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, EniTerzaghi carried out the first part of the planned electromagnetic work for restoration of the facade. The 3D mapping of the spires, of the statues and of the 8,147 blocks of mortar of the facade supplied the 3D geometric model on a scale of 1:20 with a one millimetre precision.

Coenodar surveys were then carried out on the flying buttresses and 5 bays, up to a height of 50 metres, in order to examine the internal features of the arches and spandrils.

Targeted sampling was performed on the surface coating of the facade.
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

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**Actions: Technology**

Key to our work environment, but professional bodies?

Communication is vital!
- Podcasts
- Teleconference
- Web communication
- Blogs etc.

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**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

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**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

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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.

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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**”

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**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