



Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6–10 April

Private Sector Responsibility in Supporting Sustainable Development

“More than Green” – Leica Geosystems

Craig Hill

VP Marketing & Services

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



PLATINUM SPONSORS





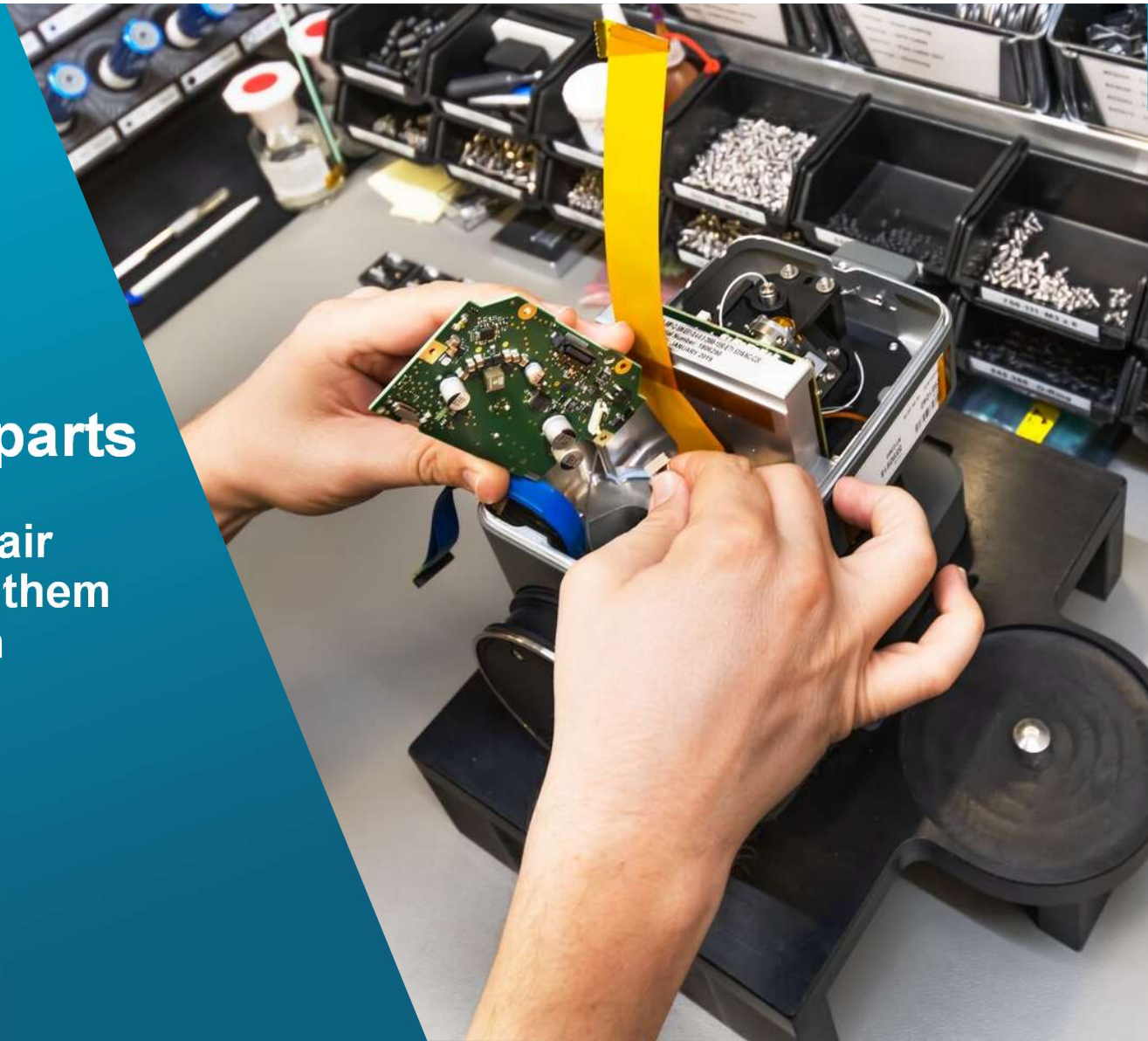
“ Product quality

Products are designed and manufactured to deliver longevity and hence longer replacement cycles



“ Exchange spare-parts

To avoid waste, we repair
spare-parts and return them
back to use rather than
disposing



“ Dropped instruments

Even the most seriously damaged instruments are mostly fully repaired and not discarded



“ Pre-owned equipment

We actively manage a pre-owned survey equipment network that ensures equipment is fully refurbished and returned to active use rather than being discarded



Search...



TOTAL STATIONS GPS / GNSS REALITY CAPTURE LASERS LEVELS DETECTION SYSTEMS MONITORING ACCESSORIES PHASED-OUT

Certified Pre-Owned Equipment

THE OFFICIAL LEICA GEOSYSTEMS
PRE-OWNED SURVEY EQUIPMENT SUPPLIER

CERTIFIED
Pre-Owned
Equipment Center

CPEC

Leica
Geosystems

- Certified
- Inspected
- Guaranteed



TOTAL STATIONS



THEODOLITES



LASERS



LEVELS



“ Recycling passports

When equipment has reached end-of-life, recycling passports are available to ensure that products are recycled responsibly

Recycling Passport Certificat de Recyclage Recycling Pass

We / Nous / Wir Leica Geosystems AG, CH-9435 Heerbrugg (Switzerland)

confirm that the product
clarons que le produit
tätigen, dass das Produkt

Leica Disto D1

Recycling Passport relates is in conformity with the following directives
ere cette déclaration est conforme aux directives
eser Recycling Pass bezieht, mit den folgenden Richtlinien übereinstimmt

Waste electrical and electronic equipment (WEEE) 2012/19/EU
Category 9 product according Annex I
Restriction of the use of certain hazardous substances 2011/65/EC

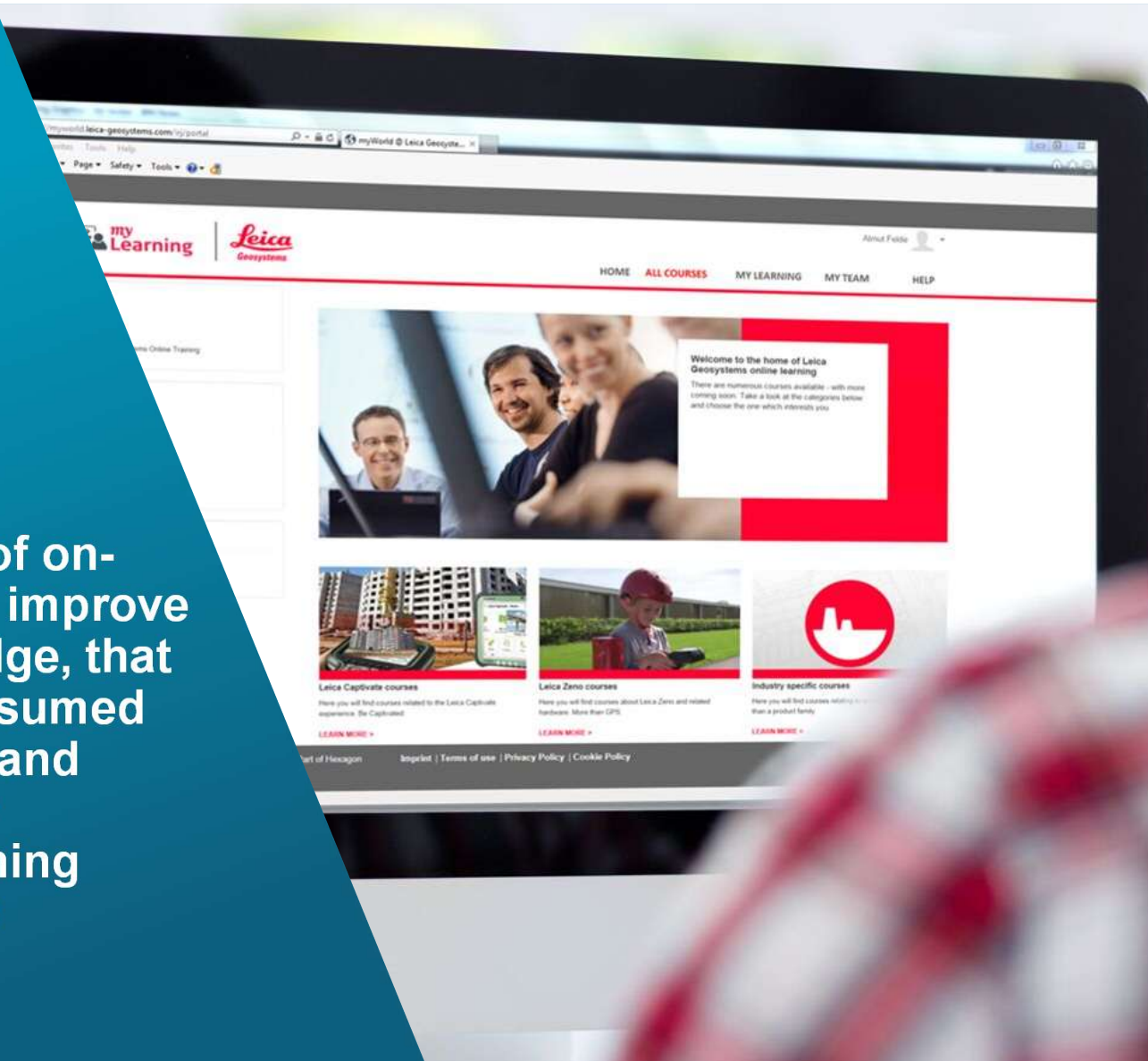
“ Support technologies

Development of support technologies that allow expert support personnel remote access to customer field equipment to solve the most difficult support cases without needing to travel on-site



“ Online training

We provide a portfolio of on-line training material to improve our customers knowledge, that can be sustainably consumed at the appropriate time and place, and is frequently updated to ensure learning continues through time



“ Online collaboration

With online collaboration tools, experts can come remotely together to review design and construction progress without needing to travel on-site in a potentially dangerous environment



“ Collision avoidance

Our collision avoidance technology ensures that people and assets on busy construction sites are given early warnings when machinery and people come close



“ Collision avoidance

Our collision avoidance technology ensures that people and assets on busy constructions sites are given early warnings when machinery and people come close



“ Utility detection

There's a lot going on underground that you need to be known before digging. Our utility detection solutions find all potential threats, including non-conductive pipes and fibre optics, increasing safety by lowering the risk of accidentally hitting underground assets



“ 3D avoidance zones

Our Machine Control solutions enhance safety with 3D avoidance zones above and below the surface. Create or import avoidance zones directly to the machine control software to inform operators of danger



“ Monitoring movements

Our measurement solutions autonomously measure objects and structures and automatically notify experts if the smallest movements are detected. Experts can then make life saving decisions to ensure people and assets are moved to safety



“ Coastal erosion

Our solutions help build new defences that provide a new lease of life to promenades and help protect areas from coastal erosion while protecting properties and people



“ Remote measurement

Our measurement technologies include functionality to ensure that personnel can measure objects that are in dangerous locations from a safe distance



“ Green transportation

Our measurement technologies are used to support the creation of safe cycle paths and make public transport accessible for people with disabilities



“ Autonomous mobility

Testing every possible scenario at a scale required to enable safe and successful autonomous mobility is not feasible in the physical world, but it is in a digital world. A Smart Digital Reality™ created by high-definition mobile mapping systems helps make this happen



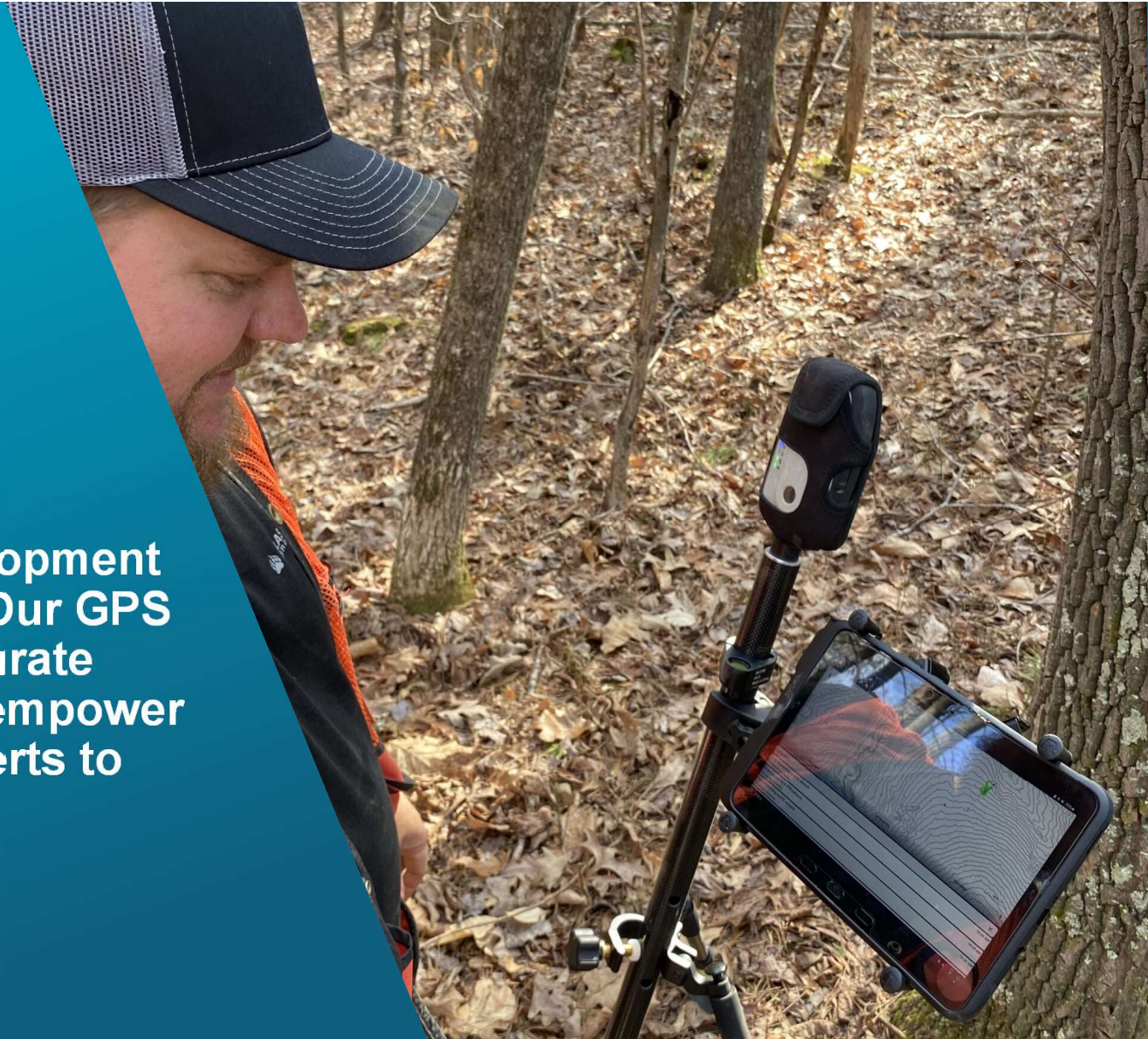
“ Positioning services

Make precision agriculture accessible, optimise performance and lower production costs. GNSS technology provides precise positioning at every moment for reduced crop strikes and higher productivity and ultimately more sustainable agriculture



“ Sustainable land

Sustainable land development requires better maps. Our GPS antenna's provide accurate positioning for GIS to empower land management experts to provide next-level land intelligence



“ Reduce material needs

Efficient milling reduces material needs; saving time and improving accuracy

Accurate milling improves the quality of the layers, improving durability; Recycling of asphalt onsite, improving the material efficiency and embedded CO2



“ Reducing waste

Prefabrication can significantly reduce waste

Built to accurate 3D models ensures components fit perfectly together on-site

This avoids wasted material and ensure cost efficient and timely delivery



“ Circular economy

Construction and Demolition Waste (CDW) is one of the biggest waste streams globally

Scanning buildings before being demolished to estimate materials available

An accurate dataset of existing structures improves material circularity and saves costs



“ Offshore wind power

Wind power generation is an important contributor in the transition from burning fossil fuels

Precise (sub-mm) positioning for verticality, height, orientation and as-built

Safety is ensured by remote measurement





“ Solar Potential

Combining 3D city models with environmental data allows the detailed prediction of solar potential

Accurate roof measurements prior to installation of photovoltaic systems

Saving our planet

The biggest business opportunity of the 21st century!



R-evolution

Powered by Hexagon

The Company – Invest in and develop green-tech projects leveraging Hexagon's technology

The Vision – Bring together cutting-edge tech to save our planet

The Value – Drive the shift toward a sustainable future with financial return



“ Mapping Seagrass

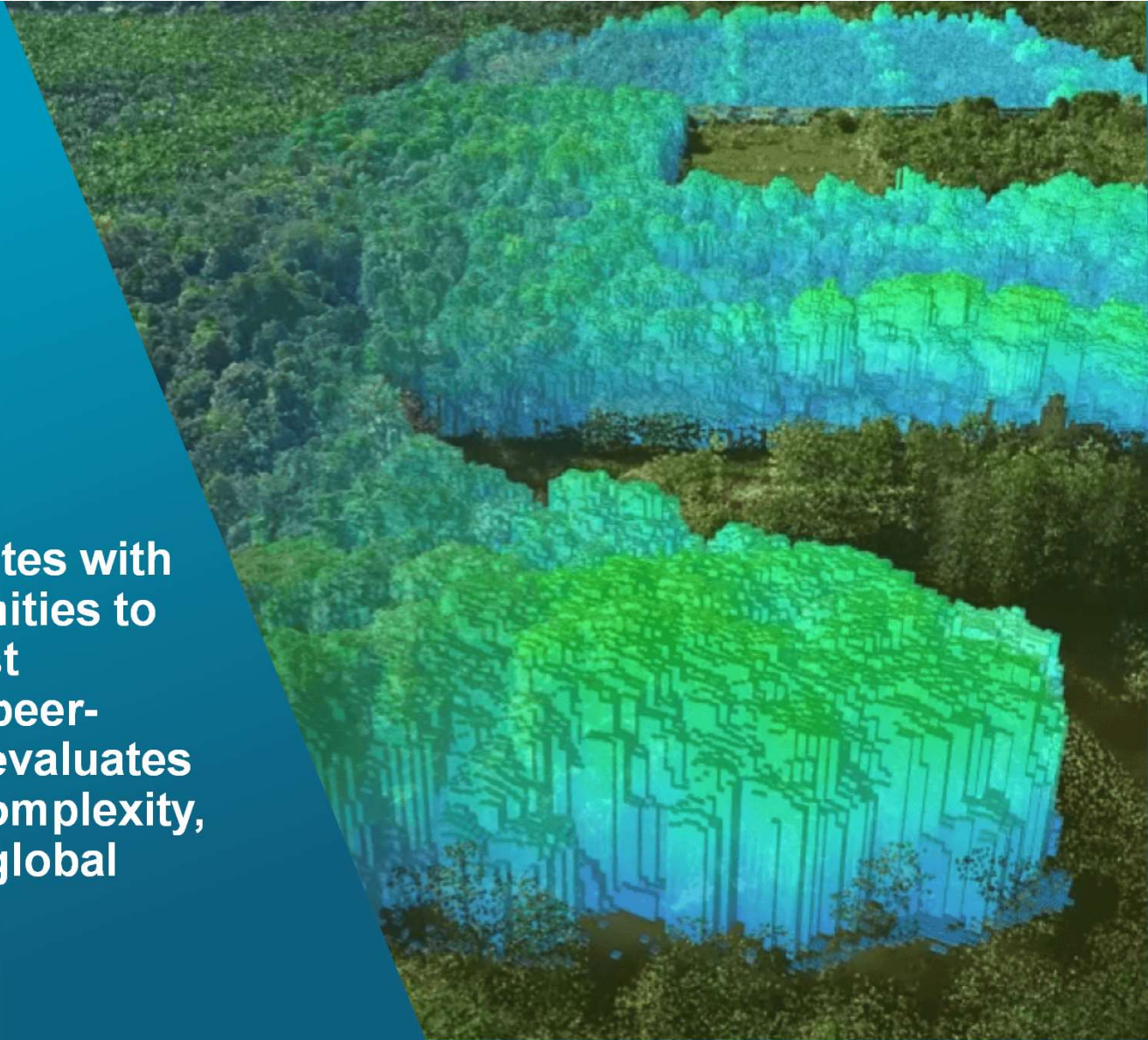
Seagrass is an important part of the coastal biodiversity ecosystem

Our airborne bathymetric LiDAR solutions rapidly map large areas of seagrass habitat to help protect and manage this vital habitat



“ Green cubes

Green Cubes collaborates with scientists and communities to conduct accurate forest assessments, using a peer-reviewed method that evaluates density, height, flora complexity, and fauna, enhancing global conservation efforts.



An aerial photograph of a coastline with a network of white lines and dots overlaid, suggesting a digital or geospatial theme. The image is split diagonally into teal and blue sections.

Sustainability meets opportunity

Hexagon's sustainability strategy seizes the opportunity of our lifetime – creating an autonomous and sustainable future





“ Enabling sustainable development

We solve customers' urgent challenges while making smarter use of the earth's resources



“ Operating sustainably

We uphold high standards of sustainability in our internal operations and activities

“ A sustainable supply chain

We source responsibly and respect human rights throughout our supply chain



A photograph of two workers, a woman on the left and a man on the right, both wearing white hard hats and high-visibility orange safety vests over blue work shirts. They are standing in an industrial environment with yellow machinery and blue metal railings in the background. The woman is smiling and looking towards the man, who is gesturing with his hands as they talk. A large blue diagonal shape is overlaid on the left side of the image, containing white text.

“ Culture and people

We promote diversity and inclusion alongside expertise for a healthy, competitive workplace

“ Corporate social responsibility (CSR)

We give back to the communities where we operate through sustainable activities



More here at FIG:

Tuesday, 8 April; 11:30 AM – 1:00 PM; P2

Leica Geosystems: "Grow Your Business"

Being a good Surveyor is not good enough

Laren Collen

Leveraging Digital Twins for Energy-Efficient and Liveable Cities

Craig Hill

Tuesday, 8 April; 4:00 PM – 5:30 PM; P2

Digital Transformation and Spatial Planning Towards Climate Resilience

Green Cubes: Digital Twins Transforming Biodiversity into Business Value

Laren Collen

Wednesday, 9 April; 4:30 PM – 5:30 PM; P9

Modern Infrastructure Development - Innovations and Monitoring Techniques

High-rise positioning: Dynamic and real-time monitoring of tall buildings

Lidija Špiranec

