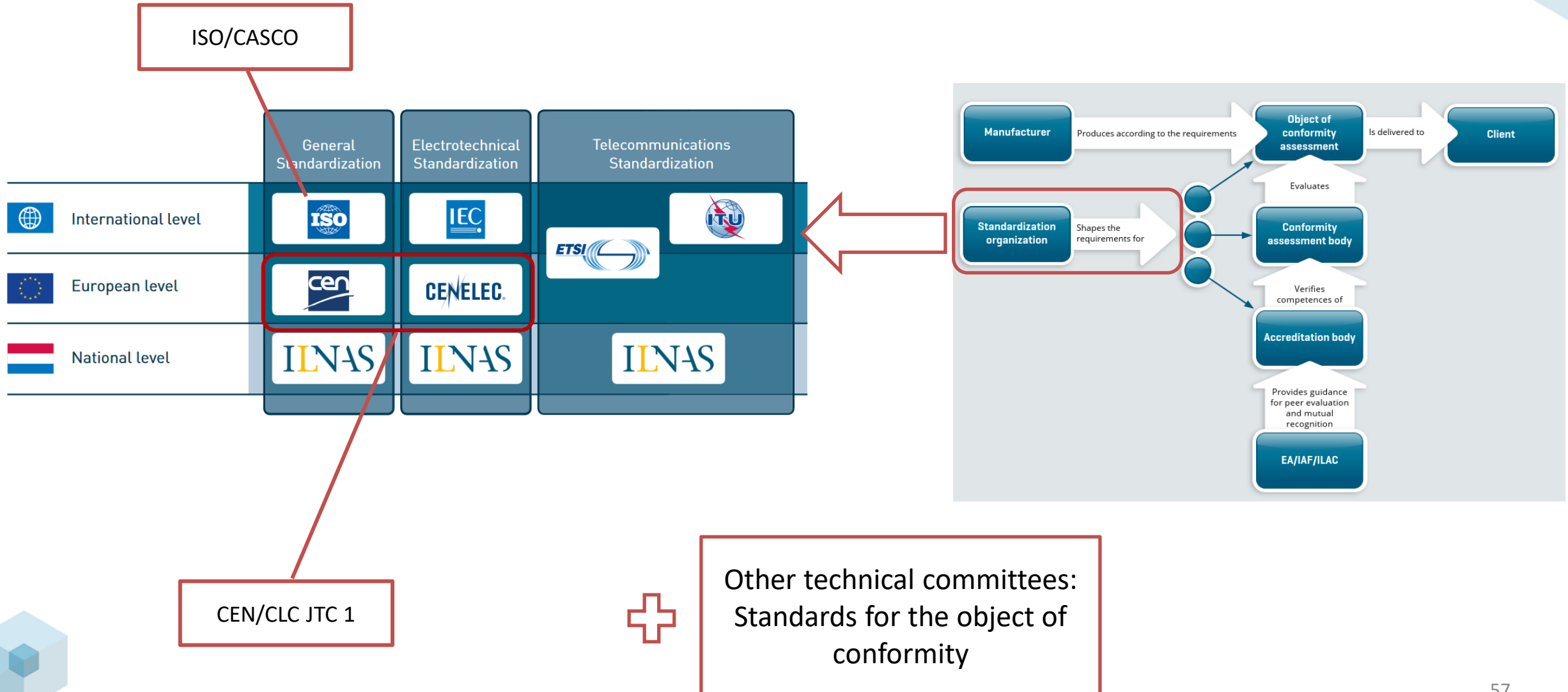


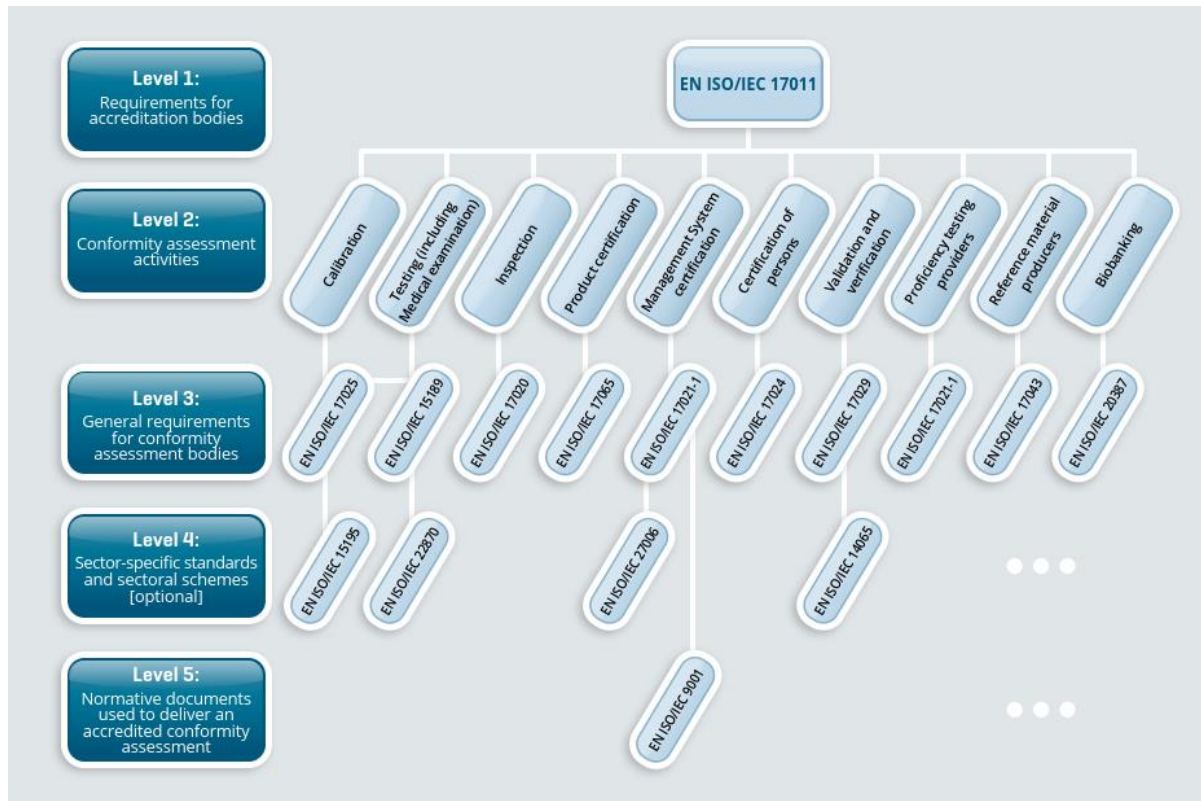


# Conformity Assessment: Overview

Who can perform conformity assessment activities?

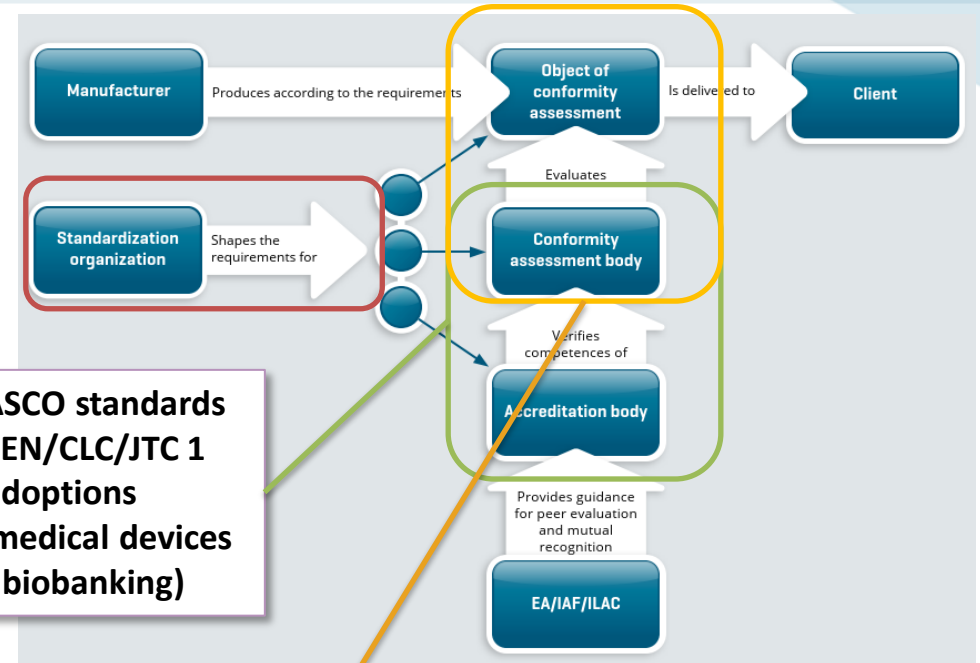




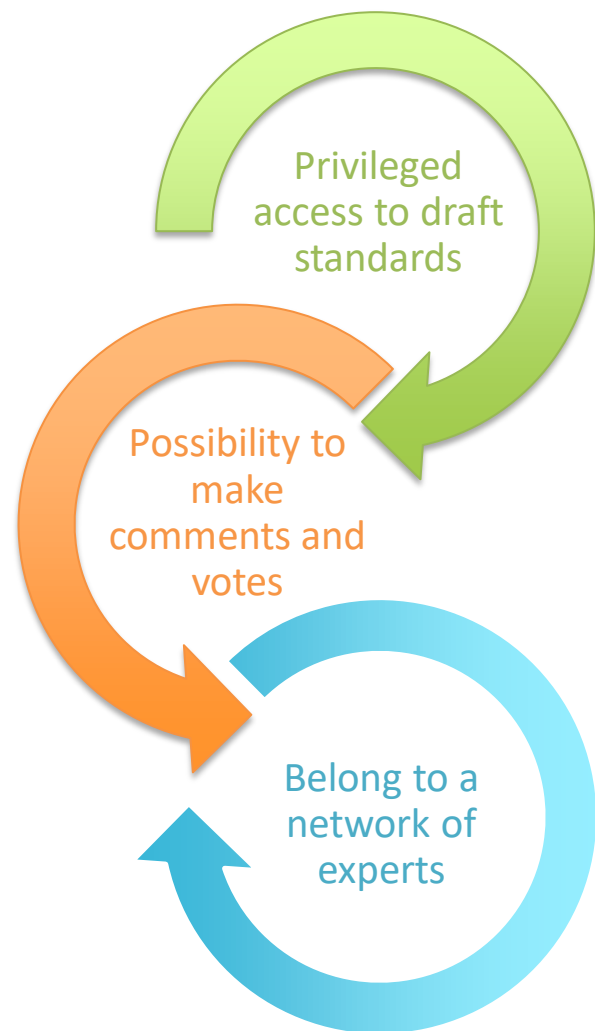


ISO/CASCO standards and CEN/CLC/JTC 1 adoptions (aside medical devices and biobanking)

Other sector-specific technical committees







### Consulting and purchasing standards

- Reading stations
- e-Shop

### Who can participate?

Open to all socio-economic actors in Luxembourg

### Costs of participation?

Registration is free-of-charge

### How to register?

Registration is done using [ILNAS/OLN/F001a](#) form (Initial registration) or [ILNAS/OLN/F001b](#) form (Additional registration).



### NSC 02 Conformity

- ISO/CASCO
- CEN/CLC/JTC 1



## Main takeaways of the conformity assessment report

- **Know the importance of conformity assessment and related technical standards**
  - Understand the ecosystem of conformity assessment
  - Know how conformity assessment benefits from standardization
  - Know who is developing standards related to conformity assessment and accreditation
  - Follow their work, their evolution
  - Join them as delegate to
    - Rework published standards that are under revision
    - Propose new standards and lead projects
    - Shape new standards that are in project form
  
- **Know what services ILNAS and ANEC GIE can offer to support you**
  - Coach you as a delegate
  - Serve as an interface to submit comments

## DON'T HESITATE TO:

- **DIVE INTO THE DOCUMENT!**
- **CONTACT ILNAS or ANEC GIE PROJECT OFFICERS!**



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