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The European Federation of National Associations of Measurement, Testing and Analytical Laboratories

# Today’s view

"There is no **science** without **measurements**,
no **quality** without **testing** and
no **global market** without **standards**.”

European Commission**, Measurement and Testing, A European research area oriented activity, High Level Expert Group**

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# Today's view

## Global market & accreditation for EU

**Accreditation** is the last level of public control in the European conformity assessment system. Accreditation is designed to **ensure and attest that conformity assessment bodies** (e.g. laboratories, inspection or certification bodies) **have the technical capacity to perform their duties adequately**.

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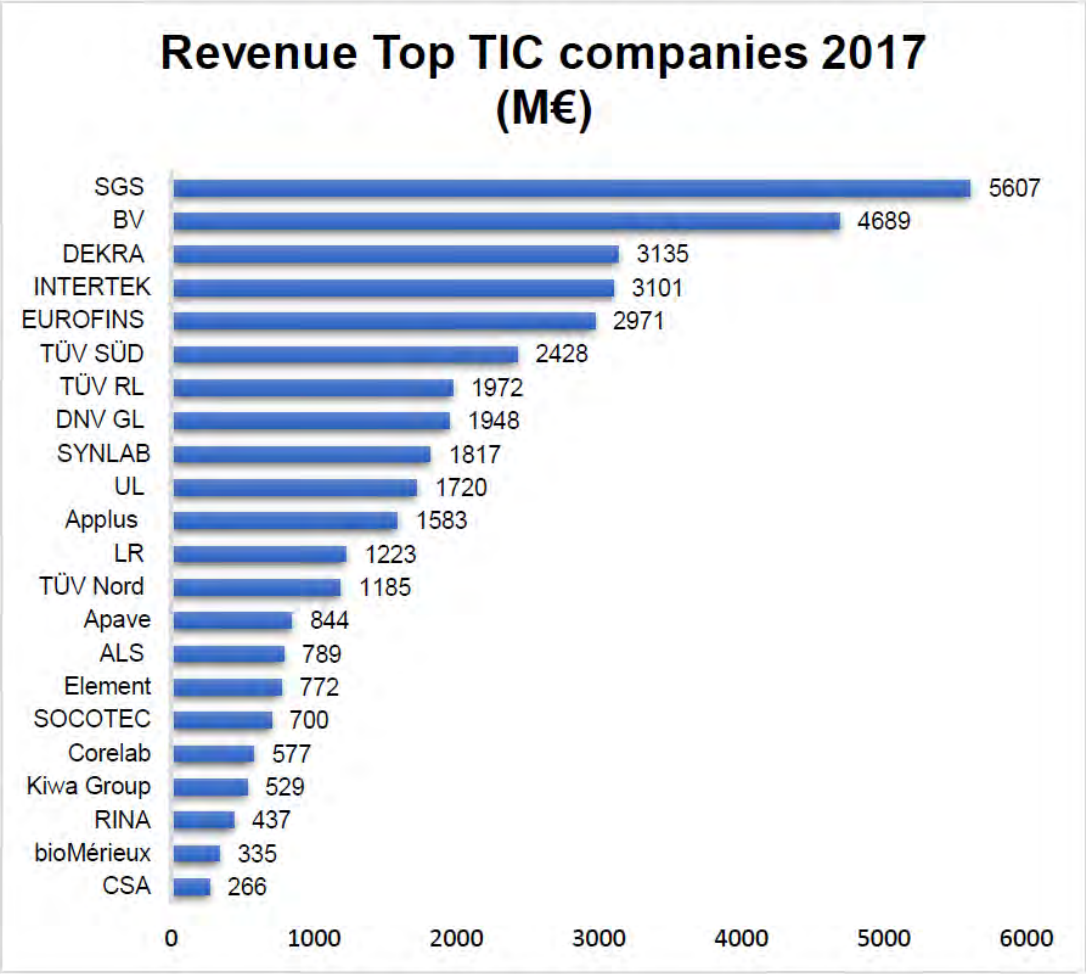
# What is the TIC Sector & why TIC?

**The independent Testing, Inspection and Certification (TIC) sector** provides conformity assessment services, either for regulatory reasons or good practice, protecting the public and the environment helping industries and governments.

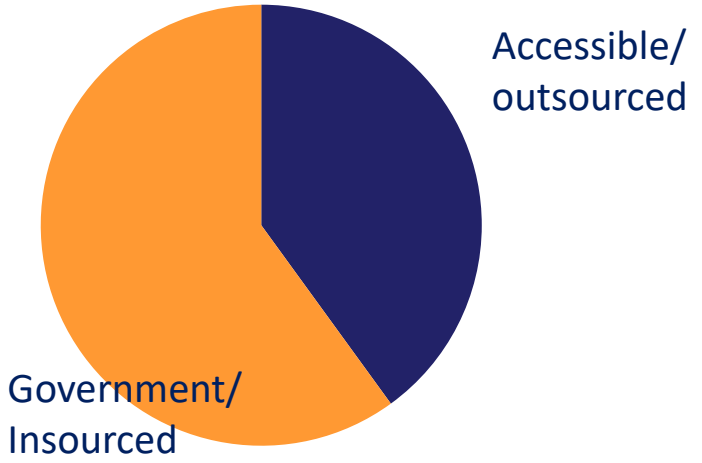
A **notified body** is an independent inspection and certification body which reviews the conformity assessment performed by the manufacturer and testifies to its correctness based on unified evaluation criteria.

The **independence and competence** of the notified body is guaranteed by means of national notification (normally mandated through accreditation) in the individual countries.

# TIC Market




The global TIC market is valued at around €200bn. It is expected to grow at a CAGR of 5.4% over the forecast period (2019-2024).




Source: Bureau Veritas Annual Report 2016 & CATALIST report 2016

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Grouping over 3 000 conformity assessment bodies and representing over 150 000 technical experts and laboratory practitioners.

***Full members***

- AUSTROLAB (Austria)
- BELAM (Belgium)
- BULLAB (Bulgaria)
- CROLAB (Croatia)
- EUROLAB-CZ (Czechia)
- EUROLAB Danmark (Denmark)
- Finntesting (Finland)
- EUROLAB France (France)
- EUROLAB Deutschland (Germany)
- Hellaslab (Greece)
- ICELAB (Iceland)
- ALPI (Italy)
- FENELAB (Netherlands)
- POLLAB (Poland)
- RELACRE (Portugal)
- ROLAB (Romania)
- FELAB (Spain)
- EUROLAB Sverige (Sweden)
- EUROLAB CH (Switzerland)

***Associate members***

- LEBLAB (Lebanon)
- MAKLAB (FYROM)
- TURKLAB (Turkey)

***International affiliates***

- ASCOLAB (Congo)
- NLA-SA (South Africa)
- NCSL (USA)

***Observer members***

- HMD (Croatia)

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Representing **since 1990**

Testing, Measurement and Calibration laboratories.

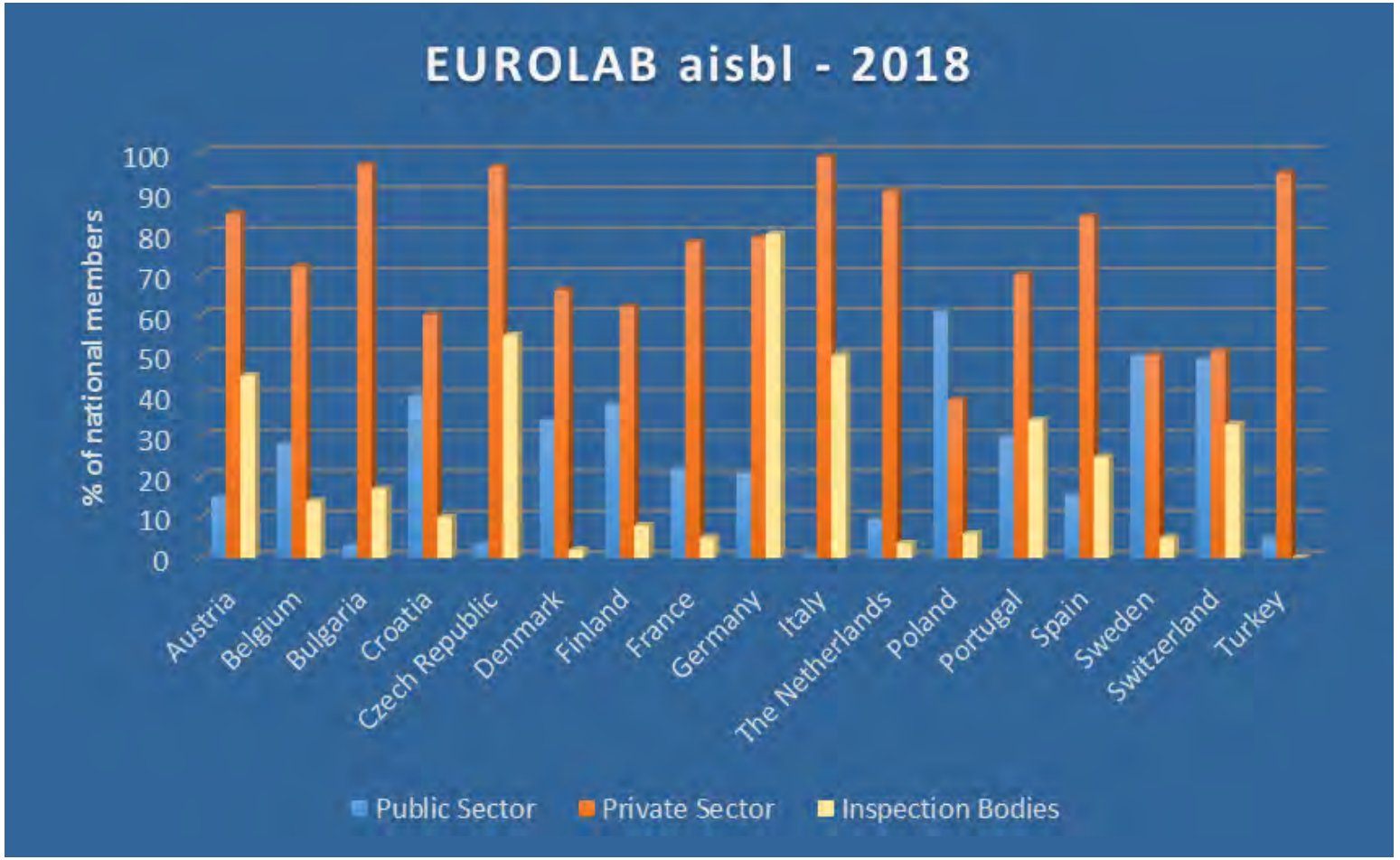
**19** Full Members,

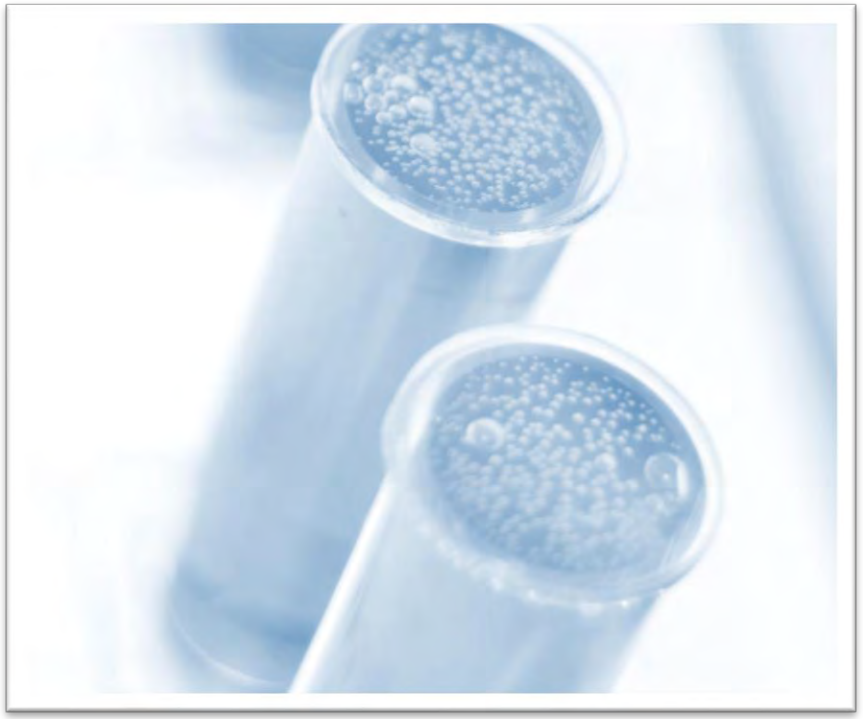
**3** Associated Members,

**1** Observer Member and

**3** International Affiliates

# EUROLAB Associations members





# EUROLAB members activity

**Environment**

**Metrology & Calibration**

**Consumer goods**

**Energy**

**Clinical**

**Forensic**

**Construction and built environment**

**Agriculture & Food**

**Manufacturing**

**Transportation**

**Pharmaceutical**

**Biomedical**

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# WHY EUROLAB? Key objectives

**Representation** by formulating and **voicing the opinion of laboratories** regarding economic, political and technical issues having a direct impact on laboratories' activities both **on the European scene and world-wide.**

Co-ordination by **interfacing with organisations having activities of interest to the laboratory community**, and striving to avoid duplication of efforts and activities.

EUROLAB should be the major **multisectorial and horizontal forum for the circulation and exchange of information and experience** in development of:

- **Test, measurement and analytical methods**
- **The use of test and analytical results in the implementation of legislation and directives, in product certification and acceptance, and in technical evaluations**
- **New measurement and testing techniques e.g. within the EC framework programmes, as well as**
- **Quality assurance measures**

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# EUROLAB 2.0 - Objectives

Communication

Cooperation

Creativity

# EUROLAB 2.0 – Targets

Membership development

Cooperation & networking

Image & communication

Knowledge transfer

Increasing influence

# EUROLAB Strategy (2020-2021)

## Objectives

- Representation of laboratories regarding political and technical issues on the European scene and worldwide
- Coordination by interfacing with European organisations striving to avoid duplication of efforts and activities.
- Exchange of information and experience
- Promoting cost-effective testing, calibration and measurement services, with adjusted accuracy and quality assurance

# Mid-term Policy

- support EUROLAB members´ interests – interfacing with accreditors – and to help them in technical, regulatory and quality management matters, aiming at simplification and international harmonisation of regulations concerning competence and performance of laboratories

- be the major EUROPEAN multisectorial forum for laboratory and conformity assessment services, making product certification and technical evaluation more visible in EUROLAB,

- become a major EUROPEAN focus point for laboratory intercomparisons and proficiency testing,

# Mid-term Policy

- act as important partner of the EC, EFTA and the standardisation institutes, participating in international organisations such as EA, ILAC and developing links with other relevant communities world-wide,

- use the EUROLAB network for public relations, and the provision of EUROLAB members expertise to customers for the benefit of economy and society.

# EUROLAB priority areas of focus for 2020

- Food legislation
- Calibration and metrology
- Cybersecurity and IoT
- Environment
- Medical devices
- Trade / mutual recognition
- Lab of the future

# Board members and advisors

President
Álvaro Silva Ribeiro

Vice-President
Kurt Ziegler

Vice-President
Paolo Moscatti

Secretary General
Drewin Nieuwenhuis

Treasurer
Bernd Kroon

José Luis Sanchez

Jean-Luc Laurent

**Advisors to the Board**

Ewa Bulska

Alexander Šafařík-Pštrosz

Pericles Agathonos

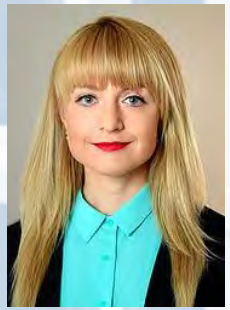
Ömer Güzel

**Associated Members**

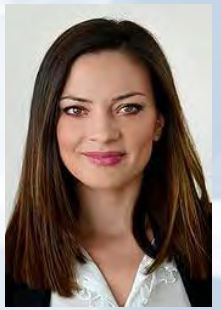
Irache Visiers

# Communication & Public Relations

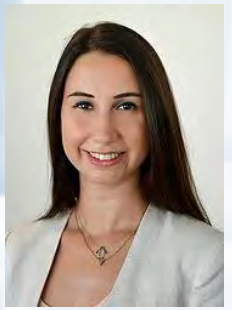
- Representation in the EU institutions;
- Monitoring selected EU legislation;
- Organising meetings and events;
- Publication of quarterly newsletter, position papers, communication materials;
- Cooperation with relevant stakeholders;
- Raising visibility within laboratory communities;
- Active involvement in EU projects.



Laura Martin



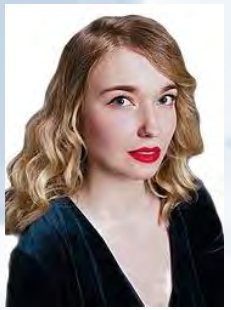
Diana Popa



Zeynep Yildizeli

**International Affairs Managers, Brussels**

Giuseppe Filiti



Oleksandra Domagalo

**Policy Officers, Brussels**

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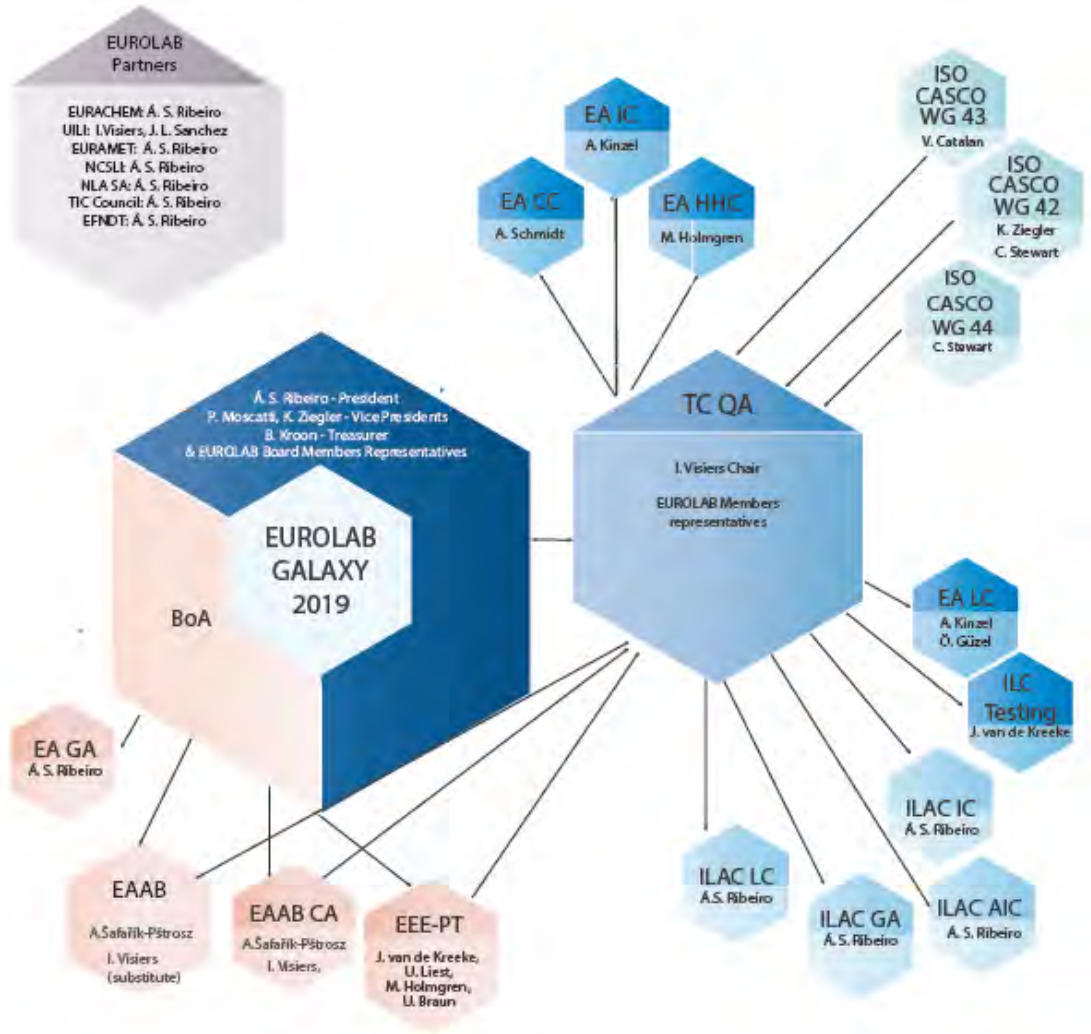
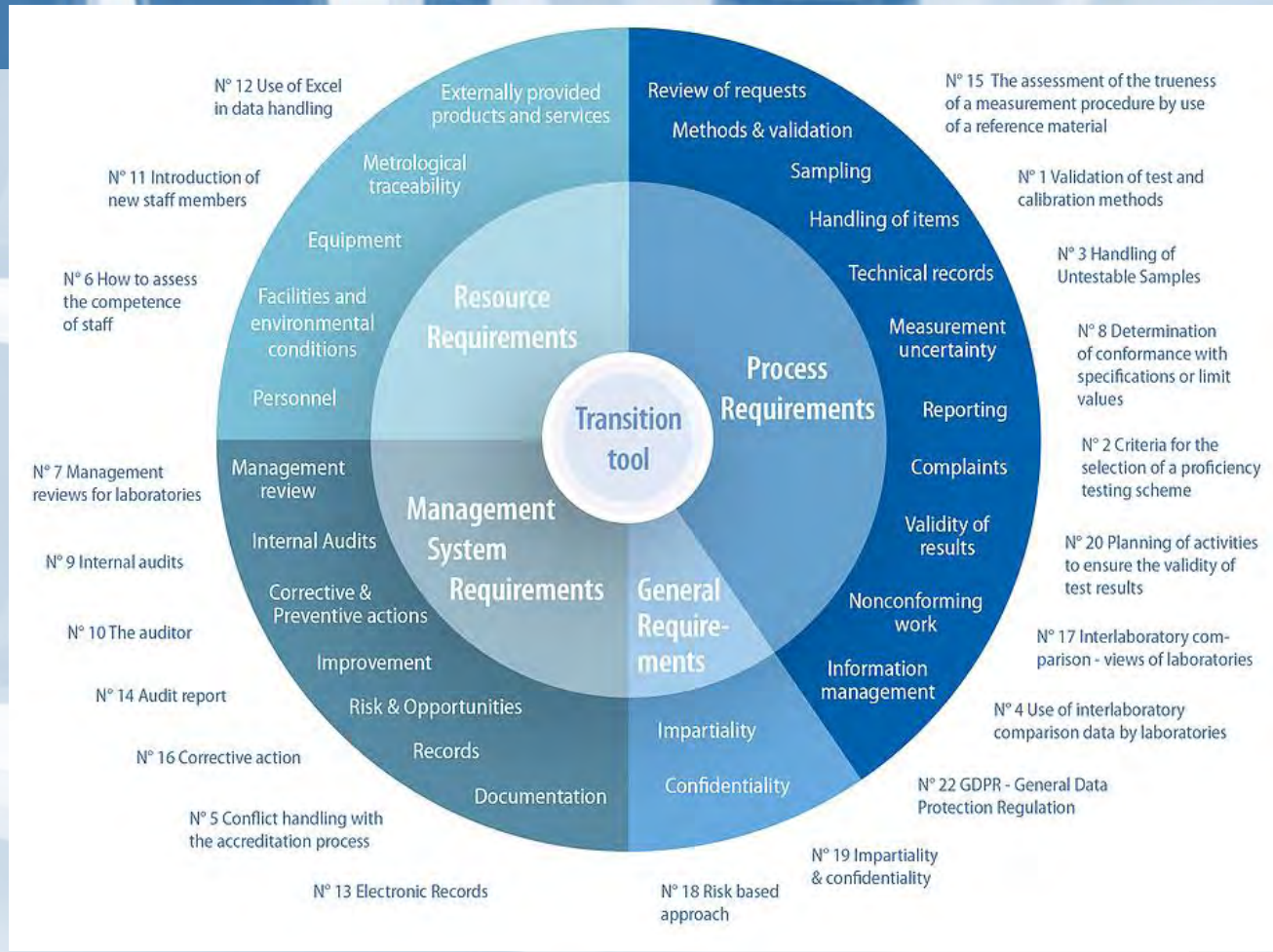
# External networking liaisons

- ILAC/IAF
- ISO Casco
- EA
- TIC COUNCIL
- EURACHEM
- EURAMET
- IMEKO
- UILI
- NLA-South Africa
- NCSL int.
- AOAC Europe



# Capacity building

EUROLAB cookbooks are short documents on quality issues to help laboratories comply with ISO/IEC 17025.




**All the Cookbooks are available on the EUROLAB website:**

https://www.eurolab.org/copy-of-publications

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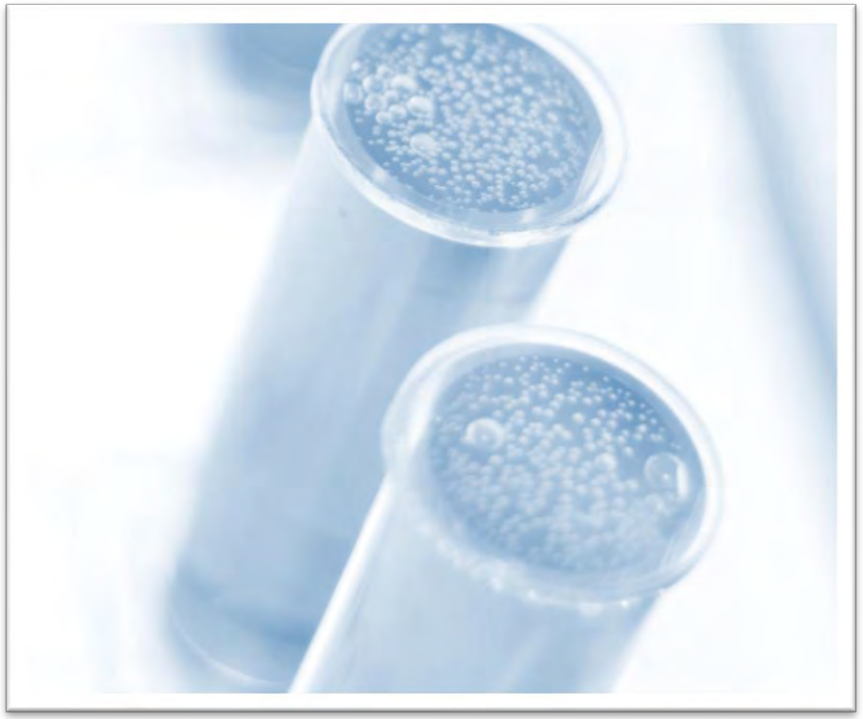

# Image & Communication

## Projects & Events sponsored

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FLOMEKO2019
18th International Flow Measurement Conference
Portugal | Lisbon | LNEC | 18-20 June 2019

IMEKO
International Measurement Confederation

Technical Committee TC10
Testing, Diagnostics & Inspection

EMPIR
EURAMET
The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

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# Voicing labs

EL_Adm_043_2016

eurolab aisbl
European Federation of National Associations of Measurement, Testing and Analytical Laboratories

**EUROLAB Policy Paper**
**The role of laboratories in testing, inspection and certification**

**About EUROLAB**

EUROLAB aisbl is the European federation of national associations, grouping together accredited laboratories of first, second and third parties. It represents and voices the opinion of measurement, testing and analytical laboratories regarding economic, political and technical issues having a direct impact on laboratories' activities on the European scene and worldwide. EUROLAB aims to promote cost-effective testing, calibration and measurement services, for which the accuracy and quality assurance requirements are adjusted to the actual needs.

EUROLAB provides to its members an open and interactive platform for discussions and exchange of information and viewpoints. Moreover, it plays an important role on the European scene by addressing, voicing and influencing European legislation which is of its members' interests, such as consumer protection, occupational health and safety, product and environmental safety.

**1. Introduction**

Measurement and testing are of fundamental importance to science, technology and the economy. "There is no science without measurements, no quality without testing and no global market without standards." (1)

Measurement[1], testing[2] and inspection[3] play an important role in healthcare, food safety, undisputed drinking water quality, consumer protection, improving safety at work, monitoring and minimizing environmental hazards, improving product safety, etc. They are also important for detection and prevention of a range of criminal and other illegal activities such as doping in sport, food adulteration, sale of fake and inferior products, etc. (1). It is easily seen that almost all aspects in consumers' daily life is affected, but the economy in large is also dependent on the providers of measurement, testing and inspection services. Conforming with the requirements on products and services is the key for smooth functioning of the European Single Market as well as for the protection of the health and safety of European citizens and reducing environmental impacts. In addition, only flawless products are able to compete in international markets. Therefore, the benefits of the single market can only fully unfold for all economic operators if the conformity of the products traded in the single market increases significantly and sustainably.

Every sector has its different measurement, testing and inspection needs: chemical analytics differs from electromagnetic compatibility testing, just as regular vehicle inspection differs from inspection of financial services. The measurement, testing and inspection sector is therefore a highly diversified and specialized

[1] Measurement : process of experimentally obtaining one or more values that can reasonably be attributed to a quantity ISO/IEC GUIDE 99 (2.1)
[2] Testing : determination of one or more characteristics of an object of conformity assessment, according to a procedure ISO/IEC 17000 (4.2)
[3] Inspection : examination of a product design, product , process or installation and determination of its conformity with specific requirements or, on the basis of professional judgment, with general requirements ISO/IEC 17000 (4.3)

eurolab *Laboratory and conformity assessment services supporting European technology and trade*

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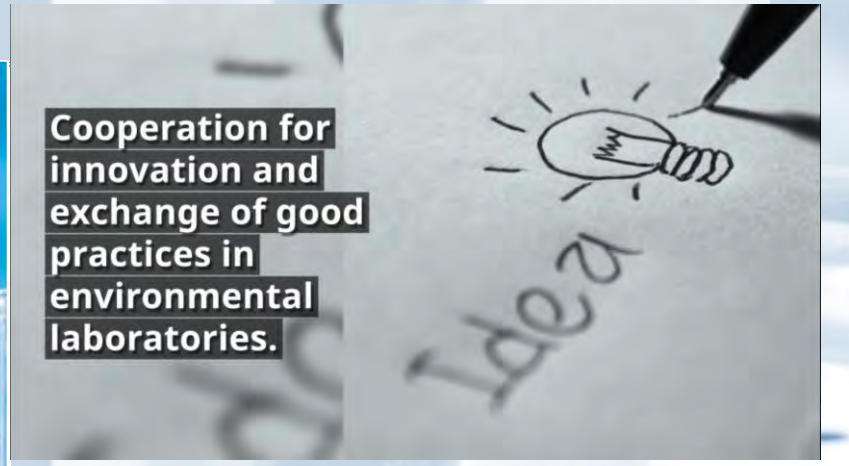

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# EUROLAB - Partner in European Projects ECVET-Lab Project

ECVET-Lab - funded by the ERASMUS+ programme of the European Commission.

The Project contributes to the implementation and validation of the non-formal training on environmental best practices for environmental testing laboratory technicians.

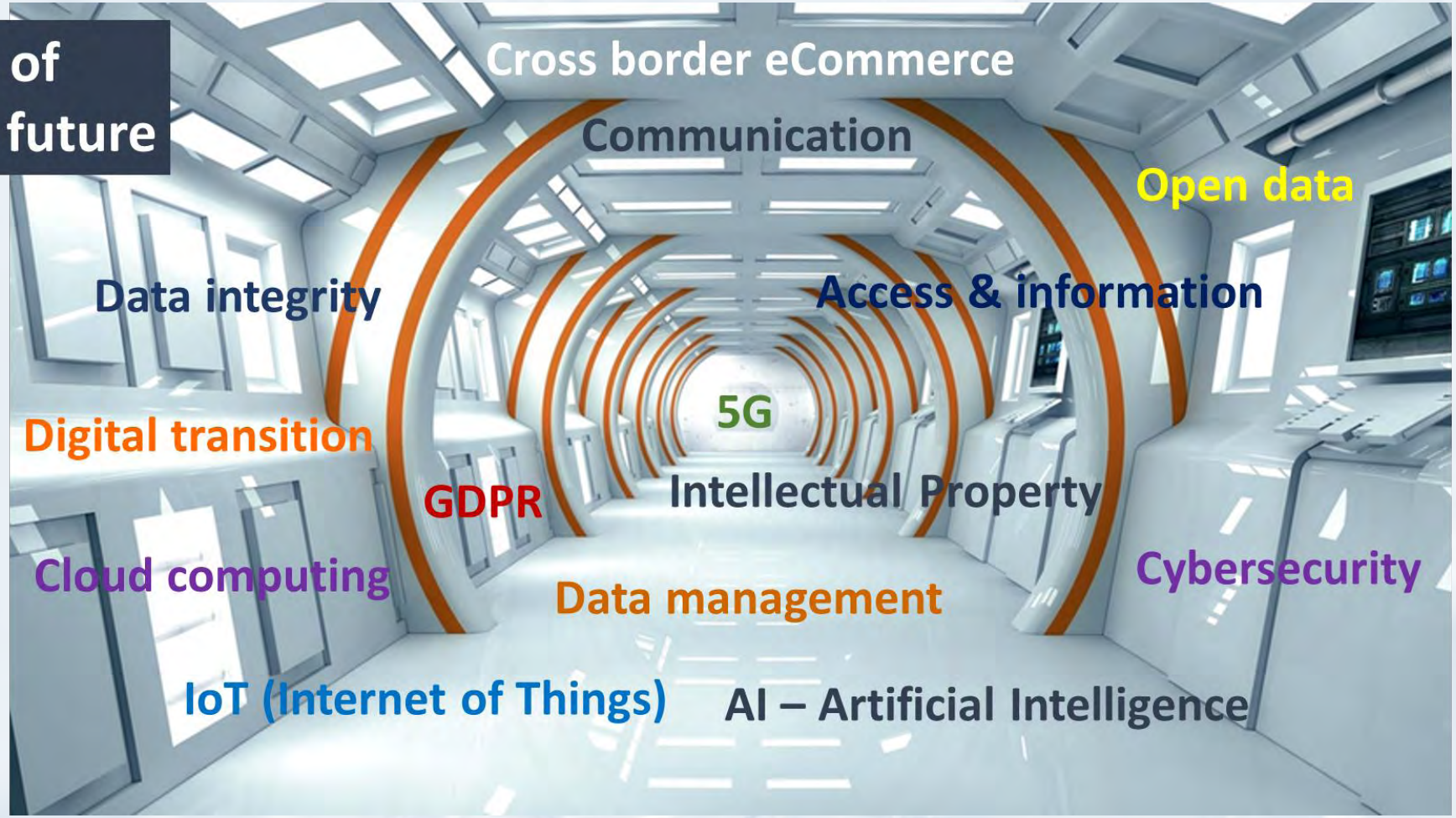
ECVET-Lab consists of:

- ✓ Creating an Online Training Course
- ✓ Addressed laboratory workers
- ✓ To provide knowledge about environmental best practices
- ✓ Structured in accordance with the principles of the ECVET System

DURATION: 2 years. 01/10/2016 – 30/09/2018

http://ecvetlab.projectsgallery.eu/en/home/

# EUROLAB 30 years – events in 2020



# Committees & networking

- EUROLAB General Assemblies
- EUROLAB National Members' Meetings
- EUROLAB Seminars
- EUROLAB Board Meetings
- TC QA - Technical Committee for Quality Assurance in Testing and Calibration

# TIC Sector and Media

**There is a need for a strong and joint communication strategy for the industry**

**Politico,**
**11 December 2015**

# Breast implant, diesel cases expose lax EU oversight

The companies that 'certify' safety of consumer products come under political fire.

By **GIULIA PARAVICINI** | 11/12/15, 5:30 AM CET

Tüv Rheinland is a private company you've likely never heard of, but its responsibilities range from testing for car safety to certifying the safety of breast implants.

These so-called notified bodies were responsible for some aspect of product safety in two of the bigger public scandals in Europe in recent years, putting the spotlight on the way EU tests and approves a wide variety of consumer products, and raising the political heat in Brussels for an overhaul of this system.

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FT, 19 November 2015

# The man who brought down Volkswagen

## How a tiny lab busted a giant automaker—and what it shows about the future of cheating

By Charlotte Alter / Morgantown, W.Va.

**THIS IS ONE** of those parts of West Virginia where people fix one another's tractors just because it's neighborly. Nestled in the Appalachian Mountains, just 200 miles (320 km) from the D.C. headquarters of the Environmental Protection Agency, Dan Carder's lab at West Virginia University in Morgantown is the folksy antithesis to the bureaucracy in Washington. It seems more like an auto-body shop than a science lab—Carder welded the pipes himself, the insulation is held together by foil tape, and the air smells like diesel fuel. Here, on threadbare chairs and a tiny budget, Carder and his team discovered the emissions problem in Volkswagen diesel cars that could cripple one of the world's biggest automakers.

You might be wondering how a tiny team of engineers discovered the problem with Volkswagen before the EPA figured it out. After all, the EPA has an annual budget of over $8 billion, with $12 million specifically allocated to oversee compliance with transportation regulations. Yet Carder and his team found the emissions discrepancy on a $69,000 grant from the International Council on Clean Transportation (and that includes the cost of diesel fuel). The scandal could cost Volkswagen billions of dollars, since the company admitted to using defeat devices to cheat on emissions tests. And now that the EPA says it has found additional defeat devices on Porsche and Audi cars, it seems as if the problem might be even bigger than anyone initially imagined.

Carder and his team at WVU's Center for Alternative Fuels Engines and Emissions (CAFEE) could have sprung from a 1940s comic book: a plucky gang of West Virginia scientists working together to expose the lies of a powerful German company. But this story is really about the future of cheating and the ability (or inability) of government regulators to catch it. Cars, like drugs or planes or so many other products we ask the government to regulate, keep getting more complex. Yet regulations often evolve more slowly than the products,

*Dan Carder in his lab at West Virginia University; he and his team of researchers have built most of the facility by hand*

Automobiles

In a jam: the gap between fuel consumption in the real world compared with laboratory tests is widening, says a report — Valentyn Ogirenko/ Reuters

# Car fuel efficiency figures fail real world test

PETER CAMPBELL
MOTOR INDUSTRY CORRESPONDENT

**Carmakers' claims about the fuel consumption of vehicles sold in the EU are increasingly misleading, resulting in a growing gap between performance on the road and in official tests, according to a leading environmental group.**

Cars sold in the EU last year consumed 42 per cent more fuel on average during real world driving conditions compared with official laboratory tests, a report by Transport & Environment said.

That compares with figures showing that cars sold in 2012 consumed 28 per cent more fuel on the road than during the tests conducted by regulators.

The Transport & Environment report reviewed 16 brands. Those with the biggest gap between fuel consumption on the road and in official tests were found to be Mercedes-Benz, Audi and Smart. Some other carmakers did not fare much better. Daimler, parent of Mercedes and Smart, and Audi, owned by Volkswagen, said they complied with relevant legal requirements.

'The gap between the fuel economy measured in tests and [that] achieved by the average driver [is] widening'

As well as raising issues about whether car buyers were being misled, Transport & Environment also highlighted how the real world fuel performance translated into higher carbon dioxide emissions compared with those recorded in official tests.

The group's conclusions pinpointed some of the shortcomings in the EU testing regime for vehicle emissions: an issue brought into sharp focus during the VW scandal last year.

"The gap between the fuel economy measured in laboratory tests and [that] achieved by the average driver of the same car [is] widening at a staggering rate," the Transport & Environment report said. "The overwhelming cause is carmakers manipulating the undemanding and poorly prescribed emissions tests; and choosing to fit technology to improve the efficiency of the car that works much better in the test than on the road."

Manufacturers knew the parameters used in laboratory tests, including the pattern of driving, so were able to tweak their fuel economy systems to perform most effectively in these conditions.

The report is based on data collected by the International Council on Clean Transportation, a research firm, which compared the laboratory and on-the-road emissions of more than 1m vehicles across the EU.

Mercedes cars used 54 per cent more fuel on average on the road last year than claimed in sales brochures. Audi and Smart used 49 per cent more fuel.

Daimler said there would "always be differences" between laboratory monitoring and real world driving. "Our vehicles are certified and approved according to the relevant regulations," it added. Audi said it followed "the rules and only use allowed legal measurements and configurations".

**FT, 20 December 2016**

Deepwater Horizon (2010, 11)

West Texas Fertilizer (2013, 14)

Gas Explosion Kaohsiung Taiwan (2014, 32)

Boiler Explosion Gazipur Bangladesh (2016, 23)

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NEWS | Missing | Collapse | Rescuers | The company | Looming threat | 'Never again'

# Brazil's dam disaster

Looking for bodies, looking for answers.

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# Explosion at chemical plant near Barcelona

A massive explosion at a petrochemical plant in northeastern Spain killed one person and gravely injured at least six others, regional authorities said.

Iqoxe is Spain's sole producer of ethylene oxide, a chemical compound used for making detergents, solvents and other products, as well as glycol, one of the main raw materials in the production of plastics.

# Trade in fake goods is now 3.3% of world trade and rising

- Trends in Trade in Counterfeit and Pirated Goods puts the value of imported fake goods worldwide based on 2016 customs seizure data at USD 509 billion, up from USD 461 billion in 2013 (2.5% of world trade).

- For the European Union, counterfeit trade represented 6.8% of imports from non-EU countries, up from 5% in 2013. These figures do not include domestically produced and consumed fake goods, or pirated products being distributed via the Internet.

# Food Fraud Costs the Global Food Industry $10-15 Billion Annually

In 2008, melamine was added to milk and infant formula to increase its protein content.

In 2013, horsemeat was found in burgers and ready meals sold in UK supermarkets.

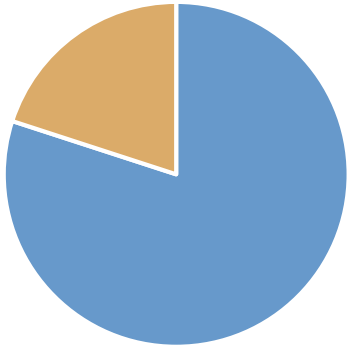
Between 2014-2015, Operation Option IV, a coordinated venture by Interpol and Europol, seized more than 2,500 tonnes of counterfeit and illicit foods, including mozzarella cheese, strawberries, eggs, cooking oil, and dried fruit, from 47 countries.

# TIC Council (IFIA-CEOC)
# **Market studies**

## The Results

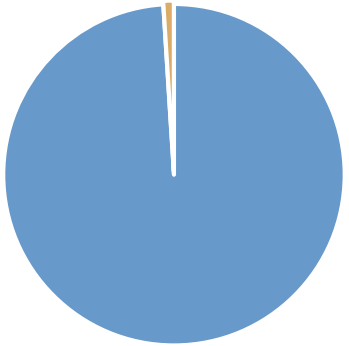
Self-declared product compliance

**16% dangerous faults**



Third party certified product compliance

**< 1% dangerous faults**



This year's results highlight once again the **marked difference** between products for which compliance is self-declared by the manufacturer, versus those that were certified by an independent third-party body. The percentage of **serious non-conformities**, in the 'self-declared' case, is extremely high and worrisome.

# EUROLAB 30th Anniversary 2020

30 years (1990 – 2020) eurolab

Testing for a sustainable future

**International seminar in Vienna, 28 October 2020:**

# The laboratory of the future

# Testing & Measurement provide Safety and Quality of Life.

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# Thank you for your attention!