

Navigating a Global Consciousness: A Young Surveyor's Future

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Mapping Mars

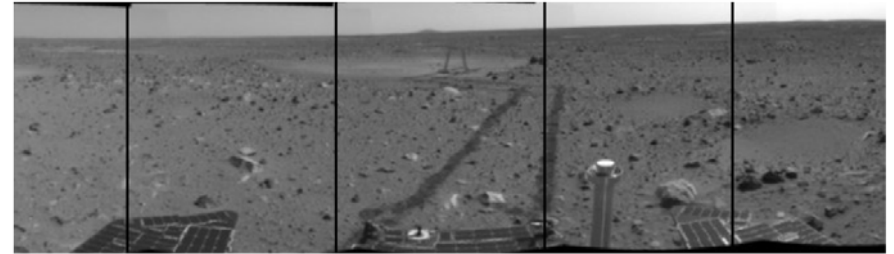
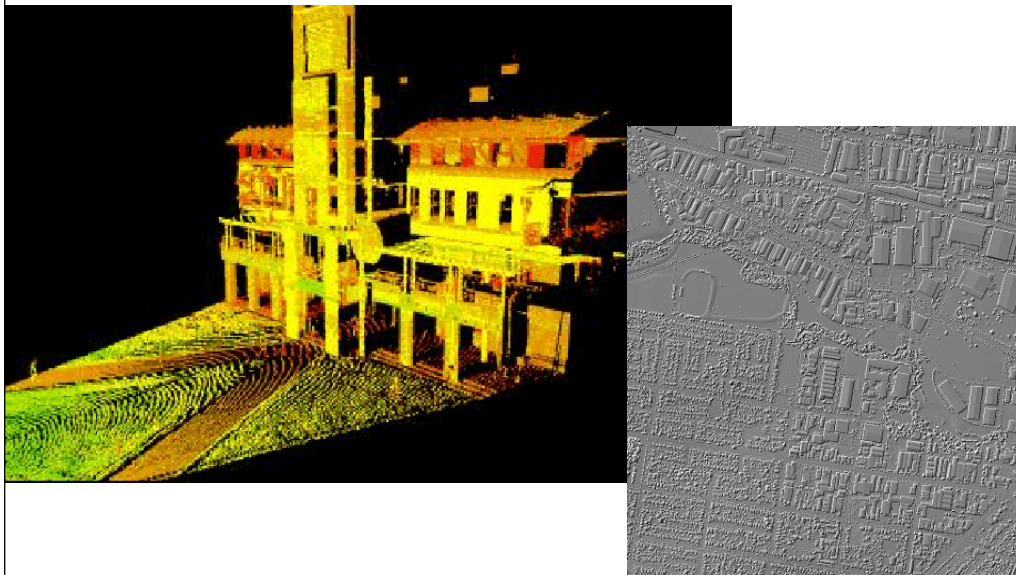


Figure 2. Overlap of typical Mars Navcam images

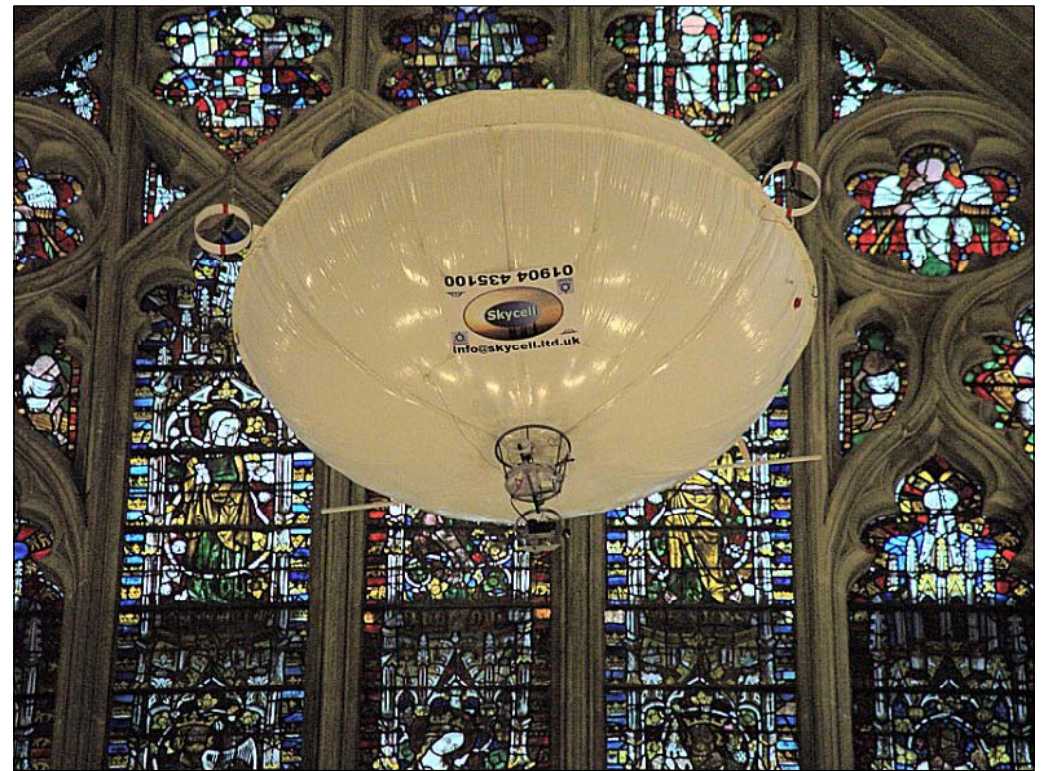
5. Photogrammetry and Laserscanning

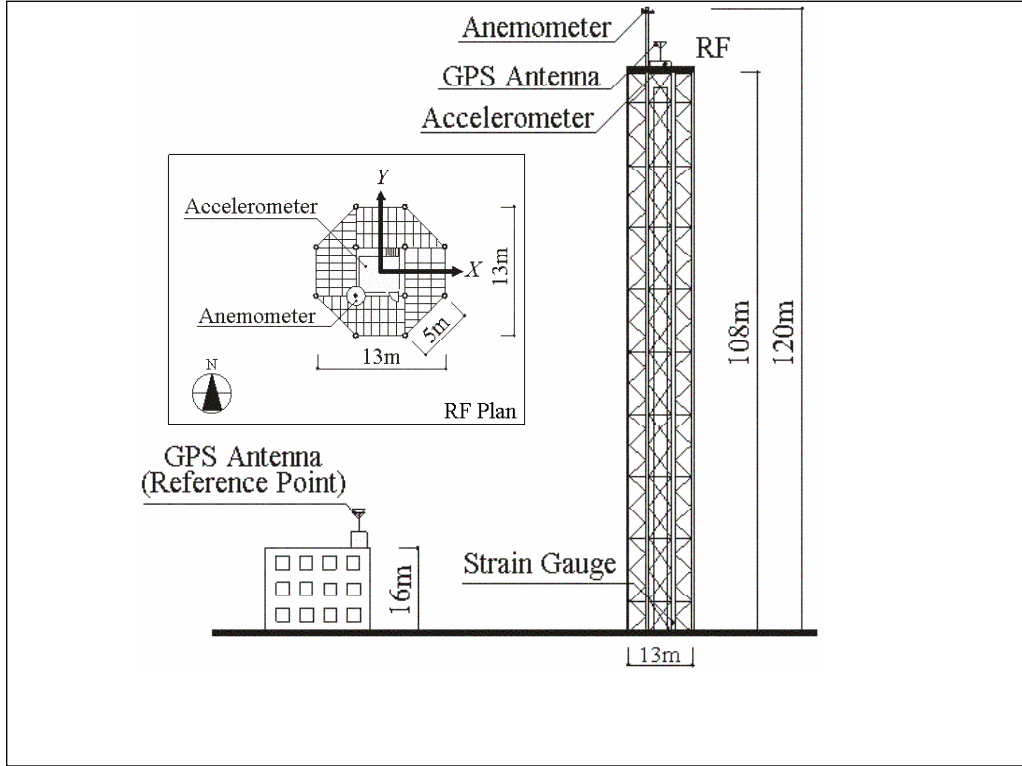


TS Fork, Coonabarabran



September 2005: EniTecnologie ended the first part of the planned diagnostics work for restoration of the façade. The 3D mapping of the spires, of the statues and of the 8,147 blocks of marble of the façade supplied the 3D geometric model on a scale of 1:20 with a one millimetre precision. Georadar surveys were then carried out on the 6 flying buttresses and 5 bays, up to a height of 50 metres, to examine the structural features of the architectural sections. Targeted sampling was performed on the entire surface of the facade to





The Problem:

Where are the Young Surveyors?

Developed vs. Developing. Bologna process beyond education?
Is it *only* surveying? What are students *looking for* in a career?



Regional: *Developed vs. Developing*

Labour Market/Job prospects

Low visibility

Disconnect between
outdoor surveying and
indoor analysis

One Surveyor = many
talents

Good visibility!

Lack of skills

High ratio students to
teachers – in need of
experience

One Surveyor = many
talents

Credit crunch/Economy Crisis.....

The Problem: *cont'd*

Mahoney et al. (2007)

“The profession is changing and the number of competencies in which surveyors are actively involved is over 200”

Aydin et al. (2006)

Turkey downsizing student numbers due to a lack of teaching staff

Statham et al. (2008)

Canadian profession “without an efficient cohesive voice to respond to the profession’s key users in government, industry and the public”

FIG Young Surveyor Network

Upcoming generations can find
information at the drop of a hat... but
people?

You can't find experience.

Actions: Outreach

- Involve young surveyors
- Create FIG awareness
- “integrate complementary abilities”:
 - Planning, Architects, IT, Engineers...
 - Academia + Industry: united front
- Network



Actions: Technology

Key to our work environment, but professional bodies?

Communication is vital!

- Podcasts
- Teleconference
- Web communication
- Blogs etc.



Importance of Networks

International, inter-cultural, inter-generational, inter-disciplinary

Skills crisis in IT, Construction, Engineering fields

Impact of 'Credit Crunch'

Gap across developed and developing world

Changing face of surveying:

communication of evolving best practice etc.

Knowledge share

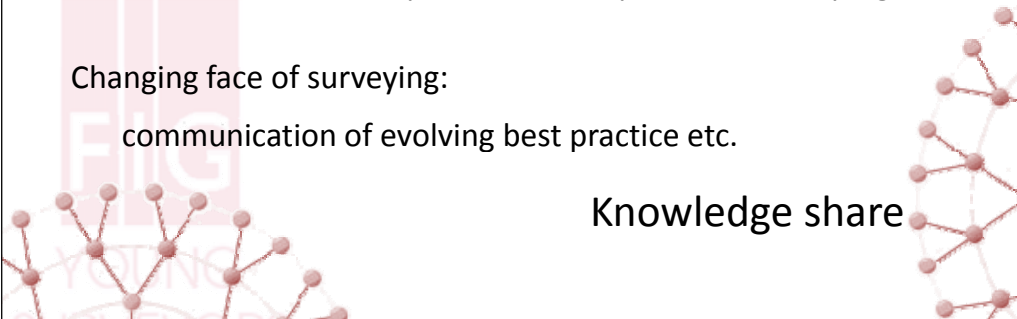


FIG Young Surveyors Network

What are we achieving now?

Aims:

- Increase Young Surveyor Participation
- FIG events
 - Speed networking
 - Marketing
 - Quarterly Newsletter
 - Additional Events eg. FIG2010 Young Surveyors Beyond Horizons
- Future Focus?
 - Continuing Professional Development (CPD)
 - Involvement: Professional organisation participation
 - Bologna process... and beyond?
 - Harness Technology: Web, podcast, communication



Young Surveyors Beyond Horizons

what?

- Technical activities, across Australia, the week before FIG2010

why?

- Encourage/Enable young surveyors to attend



Time vs Money. Rewards vs Expectations.

YS Network is a dedicated group of surveyors

We don't have any more **time** than anyone else.

We don't have any more **money** than anyone else.

We have an abundance of ideas, enthusiasm and support.

Time vs Money. Rewards vs Expectations.

We need...

Structured support

We are young and inexperienced

We have **enthusiasm**...but *perhaps* some help with **realism**

We need **mentors**, 'financiers',
Physical "**hands on decks**"

Marketing: Becoming visible

We need to market what we do.

How do we know what a doctor does?
(Why do 5 year olds play nurses or want to become doctors?)

What do we have to market?
Asian Tsunami; Chinese Earthquake, Australian bushfires
Real Estate, Property Management
Climate Change

Fewer surveyors, changing technology = broader work opportunities.

Let's use these ties! Inclusive promotion

[Young Engineers Video](#)

Involving

FIG's aims: Advance the profession

Changing demographics; changing technology; changing times

What do we need? Awareness, clarity, involvement

- Newsletter**: hear about people involved
- Speed networking**: talk to people involved
- Young Surveyors Beyond Horizons**: GET involved

Navigation from here?

Does your organisation promote young surveyors?

How are young surveyors involved?

Mentor. Improve our Network

FIG2010? Young Surveyors Beyond Horizons.

Why are we doing this? How do we fund this?

See you in Sydney...!



Back up slides

Developed world:

Many surveying disciplines
Externally: what does a surveyor
contribute to society?
Internally: disconnect between outdoor
surveying and indoor analysis

Key Messages:

- Acknowledged range of focii: students,
young professionals, developed/ing world
- Increased interaction with adjacent
associations
- Activities by YS Network
- Support required: time, finance, physical
support

Bologna process: Dissolving boundaries

But only in education.
Differences remain: eg. Sweden vs. UK vs.
Germany vs. Bosnia vs. Turkey
EU yes but additions to EU

CONTINUITY

How does this flow into surveying world
Work environment needs facilitation:
Role of FIG