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

Mercator Day
First Day of the European Surveyor and GeoInformation

Conference Centre
Royal Military Academy, Rue Hobbema 8, 1000 Brussels
5th March 2012

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International Federation of Surveyors
Internationale Vereinigung der Vermessungsingenieure

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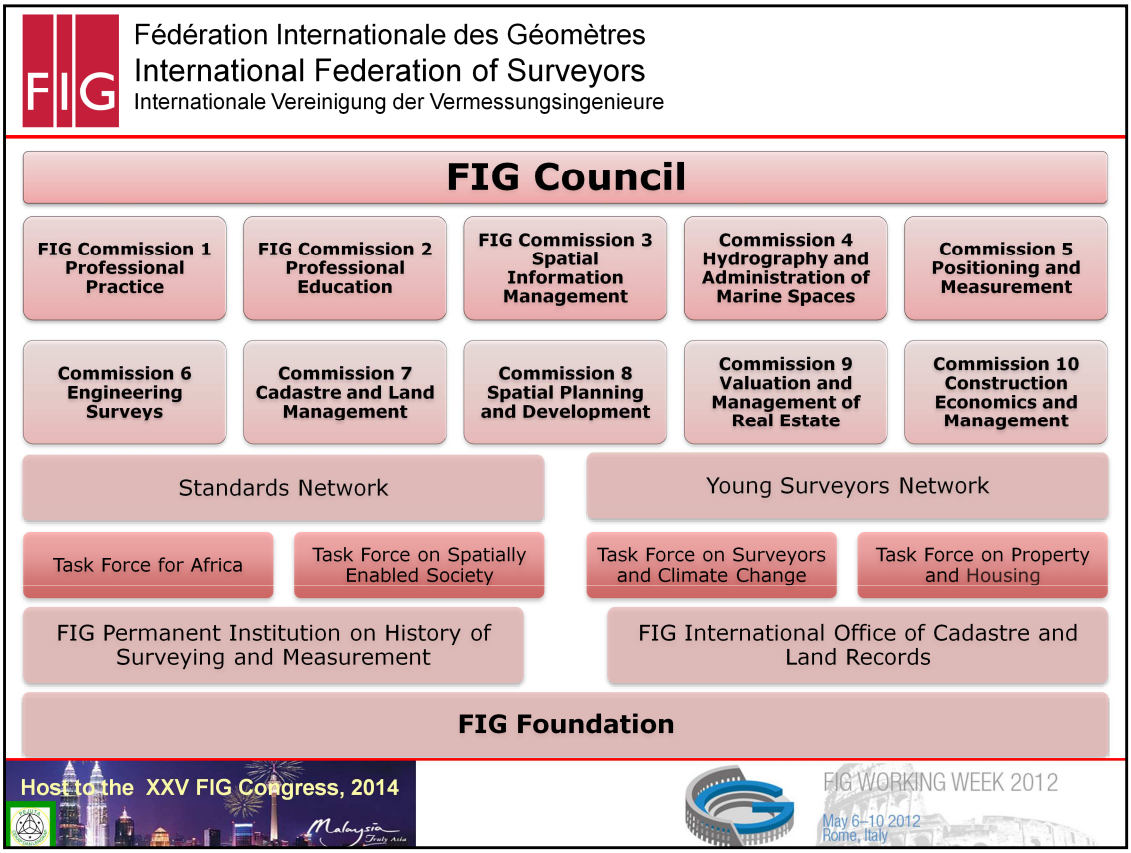
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FIG Council
FIG Commission 1 Professional Practice
FIG Commission 2 Professional Education
FIG Commission 3 Spatial Information Management
Commission 4 Hydrography and Administration of Marine Spaces
Commission 5 Positioning and Measurement
Commission 6 Engineering Surveys
Commission 7 Cadastre and Land Management
Commission 8 Spatial Planning and Development
Commission 9 Valuation and Management of Real Estate
Commission 10 Construction Economics and Management
Standards Network
Young Surveyors Network
Task Force for Africa
Task Force on Spatially Enabled Society
Task Force on Surveyors and Climate Change
Task Force on Property and Housing
FIG Permanent Institution on History of Surveying and Measurement
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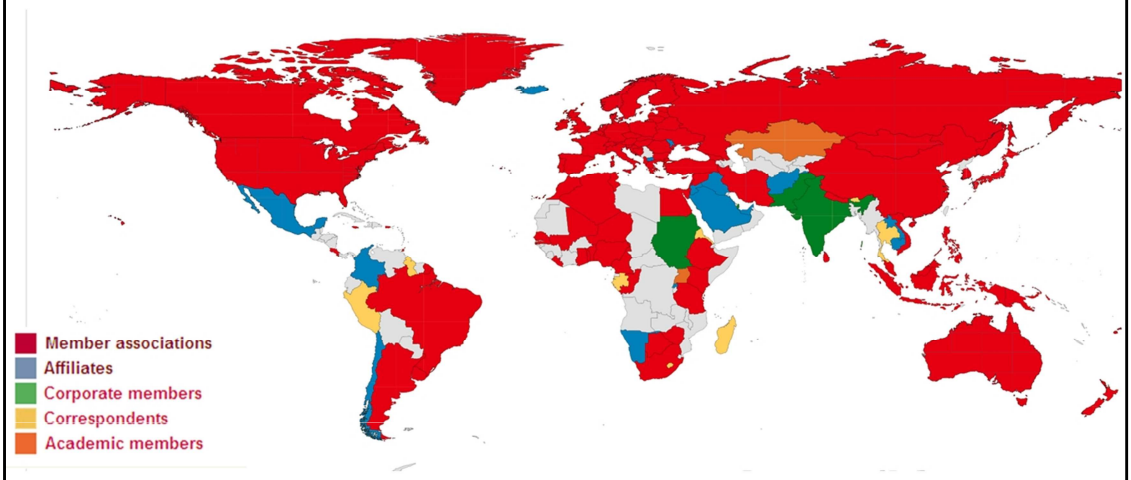


Member Associations; Corporate Members; Affiliate Members; Academic Members & Correspondents

130 Countries

". . is noteworthy for its delicate precision and admirable execution in detail"

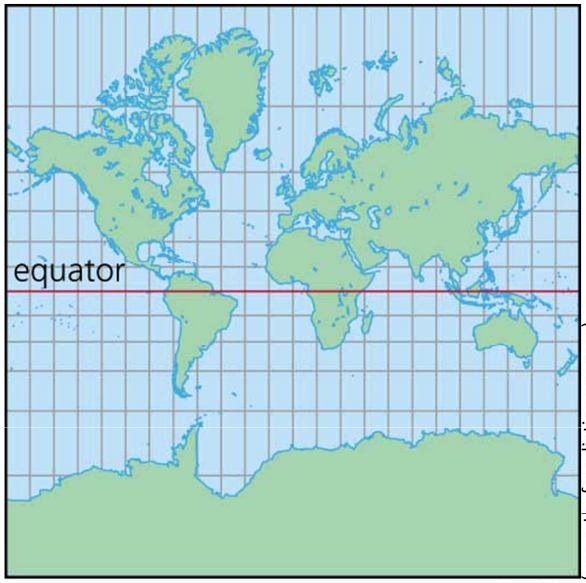
(www.nndb.com/people/636)

(www.mathsforeurope.digibel.be/mercator.htm)

". . . spread on a plane the surface of a sphere in such a way that the positions of all places shall correspond on all sides with each other both in so far as true direction and distance are concerned and as concerns true longitudes and latitudes."

(Gerard Mercator)

(www.nndb.com/people/636)

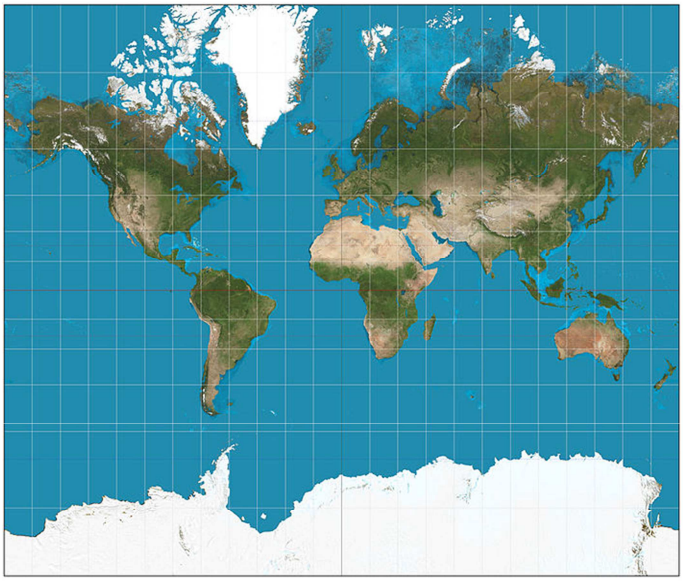


Jerry Malone (www.thefreedictionary.com)

"Mercator's legacy is still part of our daily lives. For example, whenever we consult an atlas or switch on a Global Positioning System, we are benefiting from the labors of Mercator, a remarkable man who all his life sought to know his time and place in God's creation."

(www.watchtower.org)

(www.nndb.com/people/636)



(www.en.wikipedia.org/wiki/File:Mercator_projection_SW.jpg)

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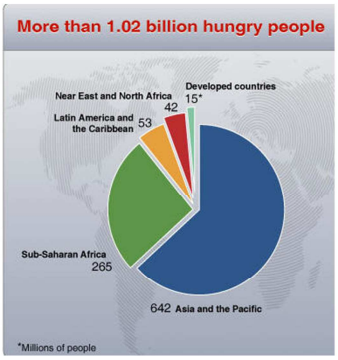

One sixth of humanity undernourished
(FAO, 2009)

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Dark clouds hang over future farming under climate change, the study suggests

(BBC News, 9 Aug 2010)

Rice yields in many parts of Asia, according to research, have fallen by 10-20% over the last 25 years in some locations.

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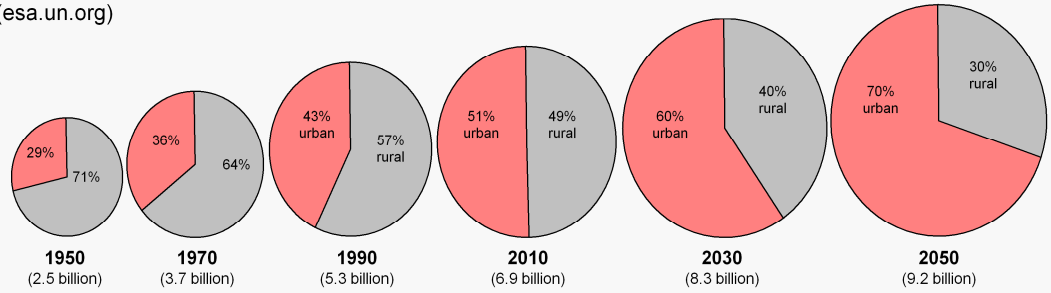
World urban/rural population 1950-2050
(esa.un.org)



The Saga of the "Nail House", Chongqing, China (2007):
Ownership documentation is in place, but something else seems to be at work!

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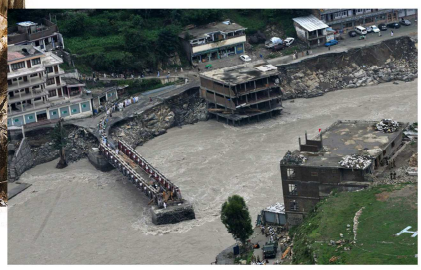
	1950	1975	2007	2025	2050
World Urban Population (million)	737	1,518	3,294	4,584	6,398
Percentage	29.1%	37.3%	49.4%	57.2%	69.6%
More Developed Region (million)	427	702	916	995	1,071
Less Developed Region (million)	310	817	2,382	3,590	5,327

Close to 1 billion people, or 32 per cent of the world's current urban population, live in slums in inequitable and life-threatening conditions, and are directly affected by both environmental disasters and social crises, whose frequency and impacts have increased significantly during the last few decades.

(UN-Habitat, 2009)

Time, 2009



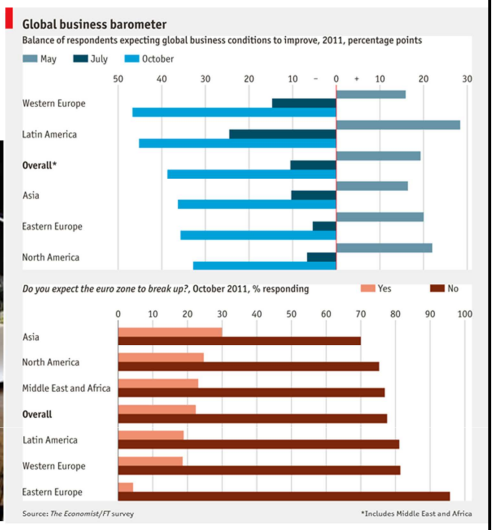
A Majeed, AFP, Getty Images (2010)

"The most important environmental concern now is climate change". The authoritative Stern Report on the economics of climate change concludes that it will 'affect the basic elements of life for people around the world – access to water, food production, health and the environment'.

(Planning Sustainable Cities: Global Report on Human Settlement 2009 (UN-Habitat)

"global business executives expect worse times ahead!"
(*The Economist, Nov 10th 2011*)

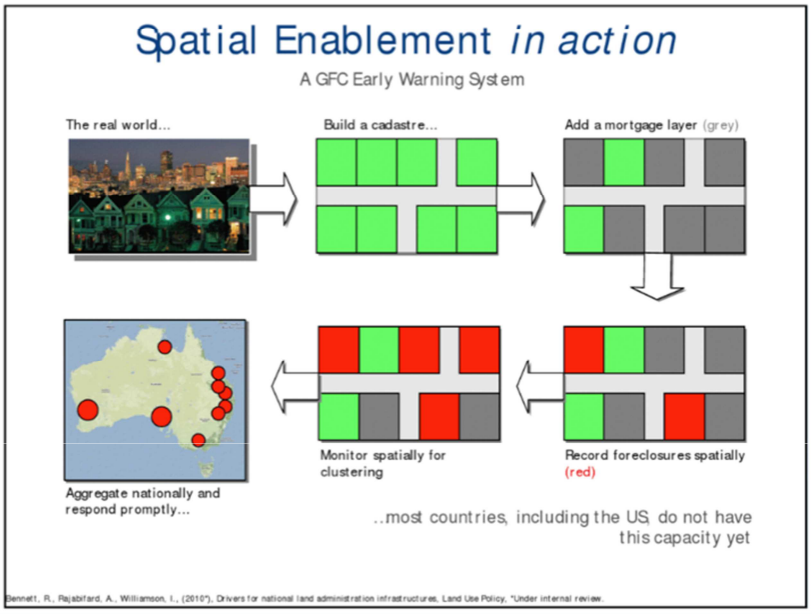
Photograph: Pawel Kopczynski/Reuters



Nov 10th 2011, 17:03 by The Economist Online

Spatial Enablement *in action*

A GFC Early Warning System



THE EDGE FINANCIAL DAILY | Tuesday August 16, 2011 9

Home business

Pemandu: NKRA strategies on crime working

Key success factor due to cross-ministerial and cross-agency collaboration

by **Jennifer Jacobs**

KUALA LUMPUR: When the Performance Management and Delivery Unit (Pemandu) held a press conference recently to say that crime has actually gone down, most journalists were sceptical. They wanted to know how this conclusion was arrived at.

According to the presentation, index crimes dropped by 8,5[illegible] to 80,248 in the first half of this year compared with the same period in 2010 and street crimes had fallen by 8,047 to 11,299.

Eugene Teh, Pemandu director of crime, national key results area (NKRA), was unfazed. He had expected the scepticism. So he outlined the strategies Pemandu had

theft is an issue and you start to put measures in place to address that. But you're putting the measures at the end of 2011, when most of the cases were in 2010. That means things may have changed in the meantime. What [illegible] to ensure a timely [illegible] of data and a [illegible] turnaround in terms of how we are going to address issues."

The second thing Pemandu did was to add the geographical aspect to the data. "So it's not just that there are a lot of crimes in Kuala Lumpur, but there are a lot of incidents in this part of Jalan Imbi, Kuala Lumpur. This way we know where we want to deploy more of our resources."

[illegible] pointed out that it would take at least [illegible] this to train a new police officer. "It didn't make sense to wait that long before deploying the strategies to bring an immediate reduction in crime.

"Idris (Jala) likes to say that

Teh: When we did this programme, the key success factor was that we created a platform for cross-ministerial and cross-agency collaboration.

Large-scale mobilisation of uniformed personnel to fight crime based on hotspots in three waves

did, it took almost two years for your case to be heard and in the meantime the evidence would be lost or key witnesses would not be available — so you essentially got off without punishment," he said.

Teh said Pemandu decided to go for the jugular. "There were some very concrete things we could do very fast. First there was a huge backlog of cases. We took some 2,001 off the backlog and made sure the judges were clearing them and even monitoring how these were cleared on a monthly basis," he explained.

This did not go down too well, especially with the lawyers. "We had a lot of problems with that because the Bar Council was complaining that judges were no longer interested in justice but in expediency and most cases ended up in a "[illegible]" so we implement something and then go back and make adjustment based on feedback from

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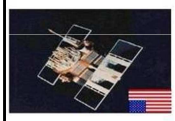
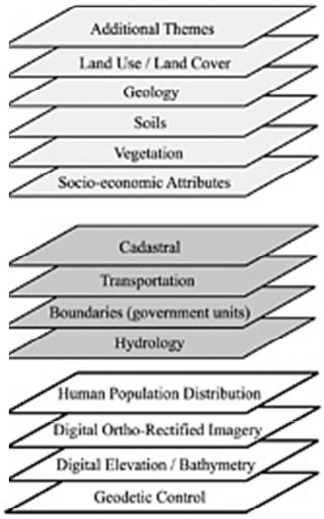


Positioning Infrastructure based on Global Navigation Satellite Systems

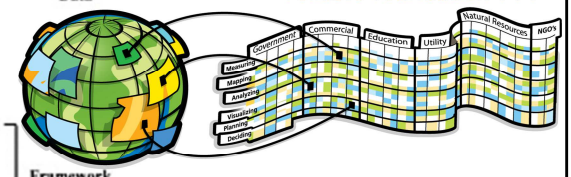


Other Thematic Data

Framework Thematic Data

Framework Foundation Data

information provides the reliable foundation . . .



. . . for informed, responsible and sustainable decisions and actions

. . . gone mobile, widely available

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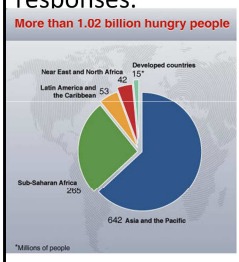
GGIM | United Nations Initiative on Global Geospatial Information Management

"The rapid advances in geospatial information and technologies, and their easy accessibility, have made such information an invaluable tool in research, policy and business planning and implementation. Across all sectors of society, it is increasingly recognized that the effective use of geospatial information helps address many of the current humanitarian, peace and security, environmental, and development challenges facing the world, such as climate change, natural disasters, disease pandemics, famines, population displacement, food and economic crises, which are of a cross-border nature requiring both global, regional and national policy responses."

(United Nations Secretary General's Report to the and Social Council, 2011)



Chaiwat Subprasom, Reuters (2011)

Time,

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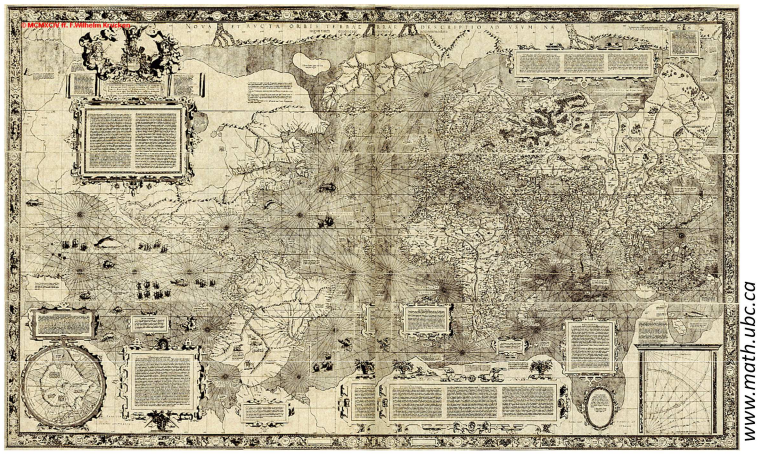
UN-GGIM has a vision to migrate to a paradigm of ***managing all information spatially***.

There will be issues that will need to be addressed including –

- Policy that enabled data sharing;
- Adoption of the highly stable International Terrestrial Reference Frame (ITRF) as the geodetic datum for all geospatial information;
- Integration of (geospatial) location information in solutions for social, security, environmental and economic issues;
- Utilization of (geospatial) location-based analysis in evidence-based decision making;
- Use of visualization representation to clearly communicate issues and solutions;
- Access to information via web and mobile applications (Apps);
- Educational framework;
- Technical and institutional development of geospatial data management;
- Development and applicability of management tools in order to make best use of geospatial data; and
- Development of awareness at all levels of society – citizens, institutions and decision-makers.

(JB-GIS)

"New and more complete representation of the terrestrial globe properly adapted for its use in navigation."
(Gerard Mercator)



www.math.ubc.ca

(www.nndb.com/people/636)

"maps, not chaps"
(Ian Morris)

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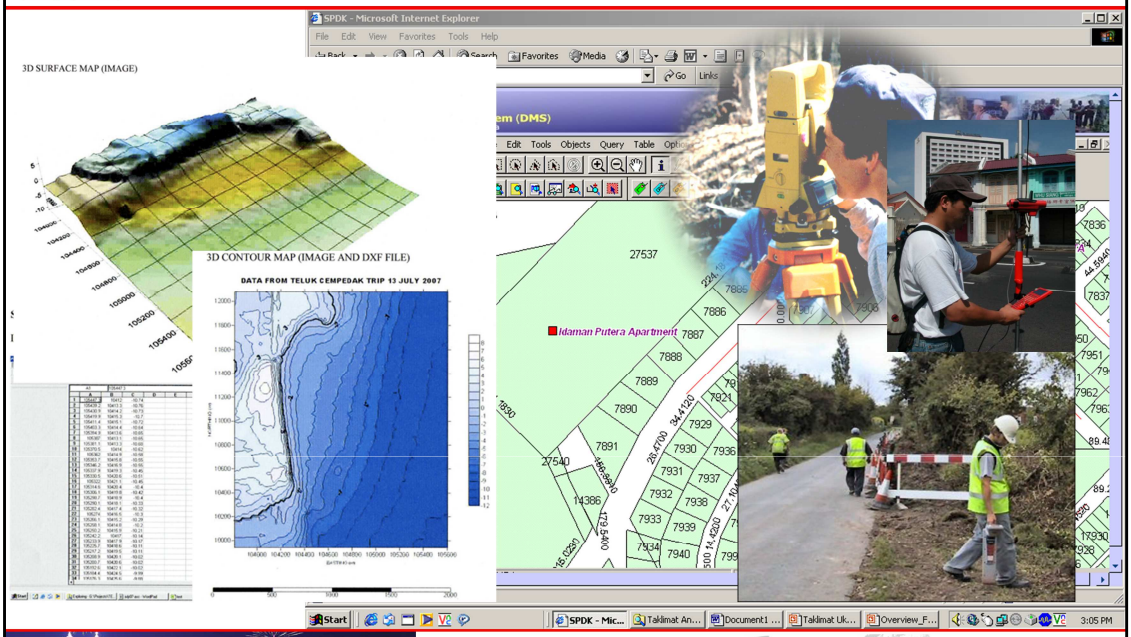

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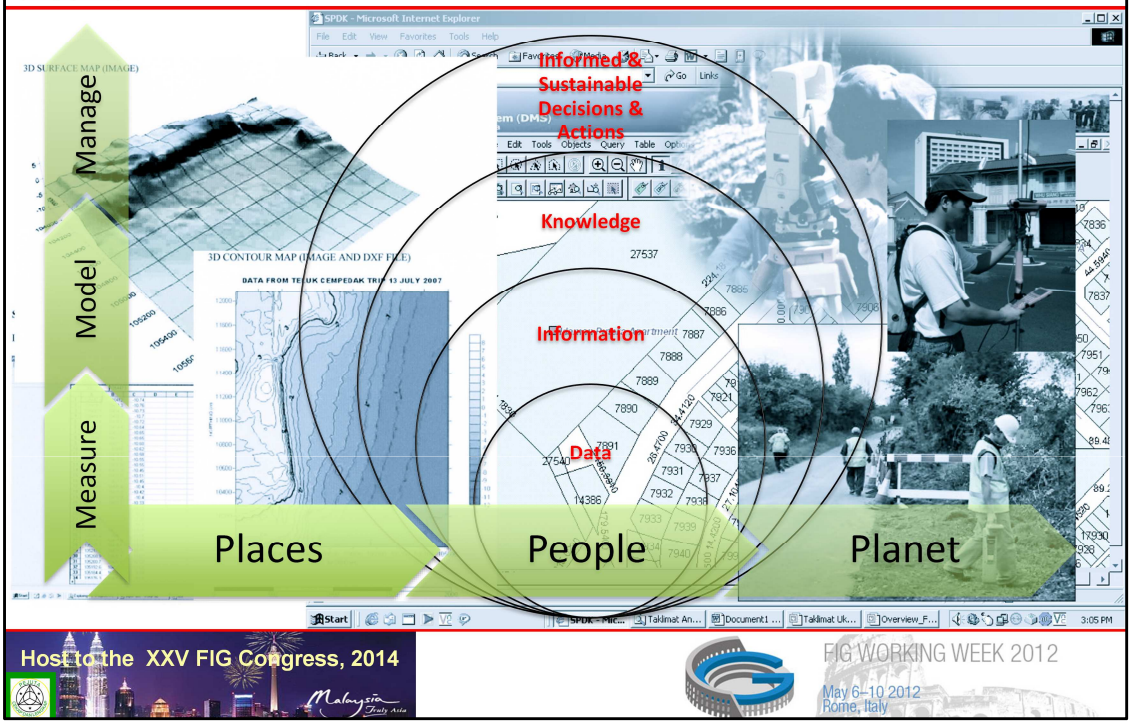

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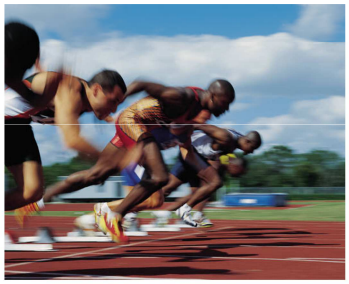
FIG Council Work Plan:
Engaging the Challenge: Enhancing the Relevance

Vision

A Profession, armed with knowledge and best practices, extending the usefulness of surveying for the benefit of society, environment and economy, increasingly positioned in significance and relevance, next door to everywhere.



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"there's a certain exuberance that comes from being out there on the edge of technology, where things are not certain, where there is some risk and where you make something work"

(Joseph Gleason Gavin)

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