

Presented at the FIG Working Week 2019,  
April 22-26, 2019 in Hanoi, Vietnam



# FIG 2019-2022

## Volunteering for the Future

by

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FIG-President



# Content

- 1. Introduction – changes over the last 30 years**
- 2. Vision and Motto 2019 - 2022**
- 3. The major targets for the next 4 years**
- 4. Our contribution to the SDGs**

1989



**1994**

**IBM "SIMON"  
1<sup>st</sup> smartphone**







2007





2013



We are available everywhere at any time

....

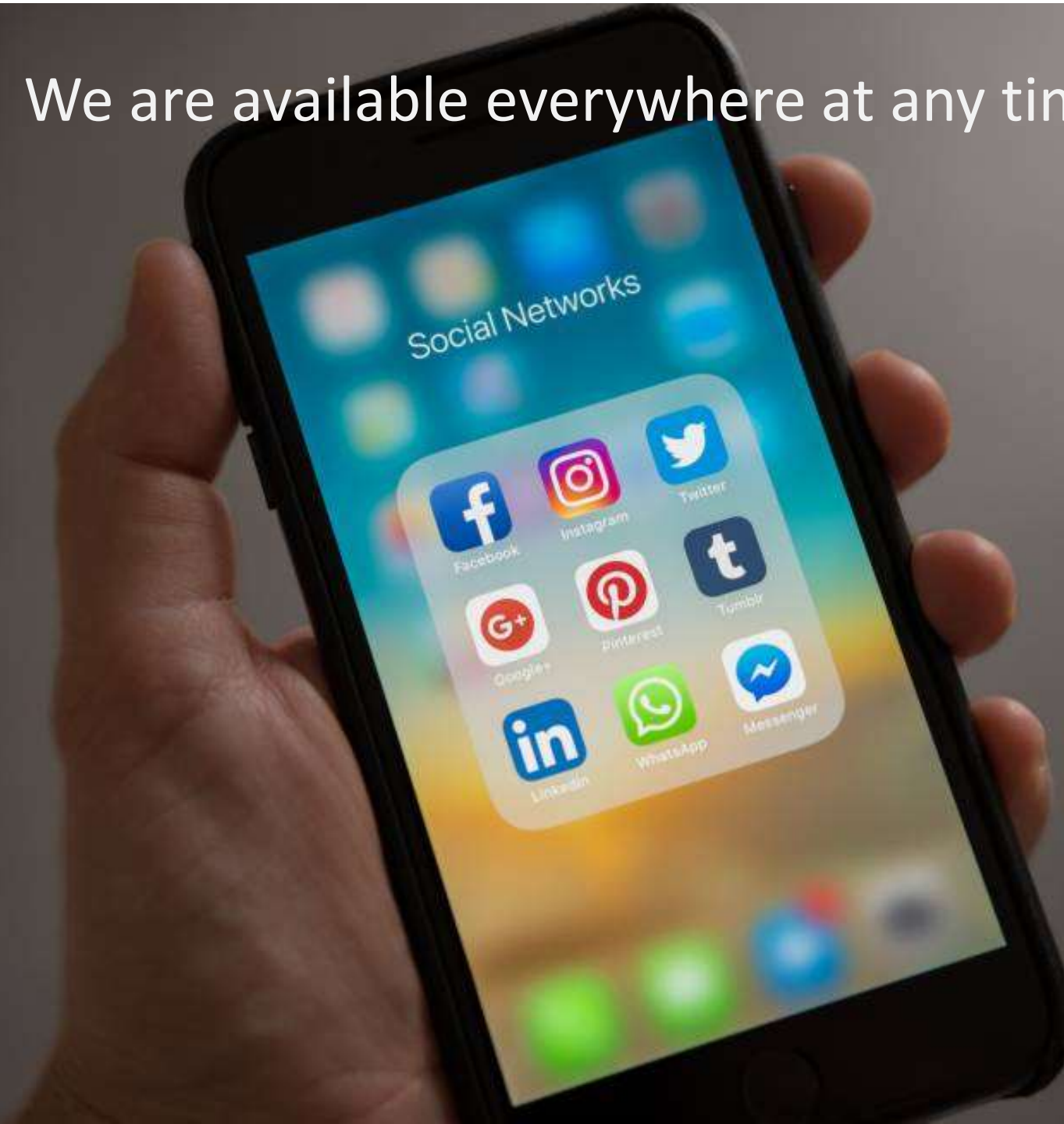
sms

www

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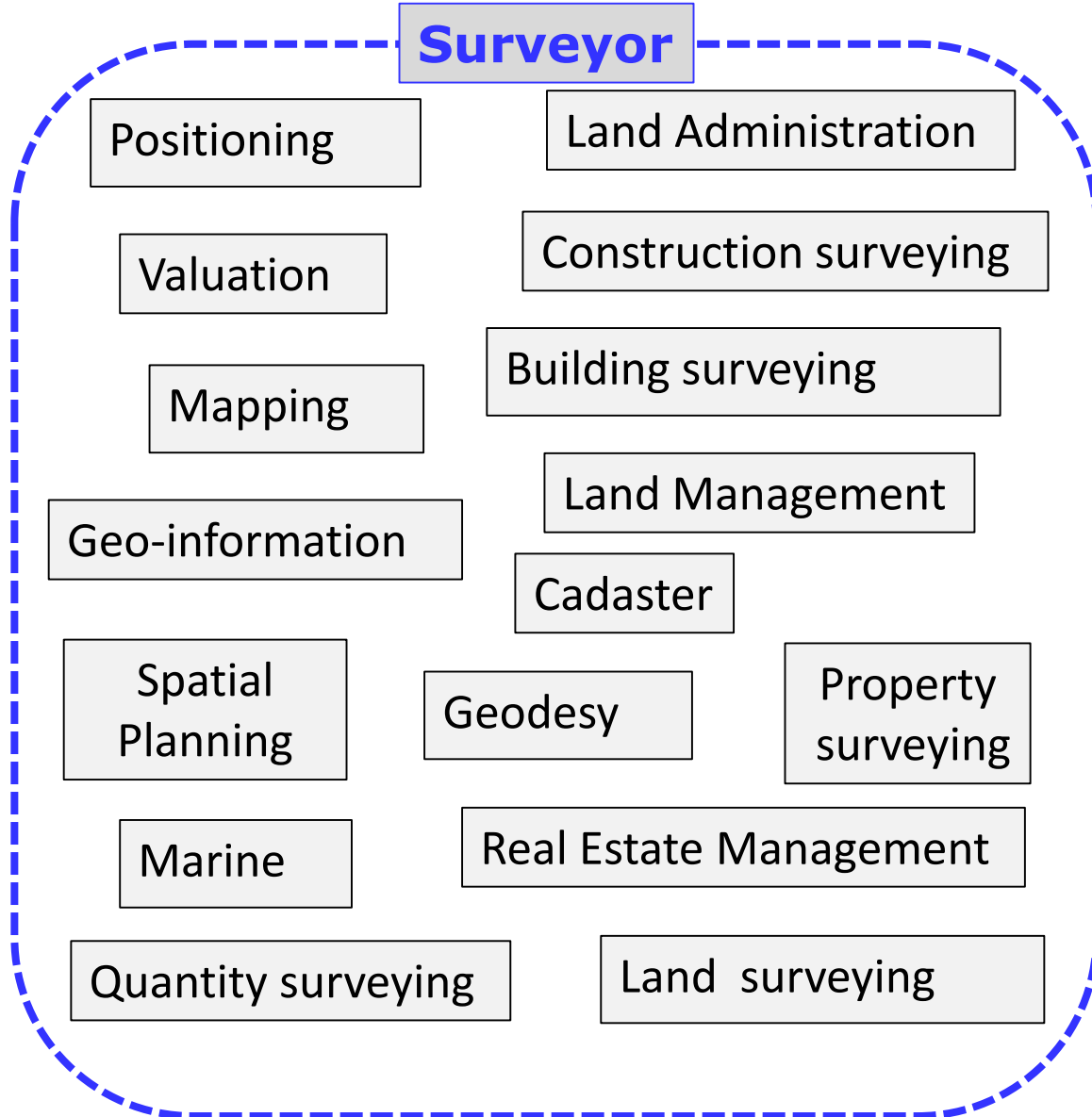


## Our Society 2019

- Increased mobility
- Globalized world
- *CONNECTED* and *ONLINE* always and everywhere !!



# FIG- International Federation of Surveyors - what is “surveying”



# Changes in our profession

- **A lot of technical progress ...**

**networks**

**cloud solutions**

**software**

**Computer**

**AI**

**Instrumentation**

- **Big data ...** a Challenge!



# Big Data

2,500 000 000 000 000 000 000 000

Bytes produced per  
day

2.5 **quintillion** bytes

During the last 2 years mankind generated  
more information than in the entire history before

Source: BSI - British Institute of Standards

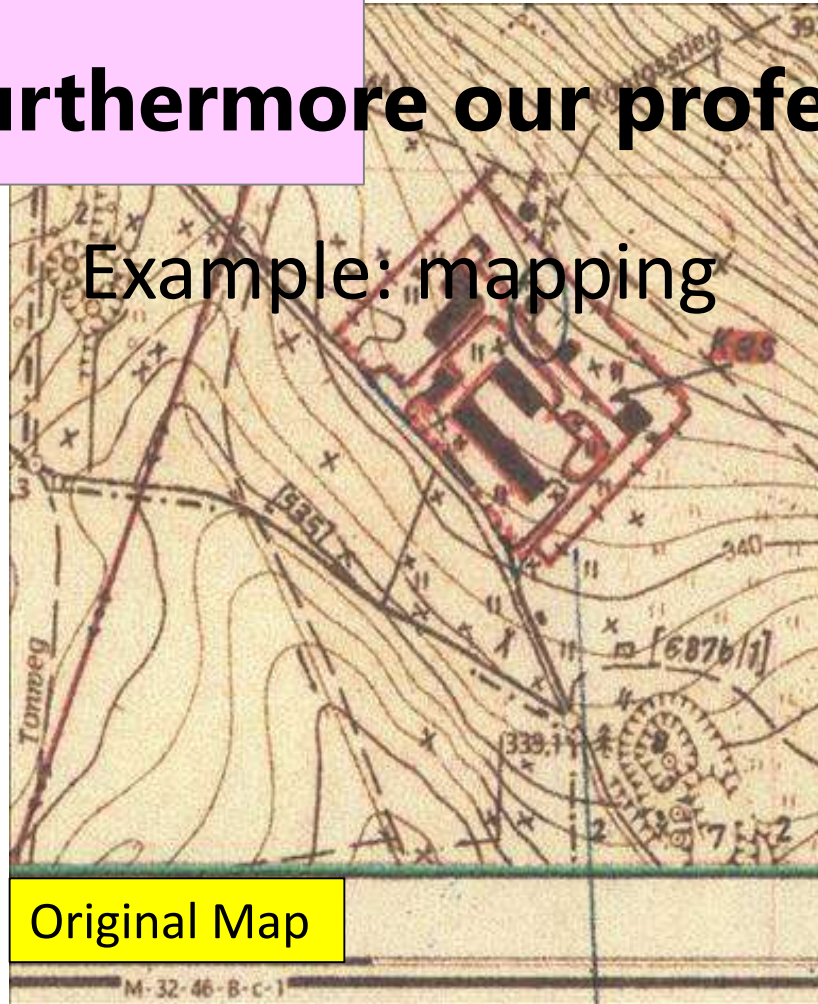
**Big Data** = large and complex data which cannot  
be compiled using traditional analysis techniques

## Mapping yesterday

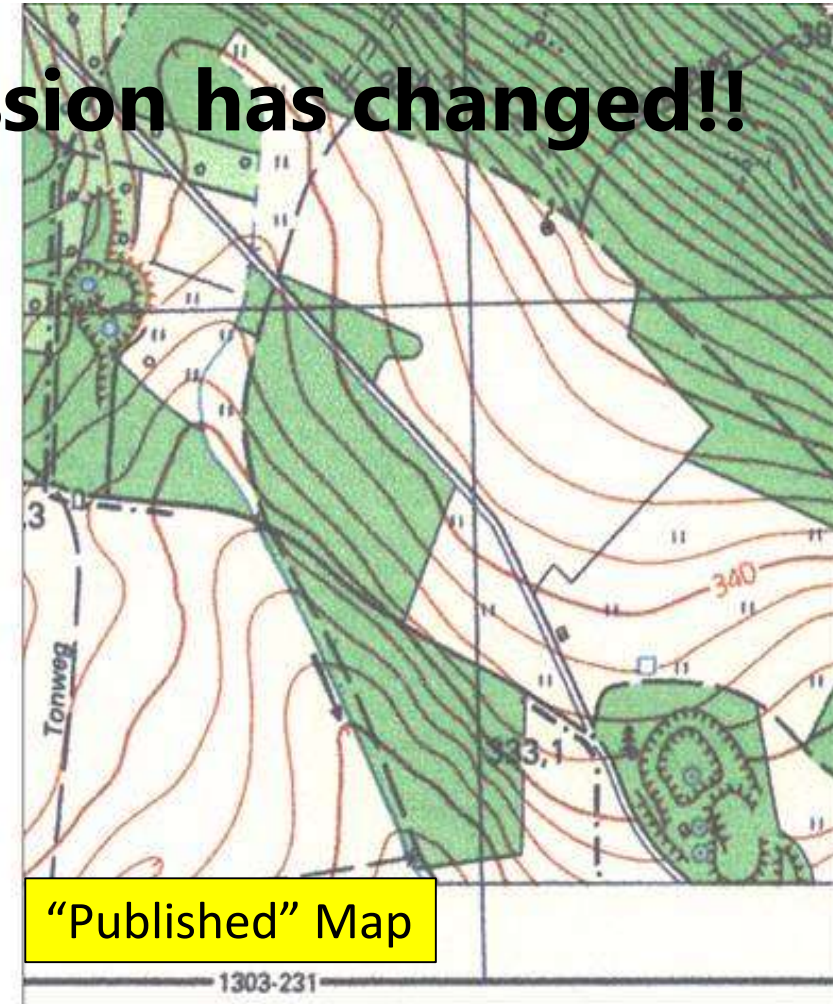
- Secret or limited access
- Only paper-version
- Expensive
- Out-of-date

Furthermore our profession has changed!!

Example: mapping



Topographic map from GDR  
(former East-Germany)



Source: K. Brunner,  
UniBw Munich





## Google MAPS 3D Hattingen (Germany)

### Mapping today

- **Public good!**
- **Digital product!**
- **Free of charge**
- **Up-to-date!**
- **High quality!**
- **Nearly no blind spots**





# Copernicus-satellite-program



sentinel-3



sentinel-2



sentinel-1



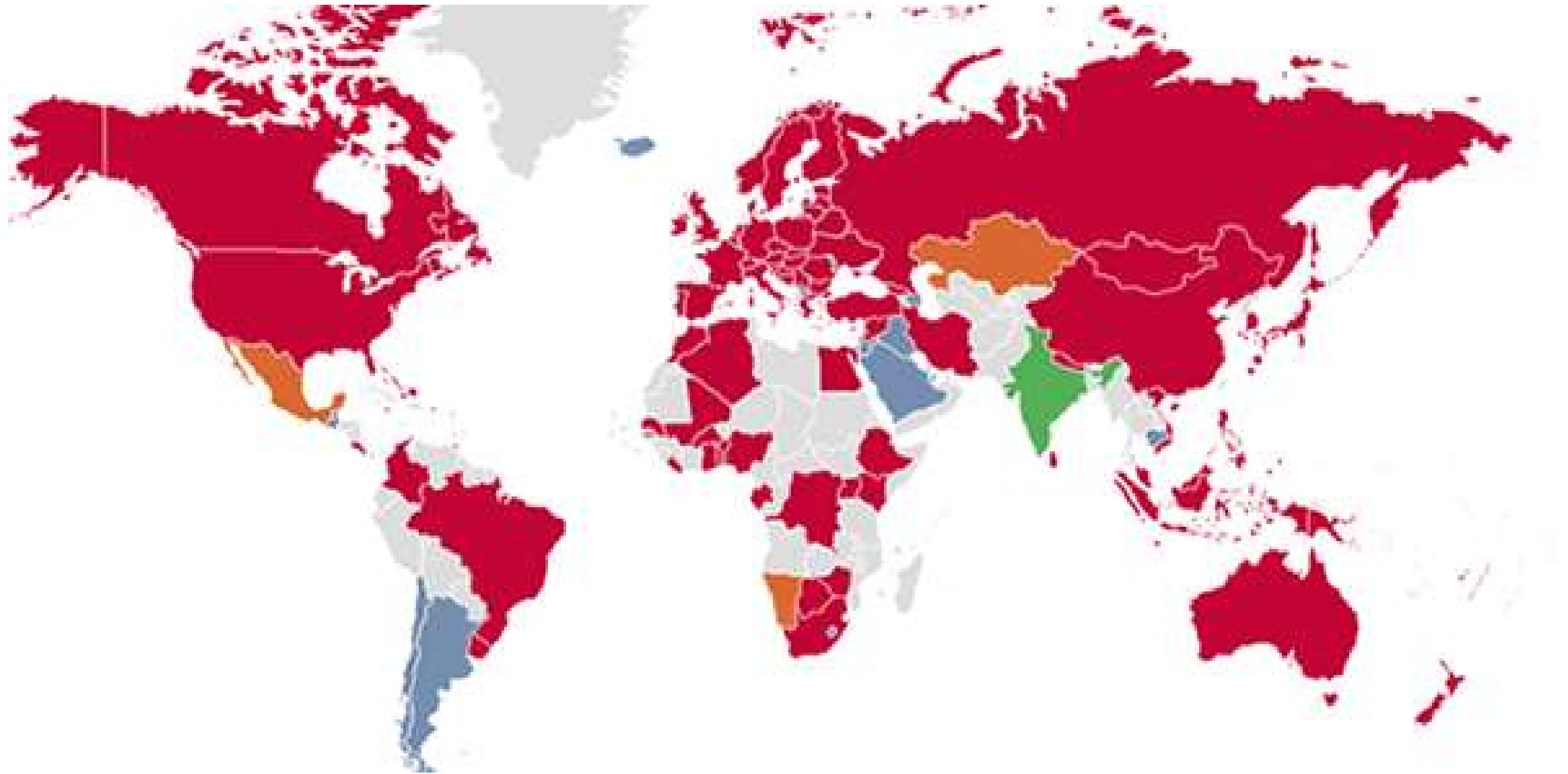
sentinel-5p



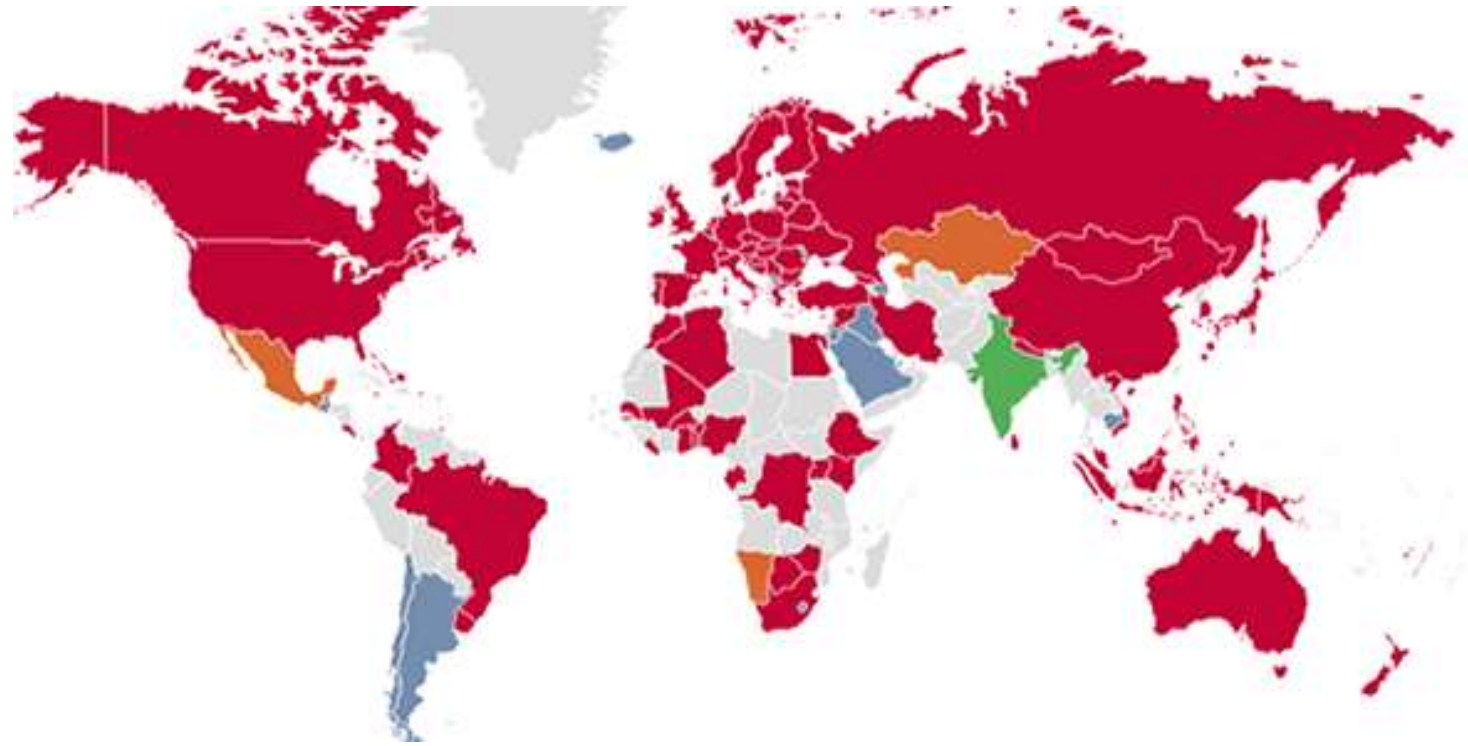
sentinel-5



# Changes in FIG



# Changes in FIG



Over the last 30 years:

- FIG became really **global!**
- Better **performance** -> permanent Office in DK
- More **democratic**: -> personal voting system



**FIG 2019 - 2022**

**Vision**

Surveying is a modern profession acting worldwide for a better infrastructure for our society and planet earth.

FIG wants to keep, and even improve, its role as the premier non-governmental organisation, that represents the interests of surveyors worldwide

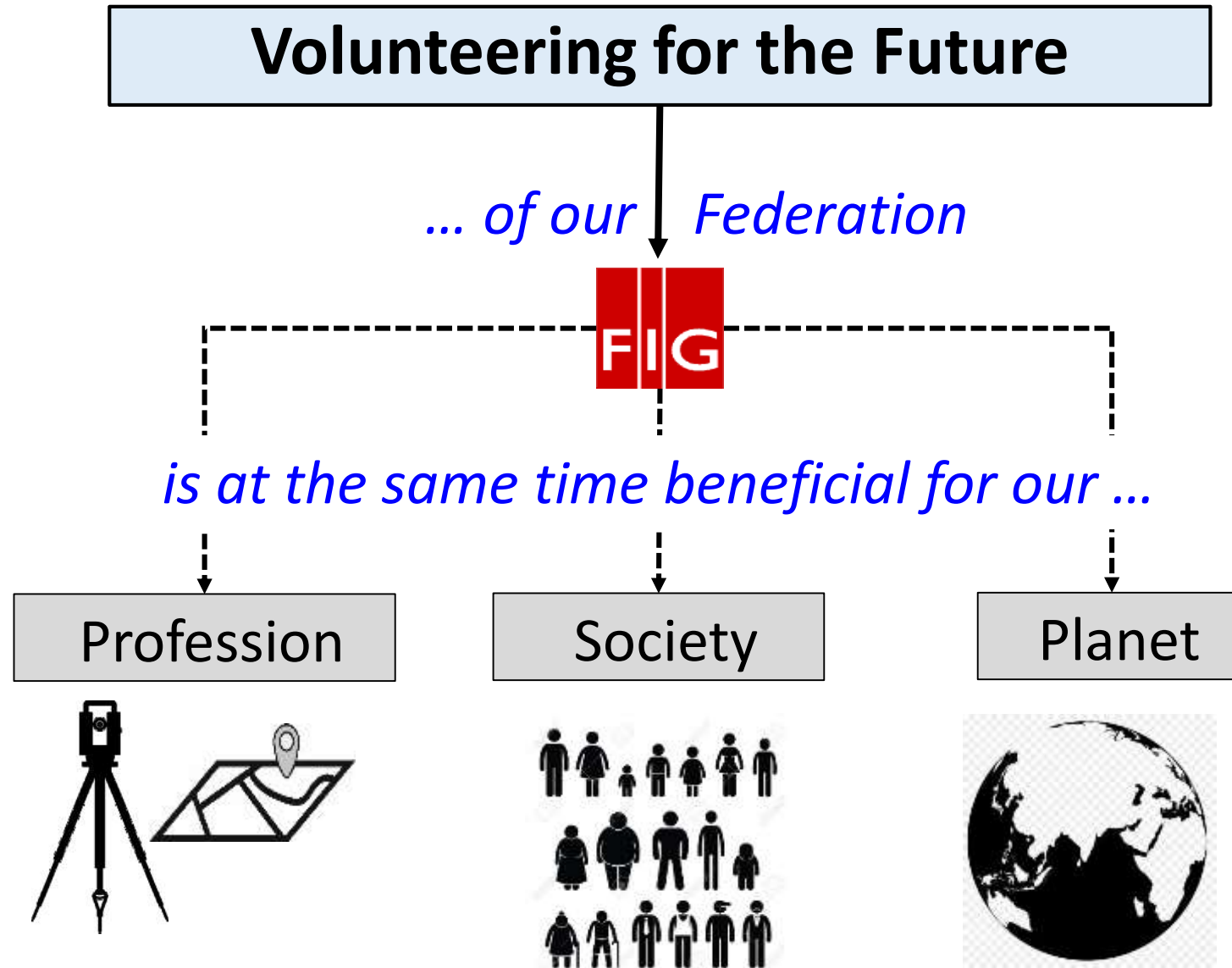
**Motto**


**Volunteering for the Future !**

## How to volunteer?

- To **promote** FIG in our personal professional environment
- To **participate** in FIG Working Weeks and Congresses
- To **encourage** and **motivate** others to participate in future FIG events and activities.
- To **contribute** actively to our events  
by giving presentations, writing publications
- To **participate** actively in the work of our Commissions,  
Working Groups, Networks, and Task Forces.
- To **assume responsibility** as the Officer of a Commission, Network or Task Force.
- To **support** the next generation of FIG members





Making  “Fit - for the future”

Promoting the relevance of our profession  
together with our partners!



**TF on Governance** succeeding the **TF on Commission Structure**

**YSN** better integrated into FIG  **Don't miss the plenary on Thursday!**

**FIG 2028** Develop long-term-strategy!!

**FIG- Fit for the Future!!**

**Commissions + Networks** Stronger!

**FIG-Foundation** Period of transition for the next 2 years!

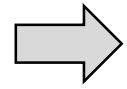


**17 Goals 169 targets 230 indicators**

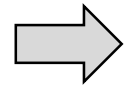
*Declared in 2015 .... Should be achieved by 2030*



**TF on SDGs** led by **Paula Dijkstra** (Netherlands)



Identify the Goals where our profession has potentially the biggest impact



coordinate the activities inside FIG

**Special Session**  
**Thursday, 25 April, 11:00–12:30**  
**"ESRI ROOM"**

FIG-Publication 60, 2014



INTERNATIONAL FEDERATION  
OF SURVEYORS (FIG)



WORLD BANK

Stig Enemark  
Keith Clifford Bell  
Christiaan Lemmen  
Robin McLaren

Only 30% of the land worldwide is registered!

Source: World Bank Conference  
“Land and poverty” March 2019

Land registration is contributing to ...

- Social and civil security
- Peace
- Economic benefits (loan, ...)
- Less conflicts due to land

## Fit-For-Purpose Land Administration



JOINT FIG / WORLD BANK PUBLICATION

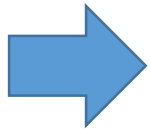


Land registration

Ambitious target until 2030 ... increase of + 30%

ok, .... Is there enough time / money for the implementation of a classical cadastre??

**NO**

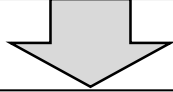


**FFP** is an interesting **general approach**, which needs to be adapted to each single case !!

In order to find exactly out what **FFP** is standing for and what not ...

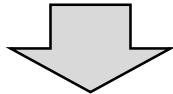
**Wednesday, 24 April, 14:00–15:30 "Make Your Mark. Room"  
chaired by Daniel STEUDLER**

**YES**, classical cadastre is too expensive and not fast enough



**Faster solutions** adapted to the specific needs

For example: based on the FFP-Approach (Enemark et al. 2014)



**But** this does not mean that the realisation is always easy and without problems!!

**Expectations** are sometimes too high!!

***Time +++ costs +++ maintenance +++ updates +++***

**!! also reservations regarding FFP in our own community !!**

**FFP** does not replace classical cadastre ... it is rather an extension !!!

**FFP** is not a ready-to use-solution!

**FFP** we need best-practice examples and textbooks!!

### Rumours

- .... Surveyors who do not act ethically correct
- .... Lawyers who do not act ethically correct
- .... Notaries who do not .....

**Include ethical  
codex and training**



**IF** we “**the surveying + geospatial**”-community are not participating .... it will happen without us!

## Role of **FIG**

- Offering a platform for stakeholders
- Being a link between stakeholders
- Building the capacity for new adapted approaches !!



Thank you very much for your attention

