



# Equipping the Future

Trimble's Role in Empowering the Next Generation of Surveyors

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*Presented at the FIG Working Week 2025,  
6-10 April 2025 in Brisbane, Australia*



# Geospatial data is constantly evolving

## Technology

**From:** Single Point Measurement

**To:** Reality Capture

More data, more often, more insights, smarter decisions



## Workflows

**From:** Field work & report services

**To:** Data collection & management

The changing role of the Geospatial professional

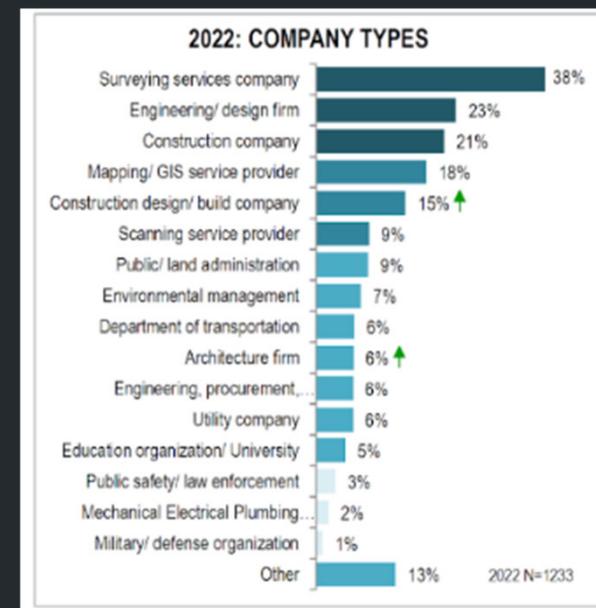


## Customers

**From:** Predominantly survey services Co's

**To:** Distributed customer demographics

Industry's, roles and company/corporation sizing





# FIG Young Surveyors

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# People



**Melissa Harrington**

Former Chair FIG  
Young Surveyors



**Stephanie Michaud**

FIG Young Surveyors  
Member



**Markus Koper**

Trimble FIG  
Representative

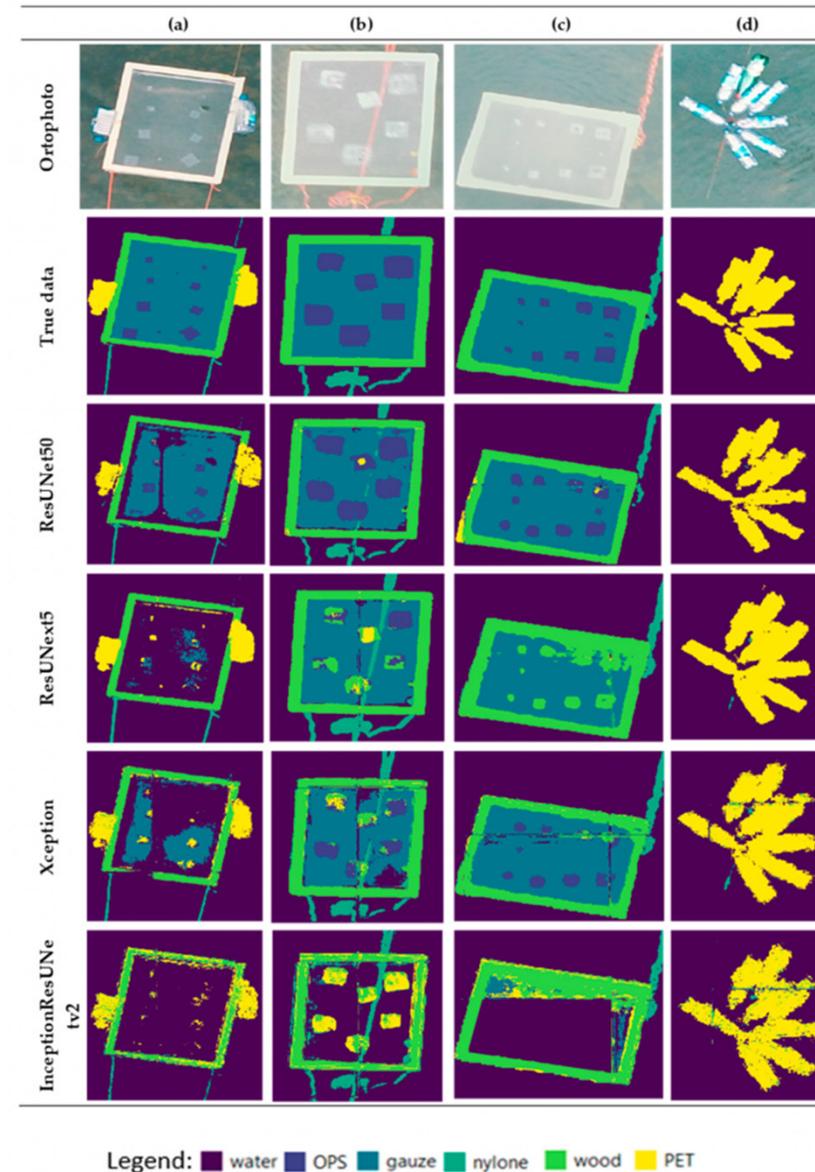


# Mapping the plastic

FIG developed a plastic mapping solution, based on deep learning algorithms in conjunction with UAV-captured imagery, aimed at dealing with the problem before it reaches the ocean.

Trimble Provided

- Ecognition office software
- GNSS and Field Software
- Technical training and support





# Volunteer community surveyor program

Volunteer community surveyor program:

- Grants to Young Surveyors for in country deployment
- Catalyst GNSS receivers
- Penmap field software

*In-Country Deployment opportunity*

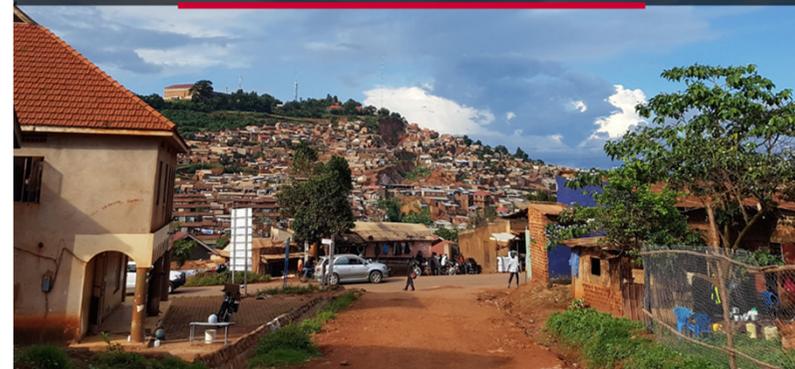
**ARE YOU A YOUNG SURVEYOR IN  
UGANDA OR  
KENYA?**

**Apply to be a Volunteer  
Community Surveyor today!**

DEPLOYMENT: 1 MARCH - MAY 2021.  
APPLICATIONS CLOSE 28 FEBRUARY 2021.

**Volunteer  
Community  
Surveyor  
Program**

**YOUNG  
SURVEYORS**



**Volunteer Community Surveyor Program**

A partnership between UN-Habitat GLTN and the Young Surveyors Network of the International Federation of Surveyors



# Trimble Foundation Fund

Our philanthropic efforts to shape a sustainable future where people and planet thrive





# The Trimble Foundation

## Foundation at-a-glance

- **8 years.** Founded in 2017, the Trimble Foundation is 8 years old, but Trimble's history of giving goes back much farther
- **Voluntary.** The Foundation is run by employees who commit to volunteering their time and talents
- **Impact.** We ground our efforts in a commitment to achieving meaningful, long-term outcomes
- **Partnership.** Our partners are at the center of how we deliver impact





# Trimble Foundation Fund



## Disaster Response & Climate Resilience

covering disaster responses and climate change adaptation and mitigation efforts



## Access to Education & Economic Opportunity

increasing access to quality education and pathways to fulfilling careers



## Scaling Sustainable Industry Practices

projects that scale sustainable industry practices

# Access to Education & Economic Opportunity



## Women Changemakers for Education

- Supports women in Ghana who are changemakers in their communities.
- Provide mentoring, training and microgrants.
- Since 2019, they have trained 10 fellows, who have impacted 72,000 people!
- The impact of Foundation funding has been felt through being able to double the number of women mentored and international recognition of work undertaken.



Shine Dewovo and Millicent Adjei





# TRANSPORTATION & CONSTRUCTION | GIRL™

They are focused on increasing gender representation by exposing young girls to career opportunities in the transportation, construction and geospatial industries.

- Relationship entails sponsoring career fairs (with 1200 school-age girls attending).
- Summer career day at Trimble.
- Growth in scholarships and internships in targeted industries.





# Disaster & Climate Resilience

Supporting communities impacted by natural disasters with the help of organizations focused on disaster recovery, rebuilding efforts and building resiliency to drive a sustainable future



- The HALO Trust is the world's largest humanitarian mine clearance organization
- Foundation partner since 2022
- Impacts for Ukraine
  - since Trimble and HALO started their partnership, the program has more than tripled, growing from 400 staff to over 1300.
  - HALO is planning on growing to over 1500 staff by the end of 2025.



Cooperation with armed and military forces



### Mapping

Halo Trust has Mapped over 7,083 landmines in 8 months.

“ Halo Trust is Mapping faster than ever and this makes a big difference for many in this world”-

Luan Juapi



### Women in GIS Project

Hired and trained NON-GIS specialist.

Recruitment is complete

- Two-Ukraine
- One-Sri Lanka
- One-Zimbabwe
- One- Yemen

Program fully Operational in Ukraine



### DA2

Ukraine and Angola have also been using DA2's to map roads that are safe or unsafe for our field teams to use or avoid.

“Saving Lives, Without the DA2 this would not have been possible.”



### Halo's Target

Aim is to use Trimble GNSS receivers to map landmines and other explosive ordnance devices across all HALO programs.

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# Women in GIS for Demining

- Trimble Foundation funds HALO Trust's "Women in GIS for Demining" initiative.
  - Initiative trains women in disadvantaged areas to become GIS specialists.
  - Goal: Build local capacity to clear landmines from conflict-affected areas.
  - Three-year grant (2024-2027) funds 11 women in 7 countries.
  - Countries include Sri Lanka, Ukraine, Yemen, and Zimbabwe.
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# Trimble Technology Labs

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# Preparing the next generation of industry professionals

Trimble Technology Labs (TTLs) help educate the next generation by teaching students with the latest tools. We provide the latest from the Trimble product portfolio to our TTL partner institutions, allowing students to learn on the same platforms they will need to use in their careers.



# Issues with Preparing the Workforce

- Limited 1-1 experiential learning opportunities
- Limited access to technologies





# Auckland Tech Lab

## Involving other industries

- Engineering students are now using Trimble technology and equipment in their projects.
- The lab has also been instrumental in getting geospatial technology to other areas of the University outside the traditional engineering areas.



# Engineers Without Borders USA

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## **Trimble**

- Aligned impact and engagement strategy based on Trimble Technology Lab (TTL) program footprint and the Trimble Foundation and Sustainability strategies
- Align funding to have an impact on EWB-USA chapter work while continuing to advance EWB-USA HQ thematic opportunities, including climate resiliency and disaster impact

## **EWB-USA**

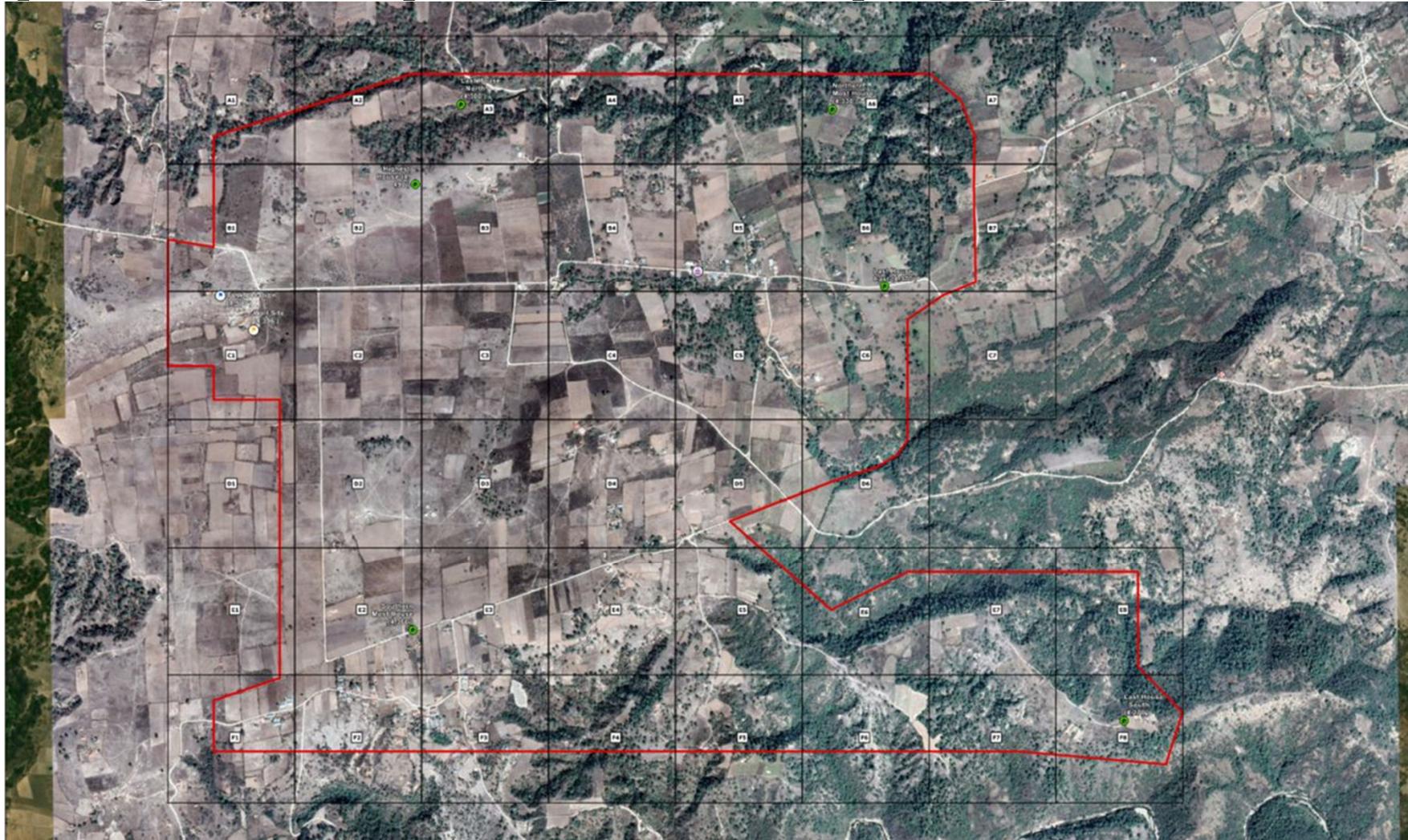
- Partner with Trimble to support the need to embed climate resiliency in all projects
- Work to impact EWB-USA chapter work while advancing thematic opportunities around climate resiliency, disaster response, and STEM education

**Connect & Scale** - Foundation, Sustainability, EDU, TTLs and Geospatial





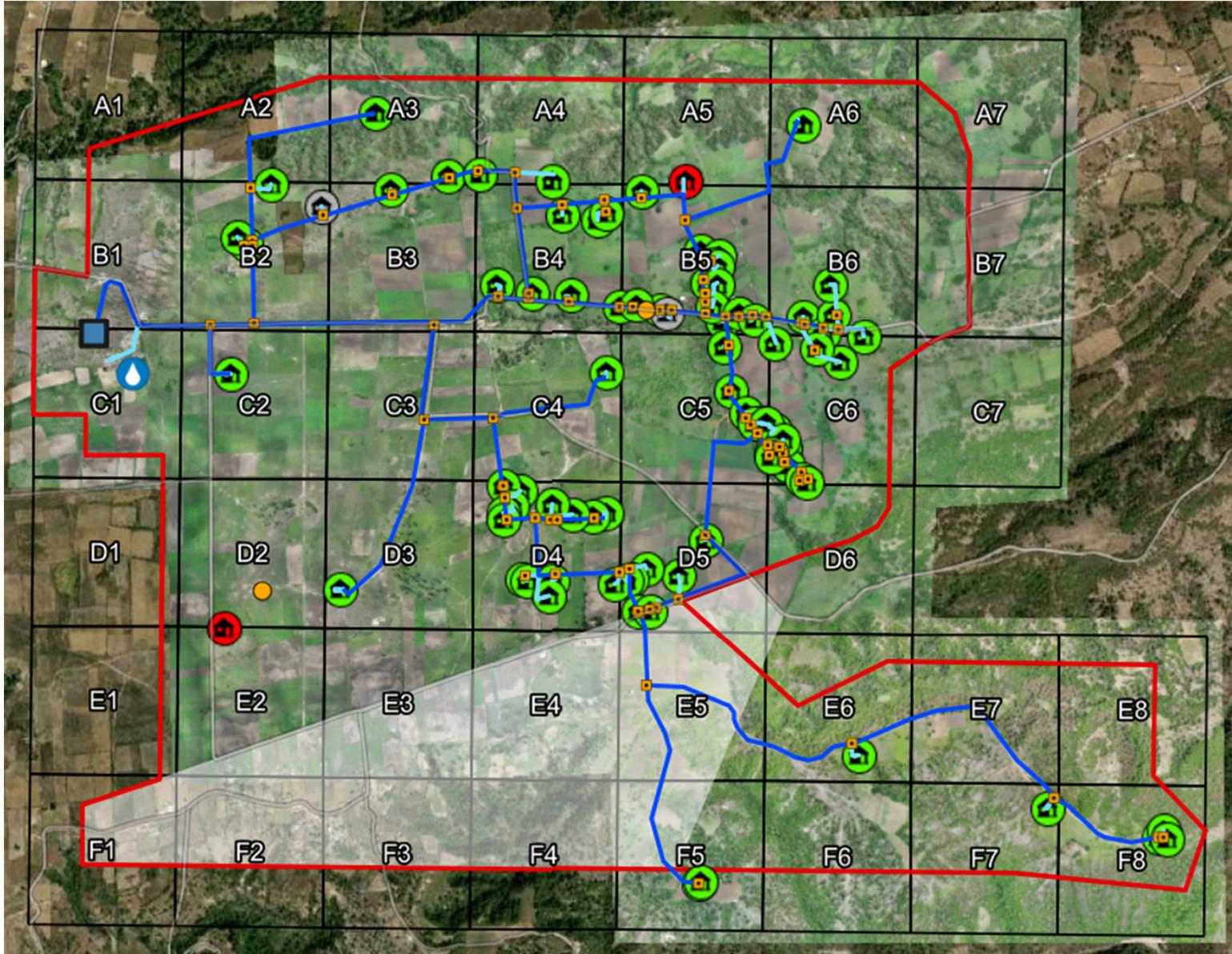
# Mapping Pilot program in progress

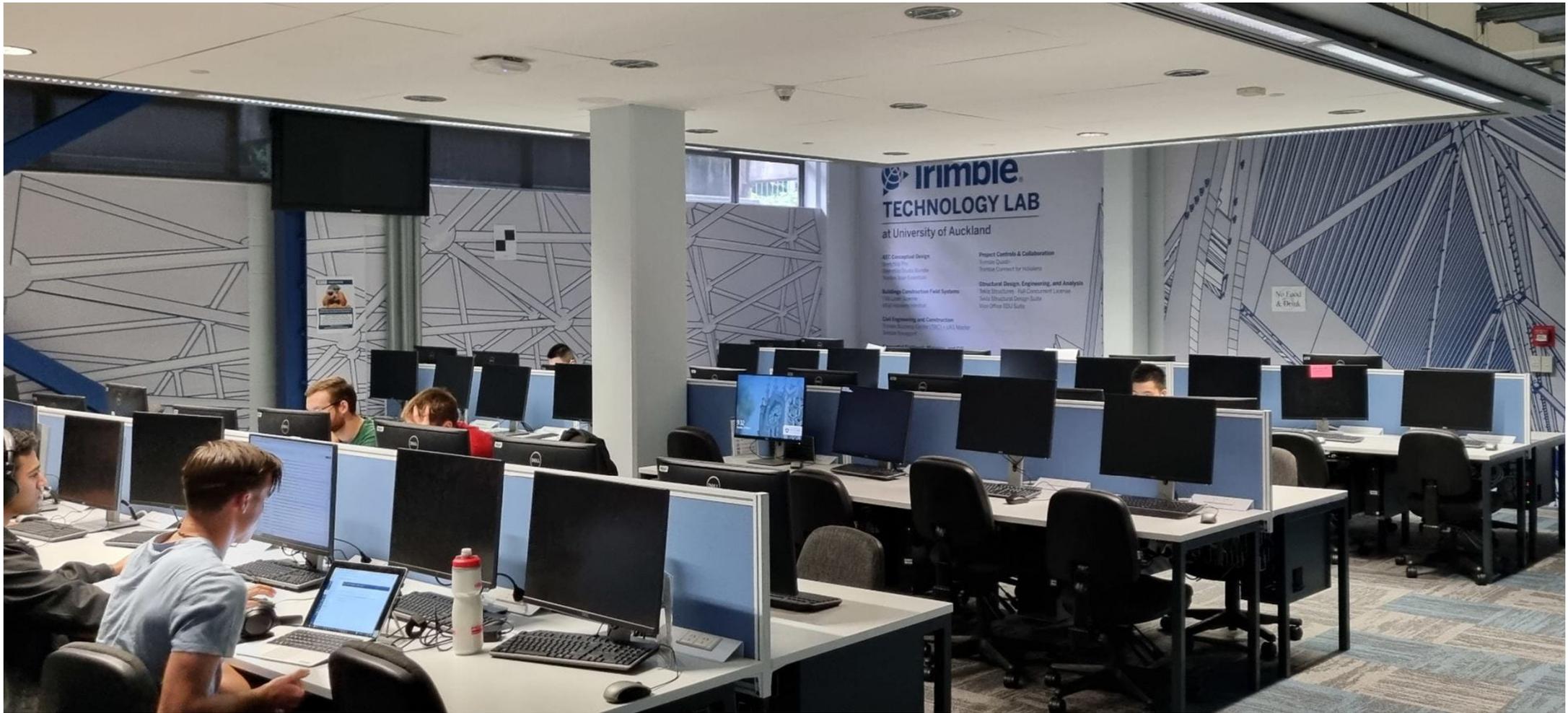




# Mapping Pilot program in progress







**Irimble**  
**TECHNOLOGY LAB**  
at University of Auckland

**AEC Conceptual Design**  
Conceptual Design  
University of Auckland  
Project Team

**Buildings Construction Field Systems**  
Technical Services  
1000+ hours of service  
1000+ hours of service

**Civil Engineering and Construction**  
Technical Services  
1000+ hours of service  
1000+ hours of service

**Project Controls & Collaboration**  
Project Controls  
Contract for Hire

**Structural Design, Engineering, and Analysis**  
Technical Services  
1000+ hours of service  
1000+ hours of service

No Food  
& Drink