

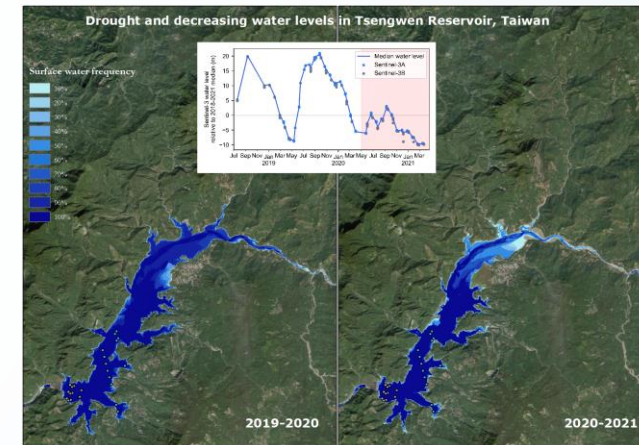
# EO services contributing to SDGs

## Mapping freshwater ecosystems

- User: National and regional authorities, water managers, NGOs
- Challenge/Needs: Assessing the amount of small- and large-scale water resources in a river basin, including discharge and recharge is crucial for water resource management, reduction of flood risks, and decision-making in water sensitive sectors. Furthermore, it is essential for efficient planning and steering of reservoir development and management.
- Initiative: Commercial product as a result of several years R&D
- Results: The freshwater mapping solution provides a number of key products to monitor the state and dynamics of freshwater ecosystems, including detailed mapping and monitoring of open water bodies, including reservoirs and lakes, and their seasonal changes; estimations of surface water volume and river discharge; and wetland mapping and characterisation.
- Service Provider: DHI GRAS

Target 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes.

Target 15.1: By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements.



Example: Coupled surface water dynamics and water levels mapping to assess the impacts of drought on water resources.

Example: Wetland monitoring in Chad

