

FRIEND PILOT

FLOOD RISK & IMPACT ASSESSMENT THROUGH AUTOMATIC CHANGE DETECTION OF S1+S2 IMAGES

FLOOD RISK

SITUATIONAL AWARENESS IS A CRUCIAL NEED ACROSS USER COMMUNITIES



FRIEND provides both citizens and technical experts with an easy-to-use dashboard to identify areas affected by flooding and to explore maps, images, reports and graphs generated by the pilot.

FLOOD IMPACT HOW TO ASSESS IT?

Earth Observation data are of great support for monitoring changes in the area of interest after a flood event occurs. FRIEND provides automatic change detection to measure the impact of past flood events through correlations with meteo-climate indicators.



THE STUDY AREA CHAR-PIYA - BANGLADESH



FRIEND validates the Flood Risk & Impact assessment dashboards by monitoring the construction of the Rohingya refugee camps against the impact of the Monsoon

CLIMATE SECURITY A GLOBAL INTEREST TOPIC

Climate change is generating systematic weather changes in some regions, as well as more frequent extreme weather events across the world. The associated impacts are extremely important to support safety and security of citizens and societies. FRIEND addresses the impact of flooding by using EO data and aiming at engaging the wide EO community, including decision-makers, service providers, academia and citizens.



SUSTAINABLE DEVELOPMENT GOALS

II - SUSTAINABLE CITIES & COMMUNITIES 13 - CLIMATE ACTION



FRIEND supports the UN SDGs:
The EO information service contributes to increase the resilience of fragile areas and communities exposed to environmental disasters, as well as to raise capacity for an effective risk level assessment in least developed countries.

ALL-IN-ONE DASHBOARD ONE TOOL FOR CITIZENS AND FOR EXPERTS

The Flood Risk & Impact Assessment dashboard developed within FRIEND represents a unique point of access to retrieve both basic and advanced outcomes from the pilot.

