Conservation and restoration of peatlands

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.
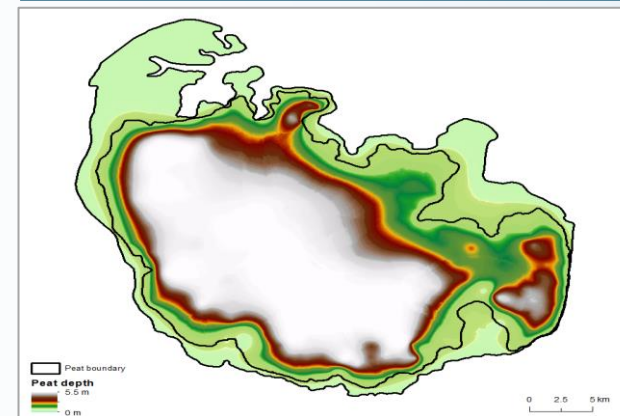
- User: Indonesian Peat Restauration Agency (BRG - Badan Restorasi Gambut)
- Challenge/Needs:
  - The location, extent and status of peatlands are often unknown.
  - Accurate peatland maps needed to support conservation and restoration efforts
  - Assess the carbon storage potential of peatlands for GHG emissions abatement plans
- Initiative: NICFI & UNOPS: Restoring Indonesian Peatlands
- Results:
  - Mapping the extent of 15 million hectares of peatland in Indonesia
  - Estimation of the peat thickness and volume & modeling fire hazard
  - Creation of an updated map of peatland extent based on peat surface topography (DTM) and current and historic multispectral satellite imagery
  - Mapping of drainage network and hydrological analysis, assessment of the number of necessary canal blocking locations for restoration
  - Impact: Data-driven decision support for large scale peatland restoration
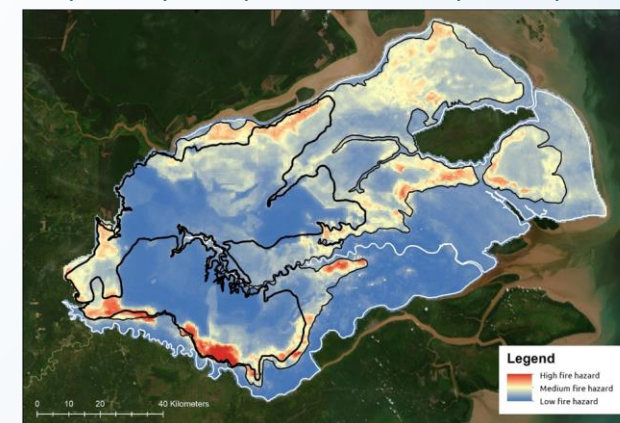- Service Provider: Remote Sensing Solutions GmbH

Map example of peat extent and peat depth

Model for Peatland fire hazard, Sumatra, Indonesia.

Peat Prize: https://www.packard.org/insights/news/indonesian-peat-prize-winner-announced-new-mapping-method-will-protect-carbon-rich-peatlands/References link

BRG Result Enabling Facility
Funded by — NICFI
Main Partner — Badan Restorasi Gambut
Enabled by — UNOPS

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