

# The Mohammed Bin Rashid Space Centre's contribution to Sentinel Asia

Sentinel Asia's Joint Project Team Meeting (JPTM2023)

17-18 September 2023

Jakarta, Indonesia

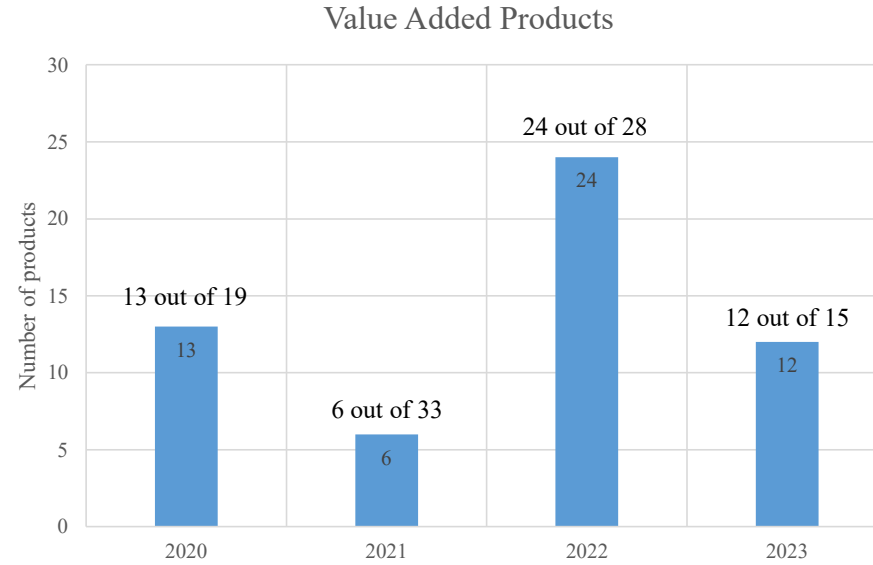
# Satellite Image Requests 2023

| #  | Date of Request | Filename                                     | Organization  | Imaging Date | Country     | Status      |
|----|-----------------|--|---------------|--------------|-------------|-------------|
| 1  | 20230206        | 20230206-Turkey-Earthquake-00463             | Sentinel Asia | 14/02/2023   | Turkey      | Available   |
| 2  | 20230228        | 20230228-Philippines-Other-00465             | Sentinel Asia | 09/03/2023   | Philippines | Available   |
| 3  | 20230608        | 20230608-Kazakhstan-Forest-Fire-00472        | Sentinel Asia | 24/06/2023   | Kazakhstan  | Available   |
| 4  | 20230713        | 20230713-India-Flood-Landslide-Storm-00473   | Sentinel Asia |              | India       | In progress |
| 5  | 20230718        | 20230718-Vietnam-Flood-Landslide-Storm-00474 | Sentinel Asia |              | Vietnam     | in progress |
| 6  | 20230720        | 20230720-Bhutan-Flood-00475                  | Sentinel Asia | 11/08/2023   | Bhutan      | Cloudy      |
| 7  | 20230725        | 20230725-Philippines-Flood-Landslide-00476   | Sentinel Asia |              | Philippines | In progress |
| 8  | 20230805        | 20230805-Vietnam-Flood-Landslide-Storm-00477 | Sentinel Asia | 14/08/2023   | Vietnam     | Cloudy      |
| 9  | 20230816        | 20230816-Vietnam-Landslide-00478             | Sentinel Asia |              | Vietnam     | In progress |
| 10 | 20230827        | 20230827-Tajikistan-Landslide-Other-00479    | Sentinel Asia |              | Tajikistan  | In progress |

# Value Added Products 2023

| #  | ID       | Filename   | Organization  | Year | Country     | Status |
|----|----------|--|---------------|------|-------------|--------|
| 1  | 20230206 | 20230206-Turkey-Earthquake-00463                           | Sentinel Asia | 2023 | Turkey      | Done   |
| 2  | 20230514 | 20230514-Myanmar (Burma)-Flood-Landslide-Storm-Other-00468 | Sentinel Asia | 2023 | Myanmar     | Done   |
| 3  | 20230514 | 20230514-Bangladesh-Storm-00469                            | Sentinel Asia | 2023 | Bangladesh  | Done   |
| 4  | 20230527 | 20230527-Philippines-Flood-Landslide-00470                 | Sentinel Asia | 2023 | Philippines | Done   |
| 5  | 20230615 | 20230615-India-Storm-00471                                 | Sentinel Asia | 2023 | India       | Done   |
| 6  | 20230608 | 20230608-Kazakhstan-Forest-Fire-00472                      | Sentinel Asia | 2023 | Kazakhstan  | Done   |
| 7  | 20230713 | 20230713-India-Flood-Landslide-Storm-00473                 | Sentinel Asia | 2023 | India       | Done   |
| 8  | 20230718 | 20230718-Vietnam-Flood-Landslide-Storm-00474               | Sentinel Asia | 2023 | Vietnam     | Done   |
| 9  | 20230720 | 20230720-Bhutan-Flood-00475                                | Sentinel Asia | 2023 | Bhutan      | Done   |
| 10 | 20230725 | 20230725-Philippines-Flood-Landslide-00476                 | Sentinel Asia | 2023 | Philippines | Done   |
| 11 | 20230805 | 20230805-Vietnam-Flood-Landslide-Storm-00477               | Sentinel Asia | 2023 | Vietnam     | Done   |
| 12 | 20230816 | 20230816-Vietnam-Landslide-00478                           | Sentinel Asia | 2023 | Vietnam     | Done   |
| 13 | 20230827 | 20230827-Tajikistan-Landslide-Other-00479                  | Sentinel Asia | 2023 | Tajikistan  | Done   |

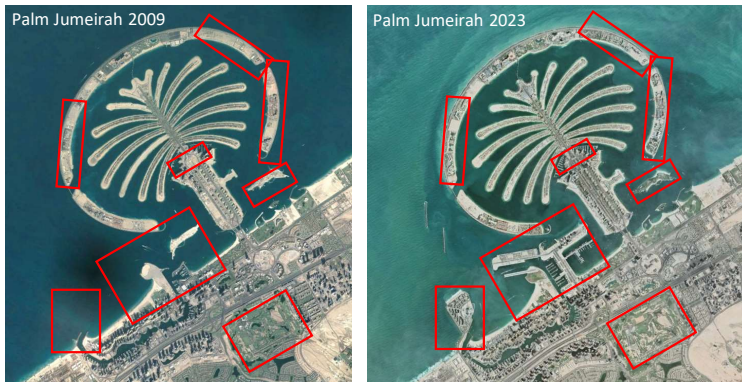
# Disaster Management Requests 2020–2023



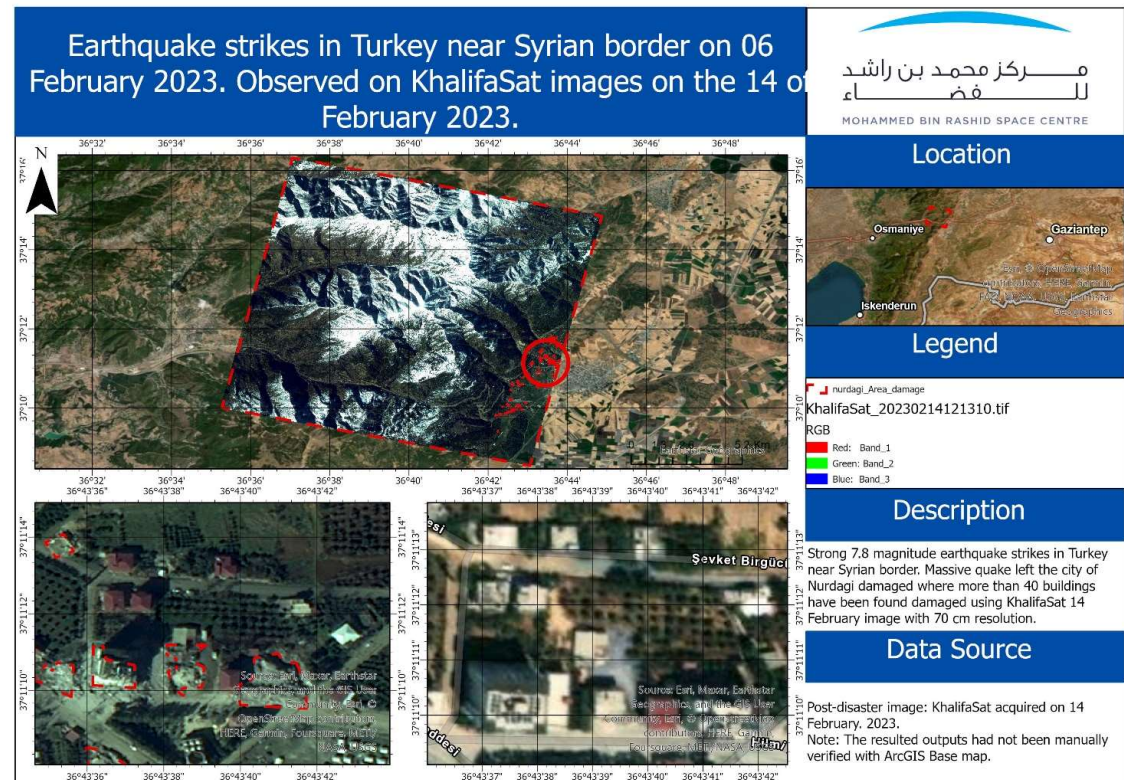
# 20230206-Turkey-Earthquake-00463

- **Data used:** KhalifaSat Optical Image, ESRI basemap
- **Methodology:** Visual change analysis with post-event and pre-event images

Change Analysis Example of Project Development in Dubai

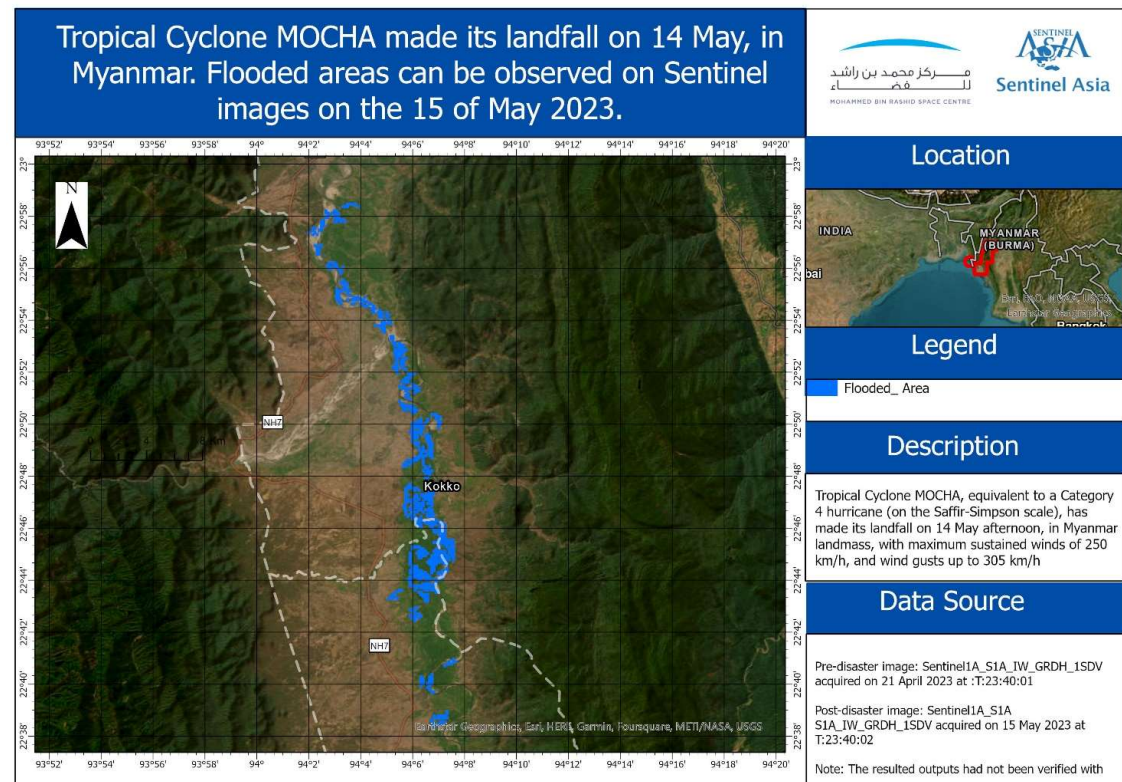
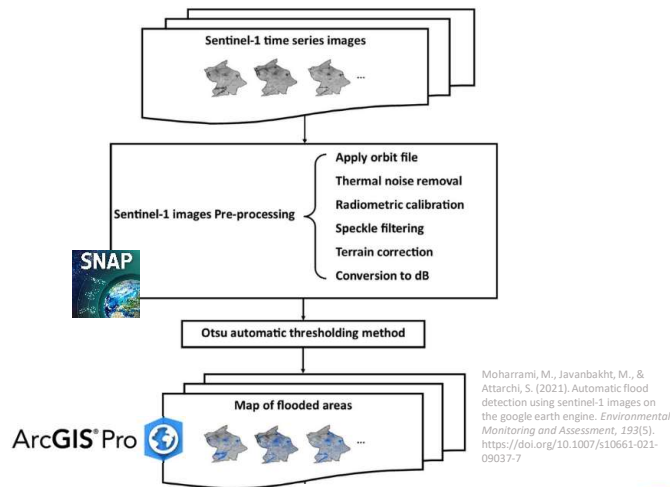


21 September 2023



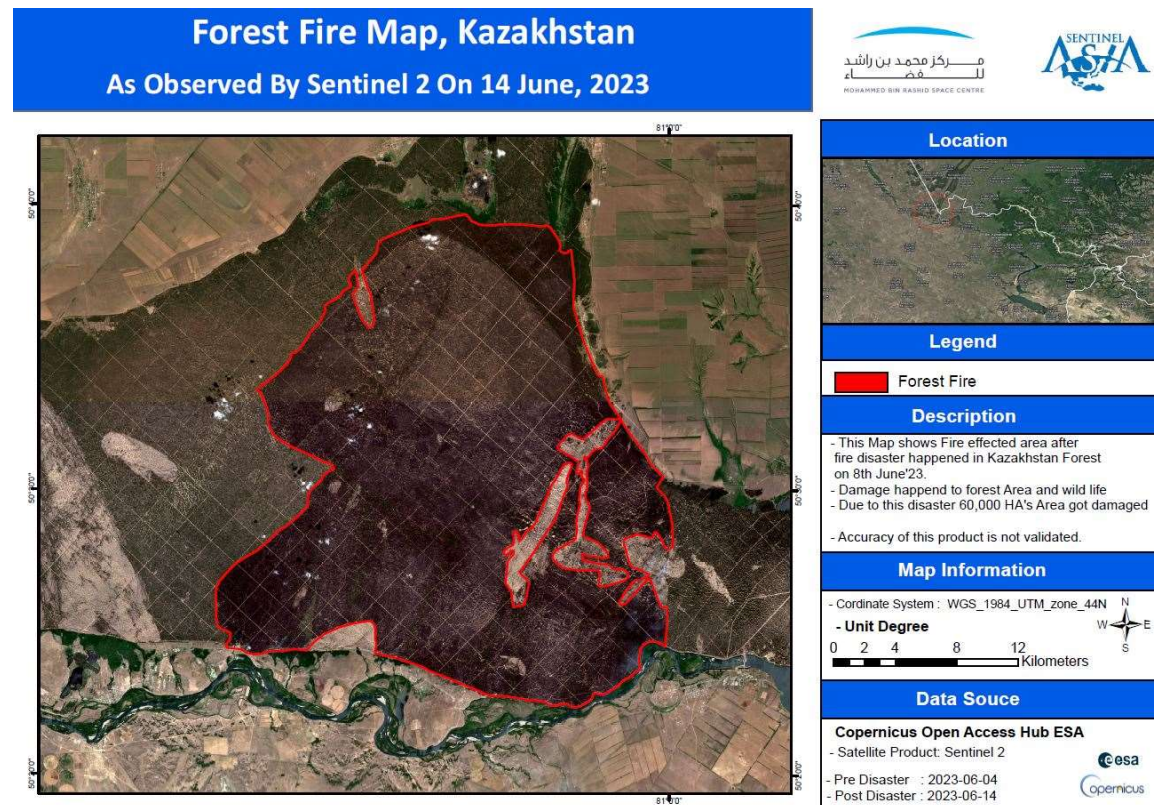
## 20230514-Myanmar (Burma)-Flood-Landslide-Storm-Other-00468

- **Data used:** Sentinel-1 SAR data for pre and post disaster event
- **Methodology:** Threshold method using pixel value (backscatter) to separate flood and non-flood areas



# 20230608-Kazakhstan-Forest-Fire-00472

- **Data used:** Sentinel-2 Optical data for pre and post disaster event
- **Methodology:** Spectral and visual analysis of the fire damaged areas comparing to pre-disaster image



**Thank You!**