



FIG Working Week 2024

19-24 May

Accra, Ghana

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

Presented at the FIG Working Week 2024,
19-24 May 2024 in Accra, Ghana

SERVING SOCIETY FOR THE BENEFIT OF PEOPLE AND PLANET

SUSTAINABLE DEVELOPMENT GOALS



1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY 	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES 	11 SUSTAINABLE CITIES AND COMMUNITIES 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS 	



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Serving society for the benefit of people and planet

Members of the Task Force on FIG and the Sustainable Development Goals:

- Paula Dijkstra,
- Ronald Ssengendo,
- Rosario Casanova,
- Marisa Balas,
- Ganesh Prasad Bhatta,
- Kenneth Norre,
- Winston Ayeni,
- Bola Adeyera
- Søren Brandt Pedersen,
- Anna Shnaidman,
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- Uchenna Duru,
- Lydia Najjuma,
- Paula Teperino,
- Daniela Cuentas, and
- Shristi Paudel

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The Task Force on FIG and the SDGs

- Supports FIG council, the commissions and networks to provide leadership and increase impact towards the 2030 Agenda and the SDGs.
- Provides a platform for the FIG community to inform and inspire the FIG community on the 2030 Agenda and the SDGs.
- Ensures that the relevance of the 2030 Agenda and the SDGs is embedded within FIG.

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SDGs and FIG Commissions' involvement

	Com. 1	Com. 2	Com. 3	Com. 4	Com. 5	Com. 6	Com. 7	Com. 8	Com. 9	Com. 10	YSN	ARN	AP RN	Standards
1 NO POVERTY							i	i	i		i	i		i
2 ZERO HUNGER							i	i	i		i			i
3 GOOD HEALTH AND WELL-BEING			i											i
4 QUALITY EDUCATION		i									i	i		i
5 GENDER EQUALITY	i		i								i			i
6 CLEAN WATER AND SANITATION				i	i	i	i	i			i			i
7 AFFORDABLE AND CLEAN ENERGY					i	i					i			i
8 DECENT WORK AND ECONOMIC GROWTH												i		i
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	i		i		i	i			i	i				i
10 REDUCED INEQUALITIES			i				i					i		i
11 SUSTAINABLE CITIES AND COMMUNITIES			i		i	i	i	i	i	i	i	i		i
12 RESPONSIBLE CONSUMPTION AND PRODUCTION				i										i
13 CLIMATE ACTION			i		i	i			i					i
14 LIFE BELOW WATER			i	i	i							i		i
15 LIFE ON LAND			i		i		i	i						i
16 PEACE, JUSTICE AND STRONG INSTITUTIONS	i						i					i		i
17 PARTNERSHIPS FOR THE GOALS									i					i
i	The FIG Commission can play a role in creating awareness and contribute to achieving the SDGs.													
i	The FIG Commission can play a role in measuring the indicator.													

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- Informed and inspired by the International Federation of Surveyors (FIG), members of the global surveying community are contributing to the achievement of the Sustainable Development Goals (SDGs).
- In this presentation we showcase several practical applications and case studies to demonstrate how various FIG Commissions are actively serving society for the benefit of both people and the planet.

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Achieving gender equality & empowering women

- Ensuring women's rights to land is key to advancing their economic independence and greater negotiating and decision-making power
- Economically empowered women become less vulnerable to domestic violence and discriminatory practices
- More investments by women in land-based investments
- Ensures adequate food security for the family and entire nations

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GEOSA
General Authority for Surveying
and Geospatial Information





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Achieving gender equality & empowering women

FIG members are involved in

- Developing and implementing various instruments e.g., FFPLA, LADM, STDM, etc
- Building gender-sensitive land cadastres with gender-segregated data
- Contributing to securing land rights for women in various countries including Uganda, Botswana, Zambia, Benin, Chad, Rwanda, Mozambique, Ethiopia, Uruguay, etc

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Achieving gender equality & empowering women



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Making cities and human settlements inclusive, safe, resilient and sustainable

FIG members are involved in

- Mobile mapping and community-generated information to support land administration
- Applying machine learning techniques and cloud computing to the collected data, and
- Creation of digital twins, i.e. real-time replicas of the environment.

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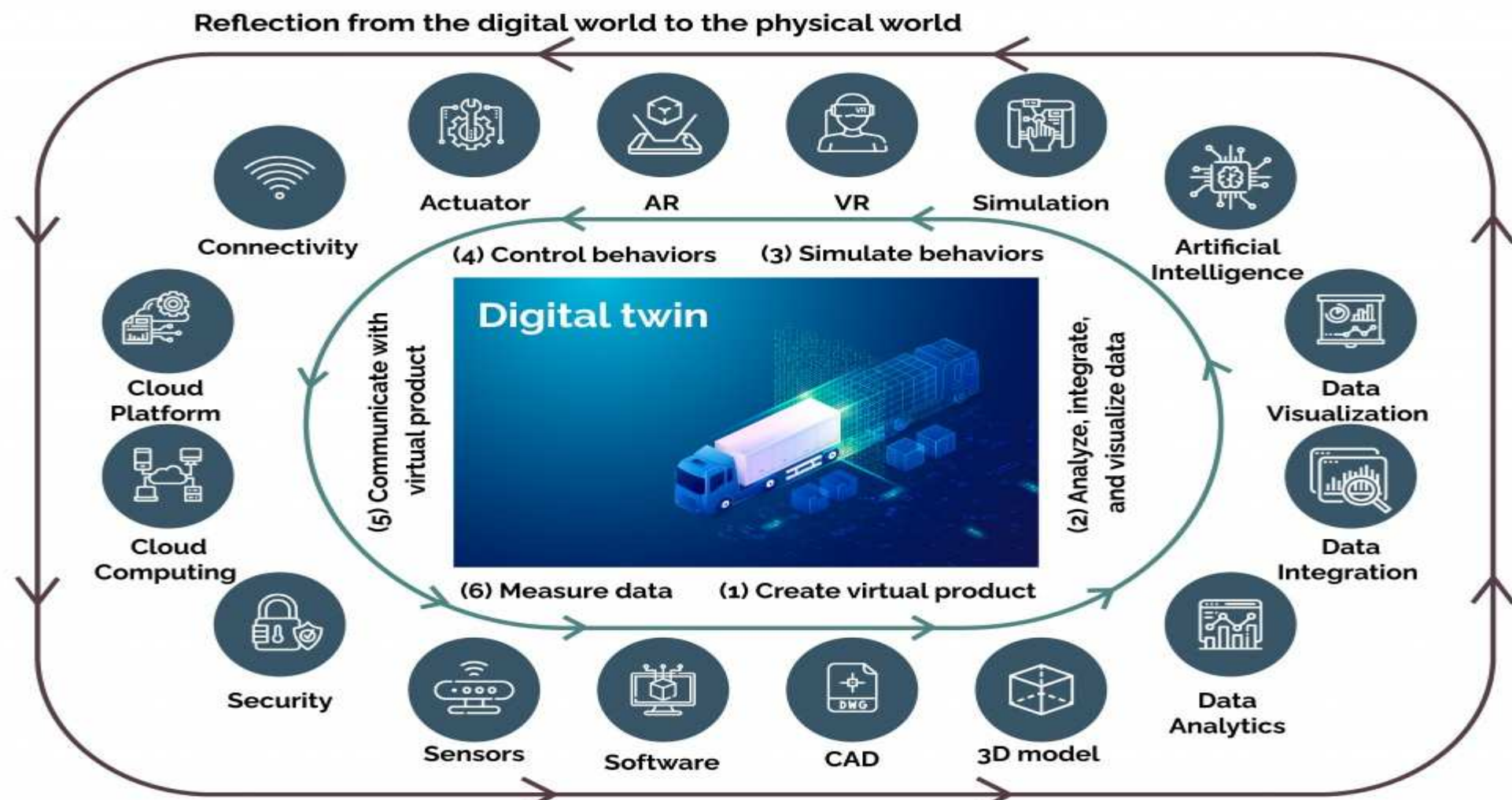


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THE SCIENCE OF WHERE™



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Action to combat climate change and its impacts

FIG members are involved in

- Producing detailed orthophotos and digital surface models - national tree canopy databases – facilitate the adoption of effective tree planting policies
- Sea level rise analysis - Visualization of sea level rise scenarios on a map-centric platform makes it possible to identify potential hazards
- Utilization of 3D models provides tools for deeper analysis and insights.
- Blue Surveying Initiative: Accurate hydrographic data is an indispensable tool for advancing targets related to marine biodiversity conservation, sustainable fisheries and the reduction of marine pollution

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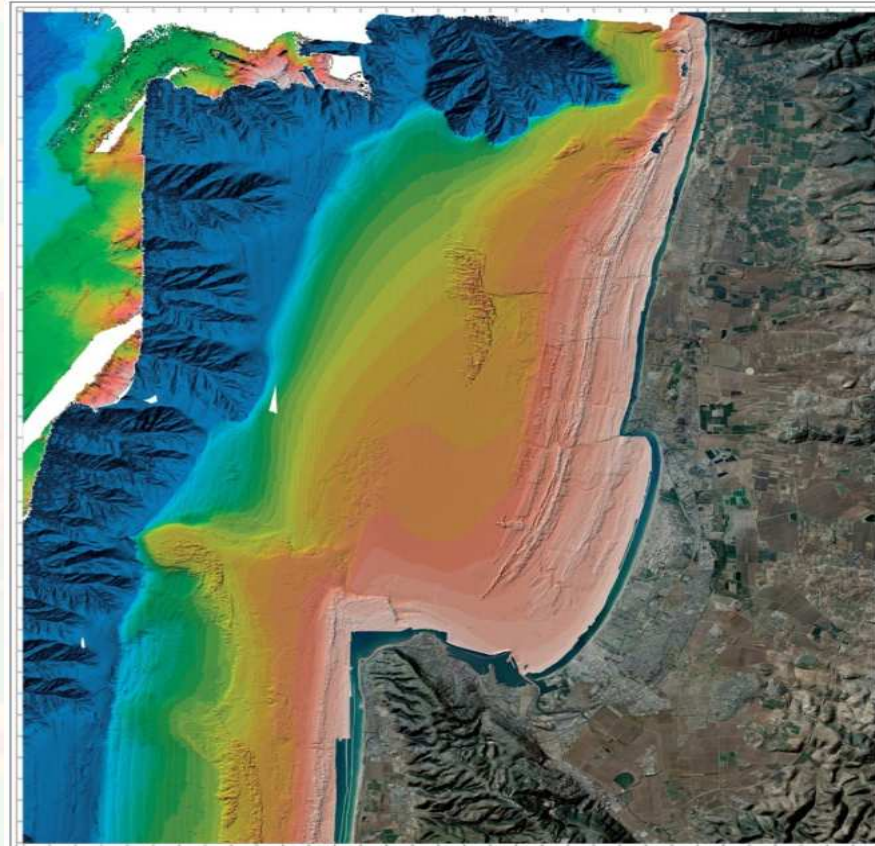
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Action to combat climate change and its impacts



Tree Canopy Cover map (Survey of Israel)



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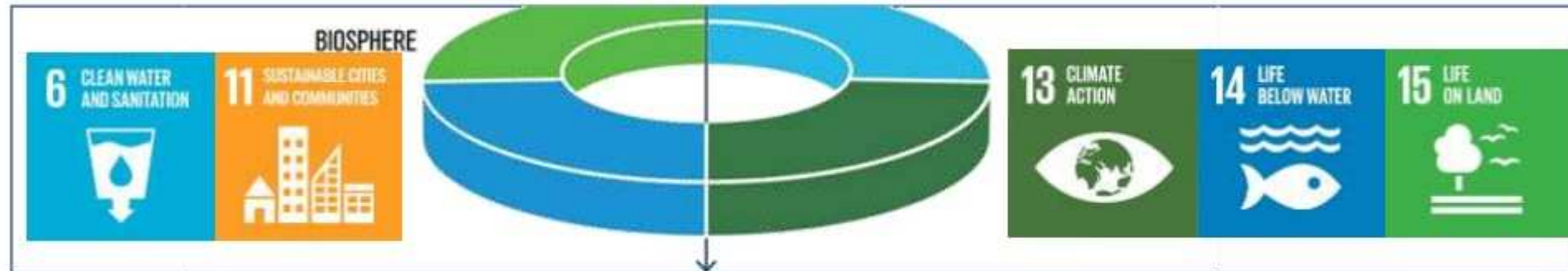
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Action to combat climate change and its impacts

In accordance with the CLGE 2022 Blue Surveying theme, we can highlight the SDGs and macro-groups related to the Biosphere (SDGs 6, 11, 13, 14, 15).



SDG 6 - Clean water and sanitation

SDG 11 – Sustainable Cities and Community

SDG 13 – Climate action

SDG 14 – Life below water

SDG 15 – Life on land

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Strengthen sustainable development in partnership

FIG provides a platform for members and stakeholders to inform, discuss, exchange and act towards a more sustainable world



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Education of surveying professionals

- FIG Commission 2 is conducting research into worldwide curricula for surveyors - one of its questions is related to the inclusion of the SDGs in each curriculum
- In some countries e.g., Uruguay - SDG-related research modules have been integrated into university curricula for surveyors.

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Education of surveying professionals

Objectives of Module 1



GENERAL OBJECTIVE

To study whether and how those SDG indicators that have a geographic character in Uruguay are measured, in order to obtain a quantitative diagnosis of the situation in the country.

Specific Objectives

- Carry out a diagnosis of the status of the survey of SDG geographical indicators in our country.
- Analyse the applicability of existing methodological guidelines at the global level to carry out such surveys in our country.
- Identify strengths and weaknesses of the measurements carried out.



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Young surveyors pave the way for sustainable development

As the torchbearers of change, young surveyors hold considerable sway in shaping the landscape of global development. Young surveyors are involved in

- Volunteer Community Surveyor Program (VCSP)
- Blue surveying initiative
- FFP LA

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Young surveyors pave the way for sustainable development

Wisdom Workshops

In-Country Deployments

E-Volunteering

Knowledge Portal

Volunteer Community Surveyor Program

FIG Young Surveyors

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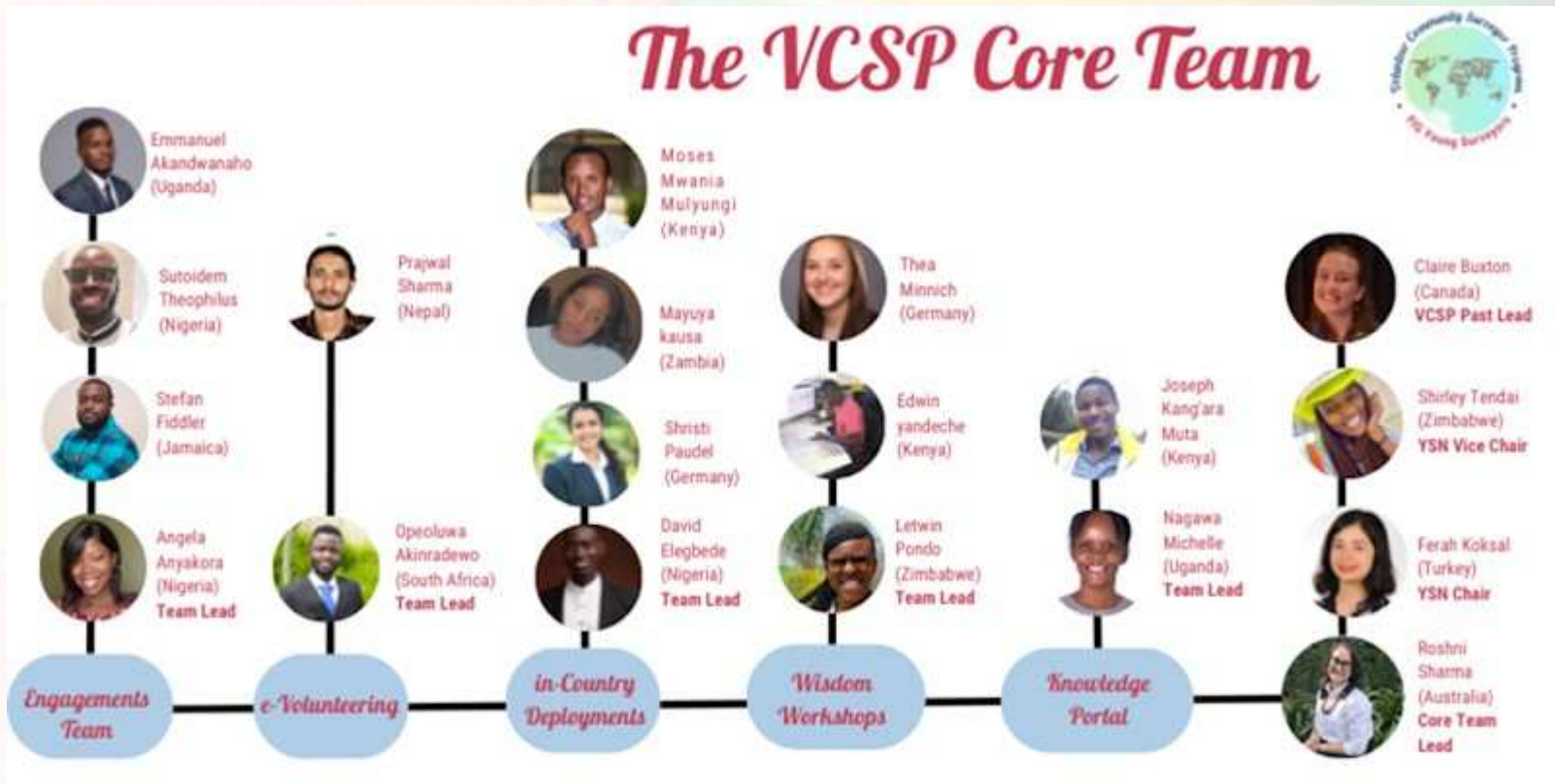
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Young surveyors pave the way for sustainable development

Knowledge Portal
Comprehensive and ambitious structure
Technical development well underway
On track for 2024 delivery

VCSP Wisdom Workshop
4 separate workshops and MOOCs with over 300 participants from over 40 countries globally

in-Country Deployments

2016-2021 (green): 6 Countries 2 Opportunity Partners 7 OLTN Partners 20 VCSs 7 VCS Mentors	2022-2024 (red): 10 Countries 2 Opportunity Partners 8 OLTN Partners 23 more VCSs 15 VCS Mentors
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Volunteer Community Surveyor Program
FIG Young Surveyors

VCSP e-Volunteering
3 Mapathons
2 Countries, 1 Global
140+ Mappers (45+ countries)
3 Opportunity Partners
37,000+ Features Mapped

MAP FOM OUT OF TANZANIA
36 HOUR MAP-A-THON (May 19th 10:00-18:00)

Developing a Land Tenure Reform System for Mars
VCSP e-Volunteering

e-Volunteering in Unprecedented Times: New Synergies to Address Humanitarian Challenges
A Paper by the Working Group 4 and the Volunteer Community Surveyor Program

SSA Frequent Flyers

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SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals



How do we achieve the #GlobalGoals by 2030?

- Mobilize everyone, everywhere
- Demand urgency and ambition
- Design new innovations and solutions



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