

Dr. Tarek Habib, CLS

ASEAN Workshop on Space Applications, Bangkok, 18-19 Sept. 2018





CLS Group

Collecte Localisation Satellites

- Subsidiary of CNES, the French Space Agency (1986)
- Key figures:
 - 120 M€ turnover
 - 700 staff
 - Network of 27 sites in 21 countries
- Development of operational applications & services using space data for 5 strategic sectors







CLS Worldline Network







CLS key assets and technologies

GEOLOCATION AND DATA COLLECTION SYSTEMS

EARTH OBSERVATION SATELLITES

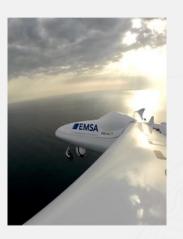
DRONES

IN-SITU MEASUREMENT NUMERICAL MODELING

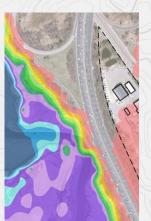
BIG DATA

















CLS involvement in Copernicus









Marine (CMEMS)



Land (CLMS)



Climate (C3S)



Emergency (EMS)



Security

CLS Group is involved in 5 out of 6 Copernicus core services



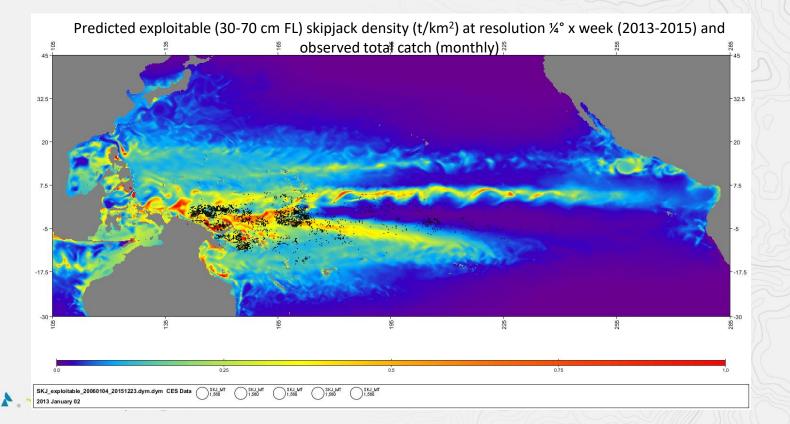


Sustainable management of fisheries Vessel Monitoring System



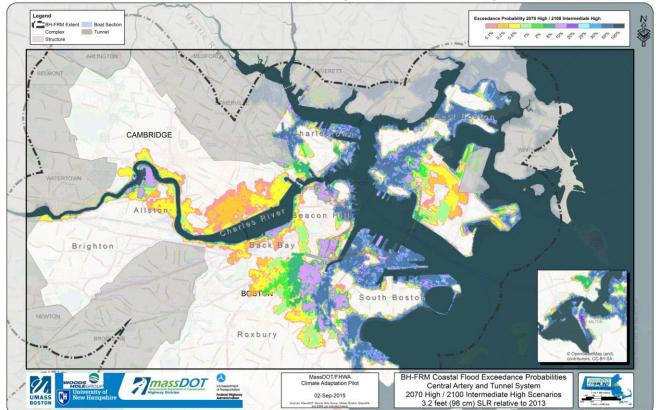


Sustainable management of fisheries Fish stock assessment





Flood risk assessment Exceedance probability

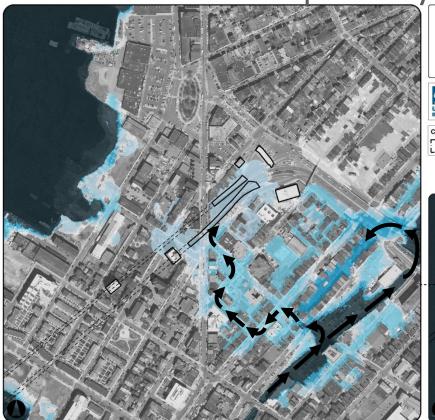






Flood risk assessment

Flood pathways



MassDOT/FHWA Climate Adaptation Pilot BH-FRM Flood Pathway Analysis

2013 Regional and Local Flood Pathways

Callahan Tunnel East Boston, MA











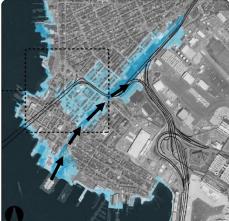




CA/T Structures



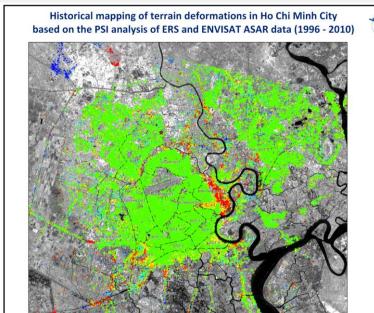
Tunnel Section

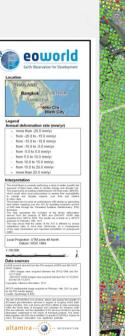




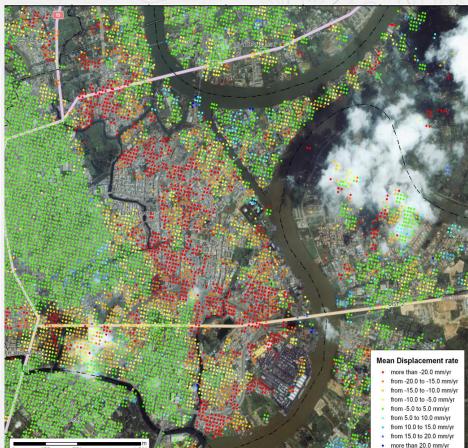


Subsidence monitoring





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Marine pollution monitoring

