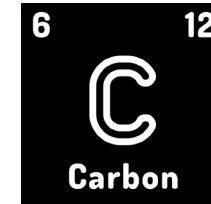


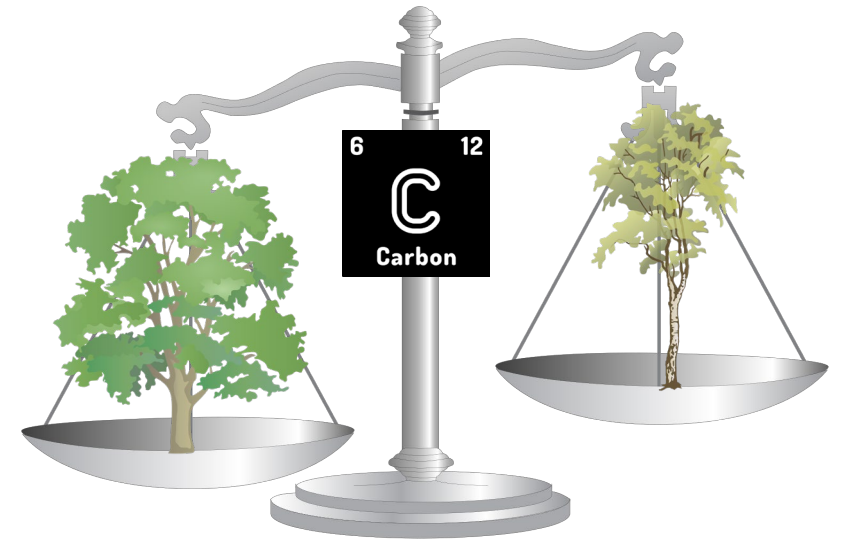
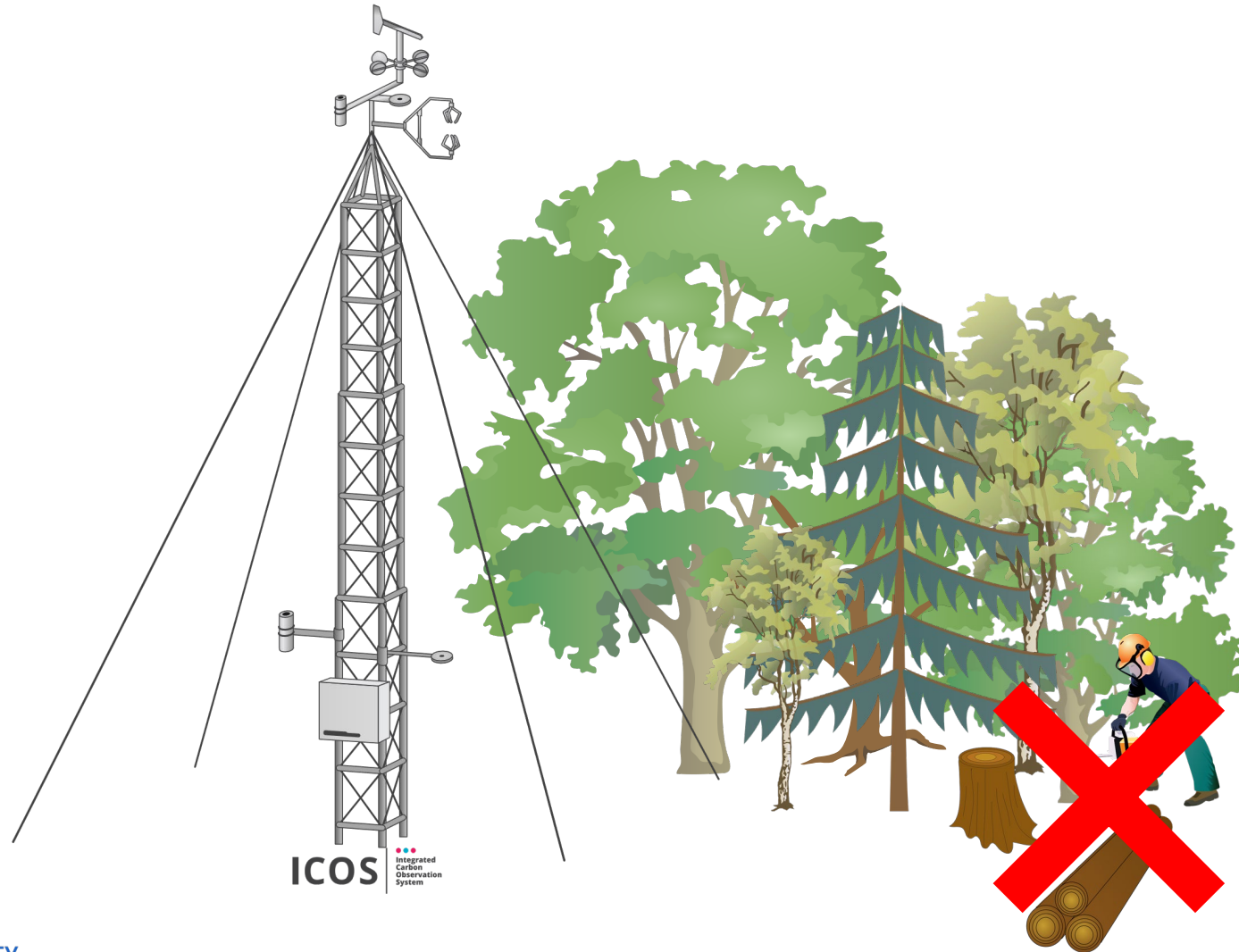
Multi-Scale Laser Scanning for AGB Estimation at ICOS Forest Sites

Geike De Sloover • Louise Terryn • Benjamin Brede • Seppe Bresseleers • Kim Calders • Kobe Happaerts • Linda Luck • Johannes Wilk • Bert Gielen

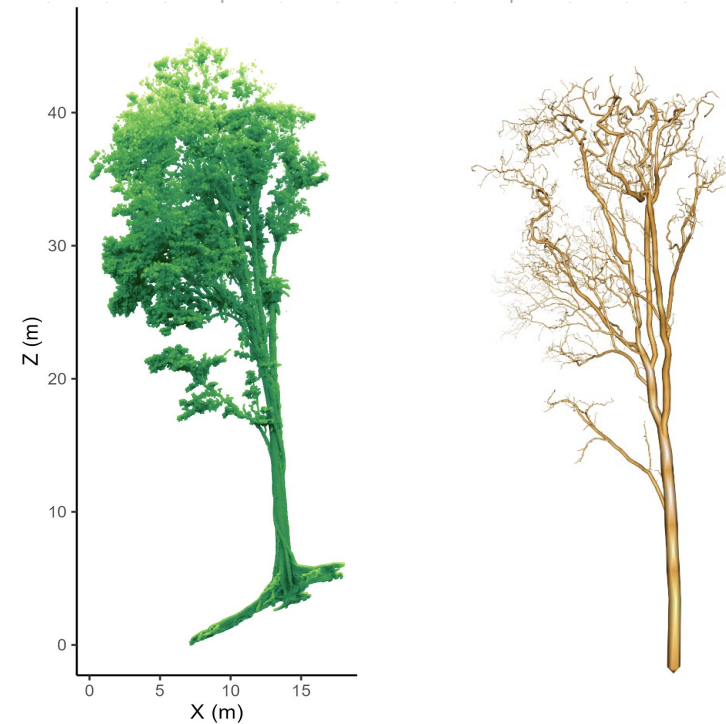
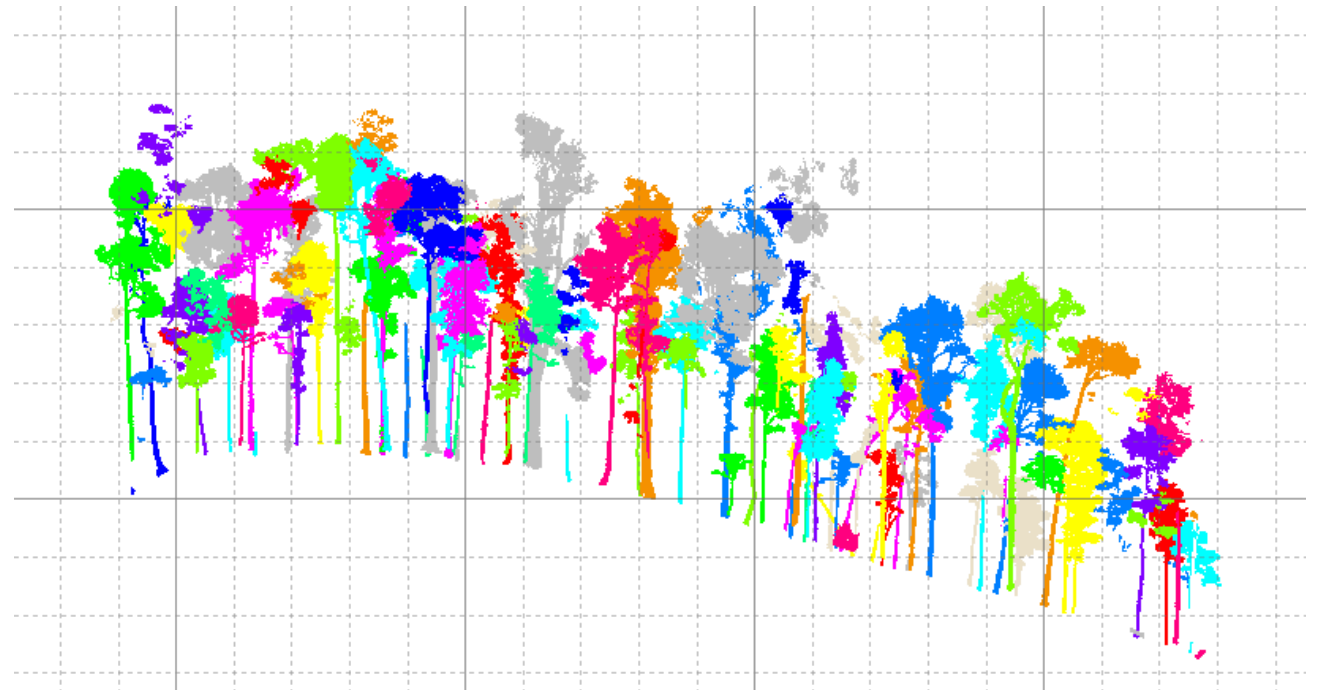
Why 3D Forest Structure Completes the ICOS Picture



Why 3D Forest Structure Completes the ICOS Picture

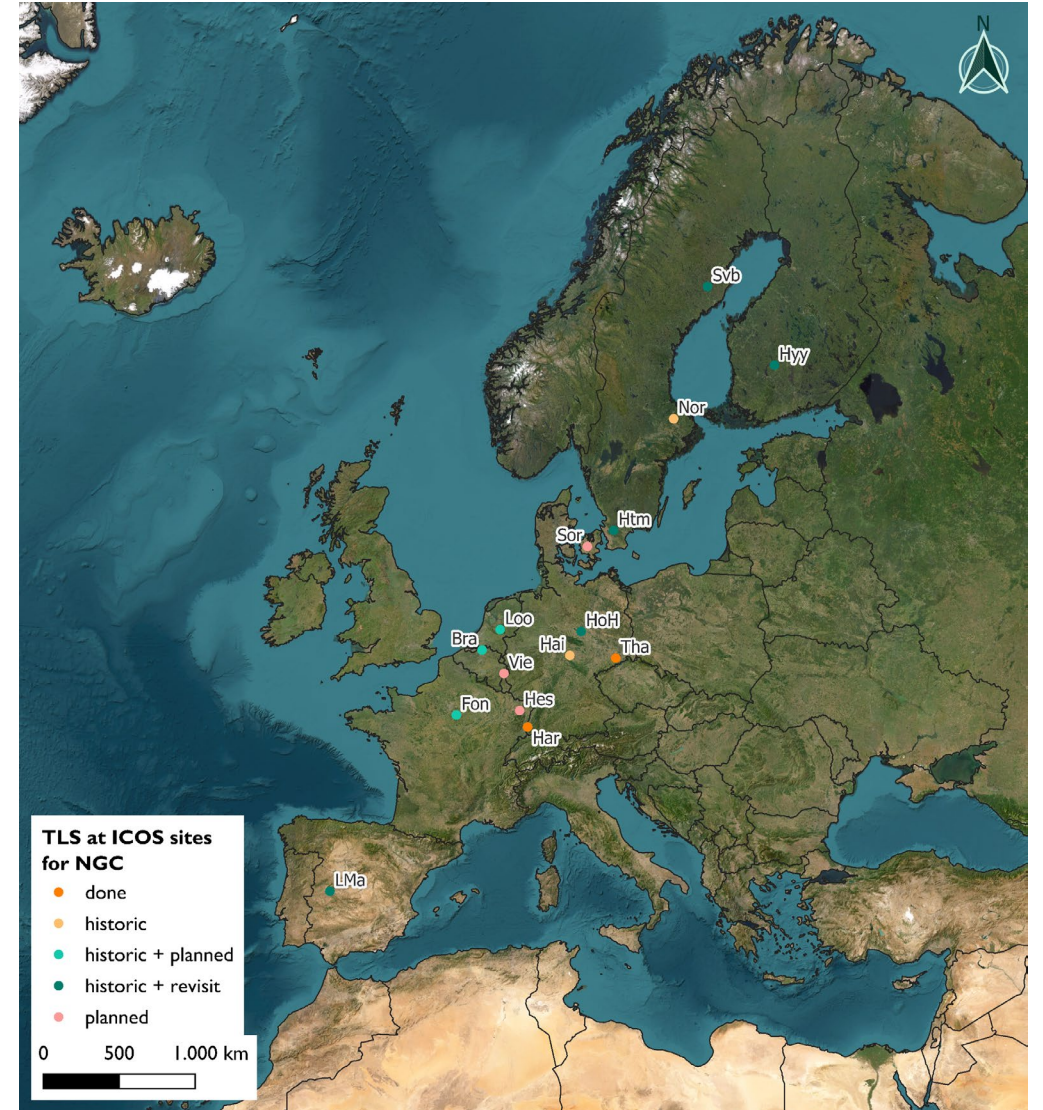


Laser Scanning

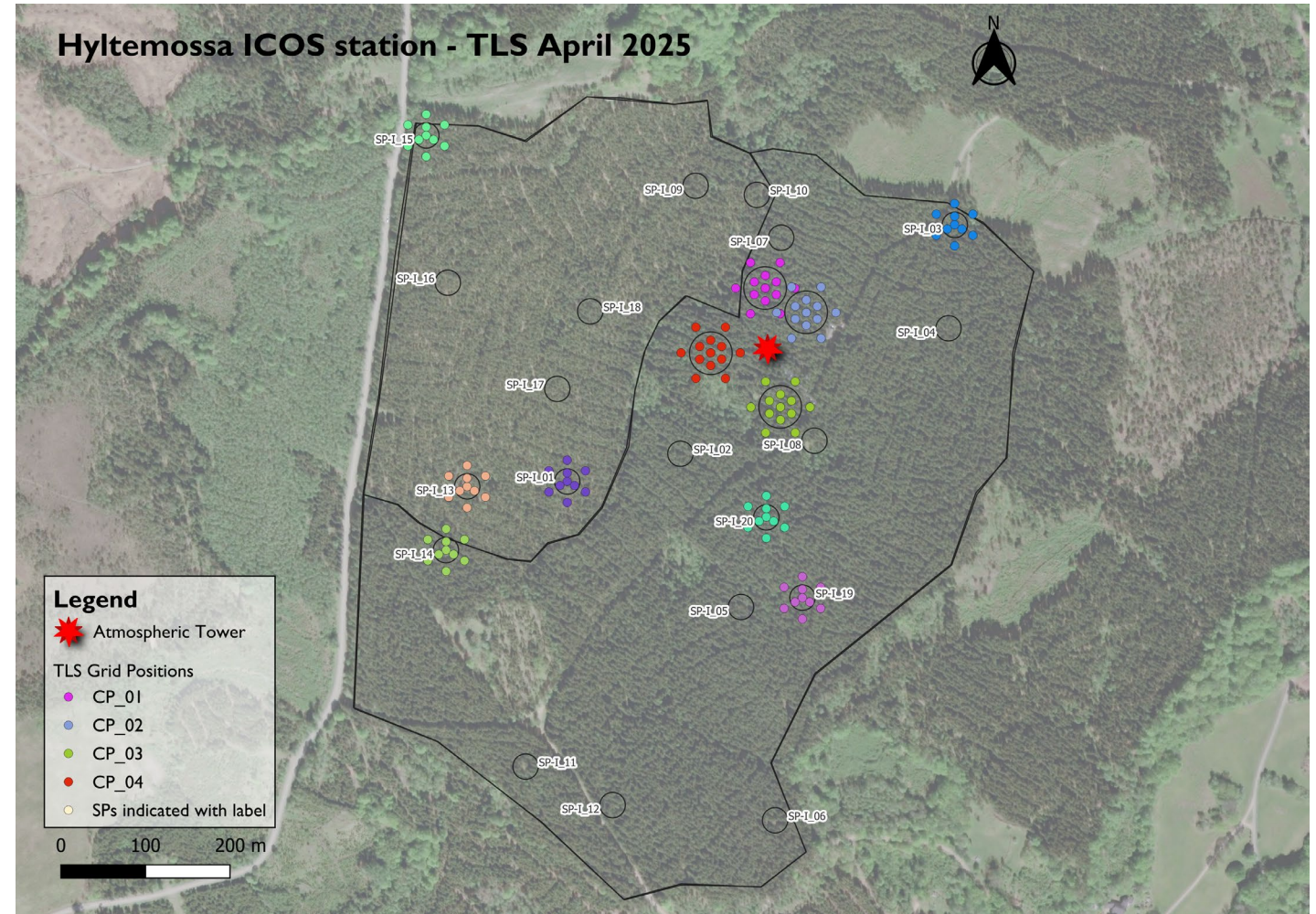


Laser Scanning at ICOS

- 2019 → 2024–2026
- Same TLS protocol, new UAV-LS layer
- Long-term structural monitoring



Terrestrial Laser Scanning



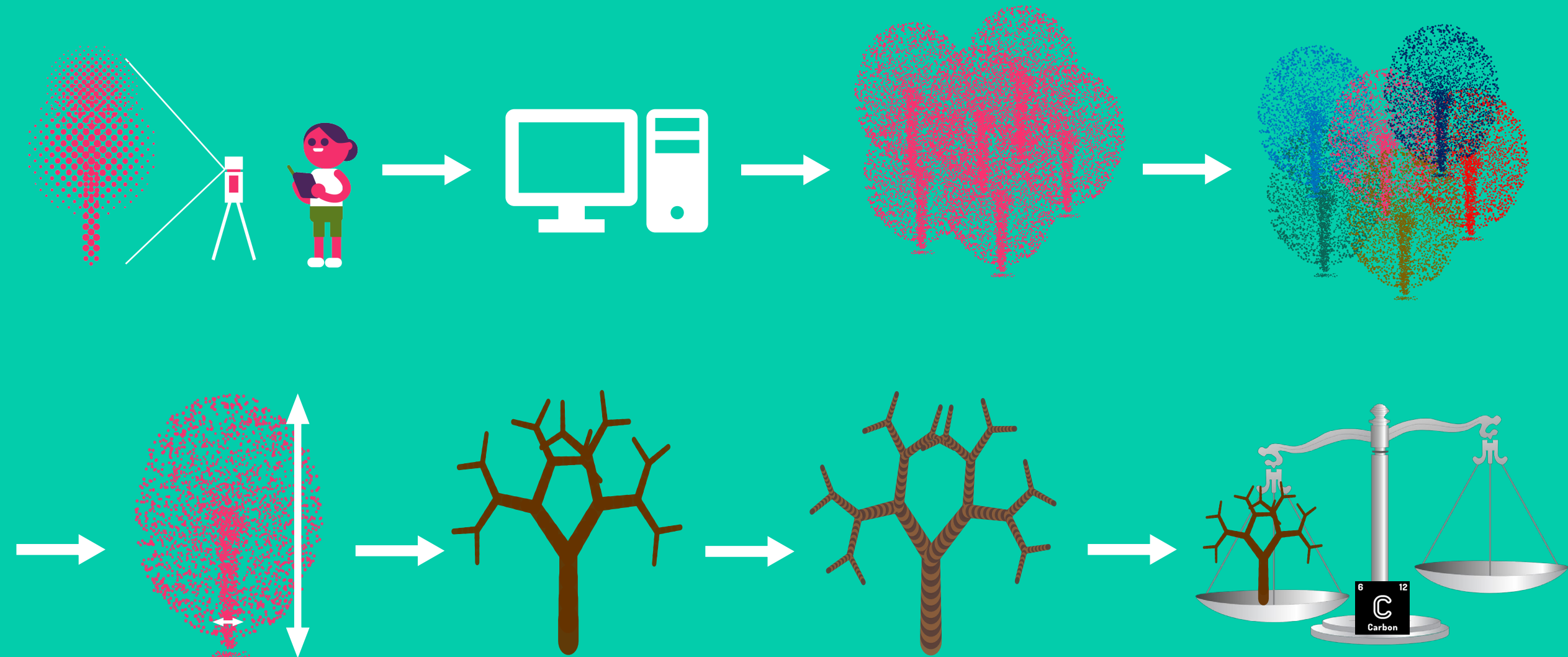
Terrestrial Laser Scanning



UAV Laser Scanning



Workflow



What's new for ICOS?

- New allometric models, based on individual tree AGB
- Temporal structural metrics
 - TLS → CP level
 - UAV-LS → Target Area level
- Stronger link between forest structure and carbon fluxes

Thanks!



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