



# FIG WORKING WEEK 2023

28 May - 1 June 2023 Orlando Florida USA

Protecting  
Our World,  
Conquering  
New Frontiers

## Standards Network

D Martin, ESRF, Standards Network Chair



European Synchrotron Radiation Facility



Organized By



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## Standards Network responsibilities and activities



## What is a standard?

Generally, a standard is created to **fulfil a need**. For example:

- ⊕ - assure safety of products,
- 🎯 - ensure that products and materials are fit for their purpose,
- ⚙️ - promote and ensure the interoperability of products and services,
- 🏞️ - facilitate trade by removing trade barriers,
- 👥 - promote a common understanding of a product or service.

A standard will succeed when it satisfies the needs, requirements and expectations of its **stakeholders**.



## Main FIG standards

- In principle, the Standards Network has members from all of the FIG Commissions  
→ some commissions are more active than others.  
Key items presently linked to the Standards Network are:
  - ISO/TC 172 SC6 Survey Instrument Standards,
  - ISO/TC 211 Geographic Information/Geomatics ,
  - ISO TC 307 Blockchain and distributed ledger technologies.
- Non-ISO type Standards initiated by and/or which FIG is deeply involved:
  - International Property Measurement Standards Coalition,
  - International Land Measurement Standards Coalition,
  - International Construction Measurement Standards.
- OGC, IHO ...

## TC211

### SUSTAINABLE DEVELOPMENT GOALS

This committee contributes with 118 standards to the following Sustainable Development Goals:



**91**

published ISO standards \*

**26**

ISO standards under development \*

**37**

Participating members

**34**

Observing members

\* number includes updates

### Scope

Standardization in the field of digital geographic information, which aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth, including methods, tools, and services for data management.

### Participation



*FIG is an organization that makes an effective contribution to the work of the technical committee or subcommittee for questions dealt with by this technical committee or subcommittee.*

## TC172 SC6

### SUSTAINABLE DEVELOPMENT GOALS

This committee contributes with 15 standards to the following Sustainable Development Goals:

4 9 11

14

published ISO standards \*

1

ISO standard under development \*

14

Participating members

9

Observing members

\* number includes updates

### Scope

Standardization of terminology, requirements and test methods for geodetic and surveying instruments, their components and accessories.

### Participation



*FIG is an organization that makes an effective contribution to the work of the technical committee or subcommittee for questions dealt with by this technical committee or subcommittee.*

## This week – standards for Surveying by Drones two sessions

This working week there are two sessions dedicated to a standard for surveying by drones:

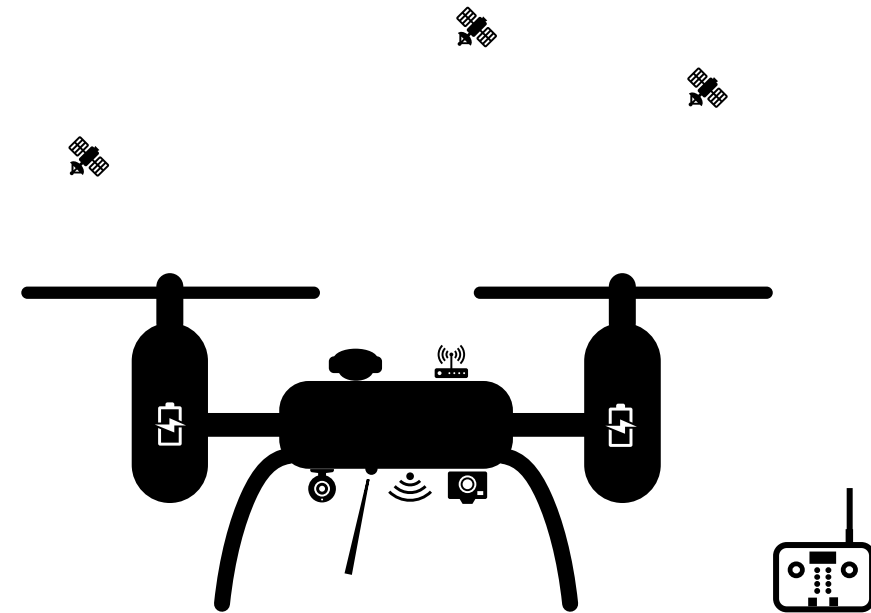
- TS01F Monday 29 May 11:30–13:00 Palm: Surveying by drones - session 1: Theory, Practice, and Standards,
- TS02F Monday 29 May 14:00–15:30 Palm: Surveying by drones - session 2: Panel Discussion,

### *Technical Details for Surveying by Drones including:*

- *Site Planning*
- *Mission Planning*
- *Data Acquisition*
- *Data Processing*
- *Map Production*
- ...

### *Operational Best Practices for Surveying by Drones including:*

- *Payload Sensor Choice for Different Applications*
- *Georeferencing Method for Imaging Sensors*
- *Data Processing Best Practices*
- *Map Production Best Practices*
- ...



## TS08H: FIG Standards Meeting - Wednesday 31 May 14:30–16:00, Madison

General presentation of the status of activities in the Standards Network covering:

- ISO/TC 211 Geographic Information/Geomatics,
  - ISO/TC 211/Advisory Group 12, Control body for the ISO geodetic registry (ISOGR)
  - ISO/TC211 19152 LADM Edition II,
- ISO/TC 172 SC6 Survey Instrument Standards,
- International Property Measurement Standards IPMS,
- International Construction Measurement Standards,
- Hydrographic surveying standards,
- Standards for Surveying by Drones,
- ...



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*Protecting Our World, Conquering New Frontiers*

Global Challenges  
Standards Network  
Consensus Purpose  
People  
Governance  
Society  
Society  
Partnership  
Communication Action  
People clarity  
Planet iso

