



FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:
Resilient Environment
and Sustainable
Resource Management
for All

FIG Climate Compass Task Force

Update on 2023-2024 activities at FIG General Assembly

Roshni Sharma & Clarissa Augustinus (Co-Chairs)
on behalf of the FIG Climate Compass Task Force Core Team

Sunday 19 May 2024



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Events 2023-2024

- FIG Working Week Orlando 2023
- Conversations & Consultations Webinar Series
- Seminar Series: Regionally relevant case studies showing opportunities & gaps for surveying and climate
- FIG Working Week Accra 2024





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FIG Working Week Orlando 2023

- Total of 20 papers linked to climate in the Working Week program
- TS01C: Reimagining the Climate Action Agenda for the Global Surveyor Community (a co-design and consultation session with delegates of the Working Week to validate our Terms of Reference and understand the FIG's climate community's areas of interest)
- TS02C: FIG/GLTN Working Together on Land and Climate (a workshop to engage with professionals and gain their further thinking on Land and Climate for GLTN's next phase)
- Climate Compass Task Force community social event



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- Climate action has now been mainstreamed across many of the Commission sessions because of the very strong submission of climate action related abstracts across Commissions and Task Forces.
- TS12F Paper session: Climate Resilience Actions for the Future
- Interactive Workshop: Exploring Climate Issues Together - Interactive Workshop Session
- Collaborations:
 - TS03B Commissions 4 joint session: Facing the Changing Climate & Environmental Degradation: Hydrospatial Solutions
 - TS01G Commission 7 joint session: Climate Change and Land Administration
 - TS09E Young Surveyors Network joint session: Mapping the Surveying Profession's Climate Impact Potential
 - GLTN and Commission 7 joint session: Critical Emerging Areas for Global Work towards Gender Equality and the Land Sector
- Climate Compass Task Force Core Team committee meeting





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Conversations & Consultations Webinar Series

October 11, 2023: Beyond Business-as-usual: Climate Resilience & Fit-for-purpose Surveying for Land, Water & Marine:

- 255 registrations

November 29, 2023: Re-designing land, water & marine surveying systems to make them Fit-for-purpose for climate action:

- 161 registrations





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Seminar Series: Regionally relevant case studies showing opportunities & gaps for surveying and climate and Task Force Annual Meeting 2024

February 20, 2024: Seminar 01: Regional Seminar for Europe/Africa/Western Asia:

- 250 registered

February 21, 2024: Seminar 02: Regional Seminar for Asia-Pacific and the Americas:

- 127 registered

February 22, 2024: Seminar 03: Regional Seminar for Europe/Africa/Western Asia:

- 258 registered





A QUICK INTRO TO THE GLOBAL CONTEXT...

9 PLANETARY BOUNDARIES LAND CHANGE = 19% ANNUAL IMPACT.

1972 Earth Summit

COP 15

Conference of Parties / Government

Meetings since inception

Clarissa Augustinus

BEING GRAPHIC RECORDING IS NOT ABOUT HOW MUCH YOU KNOW BUT HOW MUCH YOU CAN GET OUT OF IT



"Capability building in new technologies will help Surveyors battle climate change."

Eranda Gunathilaka

"Embracing new technologies to enhance data for decision makers..."

Rumbidzai Chivizhe

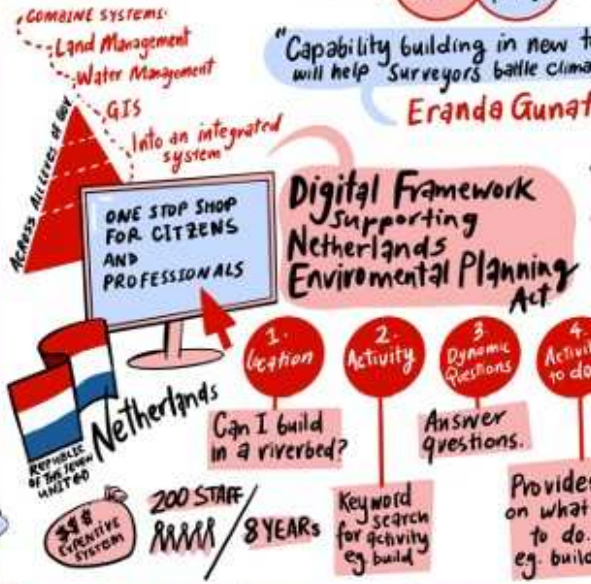
We all have a role to play!

SURVEYOR'S SKILL + ROLE

- ✓ GIS
- ✓ Hydrology
- ✓ Changes over time
- ✓ Planning & designing
- ✓ Education & Advocacy

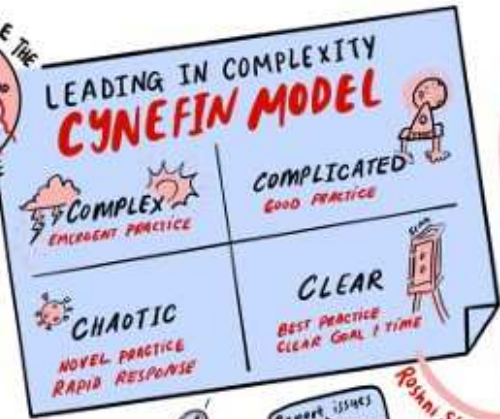
WHAT BENEFITS OF G.I.S. TECHNOLOGY?

- ✓ Early warning for community response!
- ✓ Better infrastructure planning
- ✓ Long term planning decisions
- ✓ Monitoring stations



"The biggest challenge was bringing it all together from across governments - the environmental Act helped."

Paul van Asperen



What does this mean for Surveyors?

As surveyors, we are skilled in the detail, certainty quantities. But we must get better at working with uncertainty to support others. We are stronger together.



Roshni Sharma



"We must address the interconnected challenges of human impact on climate!"

1972 Earth Summit

Surveyor's roles are connected to who gets what when... and through government National Environment Plans + will be needed to achieve change!

CLIMATE CHANGE IMPACTS in CHINA
Ruishan Chan



We know China is a large carbon emitter. ...but, has done a great effort in mitigation through:

"DUAL CARBON" GOALS for Carbon Neutrality by 2060!



DAVID HAYMAN .COM.AU



Case Studies from Asia-Pacific
Kate Fairlie



CHALLENGES: Long colonial history that has mined 80% of the island for phosphorus. The interior is now barren + uninhabital.

TENURE REFORM THROUGH

Legal gaps analysis
Dev. a Nat Land Policy
Review policy + practices

INRAISING PUBLIC AWARENESS

Training
Co-developed
Co-ownership
Social Safeguards

Promote Land Principles

PAPUA ESTABLISHED A TECH ASSISTED FACILITY TO IMPROVE SPATIAL

INDONESIAN GOVERNMENT

U.K. GOVERNMENT

LOCAL EXPERTS

GLOBAL EXPERTS

Land Tenure in the Carribean
Dr. Charisse Griffith-Charis



SIDS LAND CHARACTERISTICS

Small Islands with SLOPES

colonial history family land with no docs Spontaneous, informal use + occupation

CLIMATE CHANGE IMPACTS:

FLOODING

LAND SLIDES

SPECIES CHANGE

WHAT WE'VE BEEN WORKING ON:



- Available credit, insurances
- Appropriate land regulations + policy
- Spontaneous + voluntary

- Social acceptance to change
- Institutional acceptance of legality to scale
- Technologies + opp to both community + institutions.

Headed towards DATA POLLUTION (not accurate + too much) We will need to be able to filter + targeted application!



DATA INEQUALITY ACROSS: CITY DEVELOPER ← RURAL DEVELOPING

Get better at talking + meshing of the minds



Show how their work engages with climate issues. GET THEM to share data, not mandate it. GO ASK them about their needs to share!

"Getting people to see their similarities as opposed to their differences to come together is HARD!"

SEMINAR DISCUSSION
THOUGHTS ON TECH FOR THE GLOBAL SOUTH DESIGN OF NEW TECH?

Not about new tech

F.A.P. Fit for purpose standards... Best standards from the West might not be needed or possible.

Laws impact practice!



FIG CLIMATE COMPASS TASK FORCE
GLOBAL CLIMATE COMMUNITY
ASIA PACIFIC + AMERICAS
SEMINAR #2

LET'S SPARK OUR THINKING!



CYNEFIN MODEL OF COMPLEXITY

COMPLEX UNKNOWN	COMPLICATED CLEAR
UNPREDICTABLE PATTERN-BASED CHAOTIC	BEST PRACTICE CLEAR

NEW, NOVEL UNKNOWN CAPABILITY, DECISIONS + LEADERSHIP SIDE.

FAMILIAR, KNOWN: PRACTICES CAUSE + EFFECT + DATA SIDE.

I can do BIG MODELS IN ONE DAY! It took 8 of you to do!



Remember, a lot of data information AI can't capture everything...



Large scale national analysis of urbanisation, eco systems and farms, sand dust and storms water and electrical management etc.

We can see our shared eco-systems across borders!

TODAY: OPPORTUNITIES + GAPS FOR SURVEYING AND CLIMATE!

HOW CAN SURVEYORS USE DATA, TECH, DIGITAL TRANSFORMATION AND INNOVATION FOR CLIMATE ACTION!?

TO LEARN AND SHARE BETWEEN EACH OTHER!



GLOBAL CLIMATE COMMUNITY

Explore + Embrace uncertainty

Empower decisions in chaotic spaces

Embrace new capabilities

CYNEFIN MODEL OF LEADERSHIP + MINDSETS NEEDED FOR COMPLEXITY!

Towards the future!!



HOW ARE WE LINKED



Land, Water + Marine focuses

Land use change to 13-21% of GHG Emissions annually

Major roles in implementing, monitoring, measuring + evaluating

Capital management

COLOMBIA MANGROVE FOREST + EARTH OBSERVATIONS

Nelson Andres Nieto Valencia

FREE!! GLOBAL DATA!

MANGROVE FORESTS LINKED TO: FOOD SECURITY HOUSING LIVELIHOOD



A simple measuring device that help guide locals to improve practices

- ✓ 21-23 Expedition
- ✓ Spectroradiometry
- ✓ Separability Analysis
- ✓ Spectral Libraries + Satellite Images

COPERNICUS LAND MONITORING SYSTEM

EUROPEAN SPACE AGENCY



- Atmosphere
- Climate Change
- Land
- Emergency
- Marine
- Security



USUE DONEZAR

FREE!! GLOBAL DATA!

Role of Academics? + EDUCATION

Listen to industry needs on what, how etc. for future innovations!

Teach others to use + contribute to an expert system.

Look out! There is always something being released.

Govs.

Industry.

Academics.

New Climate Technologies?

Sensors are always improving

Link the Evolution of the Service to policies!

Building Community TRUST

Raising awareness

Continuous ENGAGEMENT

Understand past experiences.

Future Skills?

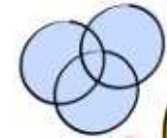
Be resilient as people for the work.

Communicate to others

COMMUNITY BASED APPROACH FOR SUSTAINABLE WETLANDS

BUTALETJA, KYOGA PLAINS

Simon Peter Mwesigye



CONTINUING OF CUSTOMARY OF LAND RIGHTS APPROACH + FRAMEWORK

MUST BE ALLOWED TO Evolve



Not a Problem! Individualised systems have done harm...

PROJECT INTERVENTIONS

IMPROVED TENURE SECURITY FOR WOMEN, MEN + YOUTH.

INCLUSIVE, CLIMATE-SMART LAND USE PLANNING.

IMPROVED AWARENESS ON CUSTOMARY RIGHTS + LAND PLANS

BIGGEST CHALLENGE IS IMPLEMENTATION!

Customary Rights



Maybe the only way for some in the future.

Which products are fit for purpose. Eg: Local Spanish data might work locally but won't work in France.

Confidence to start using Earth Data?

You don't need to program alot.

Just Jump in and have a go!

Open source online trainings

Being Organic Recording is the event - no putting where you are! Reach out at



I have a say! I have rights!

We can balance our economics, environment + social change!



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Expert Group Meeting on Transforming Land Rights and Climate Justice through a Women-Led Renegotiated New Social Contract



29 February - 1 March 2024 | Brentwood Suites
Quezon City, Philippines





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Communication and publications

- Active Core Team of Task Force of 13 members from 9 countries with monthly meetings
- Global Climate Compass Task Force community of 757
 - This Community participates through the Task Force marketing strategy and report-back of events, as well as on a WhatsApp group where regular updates are provided about activities. Over 100 nationally-based surveyors from this Community attended the inaugural Annual Meeting Task Force online meeting in February 2024.
- Task Force LinkedIn page with over 1,000 followers and regular blog posts and updates
- Task Force Youtube channel with 21 videos of webinars and seminars
- Task Force regularly contributes to FIG Newsletter
- Task Force working on an innovative FIG publication, to be delivered at the 2026 Cape Town Congress



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Vale Cemal Özgür Kivilcim

An active and highly valued Core Team member lost far too soon at 41 earlier this week.

Cemal, you will be missed as a friend, colleague and passionate advocate for surveying's power for climate action.

Thank you for all you have done – we will remember you fondly.

