

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

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

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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"Geospatial Information for a Smarter Life and Environmental Resilience"



Challenging the status quo: innovate or detonate

Narelle Underwood – Surveyor General of NSW
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Office of the Surveyor General NSW Australia

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A few key takeaways ...

There is something that every single person in this room can do to improve our profession

Starting today

- ▶ Question conscious and unconscious bias
- ▶ Adopt small or large scale changes to improve survey workflows
- ▶ Actively promote surveying to the next generation
- ▶ Understand that the diversity of our profession is not just “women’s business” nor does it rest solely on the shoulders of our “young surveyors”

WE LIVE IN A TIME OF **CHANGE.**

WHEN PEOPLE, IDEAS, DATA, CRISES AND SOLUTIONS FLOW ACROSS BORDERS, FASTER THAN EVER BEFORE. WHEN NEW VOICES ARE HEARD AND NEW FRONTIERS EMERGE.

IT IS A TIME OF OPPORTUNITY.

AND YET. JOB AUTOMATION. CLIMATE CHANGE. REFUGEES. FOOD SECURITY. AGEING. INEQUALITY.

IT IS ALSO A TIME OF GRAND CHALLENGES THAT CAN ONLY BE SOLVED WITH THE COLLECTIVE ACTION OF OUR GOVERNMENTS. WE THE PEOPLE WORKING IN

THE SURVEYING PROFESSION

KNOW THAT CHALLENGES ARE NOT SOLVED BY ONE PERSON, ONE TEAM, OR ONE COUNTRY. WE KNOW THAT CHALLENGES ARE SOLVED BY **BUILDING BRIDGES NOT BARRIERS.**

UNITED BY A SHARED PURPOSE WE COMMIT TO THESE PRINCIPLES: FOCUS ON THE PEOPLE WE SERVE TO EARN THEIR

TRUST. BE HUMBLE. LOOK ACROSS SILOS AND BEYOND OUR COMFORT ZONES.

BUILD DIVERSE NETWORKS. EMBRACE NEW PERSPECTIVES. HARNESS THE FRONTIERS OF TECHNOLOGY. BECAUSE TODAY'S PROBLEMS NEED TODAY'S SOLUTIONS.

BE BOLD ENOUGH TO EXPERIMENT.

BUT DON'T REINVENT THE WHEEL. LEARN FROM MISTAKES. SHARE THESE LESSONS. CELEBRATE SUCCESS. AND REMEMBER:

WE SERVE THE PEOPLE,
BUT WE ARE THE PEOPLE TOO,

WORKING SIDE BY SIDE WITH CITIZENS AND ACROSS SECTORS, WORKING TOGETHER TO

BETTER SOCIETY.

Technology is neither
good nor bad - It's what you
do with it that makes the
difference.

”

Marc Benioff

Chairman and Chief Executive Officer, Salesforce

WORLD
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Increased global connectivity

Reflecting on changes over the past 5 years:

- rise of mobile technology
- the birth of the mobile 'app'
- the wide spread adoption of cloud based computing
- increased connectivity of users



Image source: <https://welcometothedeepend.com/2018/04/13/deep-and-deeper/internet/>



Reaching 50 million users

The fastest speed to 50 million users was set by **Pokémon Go**, which did it in 19 days.

Could the next big thing do it in mere hours?

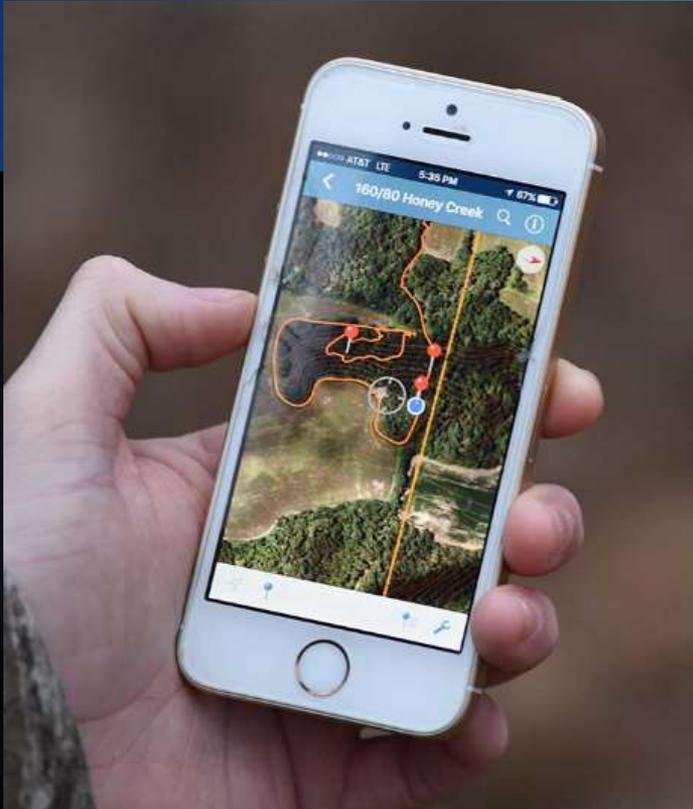


NETFLIX

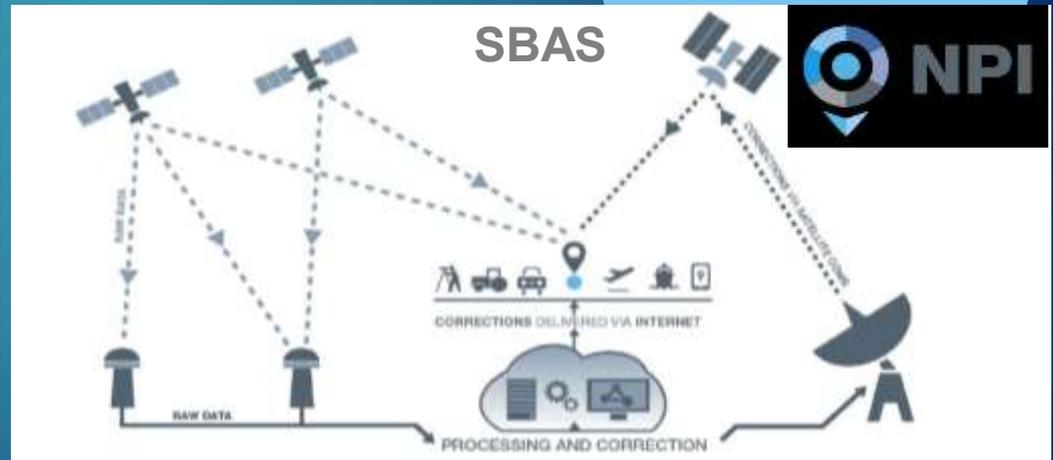
Challenges facing profession



Democratisation of measurement



Australian Satellite Based Augmentation System



As users become more familiar with geographic information and begin to understand the power of position it is expected that we will continue to see more innovative and diverse uses of geographic information.

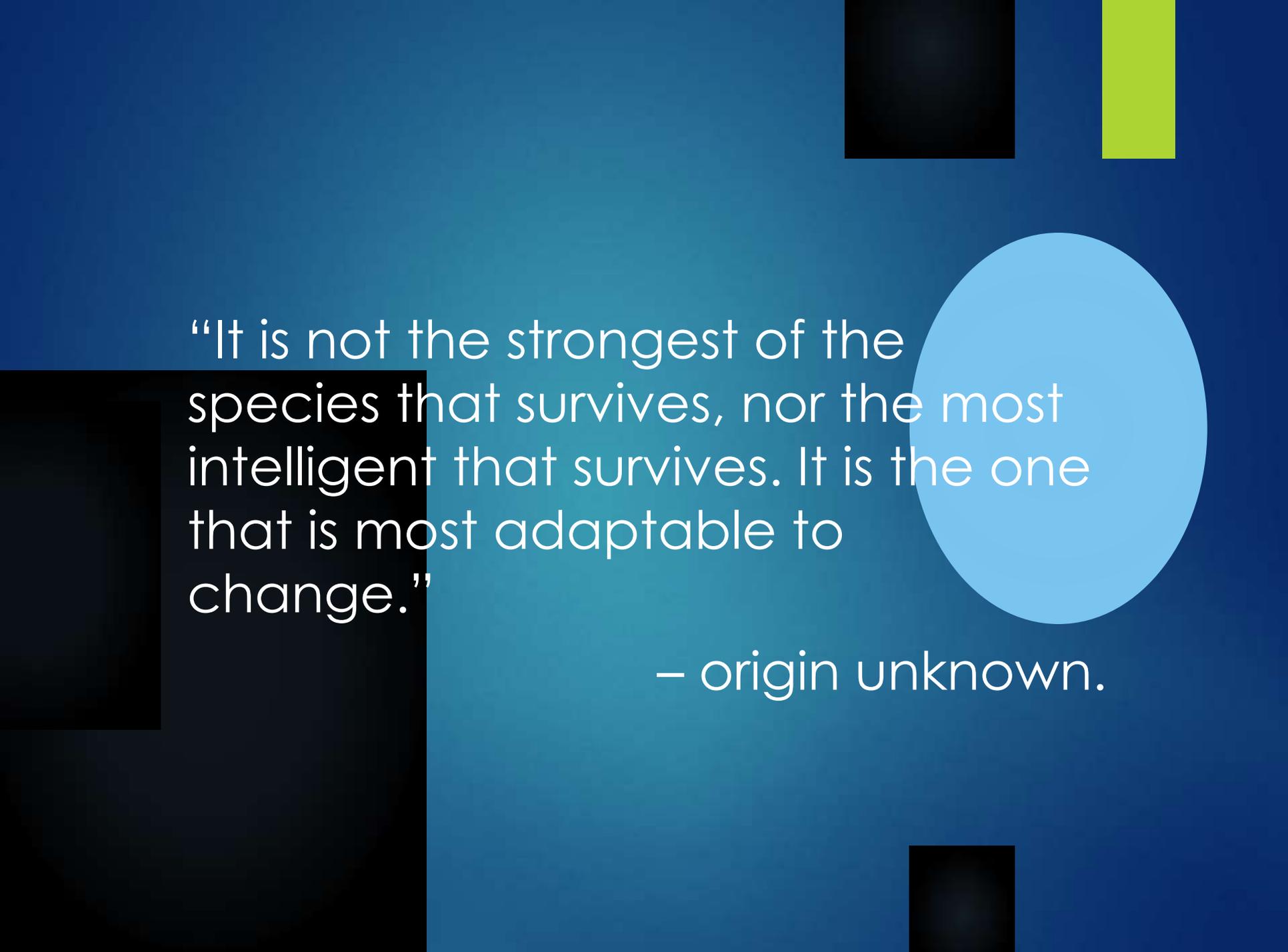


What is a Surveyor??



Where are all the surveyors at?

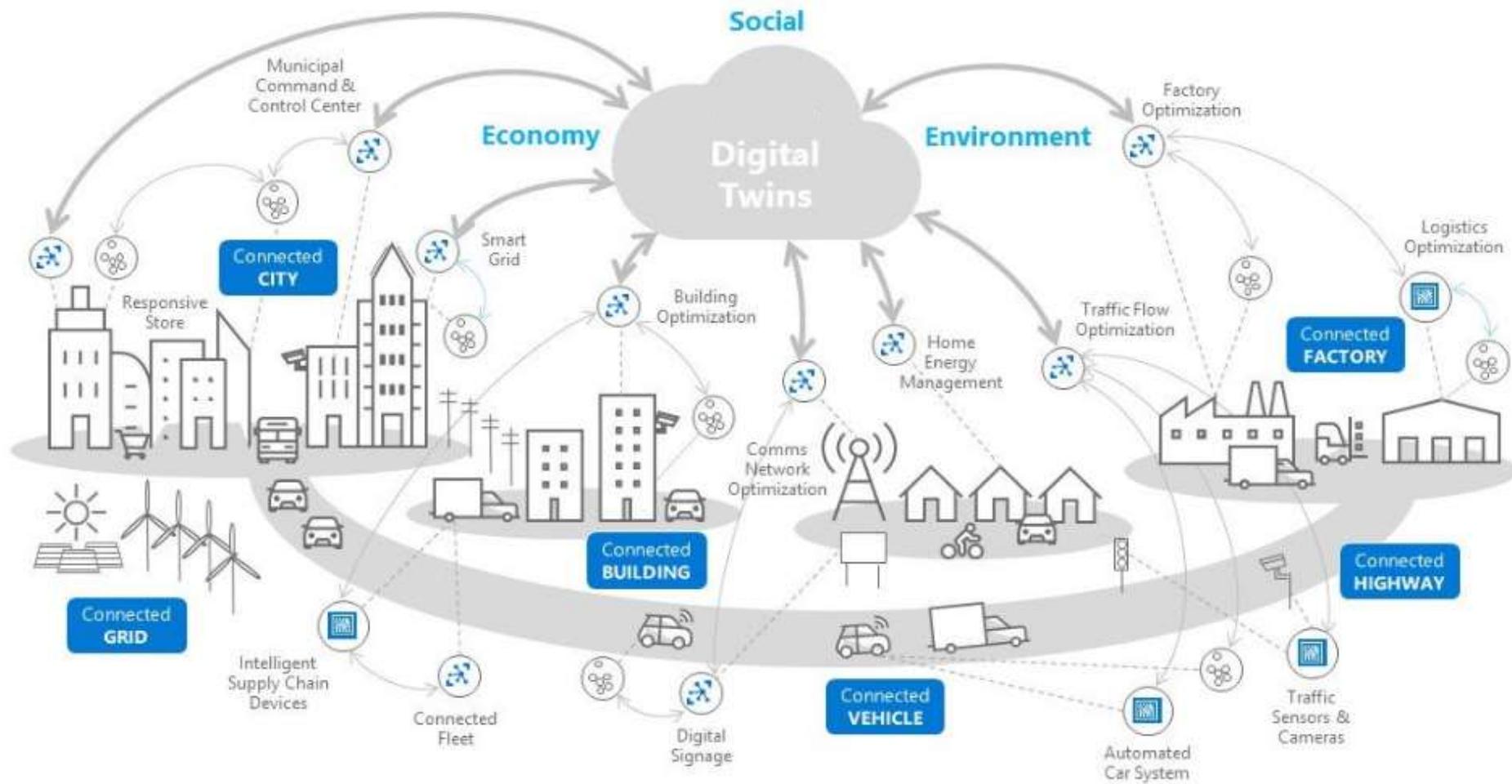




“It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is most adaptable to change.”

– origin unknown.

Measurement to management





DIVERSITY DIMENSION

RELATIONSHIP TO INNOVATION

		Direction of relationship	Statistical significance of relationship
	Industry background	↑	Very high
	Country of origin	↑	Very high
	Career path	↑	Very high
	Gender	↑	High
	Academic background	~	None
	Age	↓	High

↑ Positive significant relationship

↓ Negative significant relationship

~ No significant relationship

Remember...

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"Don't think outside the box,
think like there is no box"

