

Side Event of the UN Geospatial Network at the Eleventh Session of UN-GGIM

Disaster Management and Capacity Development in countries



SATELLITE IMAGE ANALYSIS
DURING HUMANITARIAN
EMERGENCIES



SERVICE OVERVIEW

Operational since 2003, the UNOSAT Rapid Mapping service offers a 24/7 year round availability to process requests from humanitarian actors and to deliver satellite imagery derived analysis, maps, reports and data ready to use data following major sudden onset disaster events and conflict situations. Typical situations for which UNOSAT Rapid Mapping is activated include floods, earthquakes, storms, landslides, volcanoes, oil spills, chemical waste, refugee and internally displaced person camp mapping, conflict damage assessment and situation analysis. UNOSAT benefits from a variety of sources for its satellite imagery: free and open source, commercial vendors, International Charter Space and Major Disasters (natural and technological disasters only) and in-kind donations.





HOW WE SUPPORT DURING HUMANITARIAN EMERGENCIES

Wide and timely distribution of rapid mapping products to support evidence based operational planning and decision making of humanitarian actors in the field and at headquarter level.

Broad and rapid coverage of areas of interest using satellite images collected through different acquisition mechanisms including the activation of the International Charter Space and Major Disasters.

24/7 on-call service for UN member states, UN agencies, Red Cross and Red Crescent Movement (ICRC and IFRC), international and regional organizations and humanitarian non-governmental organizations.

Rapid satellite derived analysis and assessment in support of emergency response operations.





PRODUCTS



SATELLITE ANALYSIS



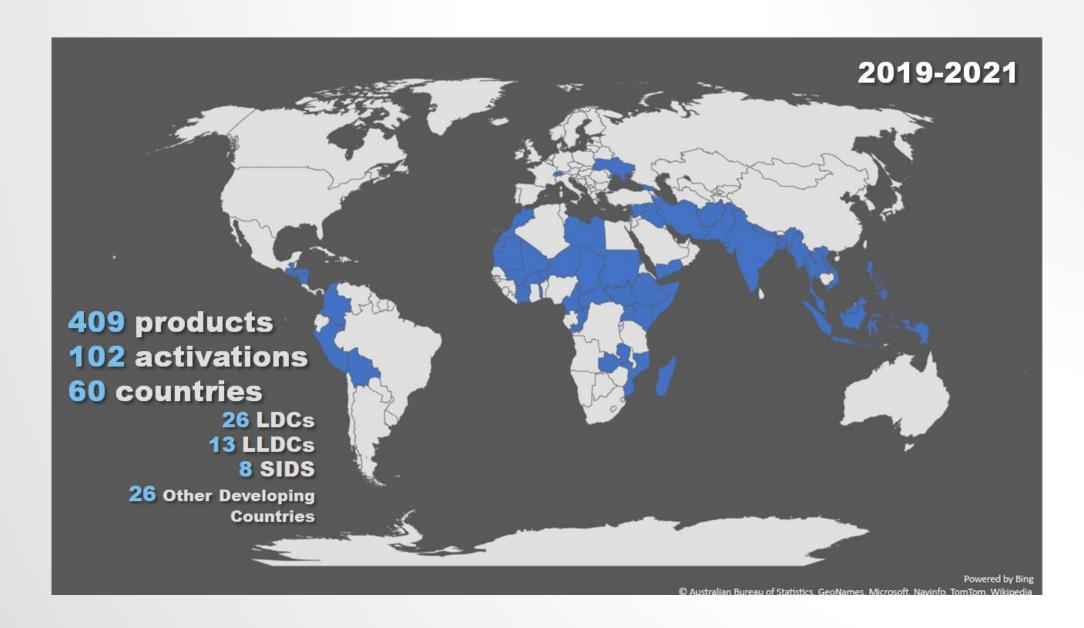
REPORTS & DATA



WEB MAP

03



















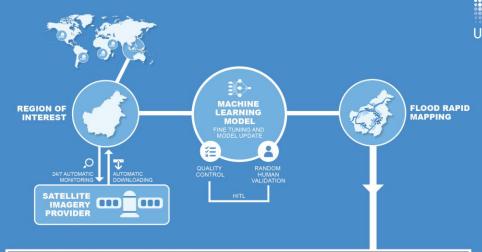


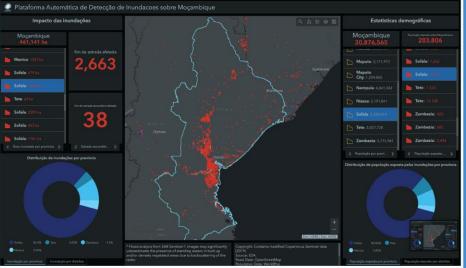


Automated Flood Mapping

By using Artificial Intelligence (AI), satellite completed in considerably less time and the process is almost fully automated. This not help optimize the disaster response, it also of life and mitigate structural damage,

Pulse, trained machines extensively to Government and other national stakeholders with near real time satellite-derived analysis







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HIGH QUALITY TRAININGS AND SKILLS DEVELOPMENT IN THE APPLICATION OF GEO-INFORMATION TECHNOLOGIES AND EARTH OBSERVATION



Since 2010: 161 events 5402 people trained

SERVICE OVERVIEW

Our team has more than a decade of remarkable practical experience in the design, development and delivery of innovative and tailor-made geospatial services and learning solutions for UN member states, UN agencies, international organizations and academia.

By leveraging science and innovative technologies such as Earth observation, artificial intelligence, machine learning and big data analytics, countries will have better tools and solutions to inform policies, planning and decision making. It is therefore very important to build technical capacities and to establish robust, evidence based and predictable mechanisms to access datasets and open data platforms which will enable least developed countries.



ONLINE COURSES

Browse our catalogue of courses or contact us at unosat@unitar.org for more information.
https://www.unitar.org/event/full-catalog?programme=51

HOW WE BUILD CAPACITY

Expertise in designing and delivery of innovative learning solutions to equip training beneficiaries with technical skills in the use of geospatial information technology relevant to different application domains including the know-how of using scientific information and spatial datasets into decision support products.

Robust quality assurance framework: all learning-related events are assessed against a set of over a dozen standards prior to delivery in accordance with the Institute's Quality Assurance Framework certification process.

Implementation of in-country capacity development programmes to enhance capacity of governments and national or regional stakeholders through ad-hoc technical training and awareness raising events including technical backstopping.

Implementation of geospatial solutions for improved DRR and climate change resilience such as early warning systems, spatial decision support platforms, multi hazard risk assessment tools, etc.



ARENESS

ONLINE WEBINARS



IN PERSOI









"NDMO applied the new skills learned from the CommonSensing Advanced GIT Training during TC Yasa to take the lead role in emergency responses. We leveraged skills and knowledge about damage assessments, visual interpretation, as well as the use of demographic data for assessing affected communities by provinces and districts. A live dashboard showing the results of multiple assessments was developed by the training participant from the Bureau of Statistics with the help of CS country officer, and it was displayed in the National Emergency Operations Centre in Suva."

> Senior Geospatial Officer from Fiji NDMO





Contacts

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