



**Innotesting 2015**  
**Wildau, 19 to 20-02-2015**

**Development of Global Standards –  
Case Study: ISO IWA 16  
“CO<sub>2</sub>e emissions of freight transport”**

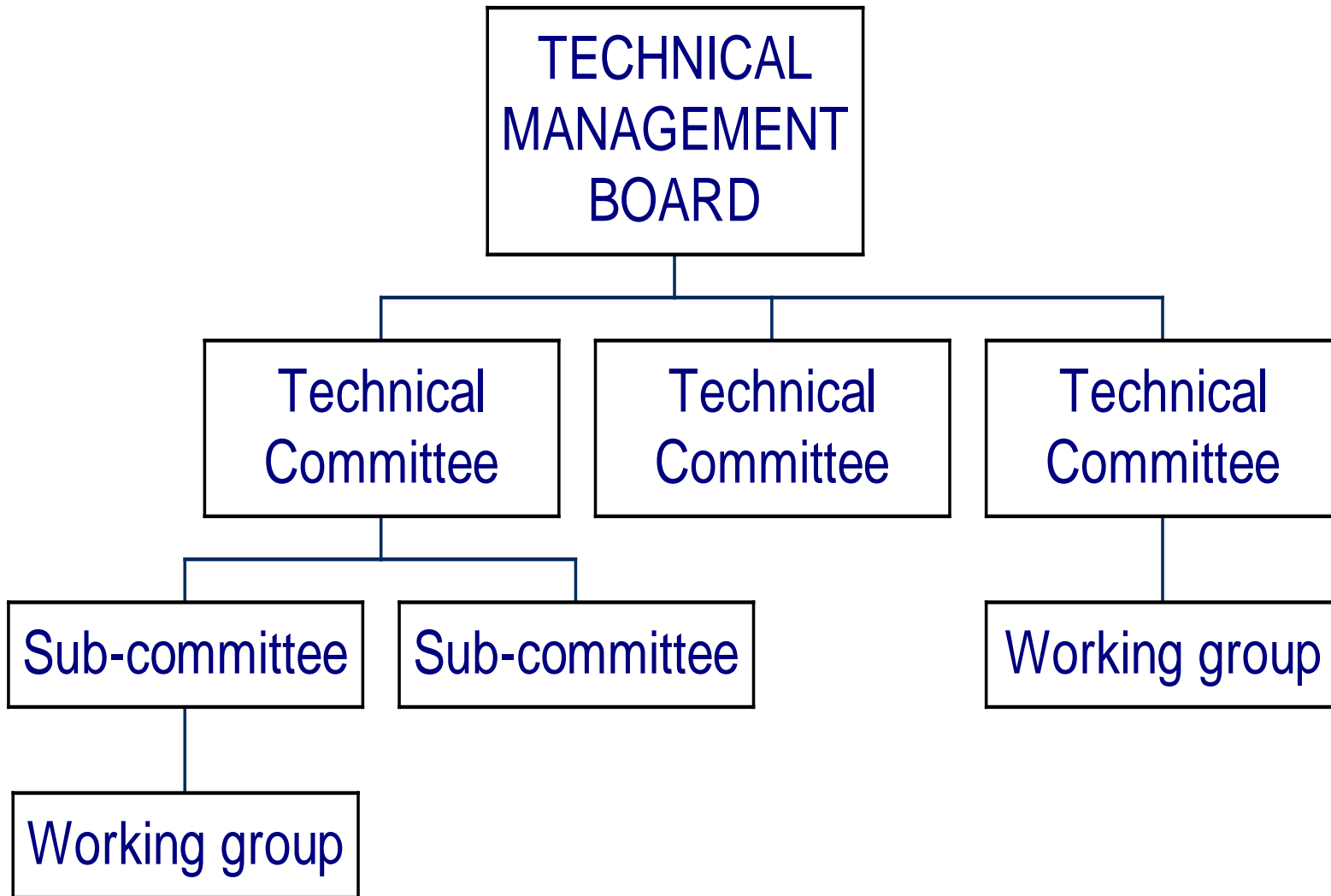
- An introduction: the ISO
- Path to ISO standards
- What is an IWA?
- Example IWA 16

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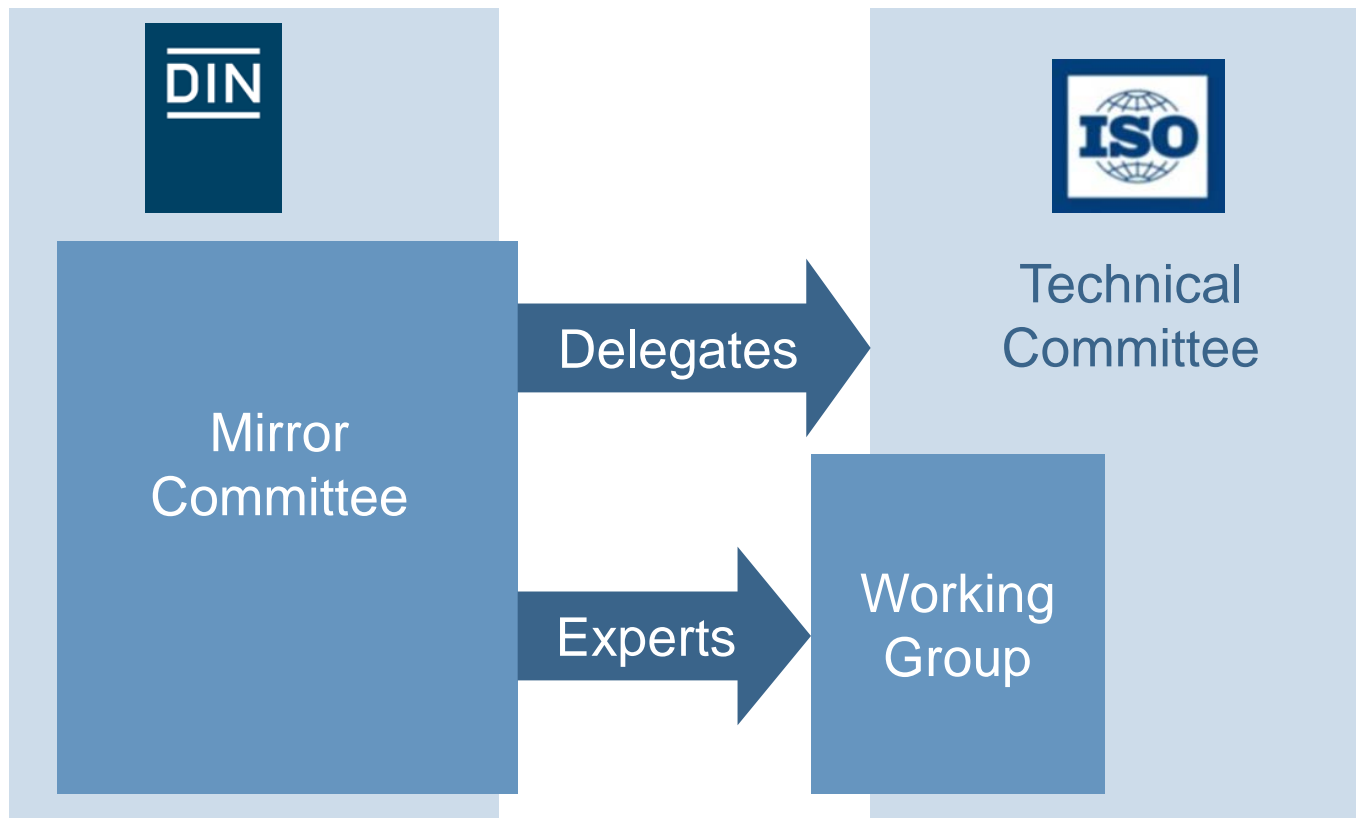
# International Organization for Standardization

- ISO world's largest developer of voluntary International Standards ([www.iso.org](http://www.iso.org))
- ISO is a network of **163** national standards bodies who represent ISO in their country
- More than:
  - 160 members and 620 organizations in liaison
  - 230 active Technical Committees
  - 3.480 technical bodies
  - 20.000 standards in catalogue
  - 100.000 experts
- DIN is the representing German member of ISO

# ISO Technical Committee Structure



# Involvement in European and International Standards Committees



# Standards are a Major Asset for

- **States and communities** – Economic competitiveness and access to world markets, regulation, sustainable development, loyal competition, public purchase...
- **Companies** – technology transfer, market knowledge, good management practices, quality recognition...
- **Consumers** – products and services comparison, quality improvement, information on performance, security and impact on environment
- **Researchers** – measurements, risk assessment, dissemination of innovation, not re-inventing the wheel...



# International Standardization – some Key Principles

- Transparency \*
- Openness \*
- Consensus and impartiality \*
- Market relevance and effectiveness \*
- Coherence \*
- Development dimension \*
- Stakeholder engagement
- Due process
- National implementation/adoption

*\* explicit principles for the “development of international standards, guides and recommendations with relation to articles 2, 5 and Annex 3 of the WTO/TBT agreement”*



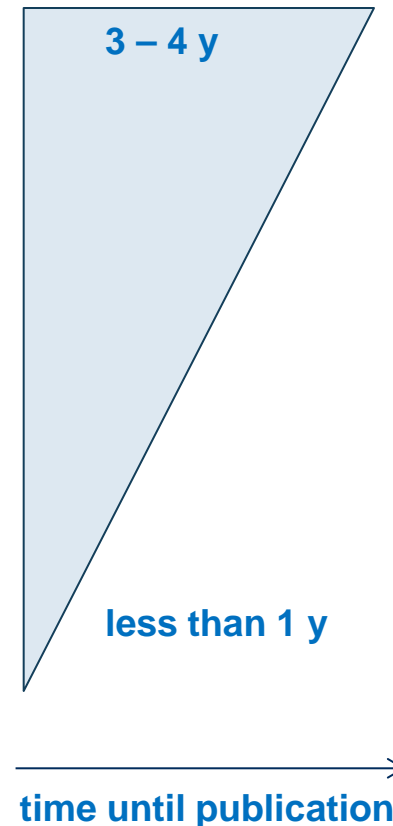
# Benefits of International Standards for Businesses

- Access to global markets
- Access to strategic information on market development and technological innovations
- Access to strategic partnerships
- Access to important ways of
  - Cutting costs
  - Improving performance
  - Extending regional and international markets
  - Meeting certification and conformity assessment requirements

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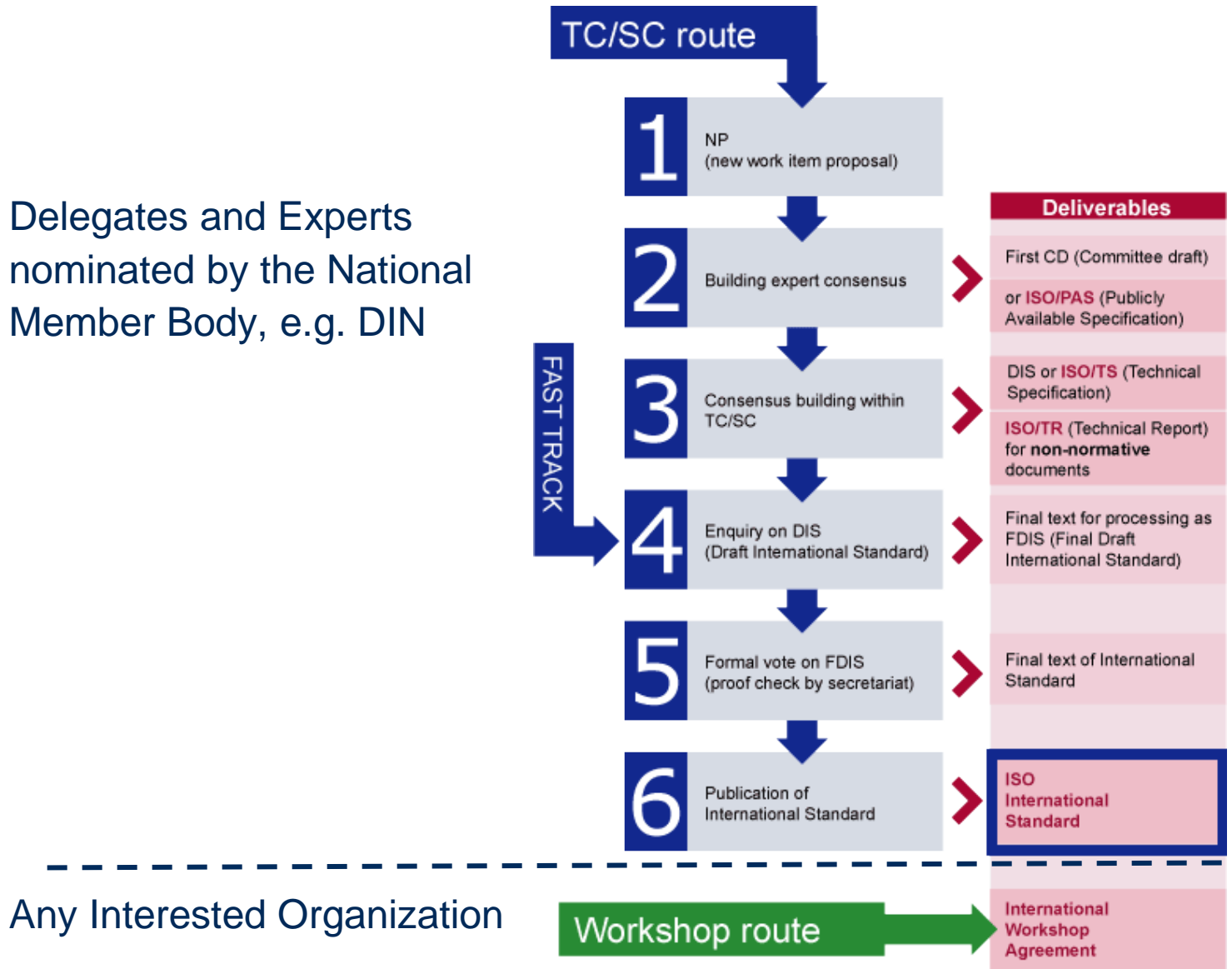
# International Standardization – Publications (ISO Deliverables)

- ISO International Standard
- ISO/TS International Technical Specification
- ISO/TR International Technical Report
- PAS Publicly Available Specification
- IWA International Workshop Agreement
- Guide



# ISO/TC Route and ISO-IWA Route

Delegates and Experts nominated by the National Member Body, e.g. DIN



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# International Workshop Agreement - IWA

- Produced through workshop meeting(s) and not through the technical committee process
- DIN as ISO member body was assigned to organize and run the workshop meeting(s)
- ISO ensures that the basic principles transparency, fairness and consensus are applied
- ISO and ISO members' distribution networks ensure worldwide visibility and help to influence future ISO standards in the sector
- Any interested party can participate, i.e. direct participation by market players and stakeholders possible

# IWA – Formal Conditions

- IWA can be produced on any subject and may contain requirements, recommendations and/or statements
- IWA shall include a list of workshop contributors and a description of the consensus achieved
- IWA should be published within less than 12 months
- Any IWA will be reviewed after 3 years:
  - confirmation for a further period of 3 years
  - further processed to become a Publicly Available Specification, Technical Specifications or International Standard
  - withdrawal
- IWA may exist for a maximum of 6 years

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# Example IWA 16

INTERNATIONAL  
WORKSHOP  
AGREEMENT

IWA  
16

First edition  
2015-02-01

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**International harmonized method(s)  
for a coherent quantification of CO<sub>2</sub>e  
emissions of freight transport**

*Méthode(s) internationale(s) harmonisée(s) pour une quantification  
cohérente des émissions de CO<sub>2</sub>e par le transport de fret*

# Motivation and Background

- End of EU FP7 project COFRET Carbon Footprint of Freight Transport
- European project vs. Global issue
- Industry's request for continuation of open platform
- Need to involve further stakeholders
- Internationally accepted format

# Timeline Development Process

- February 2014 Proposal approved by ISO members
- Workshop meetings:
  - 08-07-2014
  - 01 to 02-09-2014
  - 13 to 14-11-2014
- Web conferences between the meetings
- Dec 2014 Finalization of the draft
- 23th January 2015 Publication of the IWA 16 by ISO

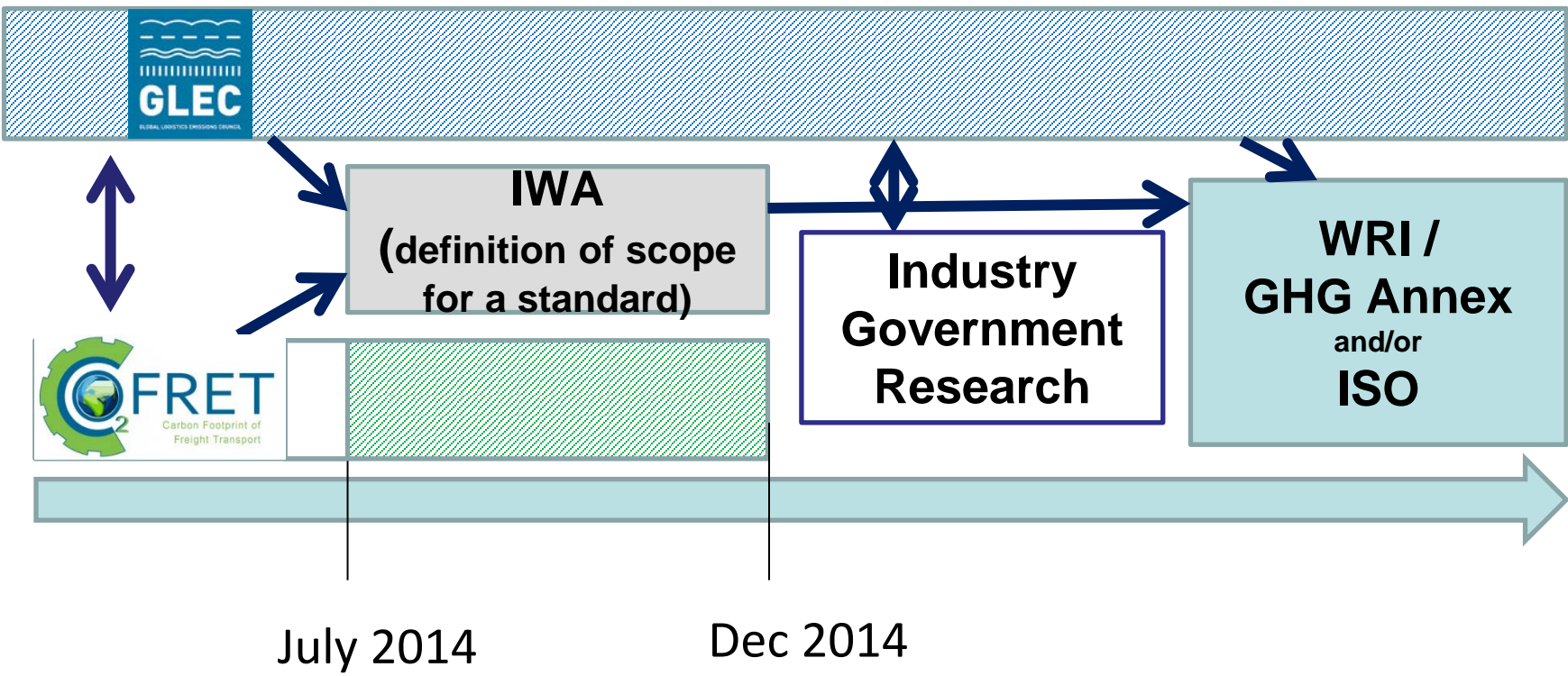
# Opportunities and Challenges

- Open participation, throughout series of sessions
- Neutral platform
- Scope and timeframe, agreed in the beginning
- IWA = step towards ISO standard

## Benefits of IWA 16

- consensus based standardization document created in a very short time
- raising awareness on complexity of this issue
- recommendations for starting points on further harmonization of this topic
- assistance for users in finding appropriate method(s)
- input for existing or future standards or other documents
- suitable as reference in any other standard or document, e.g. published by rulemaking bodies
- availability worldwide under the well known ISO brand

# Example IWA 16 - Outlook



Dr. Verena Ehrler – DLR  
Guido Höppner – DIN



[www.dlr.de](http://www.dlr.de)  
[www.din.de](http://www.din.de)