



# Washington Round Table

the first

# Global Surveyors Day



# CLGE Round Table @ World Bank

## Session

### 08-02: Surveyors in Today's World: a Round Table

Time: Wednesday, 21/Mar/2018: 3:45pm - 5:15pm

Location: MC 13-121

Session Chair: Maurice Barbieri, CLGE (Council of European Geodetic Surveyors), Switzerland

## Presentations



### Role of Surveyor in Implementing a Sustainable Fit- For-Purpose Land Administration

Nicolas Smith

Comité de Liaison des Géomètres Européens (CLGE), Belgium

### Is There A Need for Reviewing Surveying Standards?

James Kavanagh

RICS, United Kingdom

### Professionalizing the Sector: What Role for Professional Ethics and A Code of Conduct

Jean-Yves Pirlot

CLGE (Comité de Liaison des Géomètres Européens), Belgium

### New Ways for Training of Surveyors

Vladimir Krupa

CLGE, Croatia

### Tomorrow's Surveyors : Will New Data and Technologies Change the Demand for Surveyor Services

Maurice Barbieri

CLGE (Council of European Geodetic Surveyors), Switzerland

 08-02-Barbieri-1023\_ppt.pptx



# Merry Surveyors' Day!



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SCHULZ

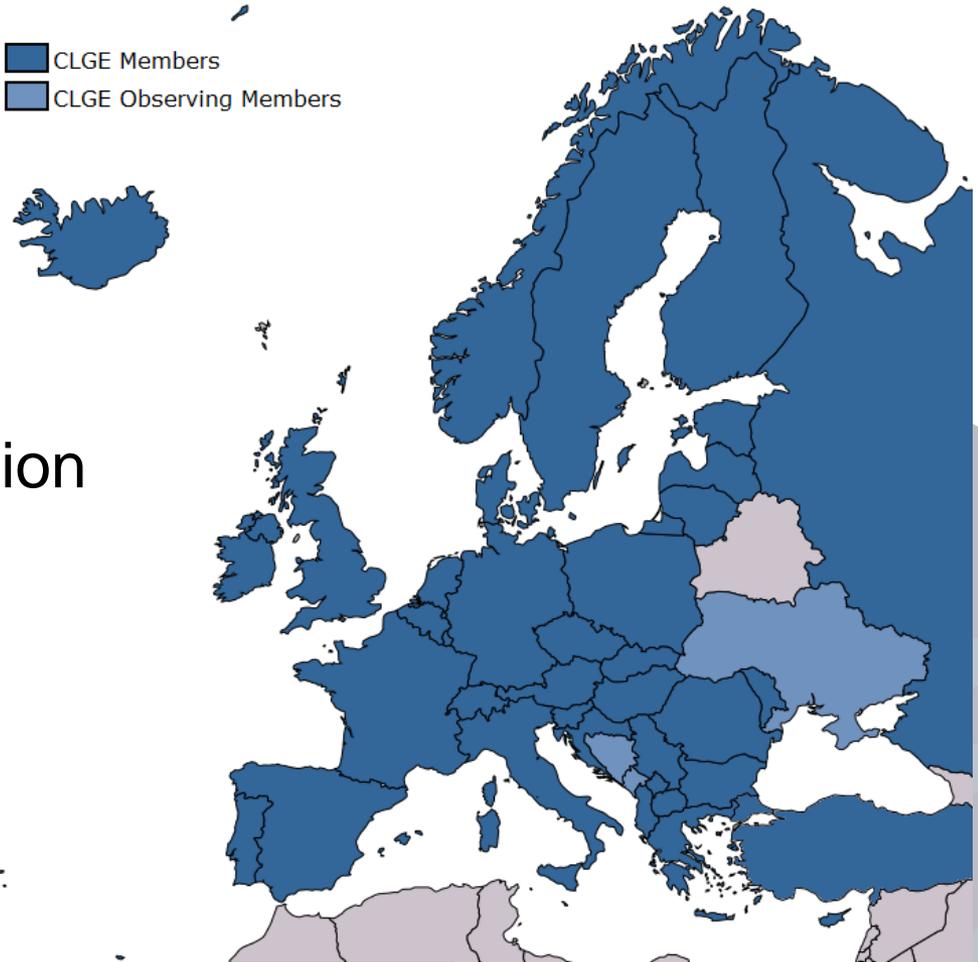




# Leading Surveyors Association

- 37 Member countries
- + 3 Observing members
- 28 EU Members States
- >> 100.000 Surveyors
- Requires close cooperation
  - FIG, YSEN, ...
  - EuroGeographics, PCC
  - European Bodies
  - National Associations

■ CLGE Members  
■ CLGE Observing Members





The **Council** of European Geodetic Surveyors

**Comité** de Liaison des Géomètres Européens

# The surveyor in Today's' world



Join at

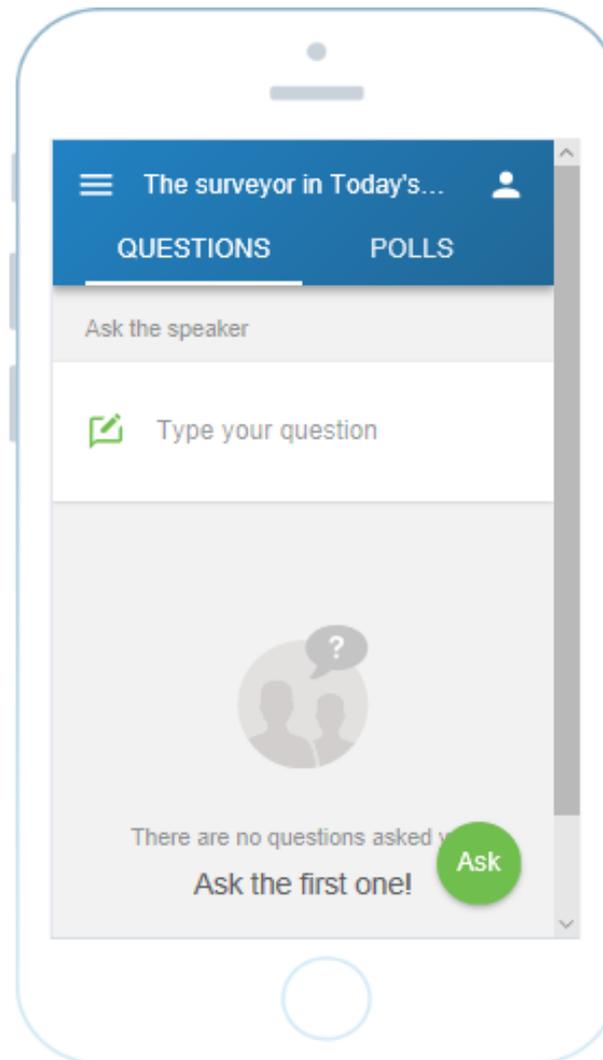
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# The surveyor in Today's' world



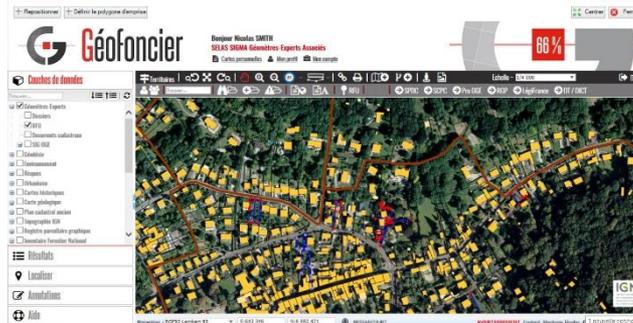
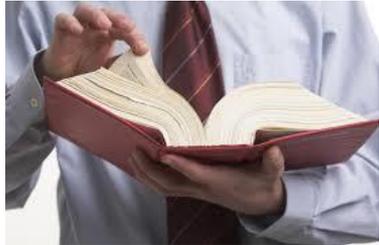


# Role of surveyor in implementing a Sustainable Fit for Purpose land administration





# Paris Round Table



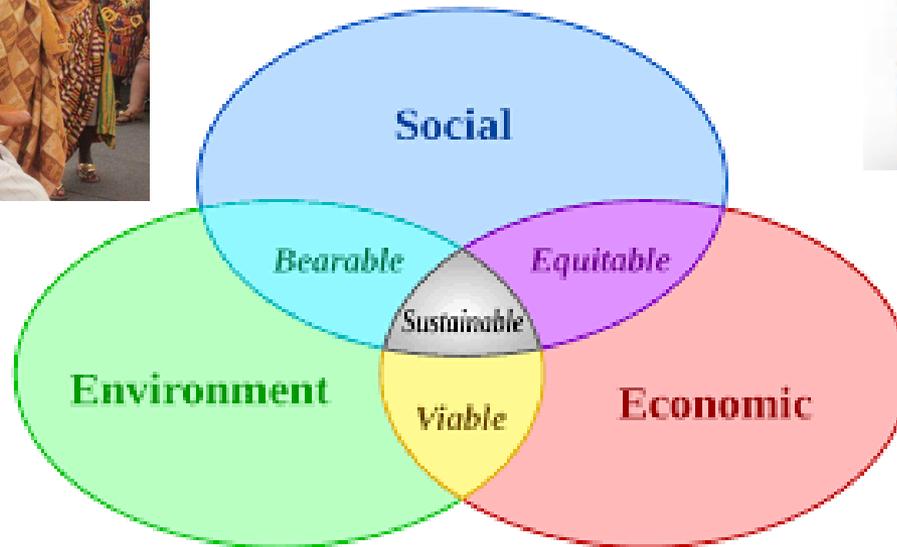


# Paris Round Table





# Paris Round Table





# Is There A Need for Reviewing Surveying Standards?

- Brief introduction – James Kavanagh
- The role of surveying/geospatial standards
- Technical standards versus professional best practice standards
- Translating Global/Regional/national standards for use by surveyors
- International standards as a platform for professionalism
- ‘Soft’ standards – ethics, legal, policy





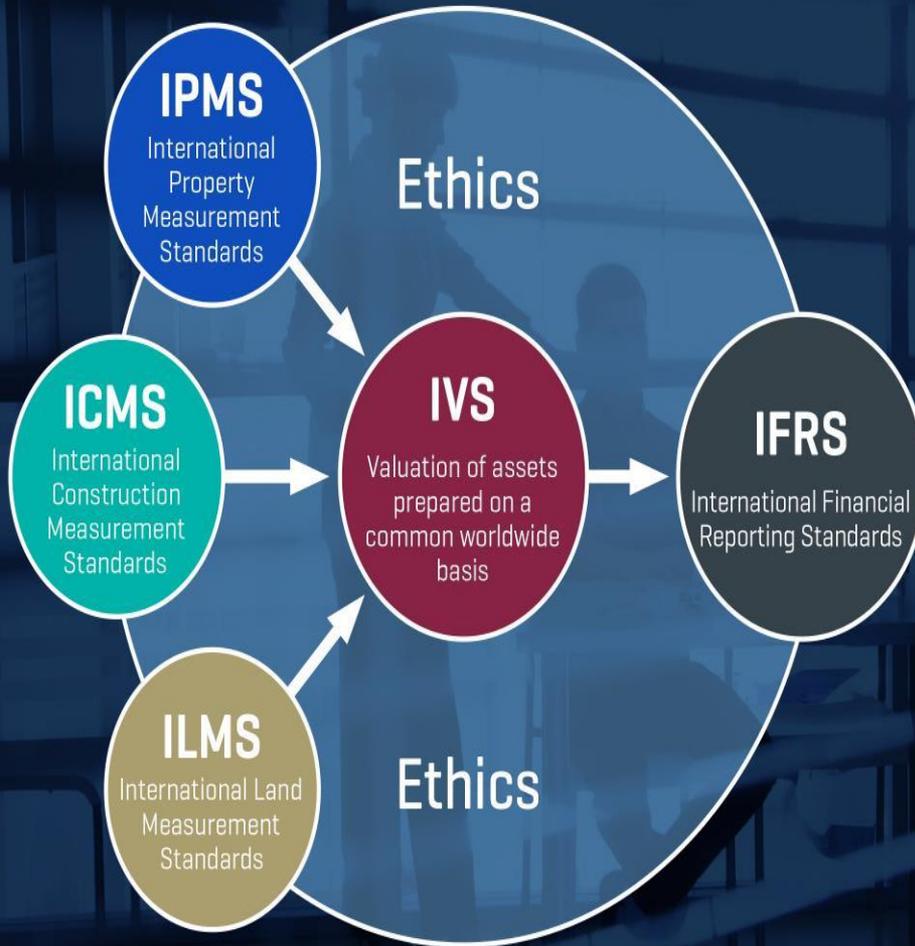
## Hierarchy of geospatial standards



- TC211
- Publicly available standards - PAS
- Best practice standards/guidance
- Open standards – BuildingSmart
- Regional initiatives - InSpire



# International standards – working together





## Professional ethics and a code of conduct

- Ethics are important ! ?
- Ethics change (in time and space)
- Professional Ethics
  - The European Example
  - Worldwide initiatives





## FIG Commission 2017 in Cartagena

Kadaster International participated in the annual meeting of FIG Commissions 7 and 9, that took place in Cartagena, Colombia in December 2017. The theme was 'Cadastre for Emergencies and Disasters – Challenges and opportunities for islands and coastlines'. The programme was well thought out, with a mix of international and Colombian speakers. Mr. Jorge Muñoz from the World Bank gave a keynote speech about the LAND 2030 initiative to secure land rights.



The discussions related to the renewal of the cadastral system and land registry in Colombia were very relevant considering Kadaster's activities in the region. A proper land administration is important in the context of the peace treaty between the Colombian Government and the FARC. Colleagues from Kadaster presented on the international projects in Colombia and Nepal as well as on the need for review and improvement of LADM.

| Paula Dijkstra

## Further enforcement of our team



EDITORIAL

## Ethics change

When working in the international scene, some subjects are always a success if it comes to small talk. Horrible flights, bad food, strange taxi-drivers and extreme weather conditions. These subjects are excellent to break the ice and to connect.

Likewise, technical people like to tell each other stories about the technology of the past. In the end, all of us started their career with a very heavy mobile phone and computers with no memory. The conclusion is always that technology has changed so fast, we can hardly believe we have experienced it all.

An issue not so suitable for chit-chat is how our ethical compass changes over time. Sure, the fact that 30 years ago airplanes had smoking areas is nowadays remembered as 'unbelievable', but for most people that is more a health issue than an ethical consideration. But if it comes to more social subjects, discussions become more complicated. How to treat animals is such an example. Nowadays we have a political party for animals in the Netherlands. At the beginning for many people perhaps laughable, but within



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EDITORIAL

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Ethics is something we should take in mind in land administration as well. Perhaps Fit-for-Purpose Land Administration should have an ethical framework too. And as purposes changes all the time, so do ethics. Challenge your thoughts. Just an example: What if animals will have the same land rights as people in the future?

| Kees de Zeeuw, Director Kadaster International

march 2018 | [abroad](#)

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# Services Directive 2006

L 376/36

EN

Official Journal of the European Union

27.12.2006

DI

## Article 37 Codes of conduct at Community level

1. Member States shall, in cooperation with the Commission, take accompanying measures to encourage the drawing up at Community level, particularly by professional bodies, organisations and associations, of codes of conduct aimed at facilitating the provision of services or the establishment of a provider in another Member State, in conformity with Community law.

2. Member States shall ensure that the codes of conduct referred to in paragraph 1 are accessible at a distance, by electronic means.

THE EUROPEAN PARLIAM  
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Having regard to the Tr  
nity, and in particular th  
and Article 55 thereof,

Having regard to the pr

Having regard to the Opinion of the European Economic and  
Social Committee (1),

Having regard to the opinion of the Committee of the Regions (2),

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and better services at lower prices.



# CLGE Code of Conduct

- Preparations 2007 – 2009
  - Expertise of Dr. Frances Plimmer from FIG
  - Inspiration Common Values Ceplis
- Signed on 10 September 2009 in Rome
- Series for acknowledgements, approvals or ratifications by our members
- Published in the DB of code of conduct by the EESC



# Solemn Signing in Rome





old.eesc.europa.eu/?i=portal.en.smo-database&fiche=163

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European Economic and Social Committee  
a bridge between Europe and organised civil society

Home Géomètres Européens

### Description of the Initiative

Sector Self/Co-Regulation Basic Act Geographical Coverage Description **Linkbox**

#### Linkbox

Please find here the related documents and regulations for this initiative.

Related Links	Related Documents
<a href="#">Directive 2006/123/EC of the European Parliament and of the Council of 12 December 2006 on services in the internal market, OJ L 376, 27.12.2006, p. 36-68</a>	<a href="#">Private Act</a> en

<b>Date of Submission</b>	15/09/2015
<b>Last Update</b>	29/09/2015



Consiglio Nazionale  
Geometri e Geometri Laureati



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**CODE OF CONDUCT FOR EUROPEAN SURVEYORS**  
**issued by the Council of European Geodetic Surveyors –**  
**Geometer Europas (CLGE - GE)**

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**Preamble**

European Surveyors are professionals with the academic and professional qualifications and legal and technical expertise to undertake a range of surveying tasks (a non definitive definition of the profession is described in Appendix 1 to this Code of Conduct).

The work of European Surveyors is fundamental to the provision, delimitations, maintenance and enhancement of the economic, physical and social setting in which all human activities take place. In their roles within the environment, and the functioning of the legal systems of Europe, they recognise their basic responsibility to ensure the protection of both consumers and our unique environment. In this way, European Surveyors make an exceptional and vital contribution to the quality of life for all European consumers.

Their professionalism, skill, expertise and objectivity in achieving the efficient and effective planning and administration of the physical, social, legal and economic environment ensures the quality and sustainability of all of human activities undertaken within Europe. Thus, they have a clear and constant responsibility to the European Community, their respective governments, their clients and to the wider public, for the long-term well-being of both current and future generations.

Their professional expertise and independence which are underpinned by the highest levels of professionalism and ethical principles ensure the quality of surveying services. This is assured by the disciplinary regulations of their national associations, this Code of Conduct and, where appropriate, by legal authorisation and national regulations.

[Link EESC](#), [Document](#)



# Content

- General Principles
- Relationship with clients
- Relationship amongst surveyors
- Professional education and development
- Monitoring / implementation of the code
- Accessibility





**IES** INTERNATIONAL  
ETHICS  
STANDARDS  
[www.ies-coalition.org](http://www.ies-coalition.org)

# International Ethics Standards

An ethical framework for the global property market

December 2016

<https://ies-coalition.org/standards/>



**Accountability:** Practitioners shall take full responsibility for the services they provide; shall recognise and respect client, third party and stakeholder rights and interests; and shall give due attention to social and environmental considerations throughout.

**Confidentiality:** Practitioners shall not disclose any confidential or proprietary information without prior permission, unless such disclosure is required by applicable laws or regulations.

**Conflict of Interest:** Practitioners shall make any and all appropriate disclosures in a timely manner before and during the performance of a service. If, after disclosure, a conflict cannot be removed or mitigated, the practitioner shall withdraw from the matter unless the parties affected mutually agree that the practitioner should properly continue.

**Financial Responsibility:** Practitioners shall be truthful, transparent and trustworthy in all their financial dealings.

**Integrity:** Practitioners shall act with honesty and fairness and shall base their professional advice on relevant, valid and objective evidence.

**Lawfulness:** Practitioners shall observe the legal requirements applicable to their discipline for the jurisdictions in which they practise, together with any applicable international laws.

**Reflection:** Practitioners shall regularly reflect on the standards for their discipline, and shall continually evaluate the services they provide to ensure that their practice is consistent with evolving ethical principles and professional standards.

**Standard of Service:** Practitioners shall only provide services for which they are competent and qualified; shall ensure that any employees or associates assisting in the provision of services have the necessary competence to do so; and shall provide reliable professional leadership for their colleagues or teams.

**Transparency:** Practitioners shall be open and accessible; shall not mislead or attempt to mislead; shall not misinform or withhold information as regards products or terms of service; and shall present relevant documentary or other material in plain and intelligible language.

**Trust:** Practitioners shall uphold their responsibility to promote the reputation of their profession and shall recognise that their practice and conduct bears upon the maintenance of public trust and confidence in the IESC professional organisations and the professions they represent.



# New Ways for Training of Surveyors

- Modernisation of education and training systems is important to make sure these meet the needs of a changing labour market.
- Proportion of jobs requiring high skills grows, and the demand for innovation and entrepreneurship increases.
- **SHOULD SURVEYORS EDUCATION BECOME MORE INTERDISCIPLINARY?**





- In Europe Bologna system has replaced the old university studies with a lot of optional matters. The path to the profession of surveyor become unclear.
- What should the proportions of general and specialist technological knowledge be in surveyors training?
- Students who choose to be engineers spend five years with other engineering students rather than interacting with the students from other disciplines who will be essential to solving societal problems
- But could we be good expert and engineers without knowledge about economics, management, ethics, ecology ...?
- What should the proportions of technological and nontechnological knowledge be (including economics, management, ethics, humanitarianism) for a modern surveyor?



- In the future, engineers/surveyors will learn less from books and lectures and more from other kinds of forums, including the Internet
- Online information is not always accurate, and not so good in teaching to be critical thinkers
- Online courses could break down the current pricing structure of education and radically enhance the internationalization of education.
- Scaling up online education – Massive online open courses. MOOCs are in their earliest stages, but they have the potential to create massive disruptions and improvements - especially in higher education
- Can online education e.g. massive online open courses ensure right level of knowledge for surveyors through CPD



- Collaborations with industry in education – both ways
- What industry needs?
- Technically competence is not enough
- The ability to communicate, interact with others, be on a team, share thoughts and ideas, have great discussions is important.
- **Are we now producing modern and quality surveyors?**





The **Council** of European Geodetic Surveyors  
**Comité** de Liaison des Géomètres Européens

# The surveyor in Today's' world



THE WORLD BANK



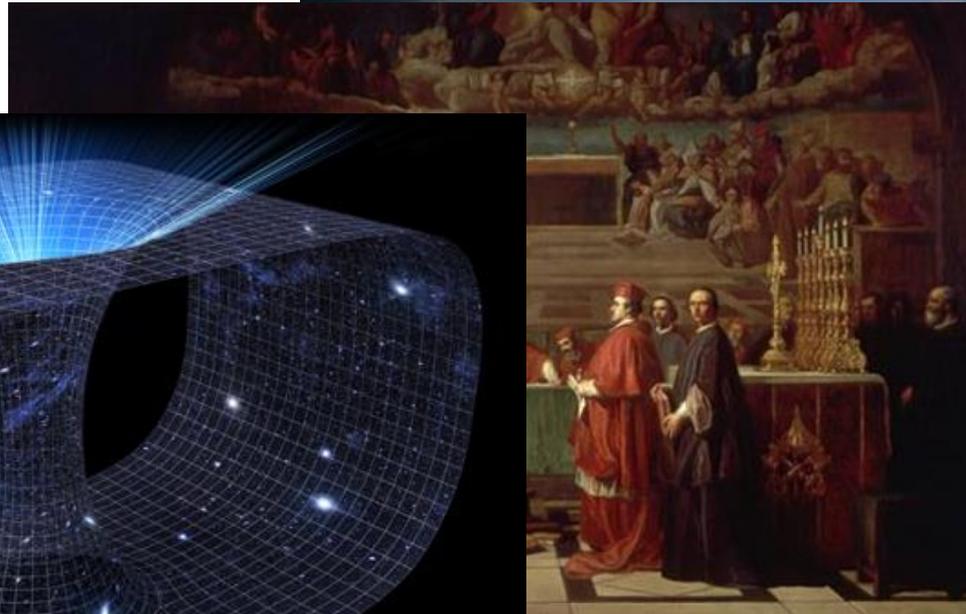
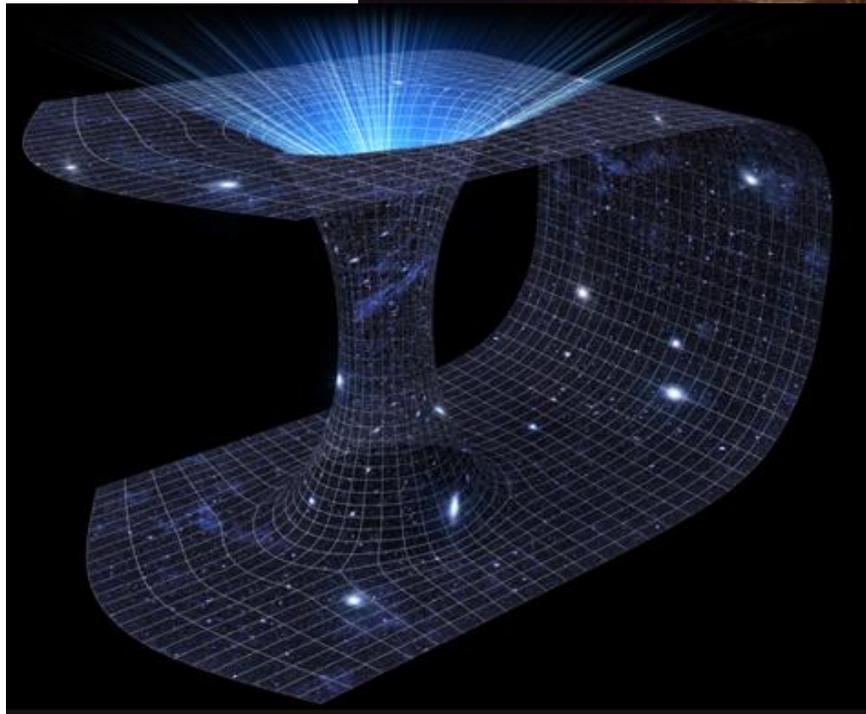


# The surveyor in Today's world





# Changing world





# Changing world





# The surveyor yesterday and today

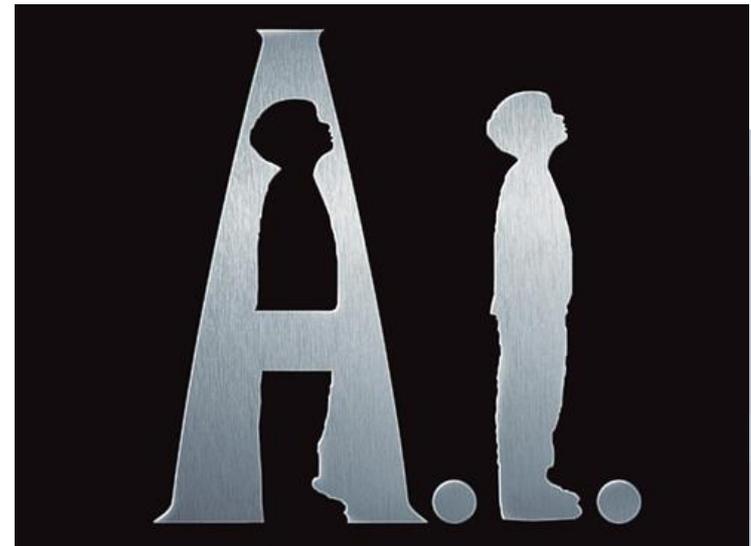
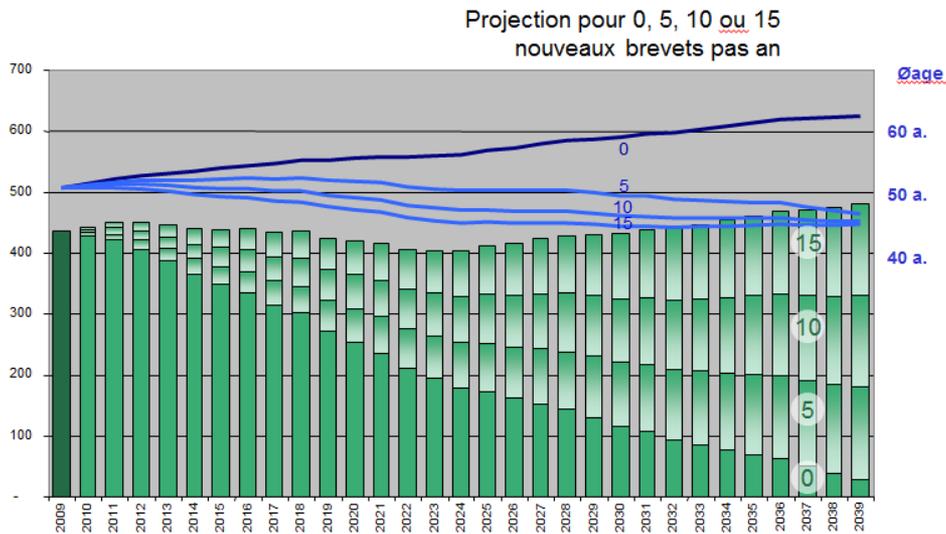
- The technology and the society make us evolve

The pressure of technological development is driving social change





# The surveyor tomorrow?





# The (r)evolution of data

- Linked data
- Internet of things
- Open data
- Big Data
- Data mining





# The (r)evolution of ID

- Is it really the future?





# The (r)evolution of mapping

- Towards a new dynamic dimension of the maps
- Virtual reality

The parcel as the nucleus of every real representation





# The (r)evolution of communication

- Towards a new mobility...

Could we live without our smartphone ?





# The (r)evolution of cadastre

- Augmented reality

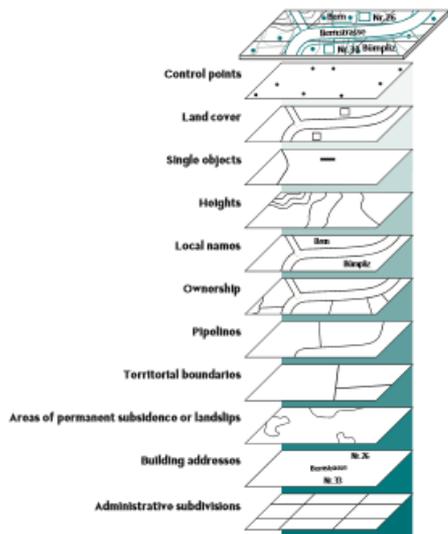
Apps will be the basis of all land representations, including those in the cadastre



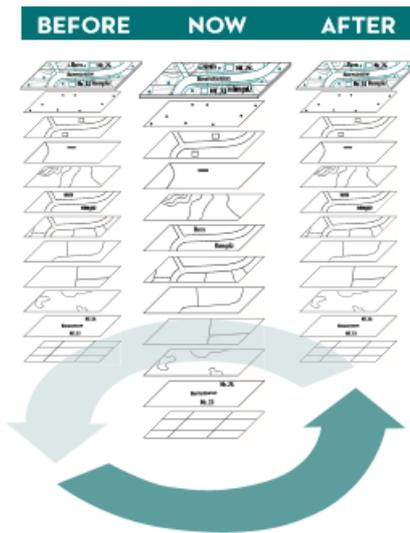


# The (r)evolution of cadastre

## STATIC VISION (2D-3D) BY LAYER



## DYNAMIC VISION (4D) BY CAROUSEL

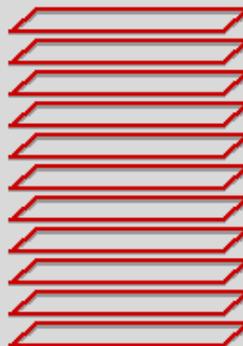


## The principle of legal independance

### Legal Topics :

- .....
- Resource exploitation
- Collective land rights
- Water protection
- Traditional rights
- Environmental protection
- Land use planning
- Land property
- Topography
- Natural resources
- Natural land objects

### Legal Object Boundaries : Rightful Claimants :



- .....
- Chartered company
- Corporation
- Society
- Tribe, Clan
- Society
- Society
- Private Land Owners
- Society
- Society
- Society

Numerous political  
decisions depend on  
official data



# The (r)evolution of citizen

- The augmented citizen...

Citizens as the nation's number one surveyors !





# The (r)evolution of citizen

- Crowdsourcing

The legitimate often prevails  
over the legal

The territory is the map





# Where are we going?

- Crowdsourcing...where are the limits?
- Can new technologies like blockchains replace the legal system?
- Will the cadaster be always in the center of the GI?

