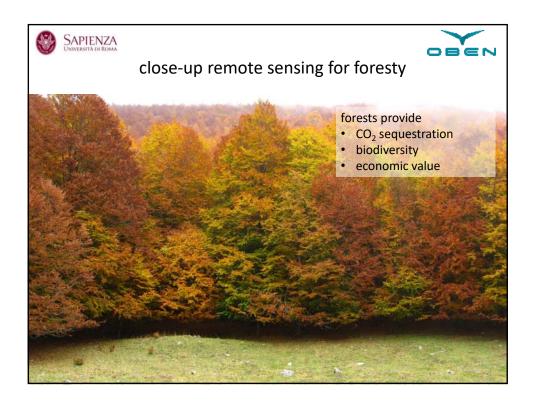


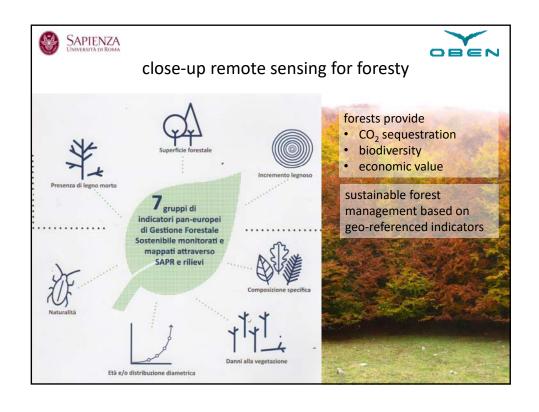


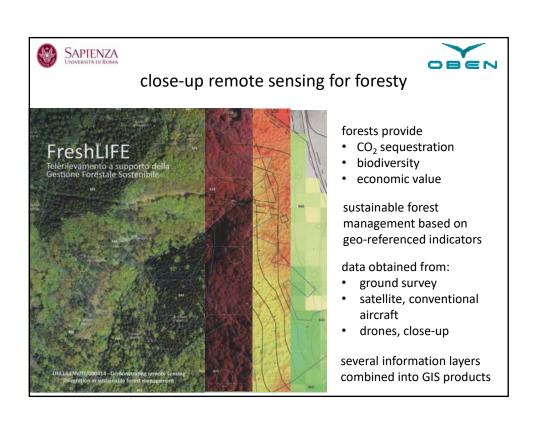
Airborne LiDAR Scanning for Forest Biomass Estimation

M. Balsi, S. Esposito, P. Fallavollita, C. Giannì DIET, "La Sapienza" University, Rome, Italy Oben srl, Sassari, Italy - www.oben.it marco.balsi@uniroma1.it

"FreshLIFE - Demonstrating Remote Sensing Integration in sustainable forest management" https://freshlifeproject.net/



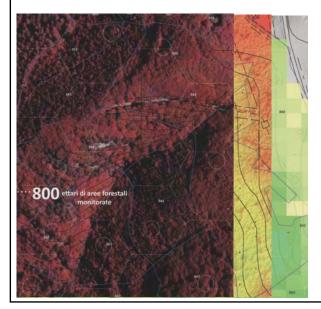








close-up remote sensing for foresty



forests provide

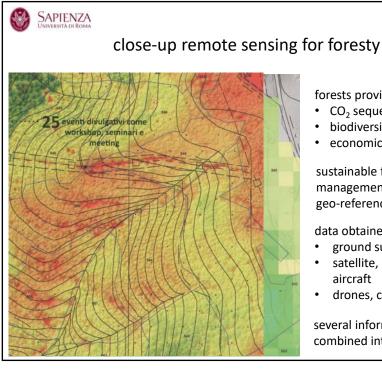
- CO₂ sequestration
- biodiversity
- economic value

sustainable forest management based on geo-referenced indicators

data obtained from:

- ground survey
- satellite, conventional aircraft
- drones, close-up

several information layers combined into GIS products





forests provide

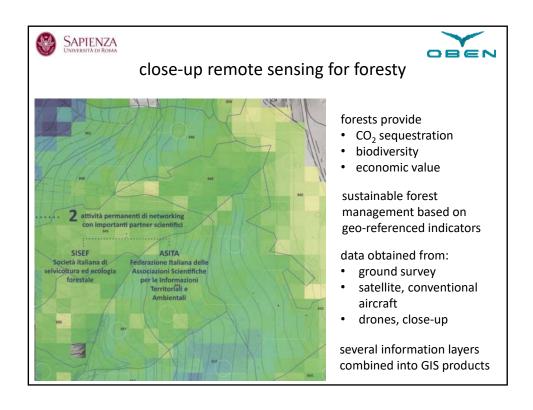
- CO₂ sequestration
- biodiversity
- economic value

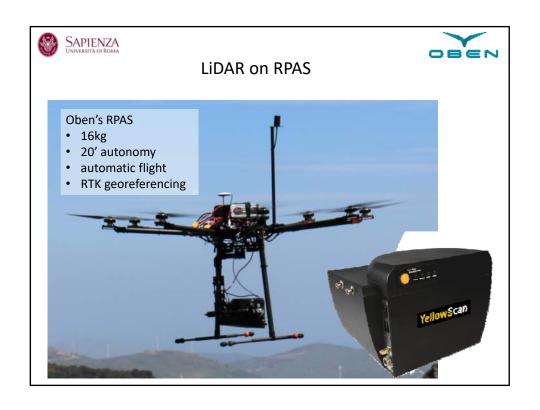
sustainable forest management based on geo-referenced indicators

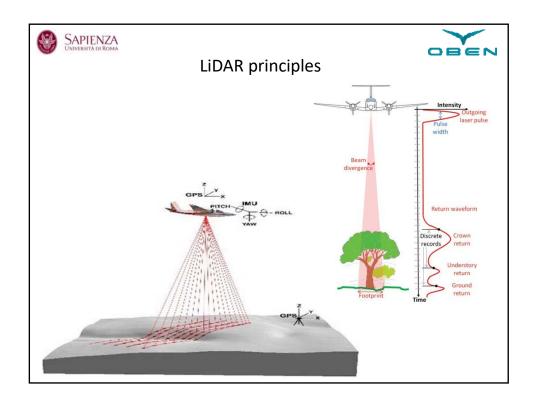
data obtained from:

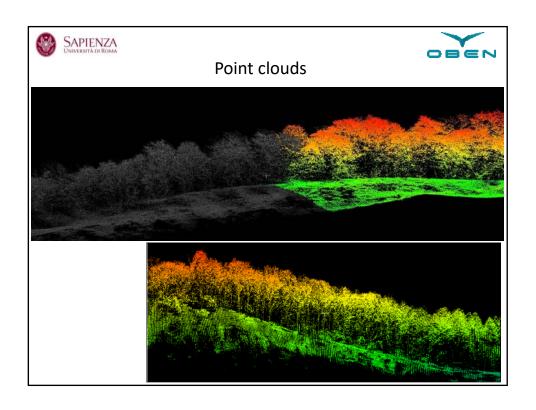
- ground survey
- satellite, conventional aircraft
- drones, close-up

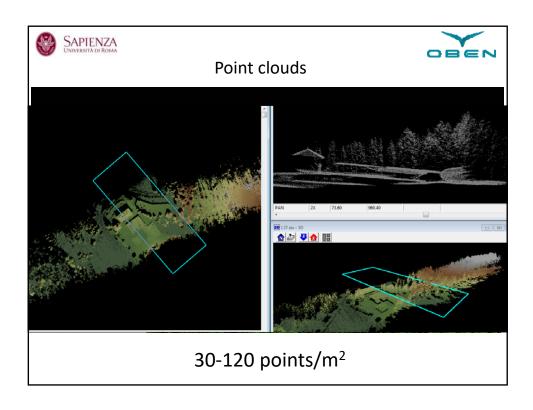
several information layers combined into GIS products

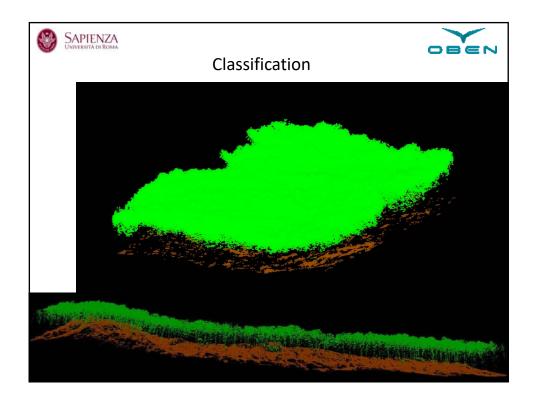


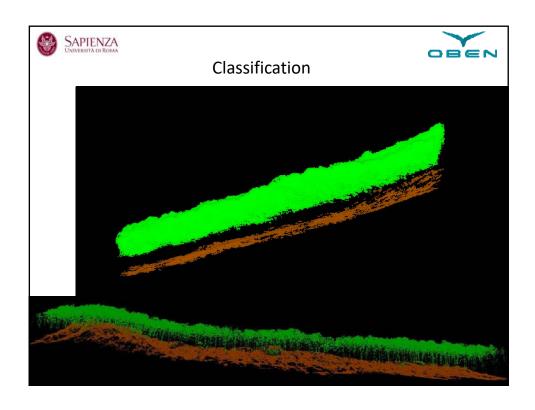


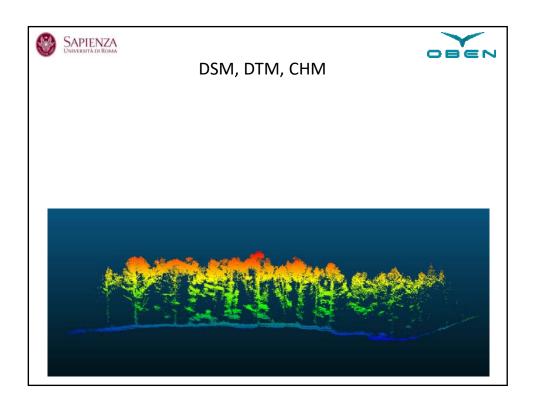


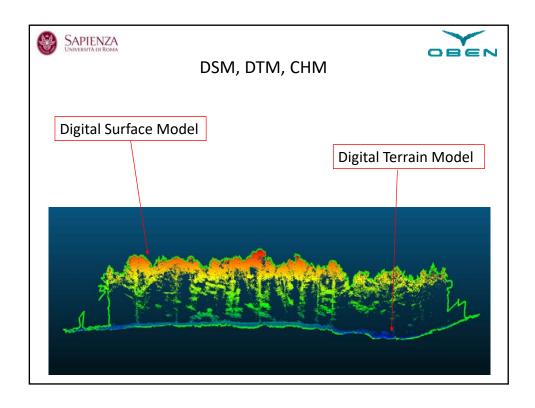


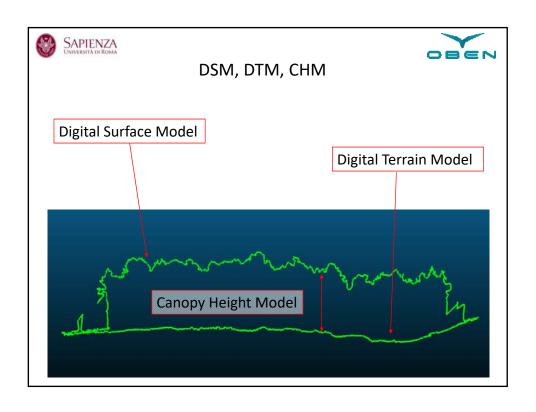




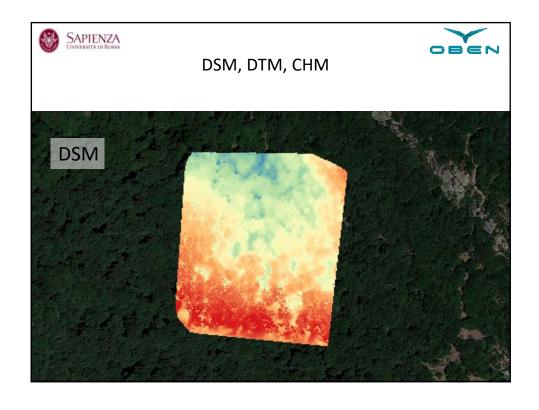


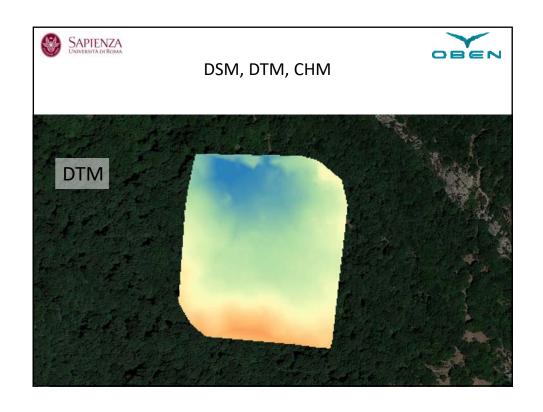


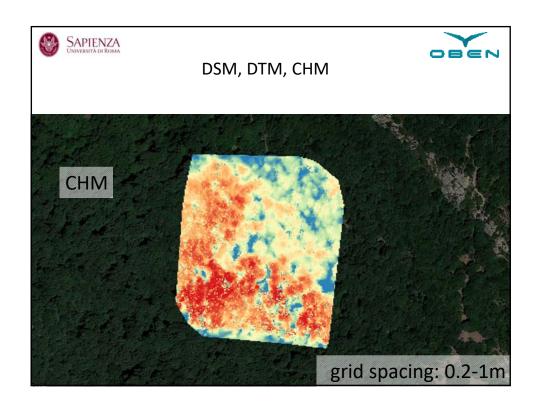


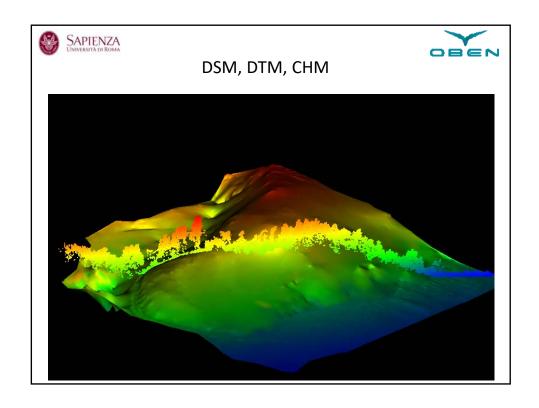


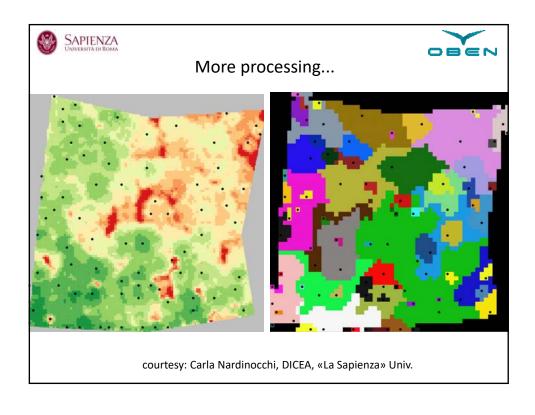


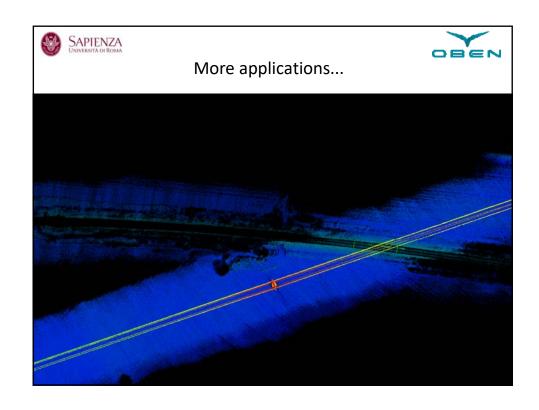


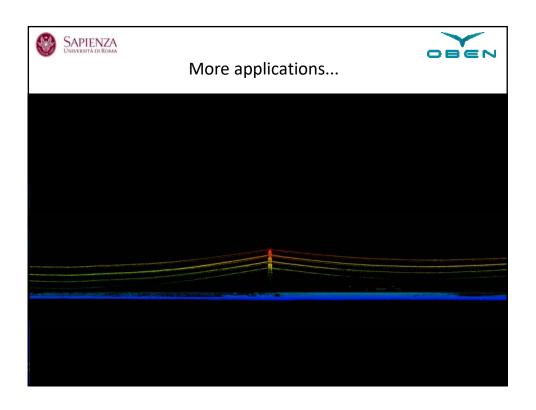


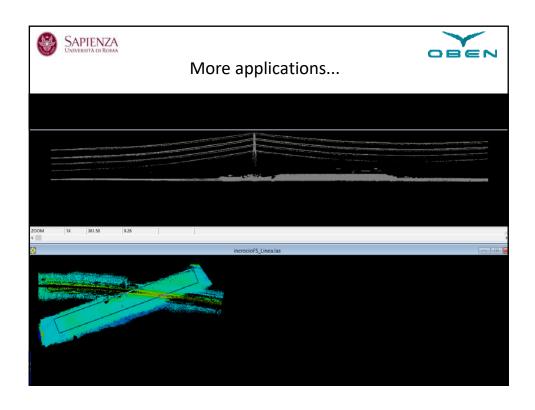


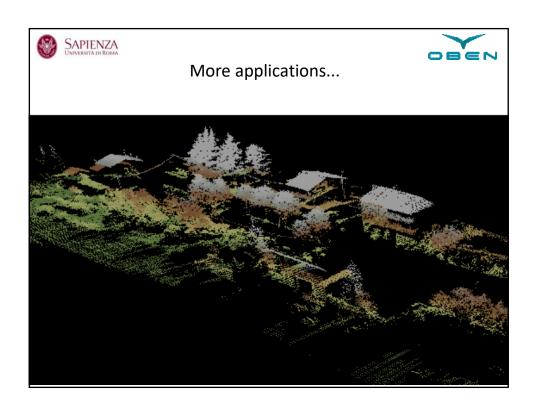


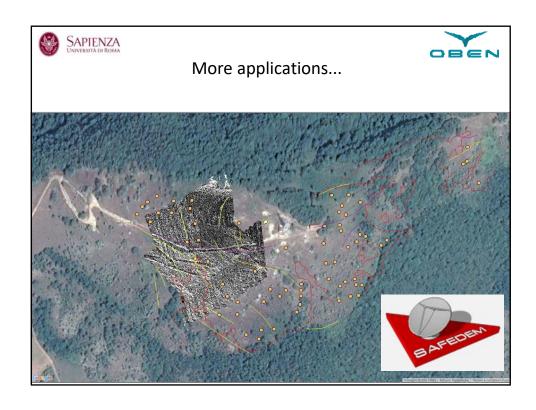


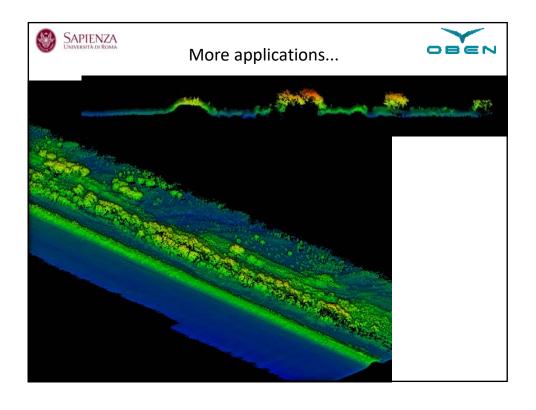
















- aerial platforms
- air traffic regulations
- IMU/AHRS
- RTK, PPK
- LiDAR vs. photogrammetry
- public research and private enterprise





Lessons learned

- aerial platforms
- air traffic regulations
- IMU/AHRS
- RTK, PPK
- LiDAR vs. photogrammetry
- public research and private enterprise











- · aerial platforms
- air traffic regulations
- IMU/AHRS
- LiDAR vs. photogrammetry
- RTK, PPK **Piloted Aircraft Systems for civilian** applications.
- public research and private enterprise



SKYOPENER - establishing new

foundations for the use of Remotely-





Lessons learned

- · aerial platforms
- · air traffic regulations
- IMU/AHRS
- RTK, PPK
- LiDAR vs. photogrammetry
- public research and private enterprise





- · aerial platforms
- air traffic regulations
- IMU/AHRS
- RTK, PPK
- LiDAR vs. photogrammetry
- public research and private enterprise

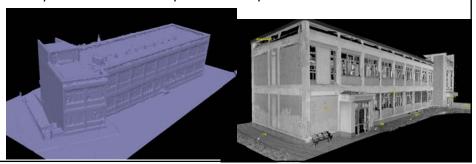
Real Time Kinematic Post Processed Kinematic





Lessons learned

- · aerial platforms
- air traffic regulations
- IMU/AHRS
- RTK, PPK
- LiDAR vs. photogrammetry
- public research and private enterprise







- aerial platforms
- · air traffic regulations
- IMU/AHRS
- RTK, PPK
- · LiDAR vs. photogrammetry
- · public research and private enterprise





Airborne LiDAR Scanning for Forest Biomass Estimation

M. Balsi, S. Esposito, P. Fallavollita, C. Giannì DIET, "La Sapienza" University, Rome, Italy Oben srl, Sassari, Italy - www.oben.it marco.balsi@uniroma1.it

"FreshLIFE - Demonstrating Remote Sensing Integration in sustainable forest management" https://freshlifeproject.net/