

I'm Responsible for EMC

GET ME OUT OF HERE!

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Summary

- Some basics of the EMC Directive
- Market surveillance
- Importance of changes in the 'new' (2014) Directives
- Potential impact of BREXIT for UK manufacturers
- What can we learn from market surveillance?
- Summary checklist

CE Marking

- Shows that the manufacturer has checked that these products meet EU safety, health or environmental requirements
- Is an indicator of a product's compliance with EU legislation
- Allows the free movement of products within the European market
 - All 28 EU member states
 - 3 out of 4 EFTA states
 - Switzerland (non-mandatory)
 - Turkey and 6 Balkan states



EMC Directive

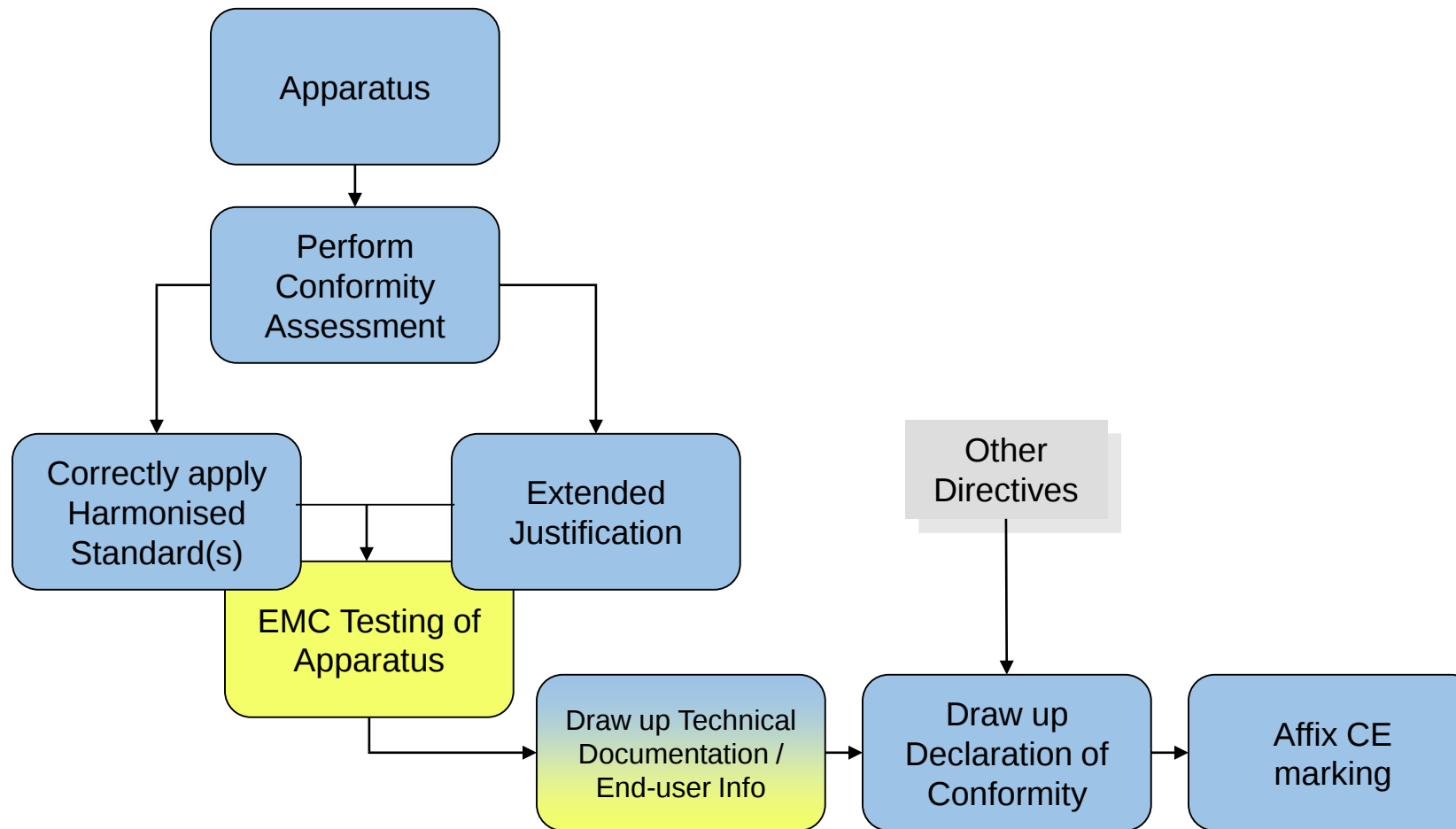
- 'New Approach' Directive
 - Technical details specified by harmonised standards
 - Conformance and marking requirements
- 2014/30/EU replaced 2004/108/EC in April 2016
- Equipment designed and manufactured, to ensure that:
 - the EM disturbance generated does not exceed the level above which radio and telecommunications equipment or other equipment cannot operate as intended;
 - it has a level of immunity to the EM disturbance to be expected in its intended use which allows it to operate without unacceptable degradation of its intended use

Conformity Assessment

- "Conformity assessment is the process carried out by the manufacturer of demonstrating whether specified requirements relating to a product have been fulfilled
- A product is subjected to conformity assessment **both during the design and production phase**"



CE Marking Process



EU Impact Assessment

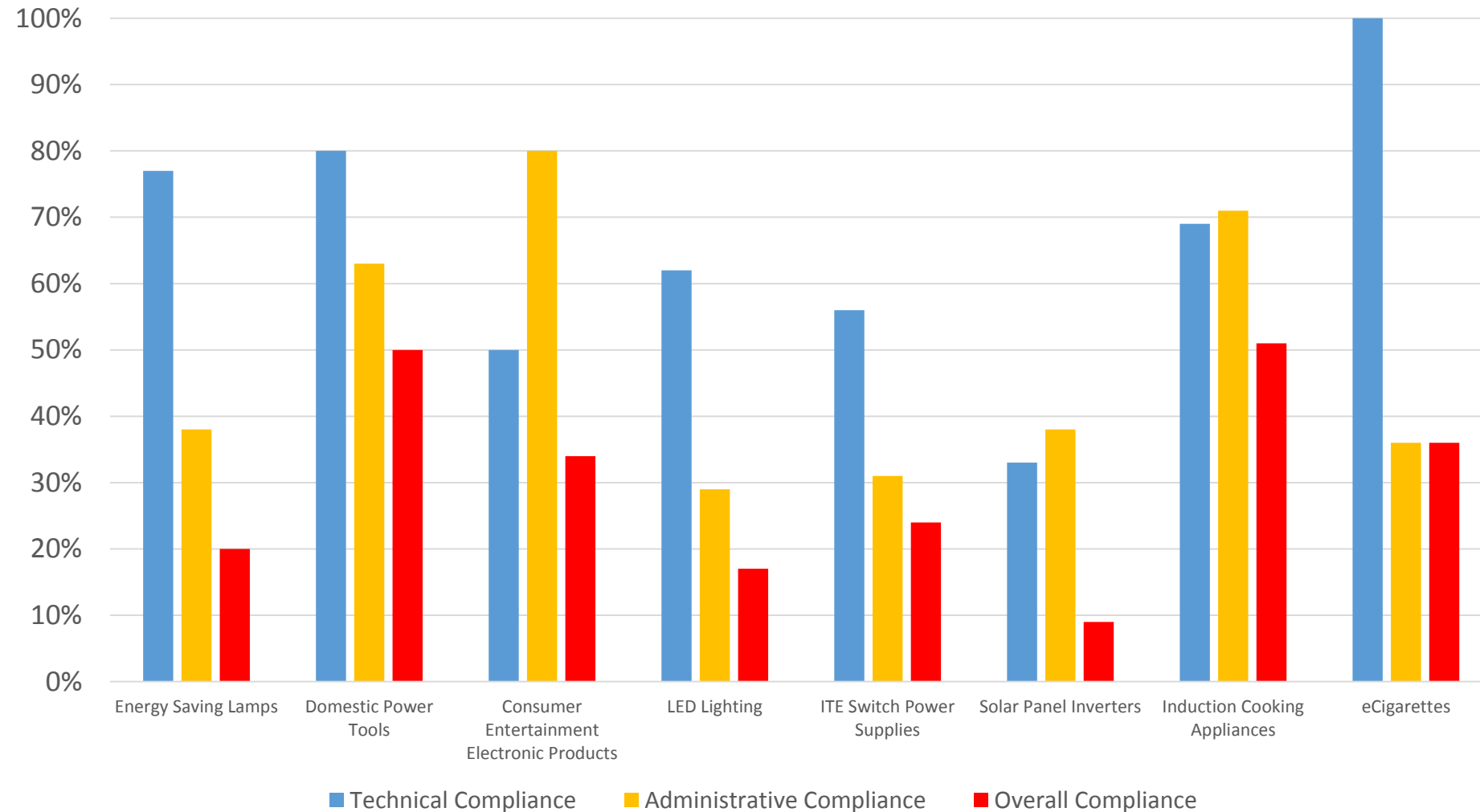
- The EU IA consultations identified problems including:
 - Non-compliance of significant number of products that reach the market
 - Inadequate market surveillance
- Addressed in New legislative Framework
 - 2014/28/EU – Explosives
 - 2014/29/EU – Simple pressure vessels
 - 2014/30/EU – EMC
 - 2014/31/EU – Non-automatic weighing instruments
 - 2014/32/EU – Measuring instruments
 - 2014/33/EU – Lifts
 - 2014/34/EU – ATEX
 - 2014/35/EU – Low voltage
 - 2014/53/EU – Radio Equipment

Market Surveillance

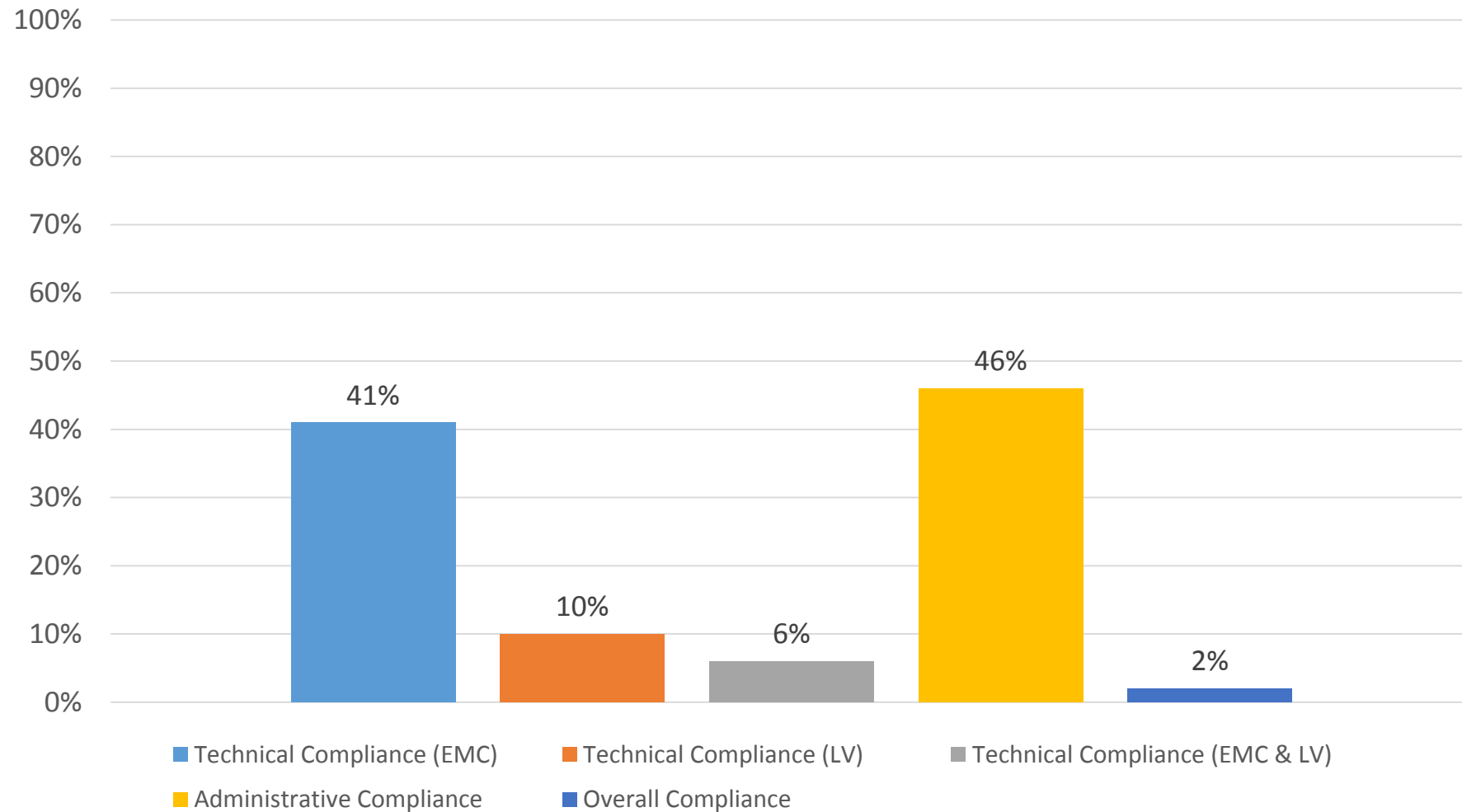
- Working Group on Administrative Cooperation (EMC ADCO)
 - 2004/5 - Energy Saving Lamps (ESL)
 - 2007/8 - Domestic Power Tools
 - 2009/10 - Consumer Entertainment Electronics Products
 - 2011 - LED Lights
 - 2012 - ITE Switching Power Supplies
 - 2014 - Solar Panel Inverters
 - 2016 - LED Floodlights (including LVD)
 - 2016 - Induction Cooking Appliances
 - 2017 - E-Cigarettes



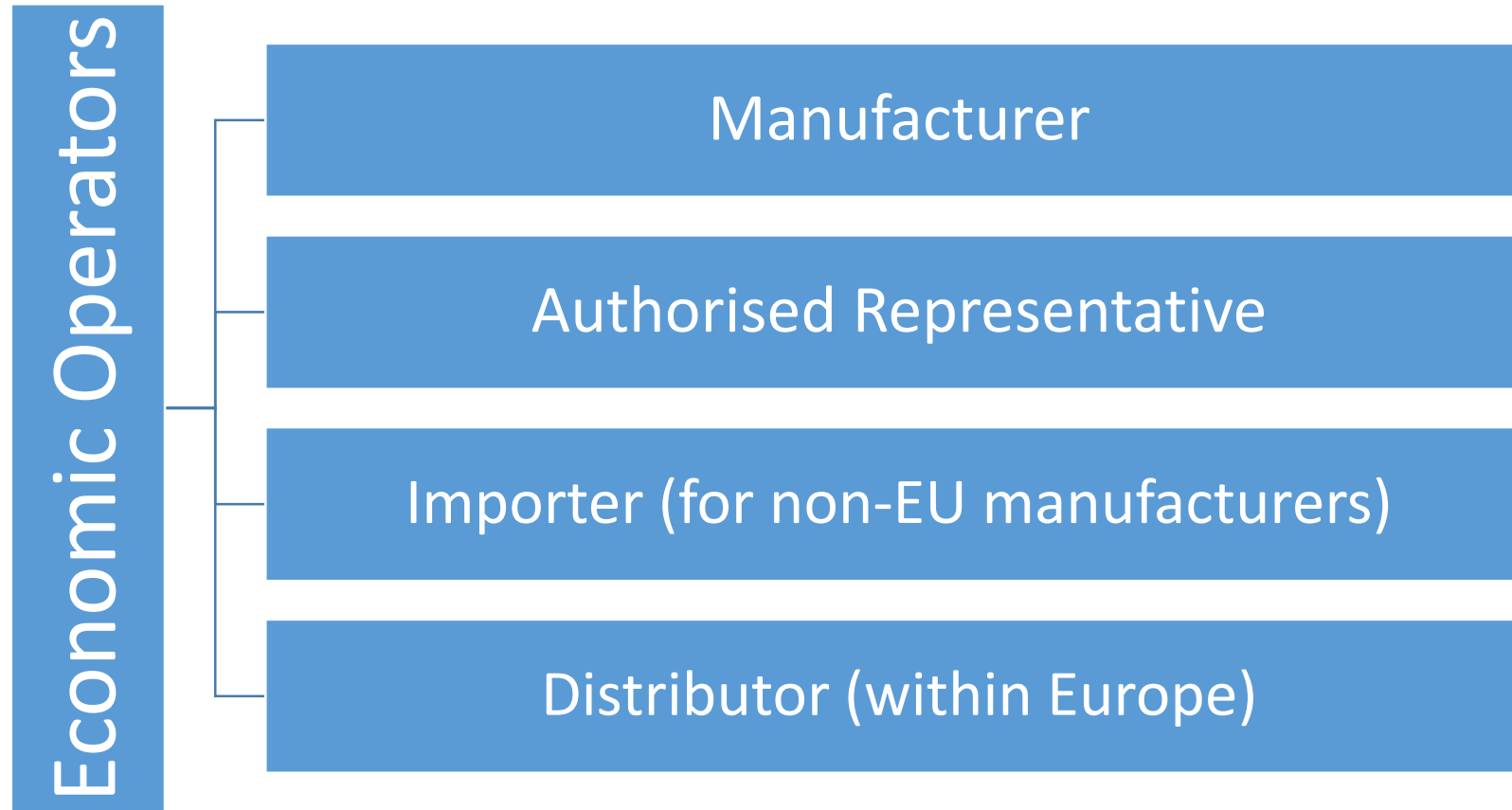
Market Surveillance



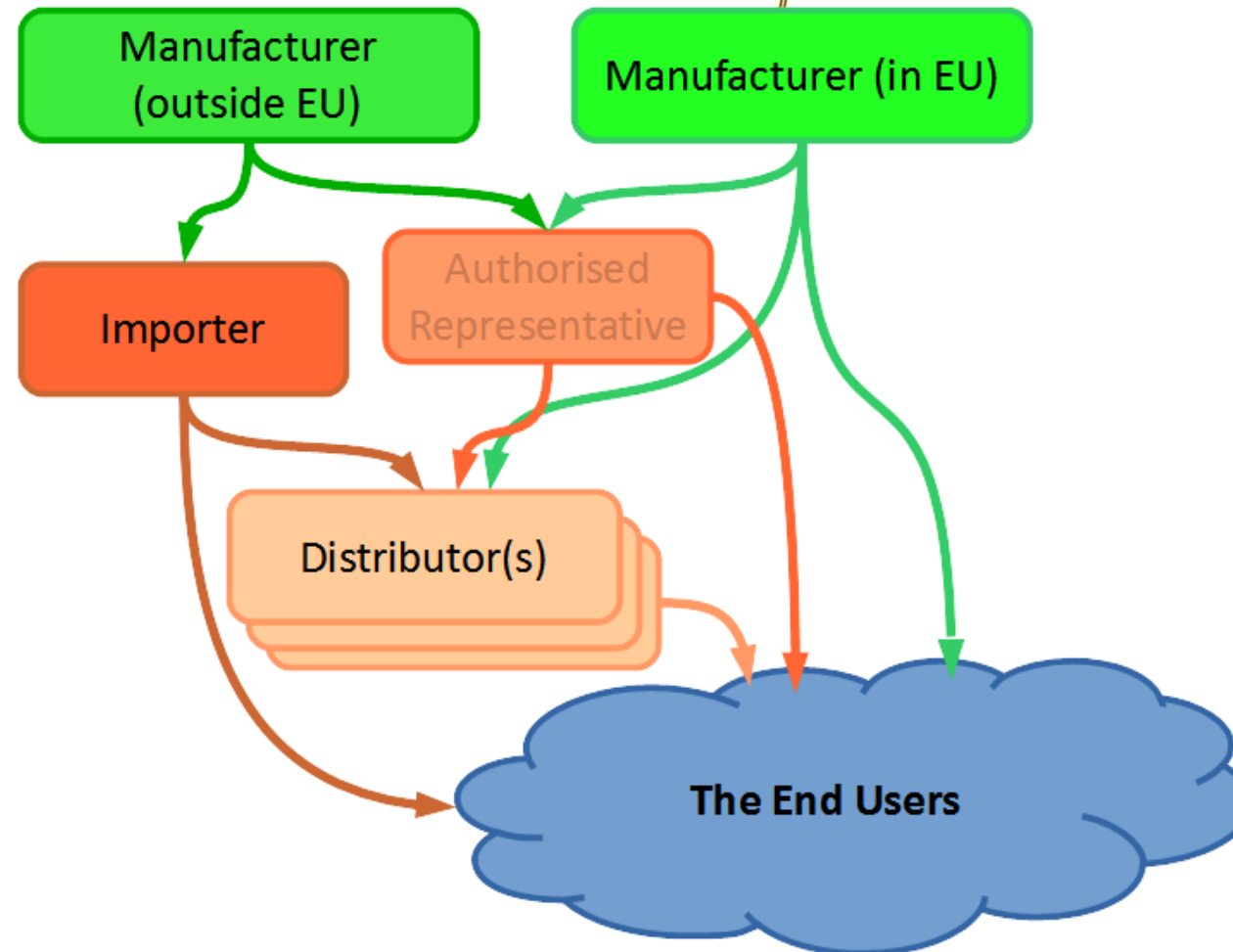
LED Floodlights (EMC & LV)



Economic Operators



Economic Operator Relationship



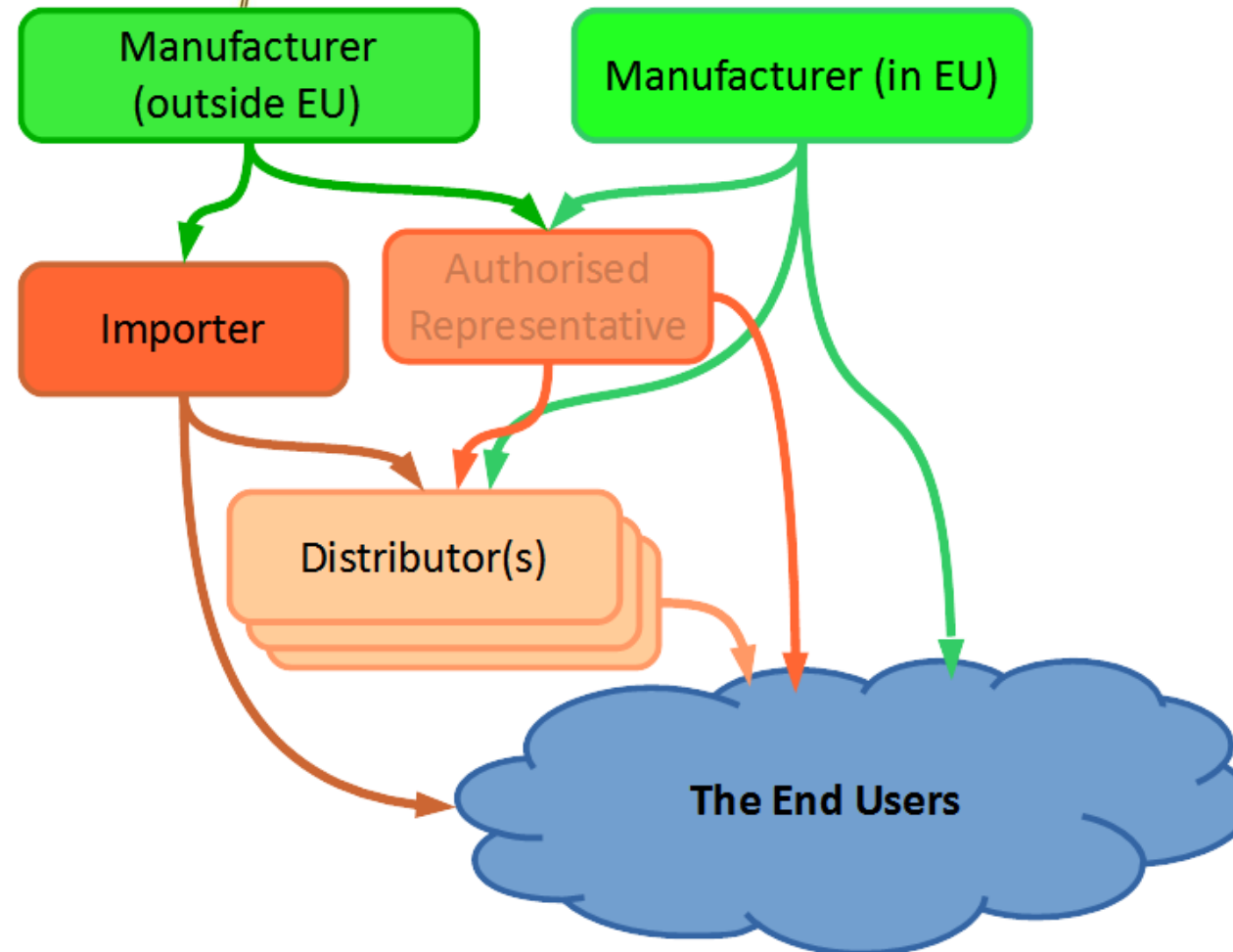
Distributor

- Someone other than the manufacturer or importer, who makes a product available on the market
- The distributor verifies:
 - CE marking is applied
 - The product is accompanied by required documents for end-users
 - In easily understood language for consumers and end-users
 - Product, manufacturer and importer are identified
- Duty of self-policing
- Duty of careful storage/transport
- Duty to cooperate with National Authorities





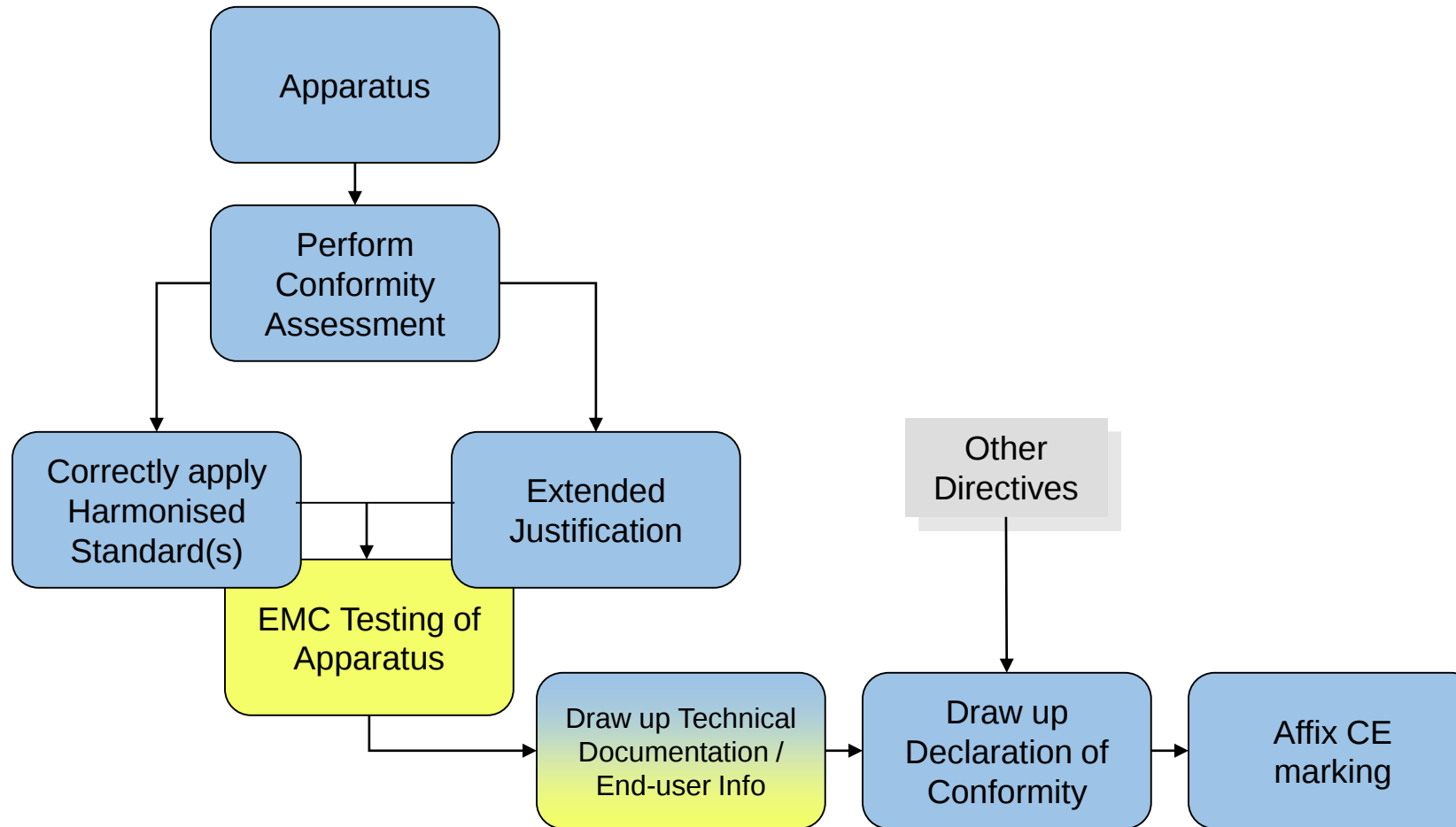
Economic Operator Relationship



Importer

- The importer is established in the EU and places a product from a third country on the EU market
- Responsibilities are to check that the:
 - Manufacturer outside the EU has applied the **correct conformity assessment procedure**
 - Products bear the CE marking accompanied by the required documents
 - Products carry the name of the manufacturer and the importer
 - To keep copies of documents for 10 years after placing on the market and ensure that **Technical Documentation** can be obtained when it is requested by National Authorities
- Duty of careful storage/transport
- Duty of self policing

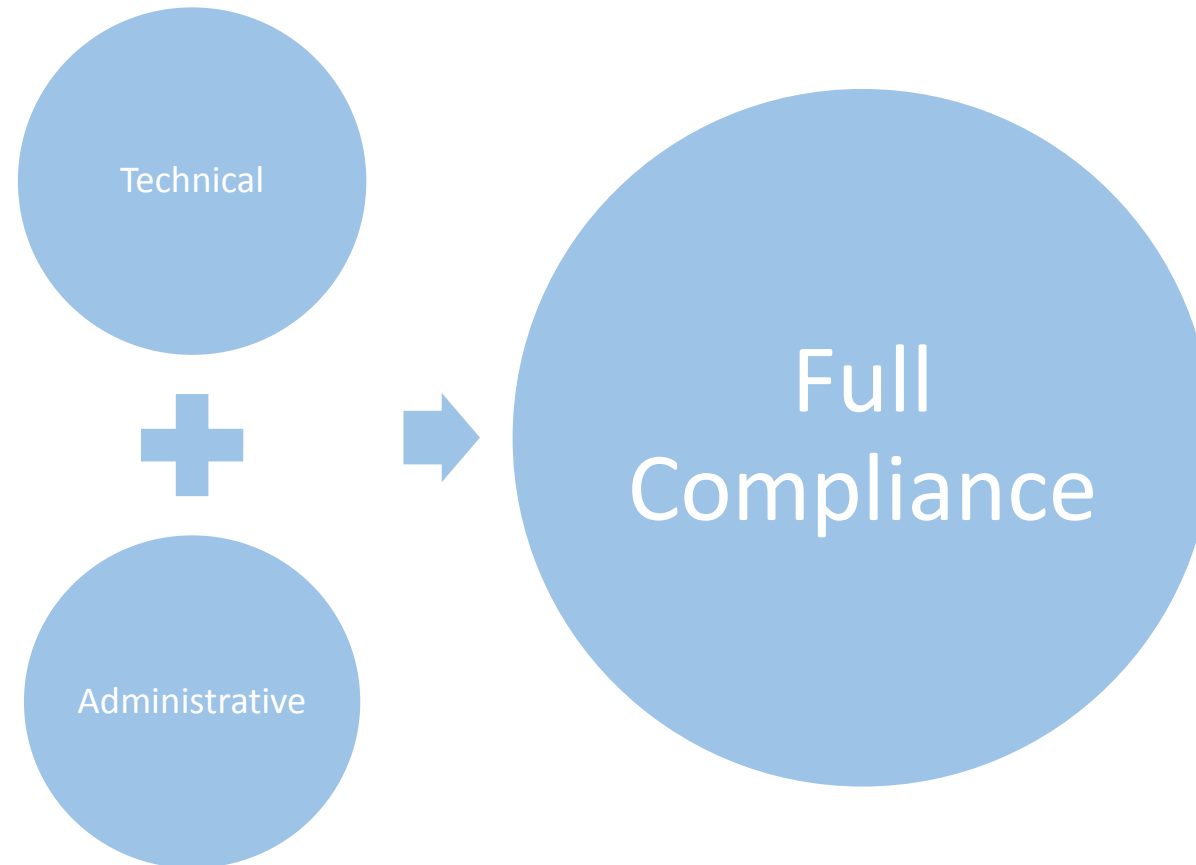
Conformity Assessment



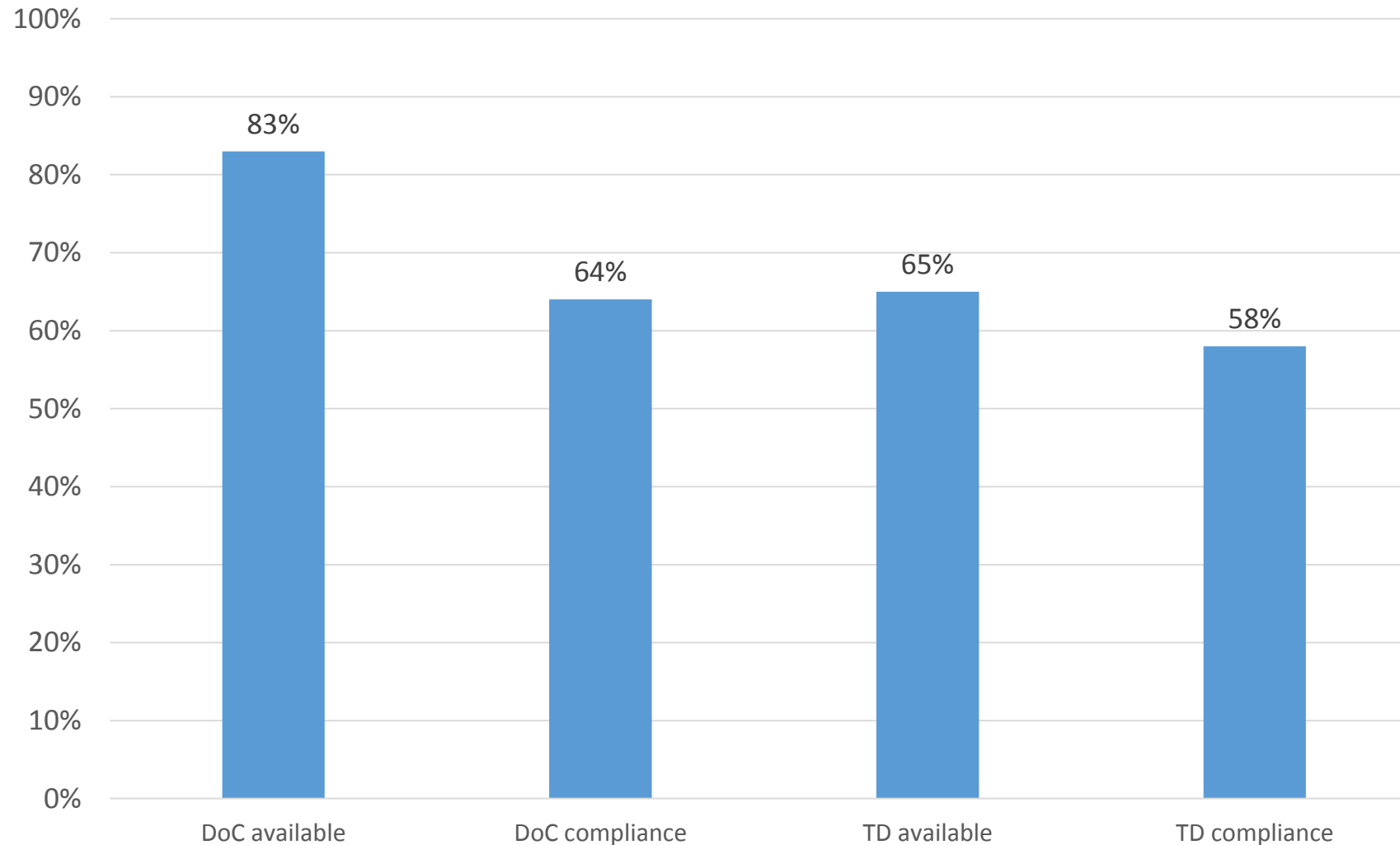
New EU Regulation (proposal)

- The initiative is mainly aimed at providing the right incentives to businesses, intensifying compliance checks and promoting closer cross-border cooperation among enforcement authorities
- It will:
 - Consolidate the existing framework for market surveillance activities
 - Encourage joint actions by market surveillance authorities from several Member States
 - Improve the exchange of information and promote the coordination of market surveillance programmes
 - Create a strengthened framework for controls on products entering the Union market and for improved cooperation between market surveillance authorities and customs authorities

Common Compliance Issues



Common Administrative Compliance Issues



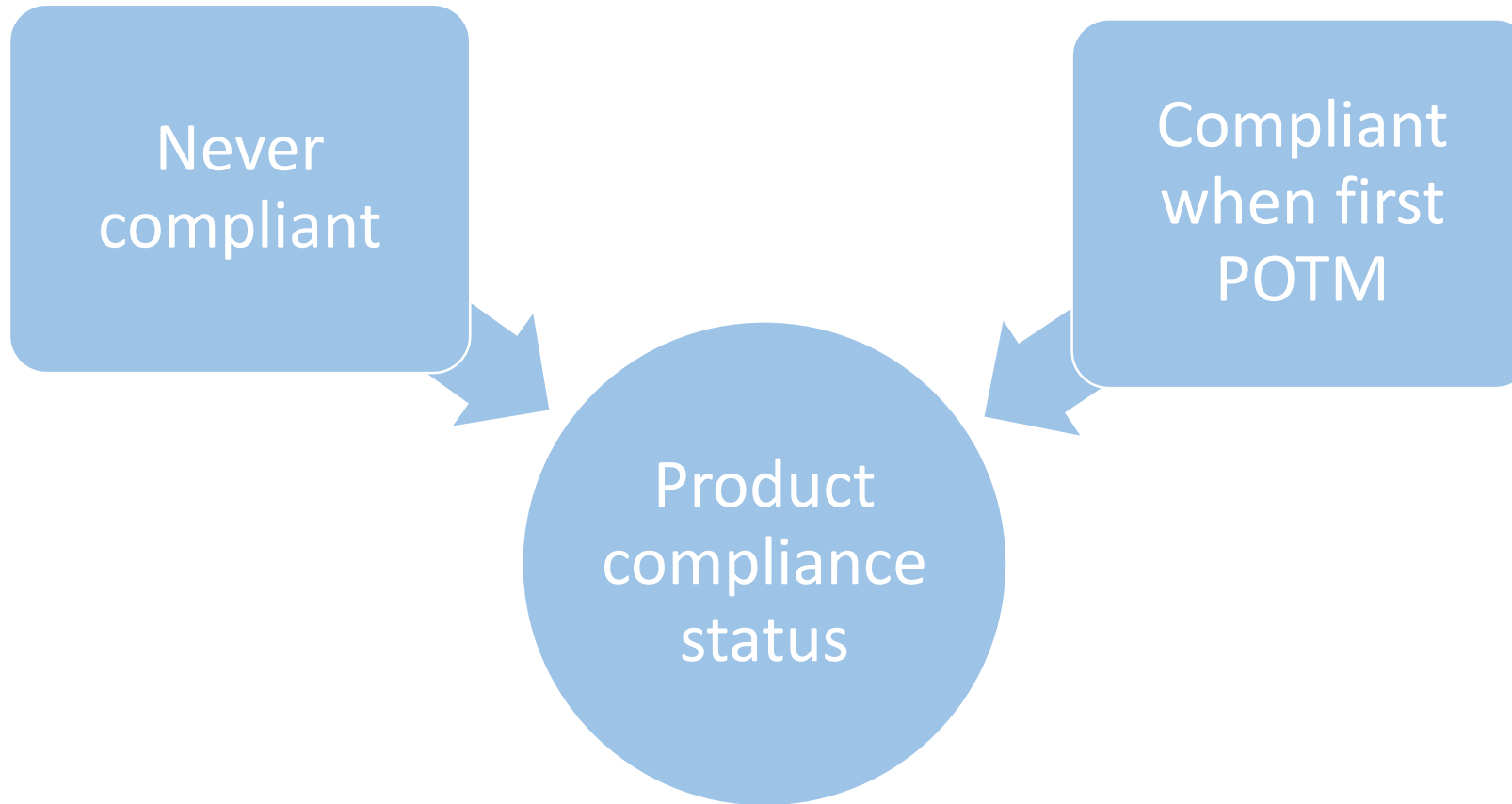
Common DoC Issues

- Doesn't exist
- Refers to old directives which have been superseded
 - 2004/108/EC is commonly seen on DoCs making them invalid
- Contains references to standards that have been superseded
 - Probably the No 1 cause of invalid DoCs
- Contains references to undated standards
 - EN12345 instead of EN12345:2018
- The product is not clearly identified
 - Particularly where the DoC covers a range or family of products
- Not maintained

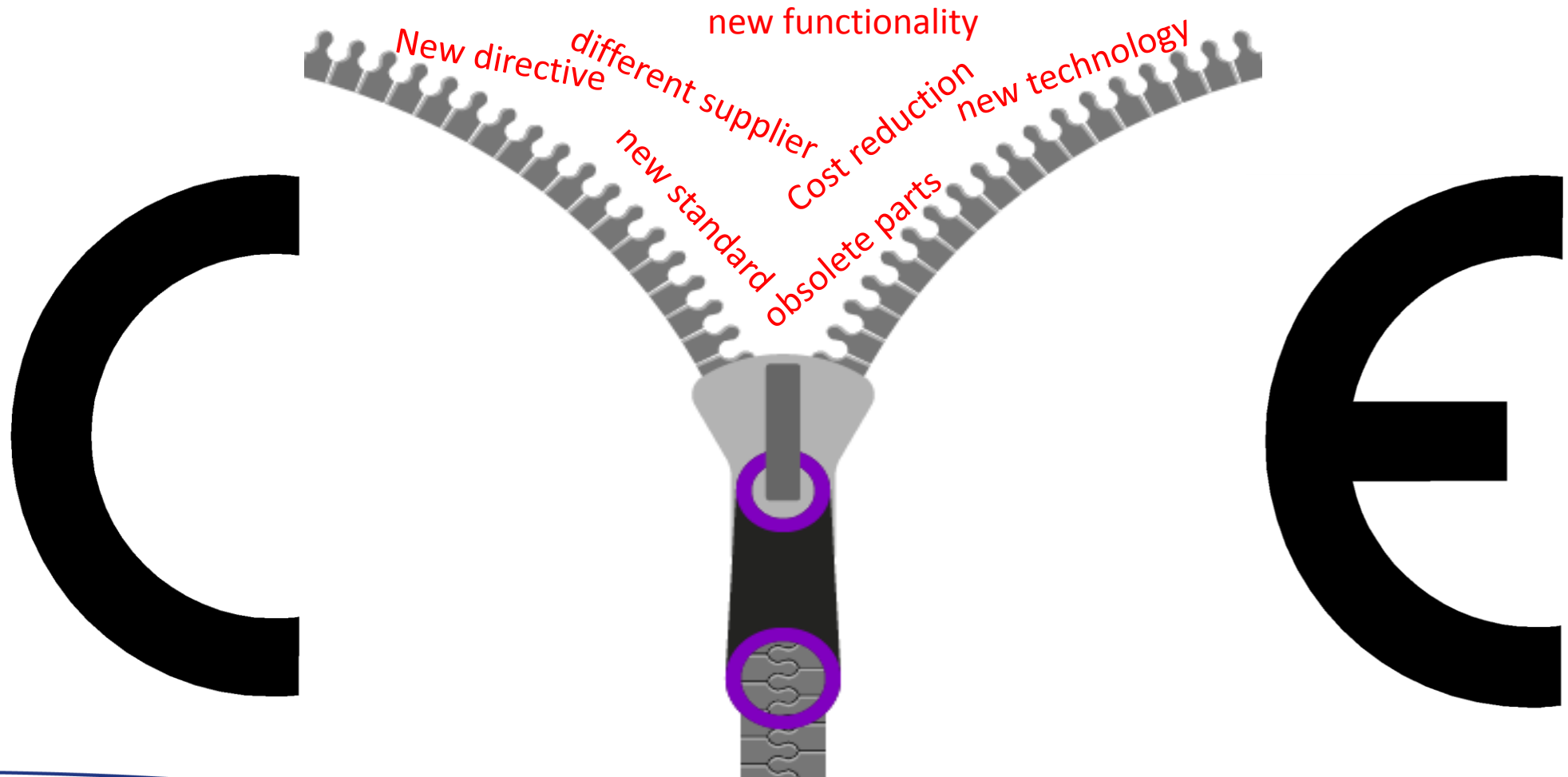
Common TD Issues

- Doesn't exist
- It is a collection of general technical data that doesn't support a DoC
 - 2014/30/EU has specific content requirements
- The product is not clearly identified
 - Particularly where the DoC covers a range or family of products
- For a range of family of products it does not adequately describe the similarities and differences and how these have been addressed
- Not maintained – think of TD as an EMC Diary to capture changes and decisions post launch

Product Compliance Issues



Changes Affecting Compliance



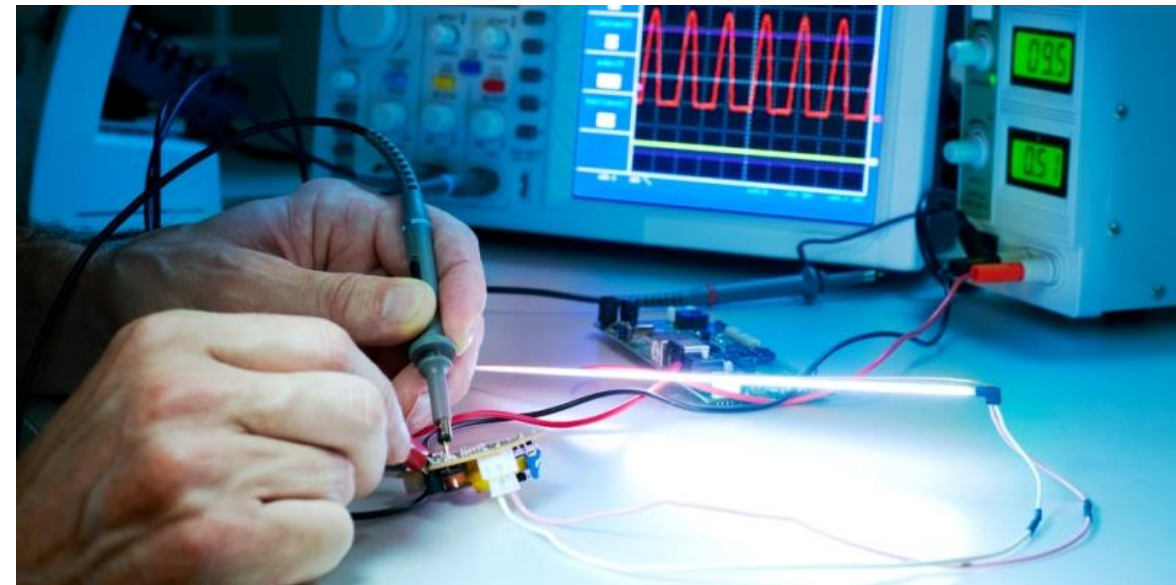
Changes to Standards

- Identify changes to relevant standards
- Identify their relevance to your products
- Identify technically what you need to do
- Identify administratively what you need to do



Changes to the Product

- Identify changes to the product
- Identify their EMC relevance
- Identify technically what you need to do
- Identify administratively what you need to do



Summary Checklist

1. Is each product covered by a DoC available and it is valid? In particular check that the standards have not been superseded and the Directive is 2014/30/EU for EMC
2. Does TD exist to support each DoC and is it maintained?
3. Are there valid test results in the TD?
4. Is there a process in place for identifying changes to standards and taking appropriate technical and administrative actions and recording them?
5. As (3) but for the product

Thank You

ANY QUESTIONS?

Stand 12

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