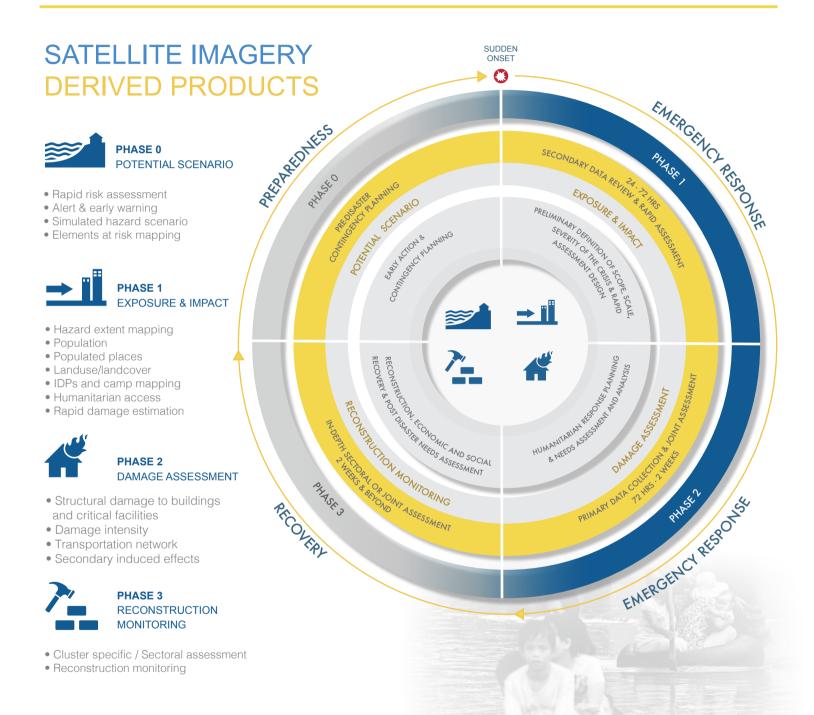
# UNOSAT GEOSPATIAL CATALOGUE TO SUPPORT HUMANITARIAN OPERATIONS



Integrated in the Humanitarian Programme Cycle, UNOSAT Geospatial Catalogue offers a predictable mechanism and provides a full range of products to supply the humanitarian community with timely and reliable information, based on satellite imagery analysis, needed during humanitarian operations.



## HOW TO ACTIVATE RAPID MAPPING SERVICE

#### **SEND A REQUEST**

What type of disaster? What is the geographic area?

emergencymapping@unosat.org 24/7 Phone Line +41 75 411 4998

#### **GET FEEDBACK**

We will assess your request and get back to you with a plan for product delivery within the next few hours

### **PRODUCTION & FOLLOW UP**

We start the analysis and notify you about product delivery







**DELIVERY** 

LIVE MAPS REPORTS





UNOSAT uses publicly available satellite imagery from commercial vendors, in-kind contributions, free and open sources and is a partner of the International Charter Space and Major Disasters.

# PRODUCTS AND SERVICES: RAPID ONSET NATURAL DISASTERS





- EARTHQUAKE



FLOOD



LANDSLIDE





VOLCANO

#### **PREPAREDNESS**

#### **PRE-DISASTER • CONTINGENCY PLANNING**

#### **POTENTIAL SCENARIO**

Early Action & Contingency Planning

Snapshot



PHASE

PHASE

Rapid flood risk assessment

- Alert & early warning
- Simulated flood extent
- ☐ Archive detected flood extents



- □ Landslide susceptibility□ Landslide inventory mapping
- ☐ Elements at risk mapping
- 5
- ☐ Forecast cyclone track and sustained wind speed zones
- ☐ Precipitation analysis
- ☐ Potentially affected population estimates

#### **EMERGENCY RESPONSE**

#### 24 - 72 HOURS • SECONDARY DATA REVIEW & RAPID ASSESSMENT

#### **EXPOSURE & IMPACT**

Preliminary definition of Scope, Scale, Severity of the Crisis and Rapid Assessment Design

Sitrep, Situation Analysis, Flash Update



☐ Precipitation analysis

- ☐ Flood extent mapping
   ☐ Estimated affected population, populated places, landcover/landuse and critical facilities
- ☐ Humanitarian access (physical access to affected areas)
- ☐ Temporary gathering sites & IDPs camp mapping
- ☐ Estimated affected population, populated places, landcover/landuse and critical facilities
  ☐ Flood extent mapping
- ☐ Flood extent mapping
- ☐ Rapid damage assessment (built-up areas, critical facilities and buildings)
- ☐ Humanitarian access (physical access to affected areas)
- ☐ Temporary gathering sites & IDPs camp mapping
- ☐ Estimated affected population, populated places, landcover/landuse and critical facilities
- ☐ Rapid damage assessment (built-up areas, critical facilities and buildings)
  - ☐ Humanitarian access (physical access to affected areas)
  - ☐ Temporary gathering sites & IDPs camp mapping
- 62.
- □ Landslide extent mapping
  □ Estimated affected population, populated places,
- landcover/landuse and critical facilities

  ☐ Rapid damage assessment (built-up areas,
- critical facilities and buildings)
- $\hfill \square$  Humanitarian access (physical access to affected areas)
- $\hfill\square$  Temporary gathering sites & IDPs camp mapping



□ Lava flow extent mapping

- ☐ Estimated affected population, populated places, landcover/landuse and critical facilities
- ☐ Rapid damage assessment (built-up areas, critical facilities and buildings)
- ☐ Humanitarian access (physical access to affected areas)
- ☐ Temporary gathering sites & IDPs camp mapping

#### 72 HOURS - 2 WEEKS • PRIMARY DATA COLLECTION & JOINT ASSESSMENT

#### DAMAGE ASSESSMENT

Humanitarian Response Planning and Needs Assessment and Analysis

□ Landslide volume estimation□ Landslide event monitoring

Flash Appeal, Central Emergency Response Fund (CERF), Multi-sector Initial Rapid Assessment (MIRA) Report

PHASE 2

PHASE 3

- ☐ Flood event monitoring
- ☐ Cumulative flood extent
- ☐ Comprehensive building damage assessment (mudflow)
- ☐ Transportation network status & road obstacles (mudflow)



☐ Transportation network status & road obstacles

☐ Comprehensive building damage assessment

- ☐ Comprehensive building damage assessment☐ Volcano event / lava flow monitoring
- ☐ Transportation network status & road obstacles

-₩-

- $\hfill \square$  Comprehensive building damage assessment
- □ Building damage intensity□ Damage and loss estimation
- ☐ Transportation network status & road obstacles
- 9
- ☐ Comprehensive building damage assessment
- ☐ Building damage intensity
- ☐ Transportation network status & road obstacles

NOTE: Continued products (24-72 hrs) and secondary effects induced by primary crisis events are also provided

#### **RECOVERY**

#### 2 WEEKS & BEYOND • IN-DEPTH SECTORAL OR JOINT ASSESSMENTS

#### RECONSTRUCTION MONITORING

Reconstruction, Economic and Social Recovery, and Post-Disaster Needs Assessment

Humanitarian Needs Overview (HNO), Dashboard

- ☐ Cluster specific / Sectoral assessment (Transport, Buildings / Shelter, Transitional Shelters and IDPs, Services, Environment, Livelihoods)☐ Reconstruction monitoring
  - NOTE: Other products may be produced on request UNOSAT is flexible and seeks to maximize impact from our analyses.