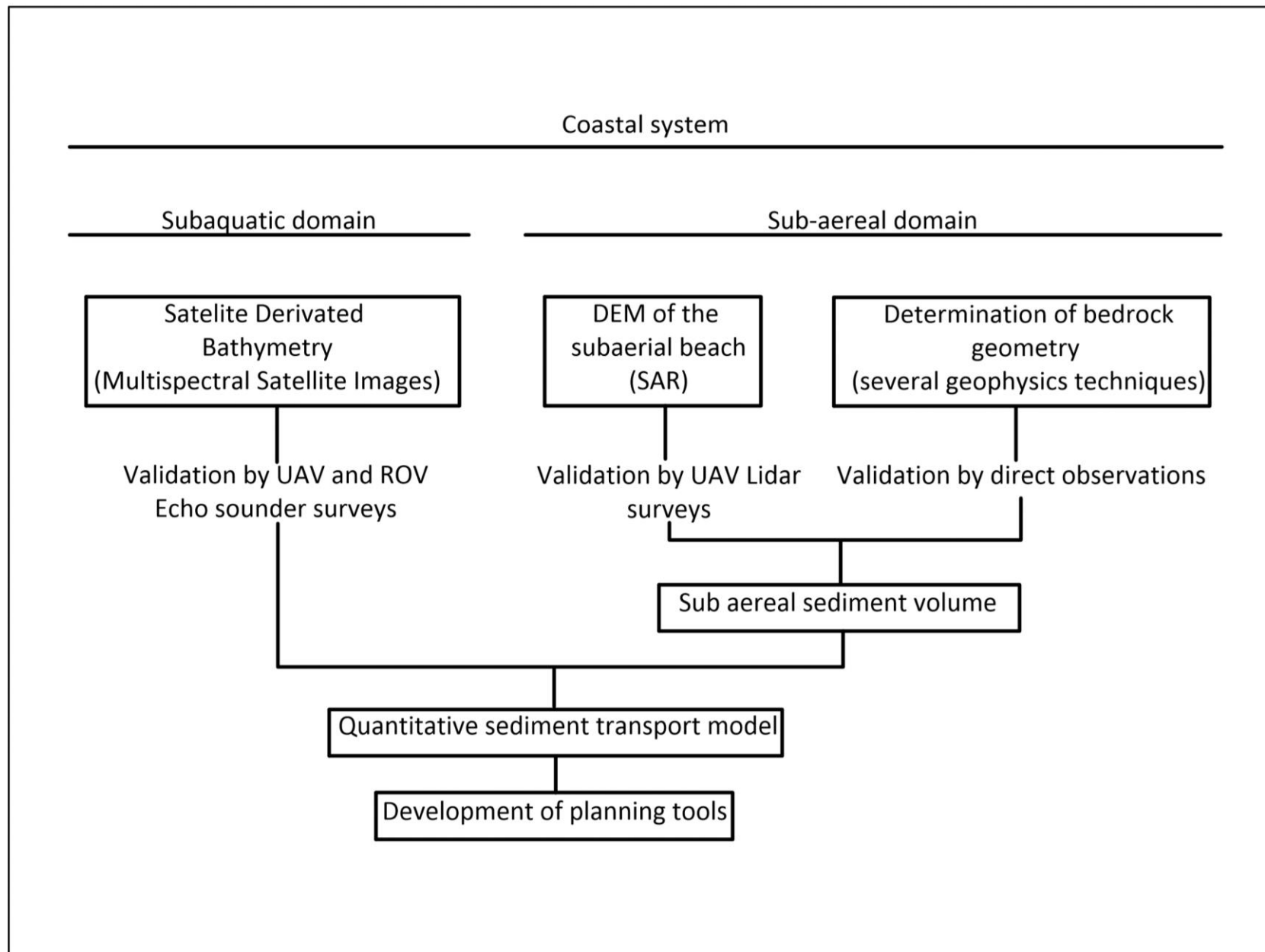


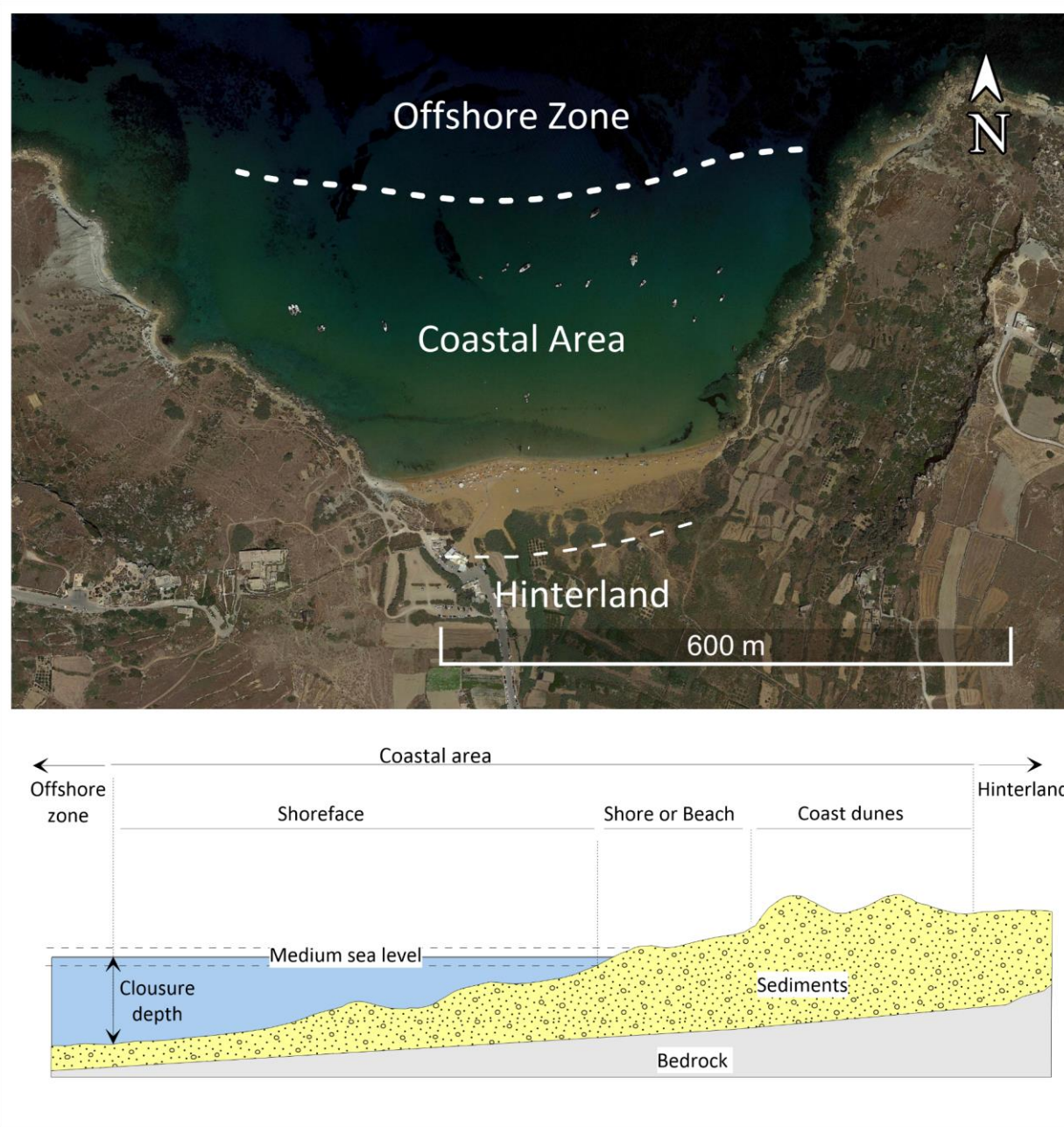
# SIPOBED

## Satellite Investigation to study POCKET BEACH DYNAMICS

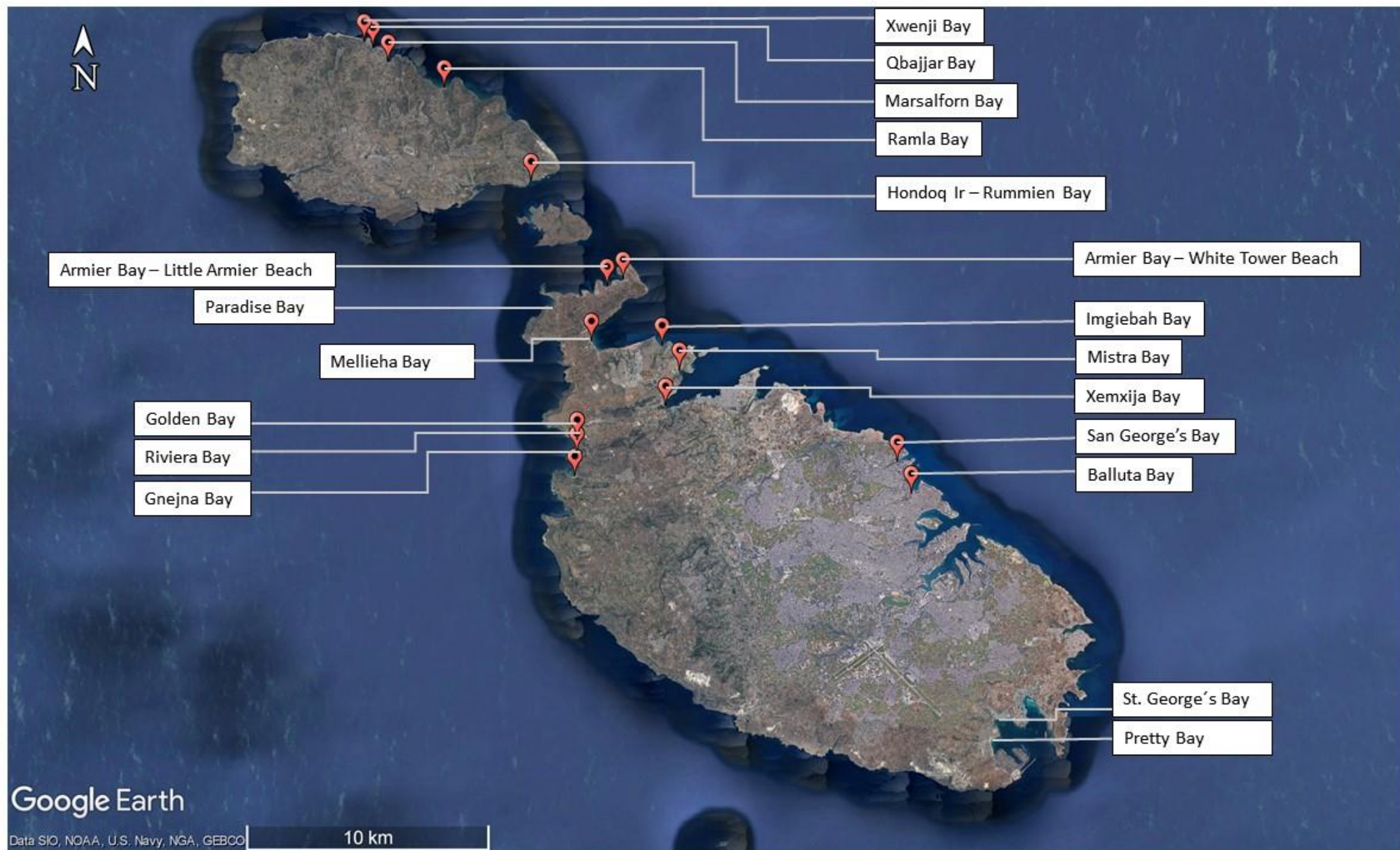
Sebastiano D'Amico (PI), Luciano Galone, Emanuele Colica,  
Gianluca Valentino, Anton Micallef

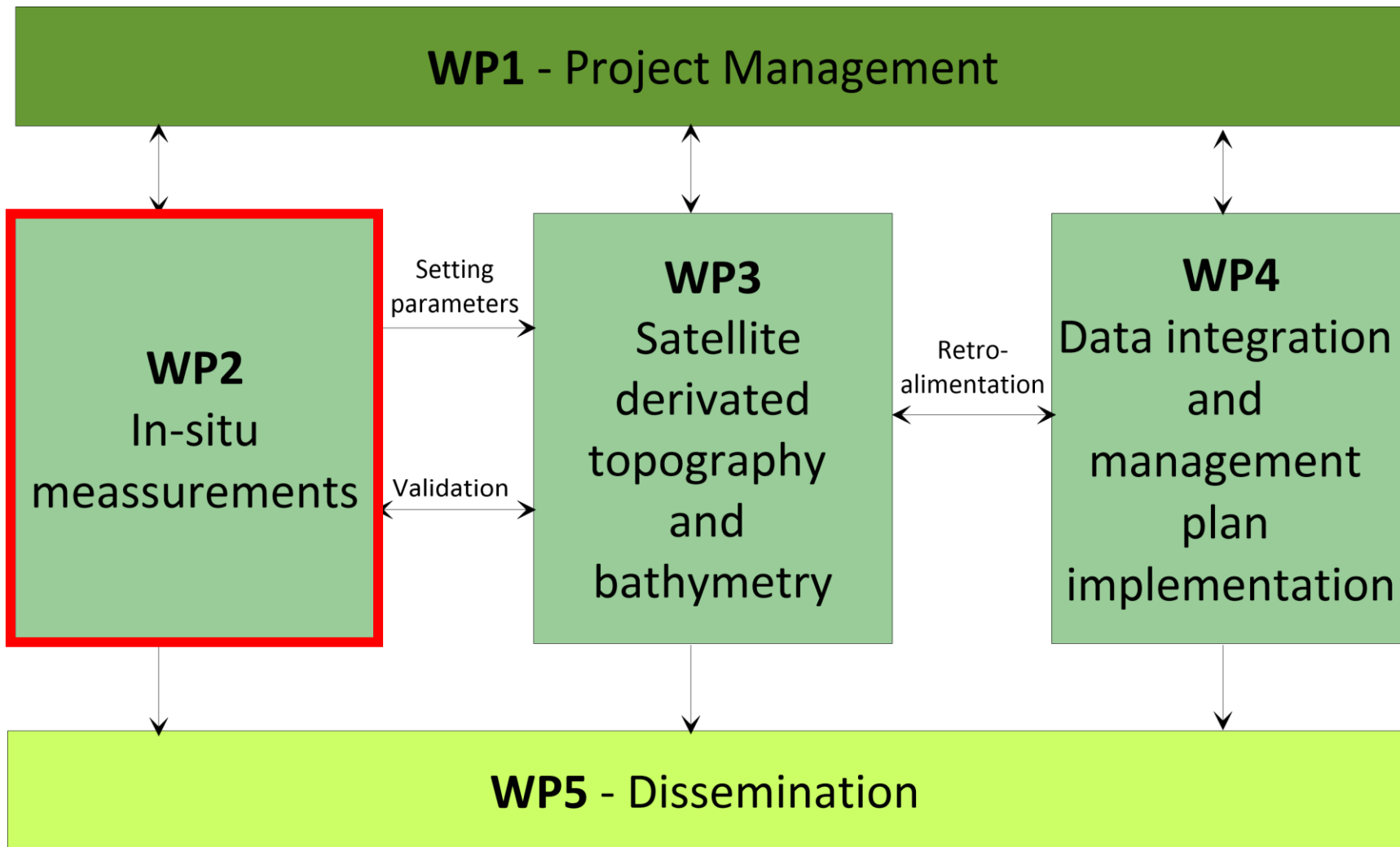


## The Pocket Beach system

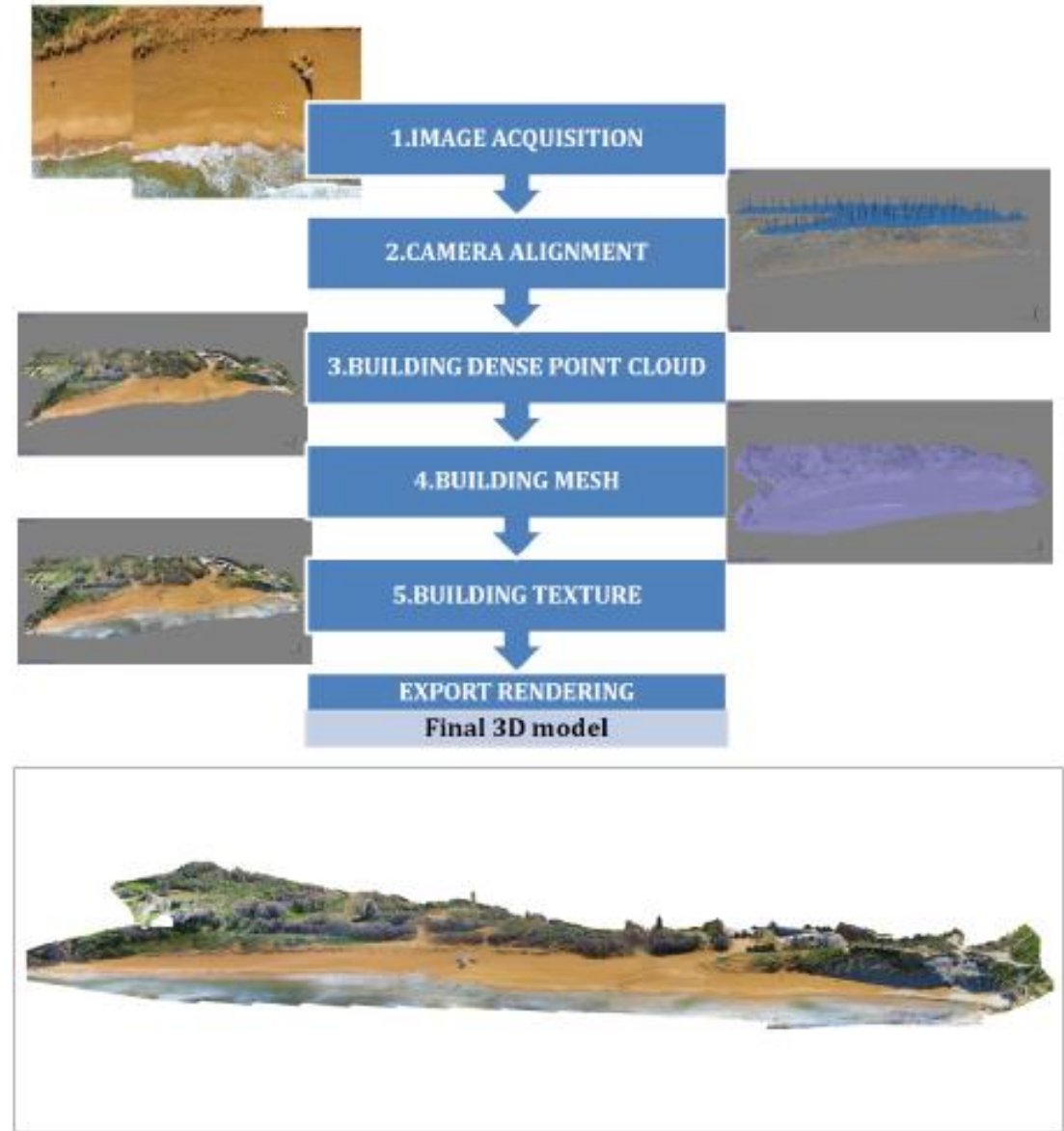
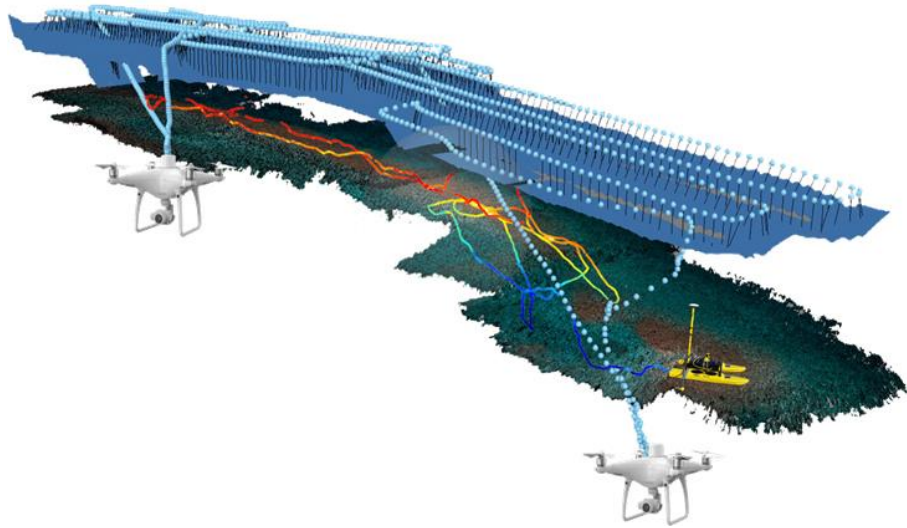






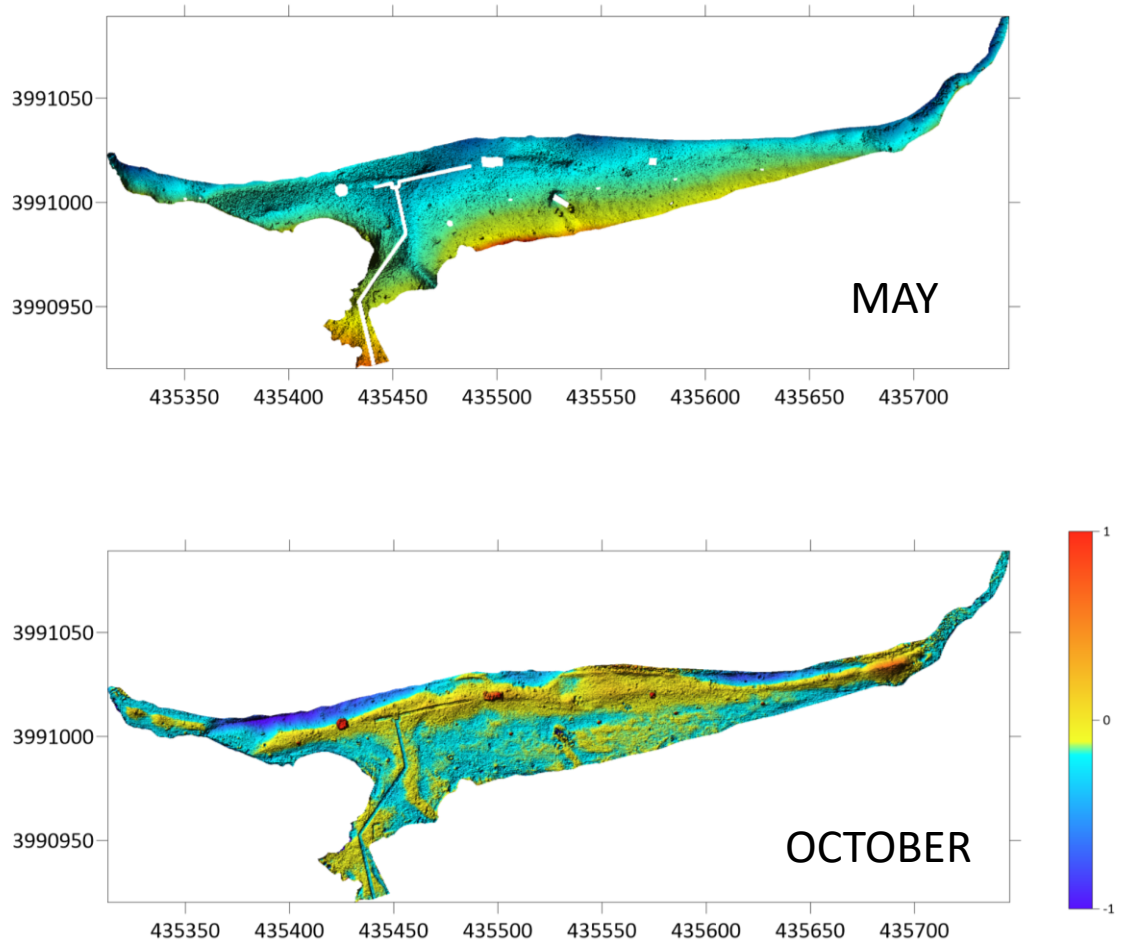
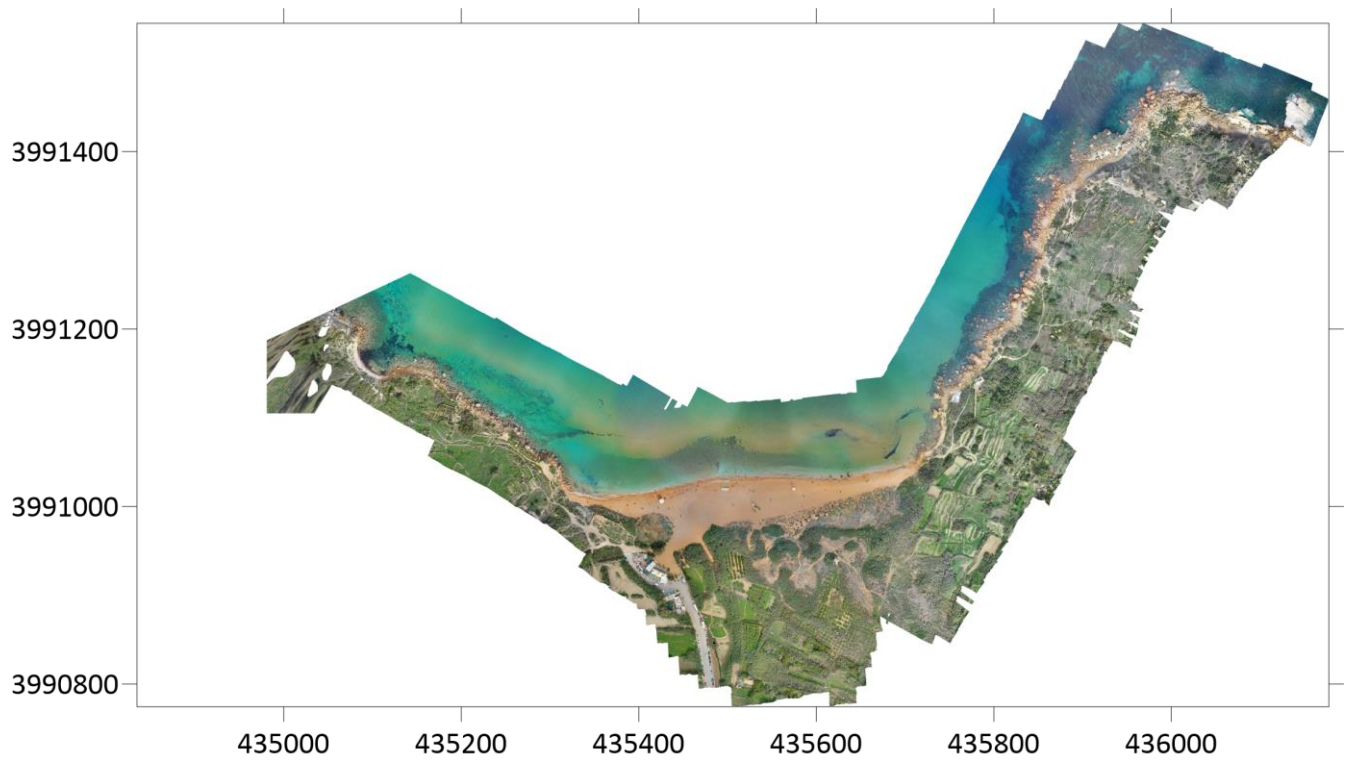


## Use of UAV Systems for Photogrammetric Applications

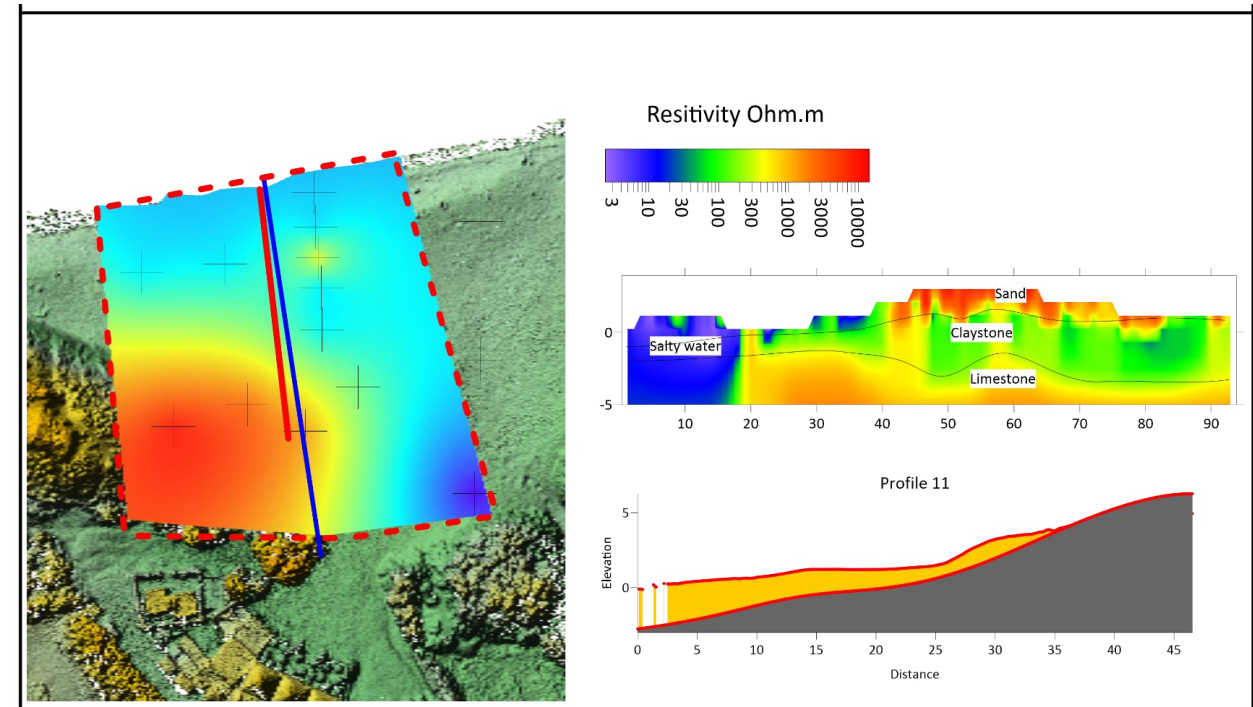
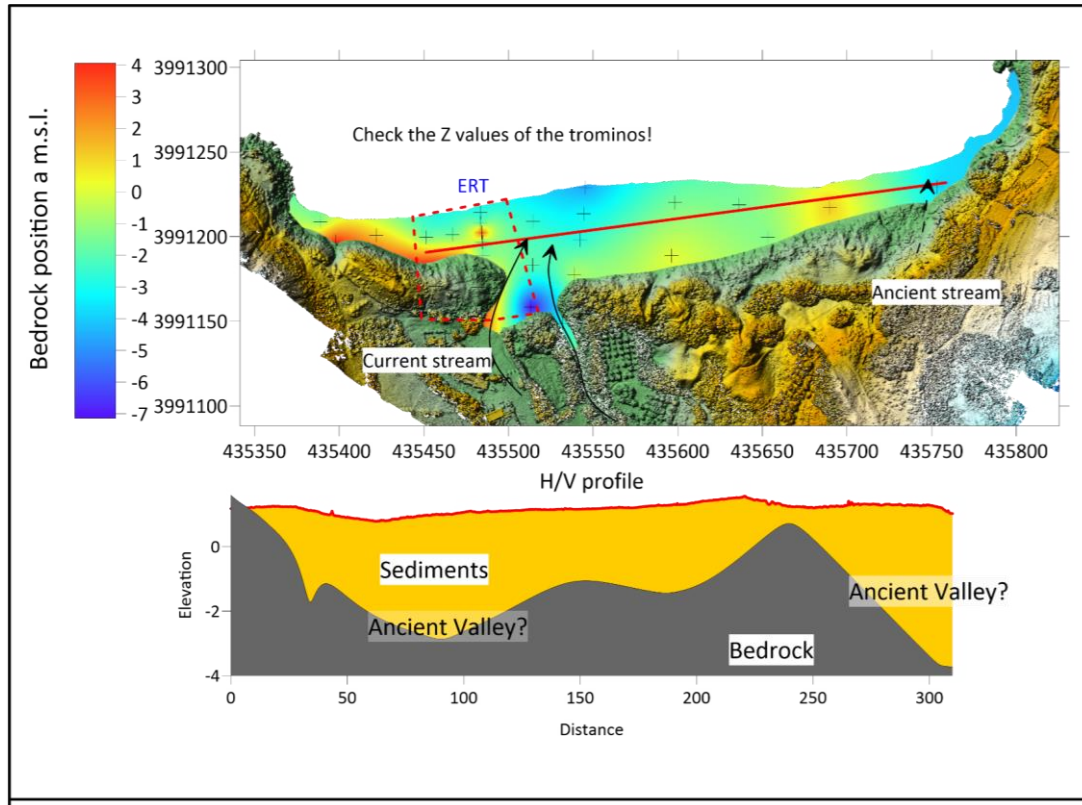




# Monitoring Sediment variaton

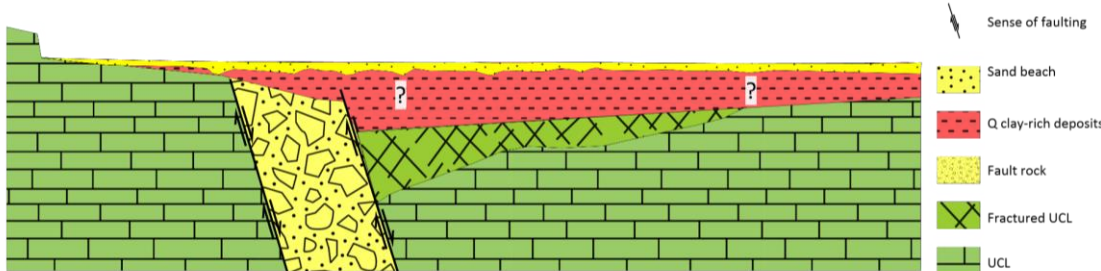
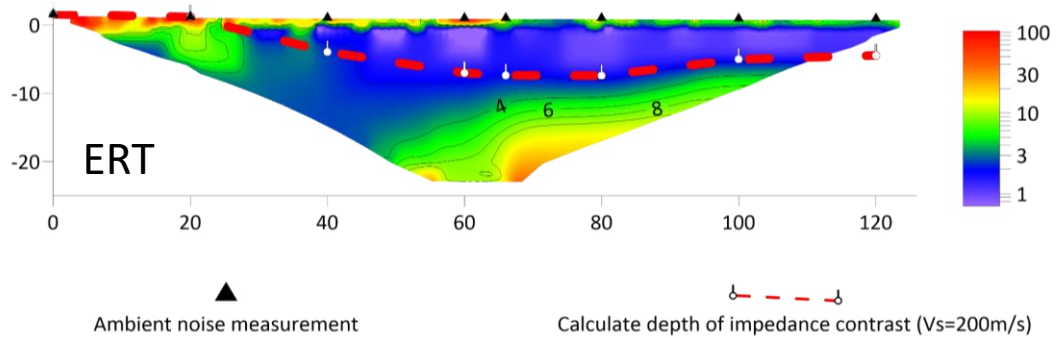
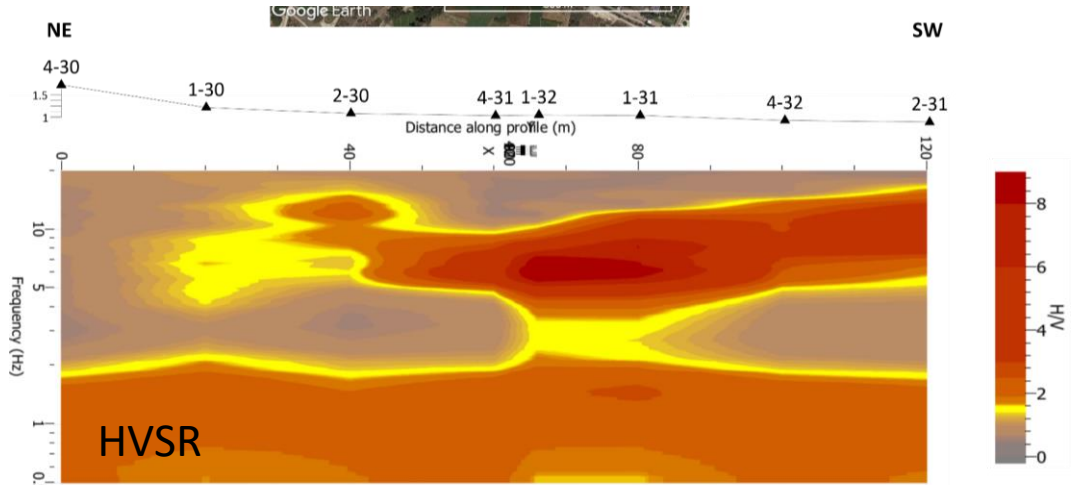
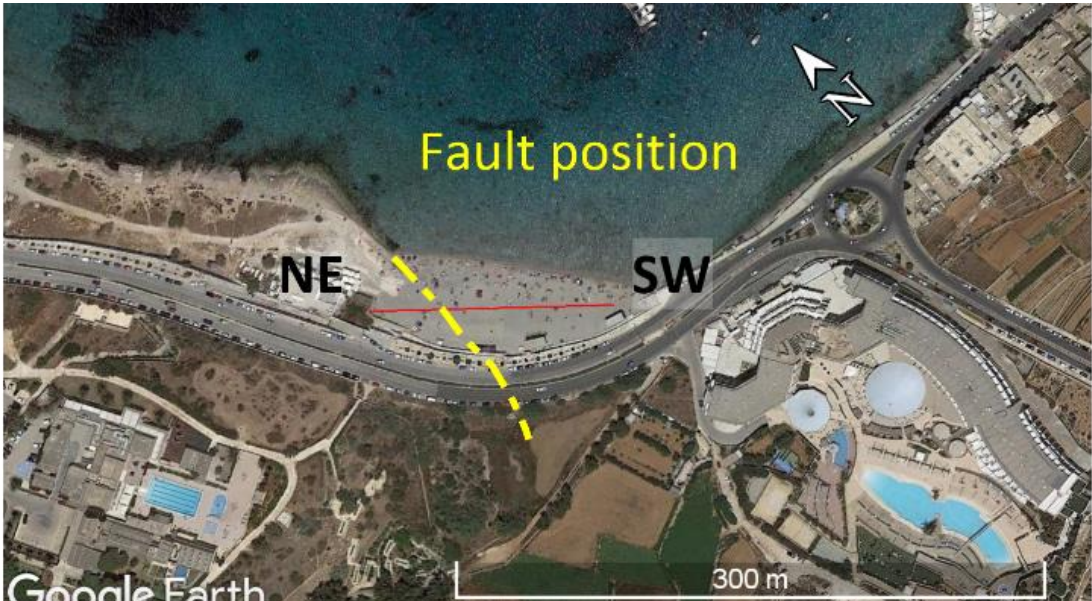
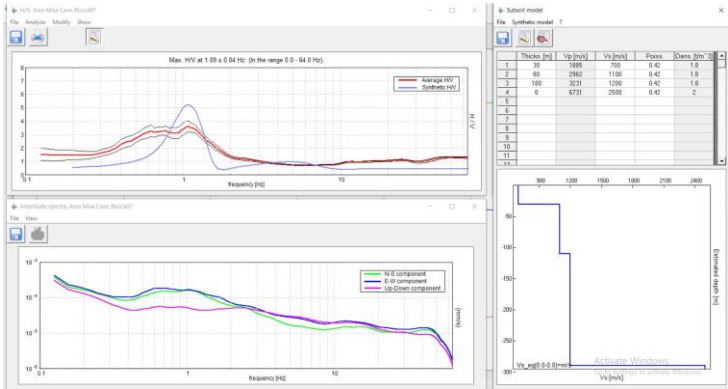


# Ramla bay: sediments – bedrock contact



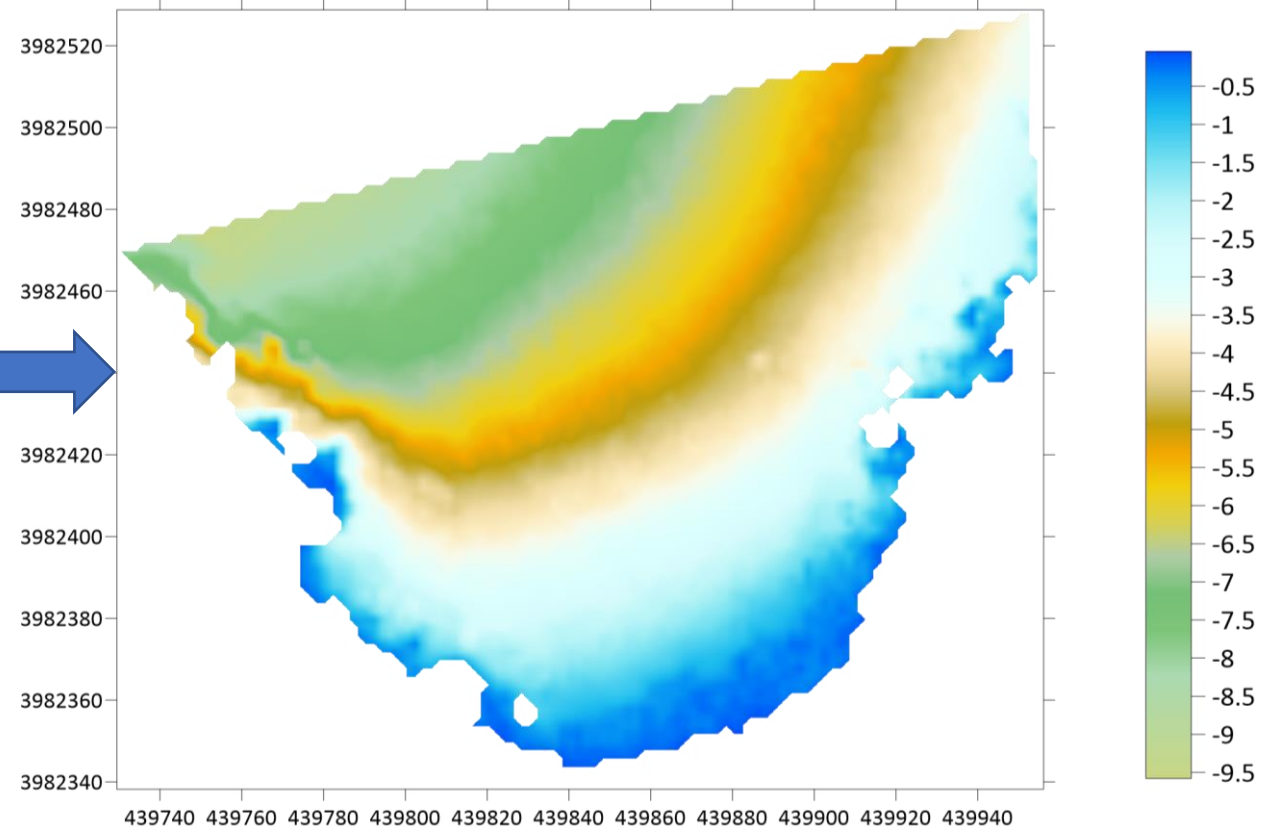
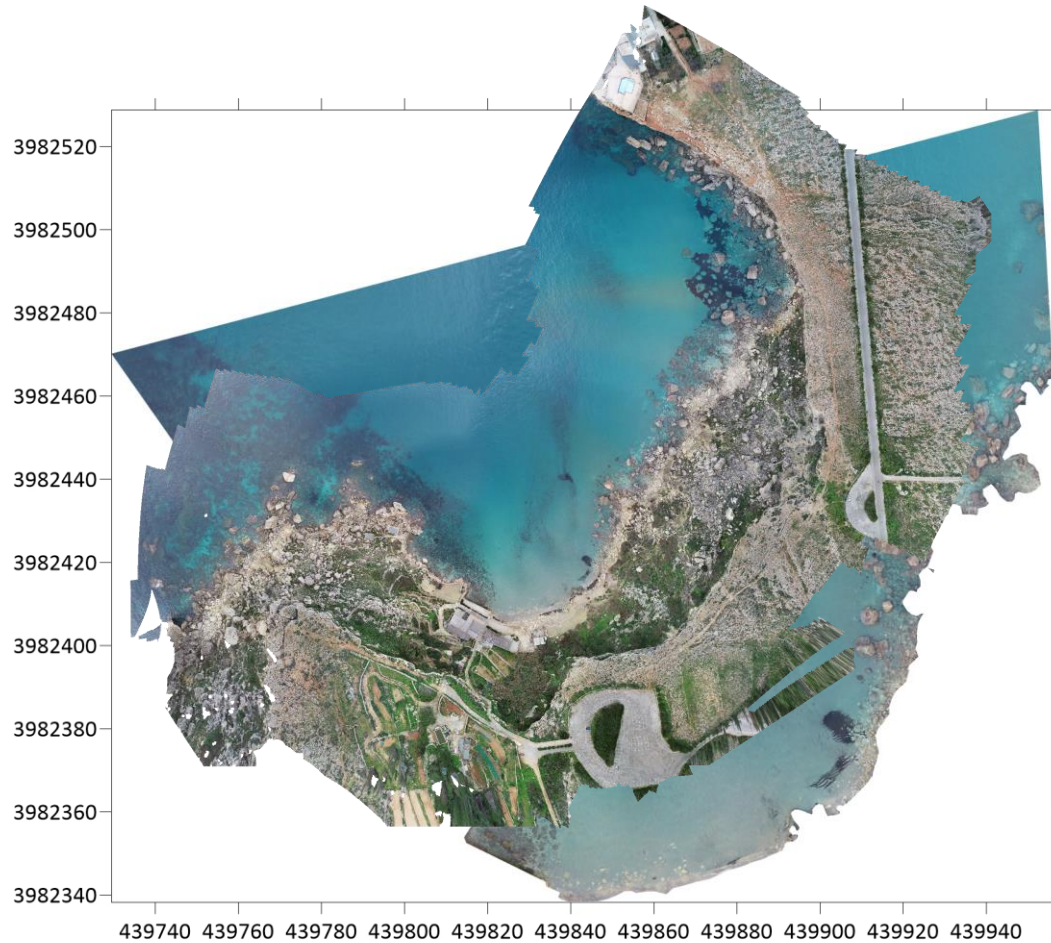


# Ghadira Bay (S beach)



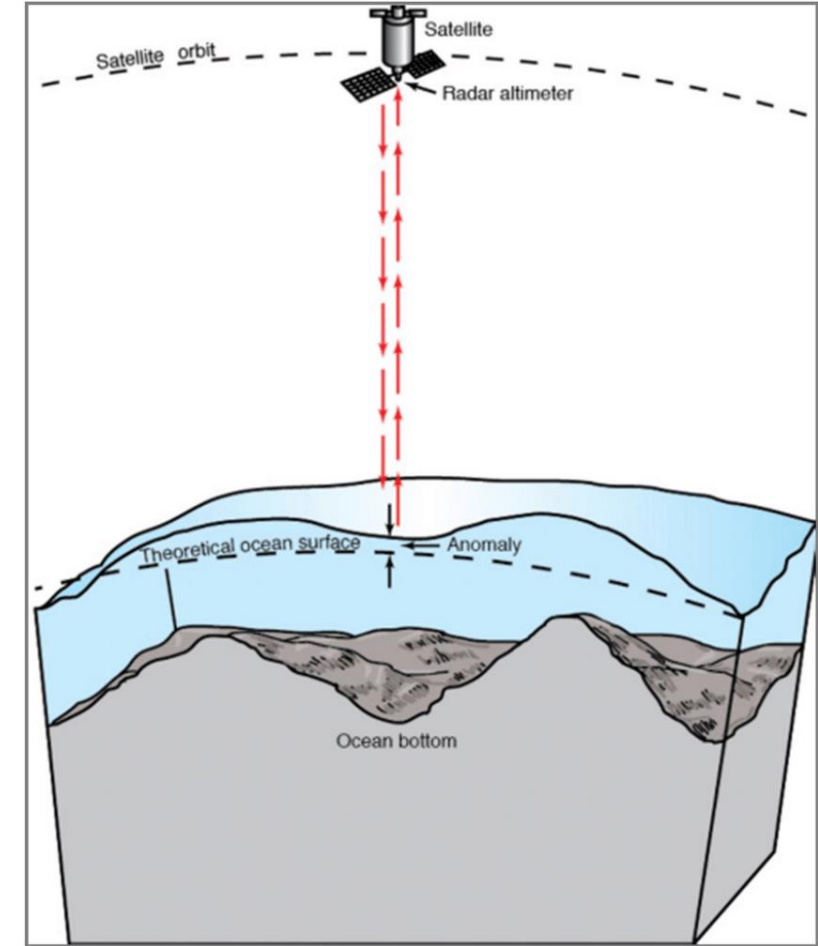
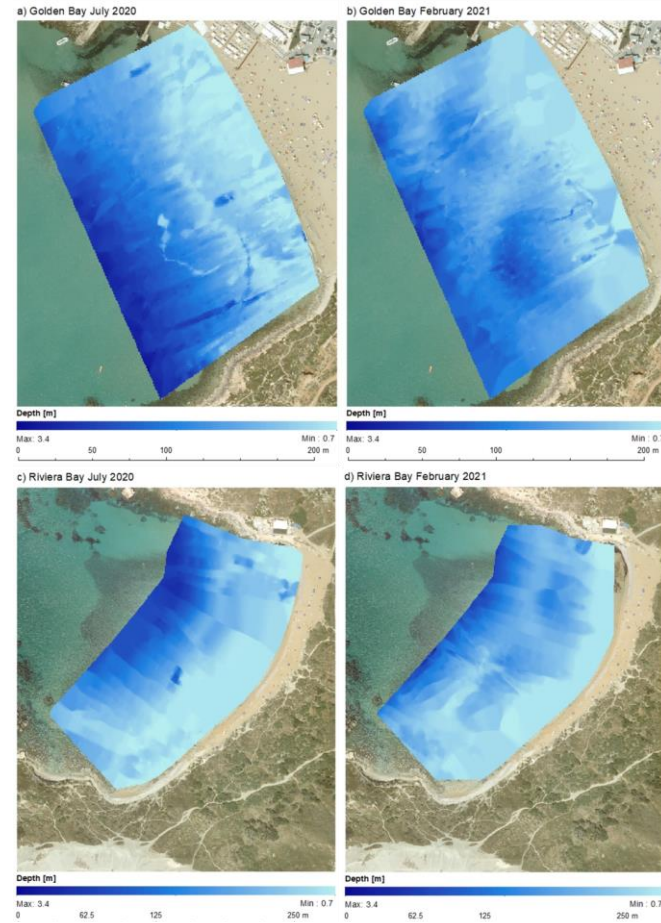
# UAV-derived bathymetry

Paradise bay





# Marine UAV





# Concluding Remarks

- The **SIPOBED** project kicked-off in October 2021 with the aim of providing the Maltese authorities with an EO data-driven solution to develop a proactive response to the problem of coastal erosion with particular reference to **Pocket Beach systems**
- Main project goals:
  - Improving the EO data processing pipeline
  - Development of a risk assessment and monitoring tool
  - Capacity building
  - Stakeholder engagement and participation
  - Preliminary Coastal Erosion Management Plan

# Acknowledgements

*Project SIPOBED is financed by the Malta Council for Science and Technology, for and on behalf of the Foundation for Science and Technology, through the Space Research Fund.*



The Malta Council for  
**Science & Technology**