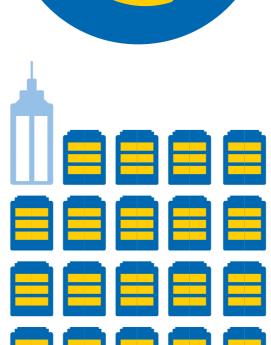
# European Union In Vitro Diagnostic Medical Device Regulation (IVDR)



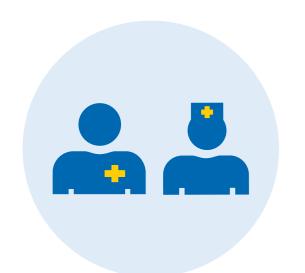
## About the European Union (EU)



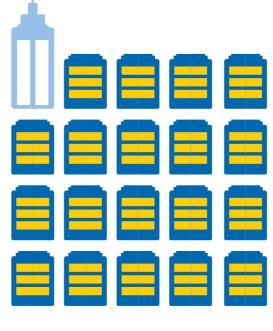
The EU population numbers more than 447 million people\*.



The total medical device sales in the EU is close to EUR 150 billion.\*



The European medical device industry employs approx. 800,000.\*

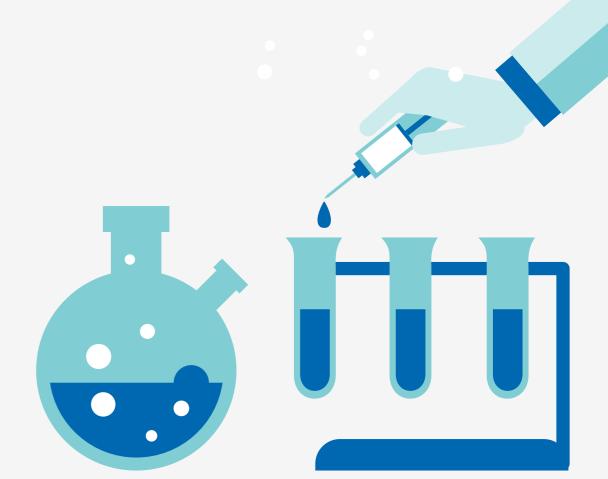


The European medical device sector is comprised of 34,000 companies.

Source: https://www.medtecheurope.org/wp-content/uploads/2022/09/the-european-medical-technology-industry-in-figures-2022.pdf

## What is the IVDR?

The IVDR is the regulatory basis for placing on the market, making available and putting into service in vitro diagnostic medical devices on the European market. It replaced the EU's Directive on in vitro diagnostic medical devices (98/79/EC). As a European regulation, it will be effective in all EU member states and EEA states immediately without need to be transferred into the law of respective states, however national laws may be adapted to back up some requirements in more detail.



Following the publication of regulation (EU) 2022/112, the IVDR will be rolled out gradually. Find out more in the timeline section below.

## Timeline of the IVDR

IVDR enters into force on 26 May 2017.



2022

Devices placed on the EU market with a IVDD certificate and IVDR (article 110 (3)) class D devices can be placed on the market until 26 May 2025. IVDD certificates will be invalid from 27 May 2025.

2026

From 26 May 2027: End of placing on the market under the IVDD of class B, class As\*.



New IVDs and self-declared (class A non-sterile) devices must be placed on the market under the IVDR from 26 May 2022.



2025

End of placing on the market under the IVDD of IVDR class C (article 110 (3)).

2027

\*With the removal of sell-off date, devices can continue to be made available on the market until the stocks are sold or device expires, whichever comes first

vigilance, registration of economic operators and of devices applies to all IVDs.

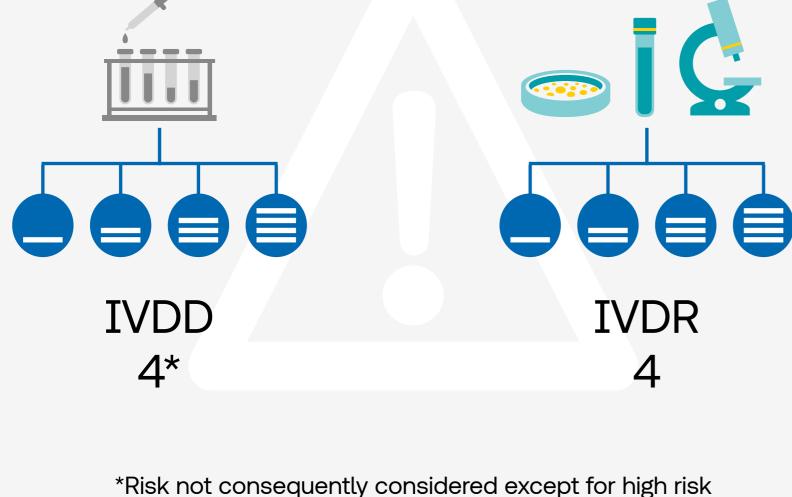
From the 26 May 2022, the requirements of the IVDR related to post-market surveillance,

the IVD will need to comply with the IVDR as soon as the change(s) are implemented.

\*As: Class A devices placed on the market in sterile conditions

Regardless of the device risk class, if a significant change to design and intended purpose is done,

# Risk classes

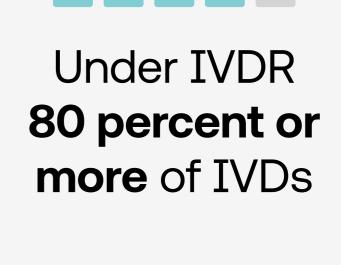


products.

# Notified Body involvement



Under IVDD about 8 percent of **IVDs** 

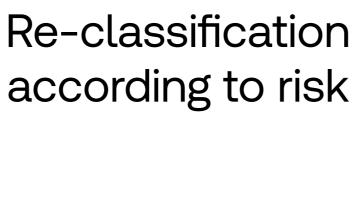


# Key changes





expansion







person responsible for regulatory compliance



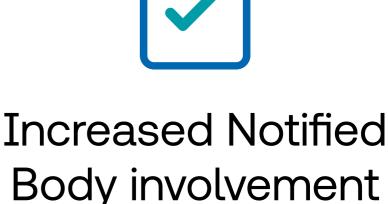
documentation



identification

Rigorous postmarket oversight

Step-by-step guide to IVDR certification



### 2. 3.

Step 1: Conduct an independent gap assessment for IVD medical devices

Step 2: Contact TÜV SÜD to start conformity

assessment

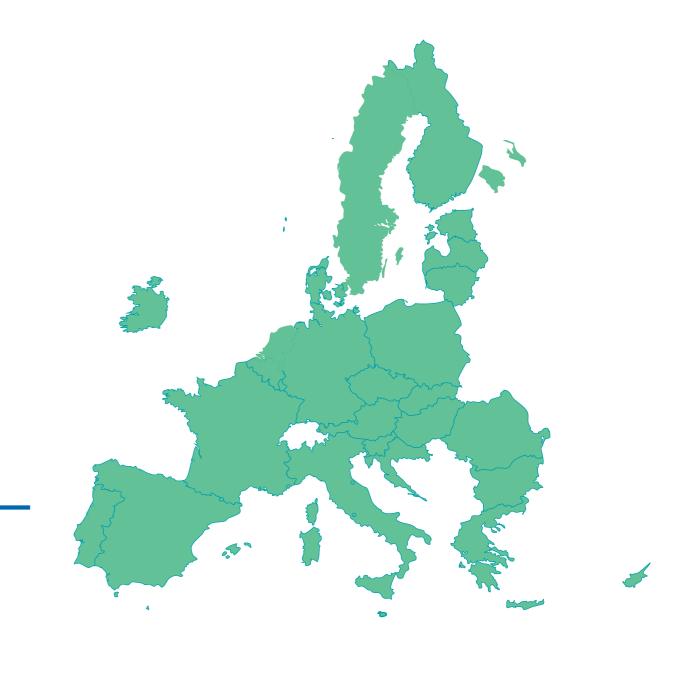
procedures

Step 3: Complete the conformity assessment for IVDR and applicable

standards

Step 4: Your IVD medical device is ready for certification

## TÜV SÜD IVD medical device testing services





Our testing labs, supported by a global team of over 750 healthcare and medical device testing experts, offer a comprehensive range of services to test and assess your in-vitro diagnostic (IVD) medical devices.

TUV SUD Medical Device Testing Services is a unit of TÜV SÜD, completely independent from the Notified Body. In support of IVDR requirements, TÜV SÜD can conduct testing to ensure conformity against various standards.





#### Cybersecurity testing

Our comprehensive service portfolio supports the entire product life cycle:

- IEC 81001-5-1 Health software and health IT systems safety, effectiveness, and security
- ISO 14971 Application of risk management to medical devices
- Several frameworks exist for conducting penetration testing. TÜV SÜD performs the best practice from all methods (OSSTM, PTES, NIST 800-115, ISSAF and OWSAP).



#### Software life cycle testing

IVD software lifecycle testing services:

- IEC 62304 Medical device software - Software life cycle processes
- IEC 82304-1 Health software: General requirements for product safety



#### Electromagnetic compatibility (EMC) testing

Testing services conducted at our labs, your premises or the product's location:

- IEC 61326-1 General EMC requirements for electrical equipment for measurement, control and laboratory use
- IEC 61326-2-6 Particular EMC requirements for IVD medical equipment
- IEC 60601-1-2 US FDA requirements for IVD EMC



#### Electrical safety and functional safety testing

Our full suite of testing services:

- IEC 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use: General requirements
- IEC 61010-2-101 Particular requirements for IVD medical equipment
- IEC 61010-2-081 Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes
- Additional particular standards from the IEC 61010 series on request



#### Certification and global market access

Our comprehensive certification services include:

- IECEE CB certification IEC 61010-1 (general requirements) and IEC 61010-2-XX (product specific standards)
- NRTL certification for USA and Canada
- INMETRO certification for Brazil
- Further national certifications on request



#### Environmental & packaging testing

Testing services for all medical devices:

- IEC 60721-3-2 Classification of environmental conditions -Transportation and Handling
- IEC 60721-3-3 Classification of environmental conditions
  - Stationary use at weatherprotected locations
- IEC 60529 Degrees of protection provided by enclosures (IP Code)
- IEC 60068 series -Environmental testing
- ISTA Packaging testing
- ASTM Series testing

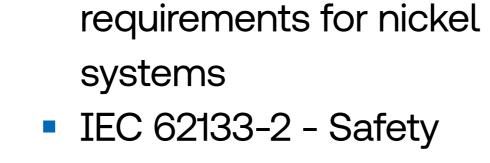


#### Radio equipment testing Our testing services support

market access for 180 countries

- (RED) 2014/53/EU ANSI C63.10 series / FCC Part
- 15 B / FCC Part 15 C
- FDA wireless co-existence standard
- RSS-Gen / RSS-210 / RSS-247





Battery testing

Our comprehensive battery

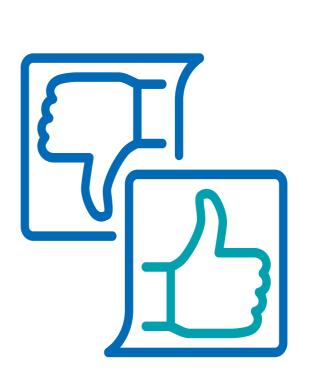
testing services include:

IEC 62133-1 - Safety

requirements for lithium systems

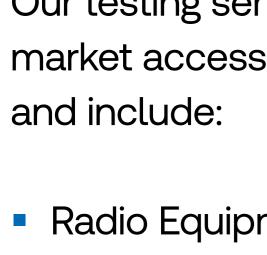
 CB-Certification - according to IEC 62133-1 or IEC 62133-2

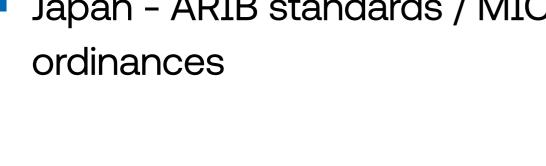
UN 38.3 - Transportation testing for lithium batteries and cells

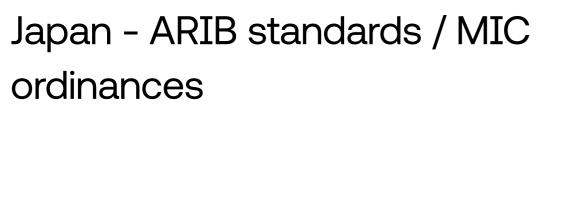


#### Usability testing IEC 62366-1 - Medical

- devices: Application of usability engineering to medical devices
- Usability engineering process and files with the focus on safety Assessment of risk
  - management process associated with correct use, use errors and abnormal use according to ISO 14971









Get ready for the In Vitro Diagnostic Device Regulation now