

ETSI Seminar 2023

Testing & Interoperability

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ETSI and Interoperability

Standardisation enables interoperability

- Enabling interoperability in a multi-vendor, multi-network, multi-service environment

Interoperability is the **red thread** running through the entire ETSI standardization process

- Interoperability is addressed from the beginning
- Not something 'bolted on' at the end, it must be built-in



Typical Causes of Non-interoperable Standards

- Requirements not well identified or missing
- Ambiguous requirements
- Varying technical quality and use of language
- Inadequate handling of options
- Lack of clear system overview
- Loose definition of interfaces (reference points)
- Poor maintenance
- Using standards beyond their original purpose
- ...

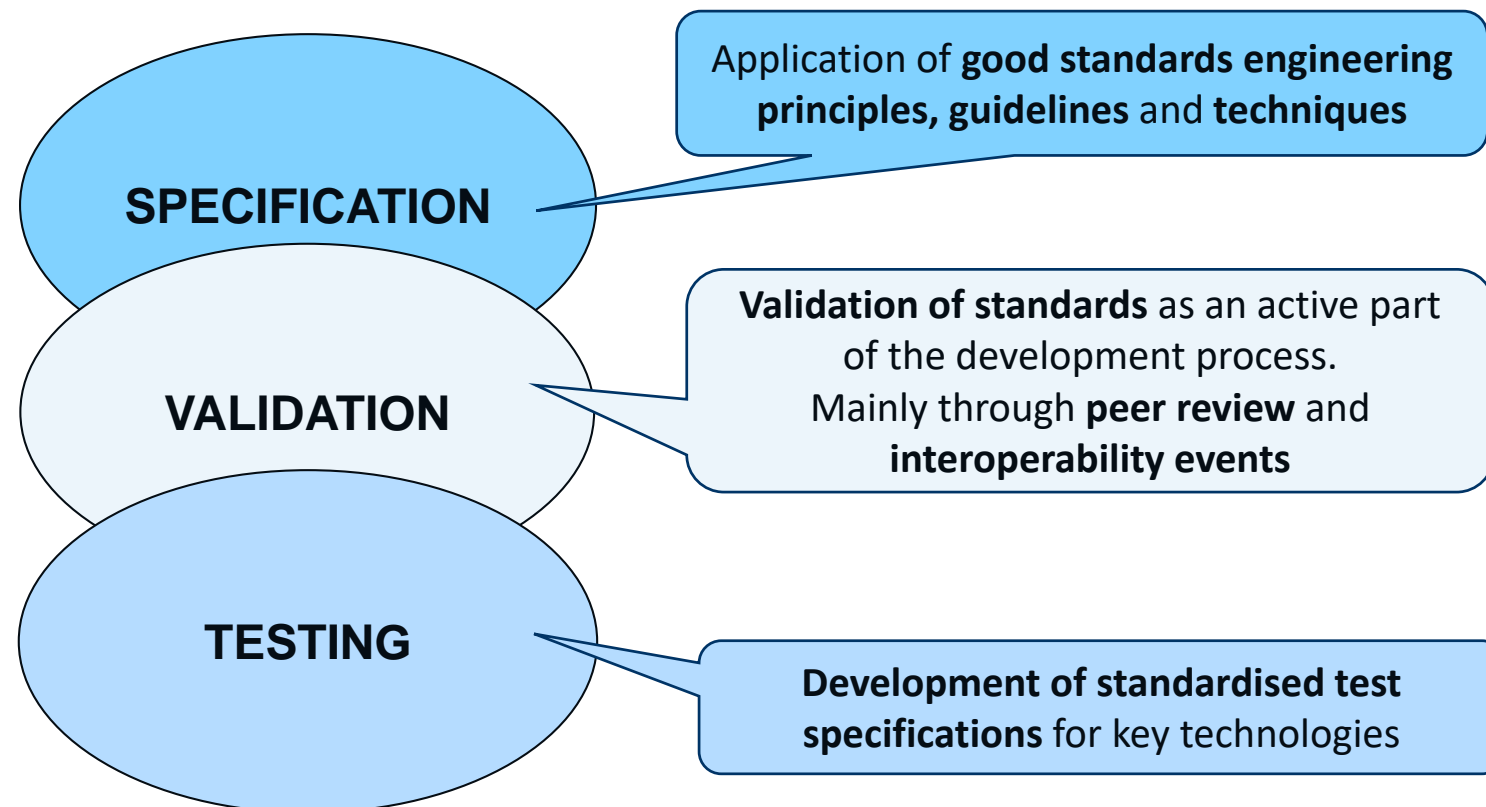
How to develop interoperable and robust standards

There is no Silver Bullet, but ...

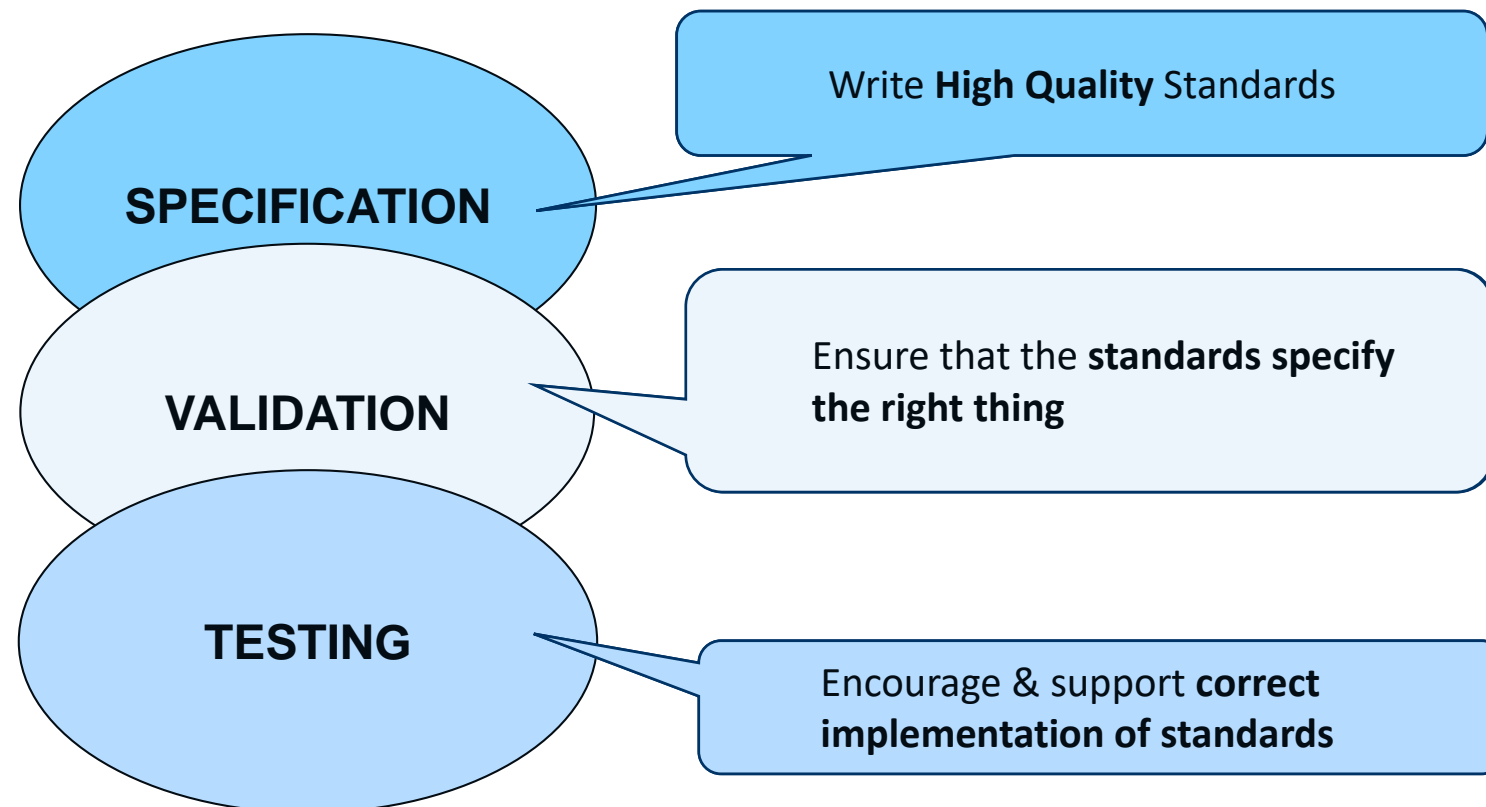
ETSI takes a pragmatic approach

- Write high-quality standards
- Ensure that the standards specify the right thing
- Encourage & support correct implementation of standards

Standards Development - Three Best Practices



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ETSI Support for Interoperability

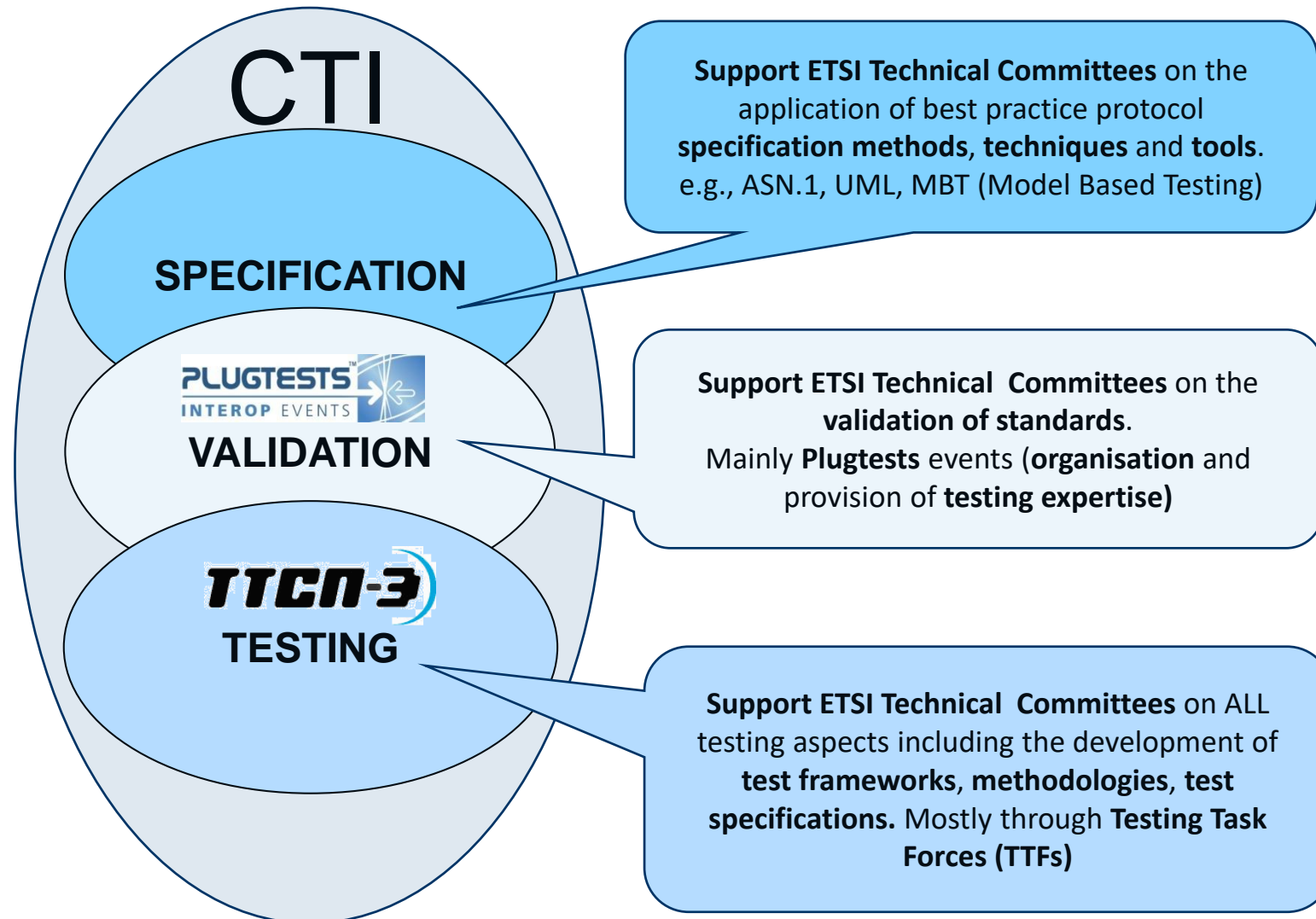
Technical Committee Methods for Testing and Specification (MTS)

- Standardised frameworks, methodologies, languages
 - For protocol specification
 - For testing

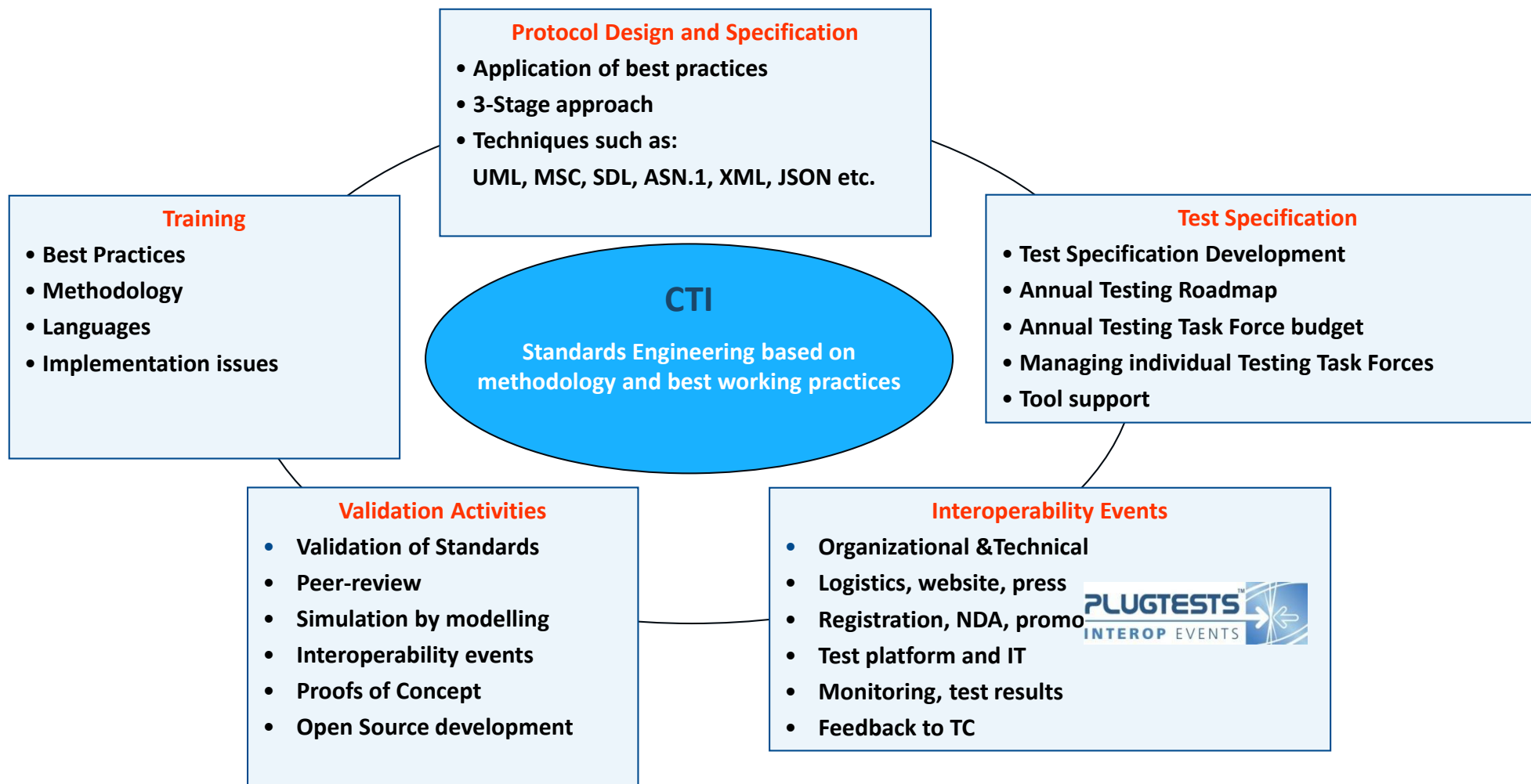
Centre for Testing and Interoperability (CTI)

- Direct support to ETSI Technical Bodies
- CTI experts can be attached to a standardization group and provide hands-on assistance

CTI Support to TBs for the Development of Interoperable Standards



CTI support to TBs



Useful Links

- [ETSI Approach to Interoperability and Testing](#)
- [An Introduction to Achieving Technical Excellence](#)
- [Guide to Writing World Class Standards](#)
- [Interoperability Best Practices](#)
- CTI & Plugtests: www.etsi.org/about/our-expertise
- TTCN-3: www.ttcn-3.org
- Contact CTI: CTI_support@etsi.org



Thank you for your attention

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Any questions?

Contact me:

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