Standard Operation Procedure (SOP) for smooth EOR

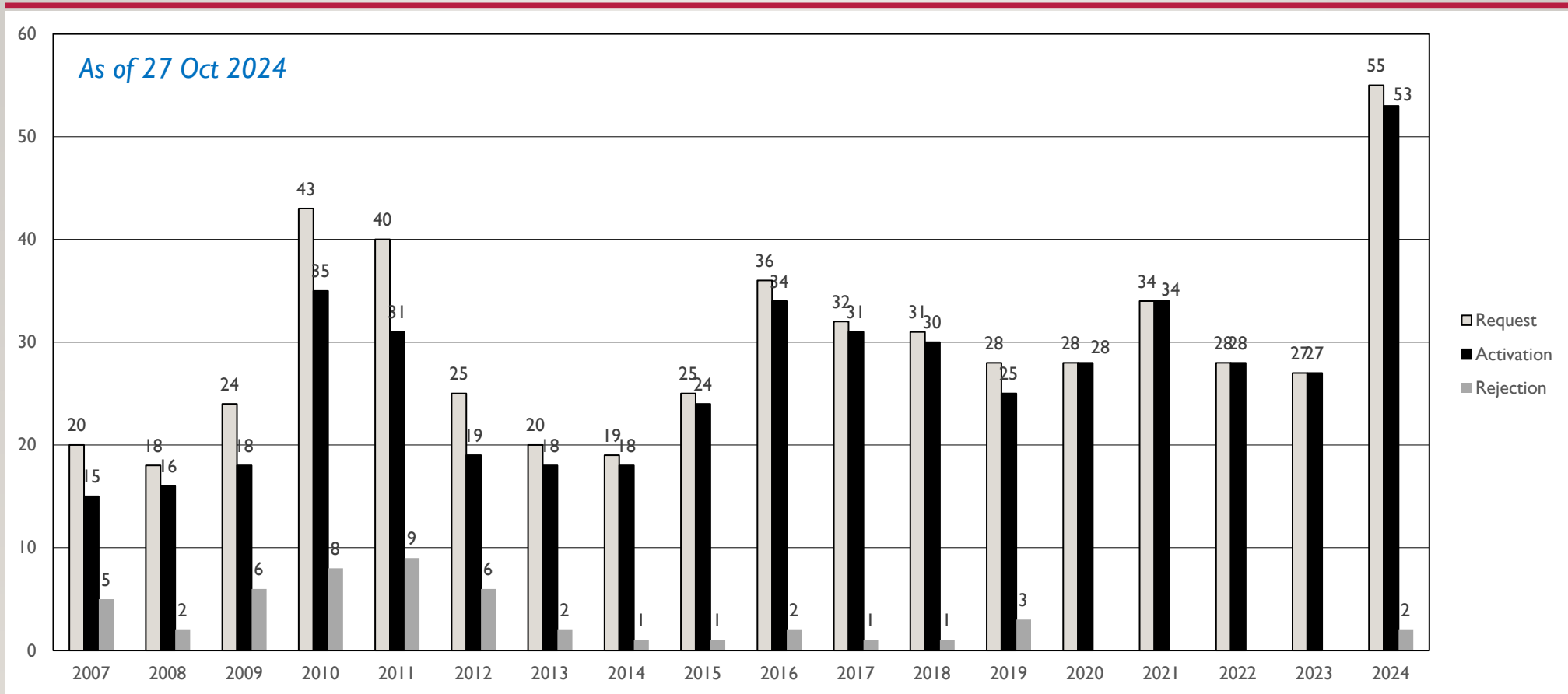Makoto IKEDA, Asian Disaster Reduction Center

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1. Trend of Past EORs

2. Good Practices

3. Promotion of the Standard Operation Procedure (SOP) for EOR

4. Conclusion

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1. Trend of Past EORs

2. Good Practices

3. Promotion of the Standard Operation Procedure (SOP) for EOR
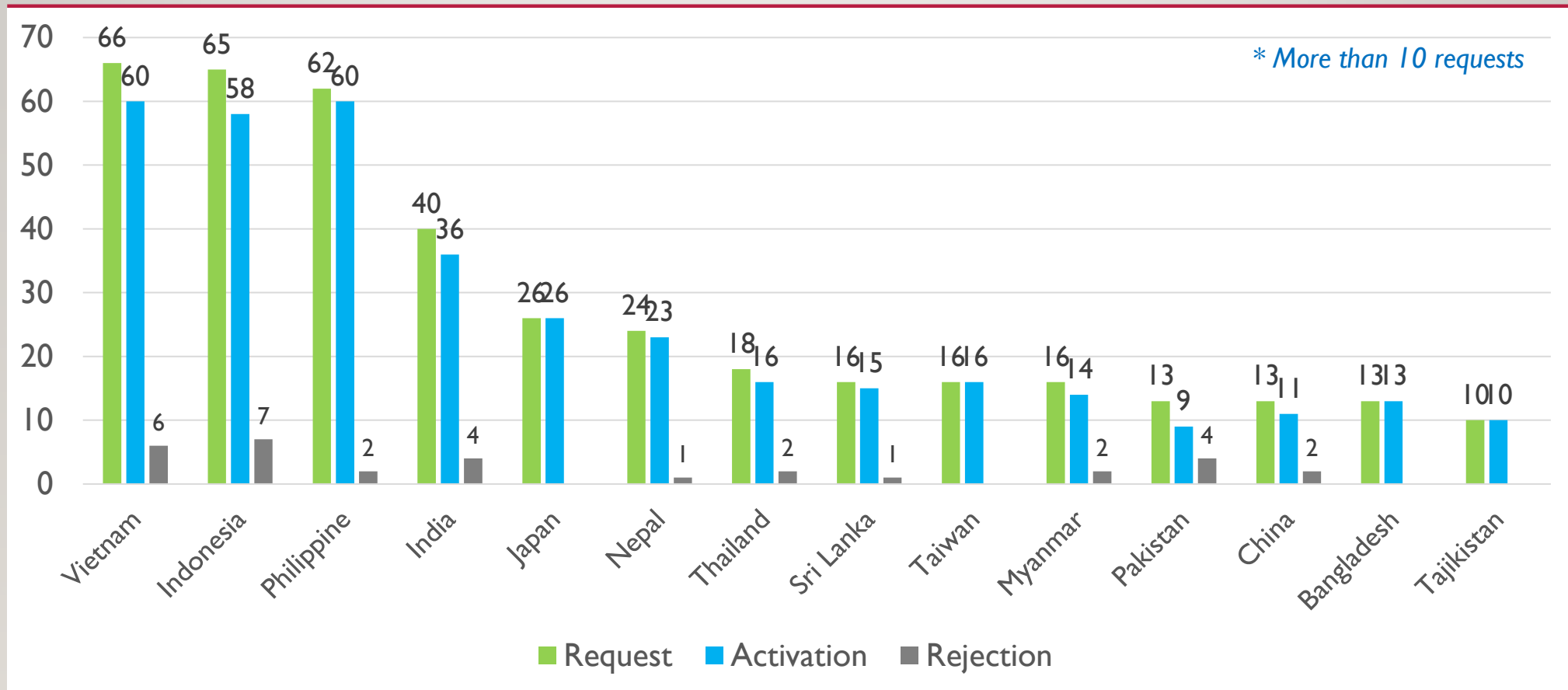
4. Conclusion

# NUMBER OF REQUESTS, ACTIVATIONS AND REJECTIONS FOR EOR (2007-2024)

TYPE OF REQUESTS, ACTIVATIONS AND REJECTIONS FOR EOR (2007-2023)

|	Number of Request	Number of Activation	Number of Rejection	Activation/Request (%)
Flood	238	226	12	95.0%
Earthquake	65	60	5	92.3%
Typhoon / Storm	42	40	2	95.2%
Landslide	32	27	5	84.4%
Volcano	26	23	3	88.5%
Cyclone	26	22	4	84.6%
Forest Fire	19	9	10	47.4%
Oil Spill	8	6	2	75.0%
Others	22	18	4	81.8%
Total	**478**	**431**	**47**	

NUMBER OF REQUESTS, ACTIVATIONS AND REJECTIONS FOR EOR BY COUNTRY (2007-2023)

NUMBER OF REQUESTS, ACTIVATIONS AND REJECTIONS FOR EOR (2007-2024)
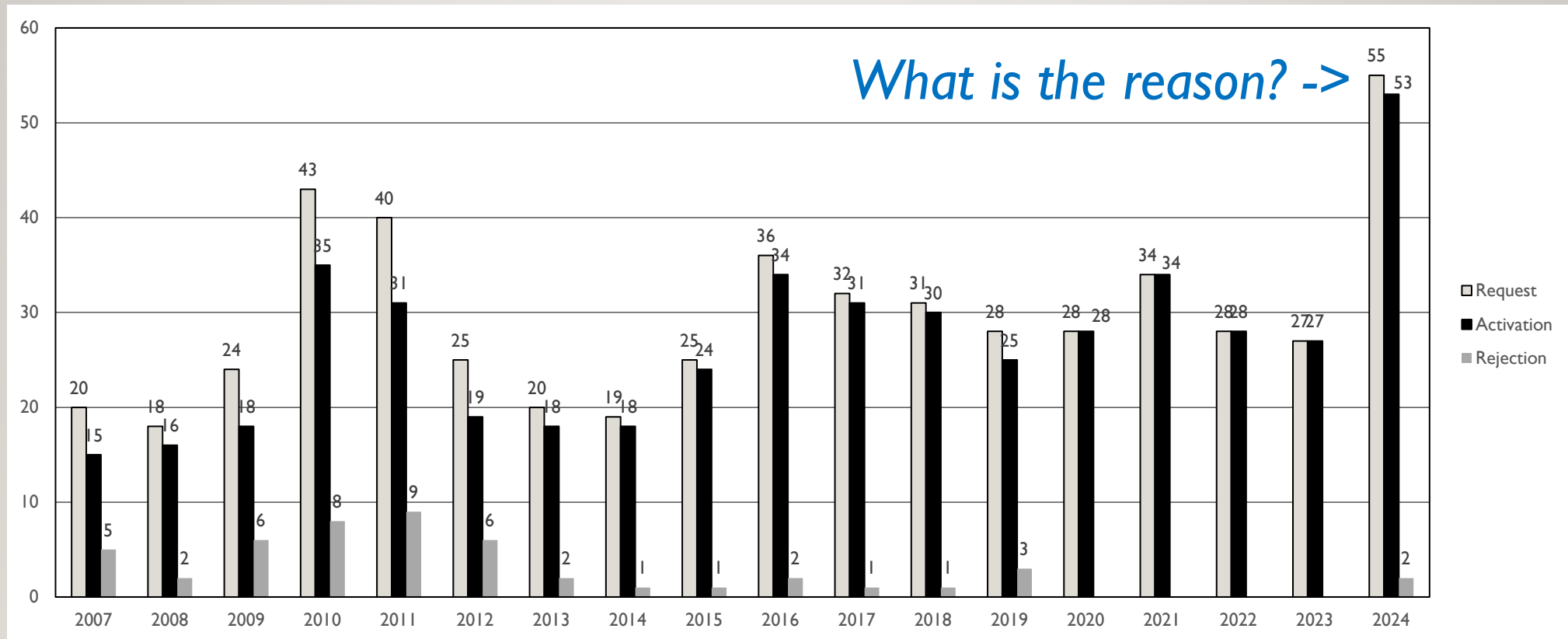
NUMBER OF OCCURRED DISASTERS AND TOTAL AFFECTED PEOPLE (2007-2024)

As of 27 Oct 2024
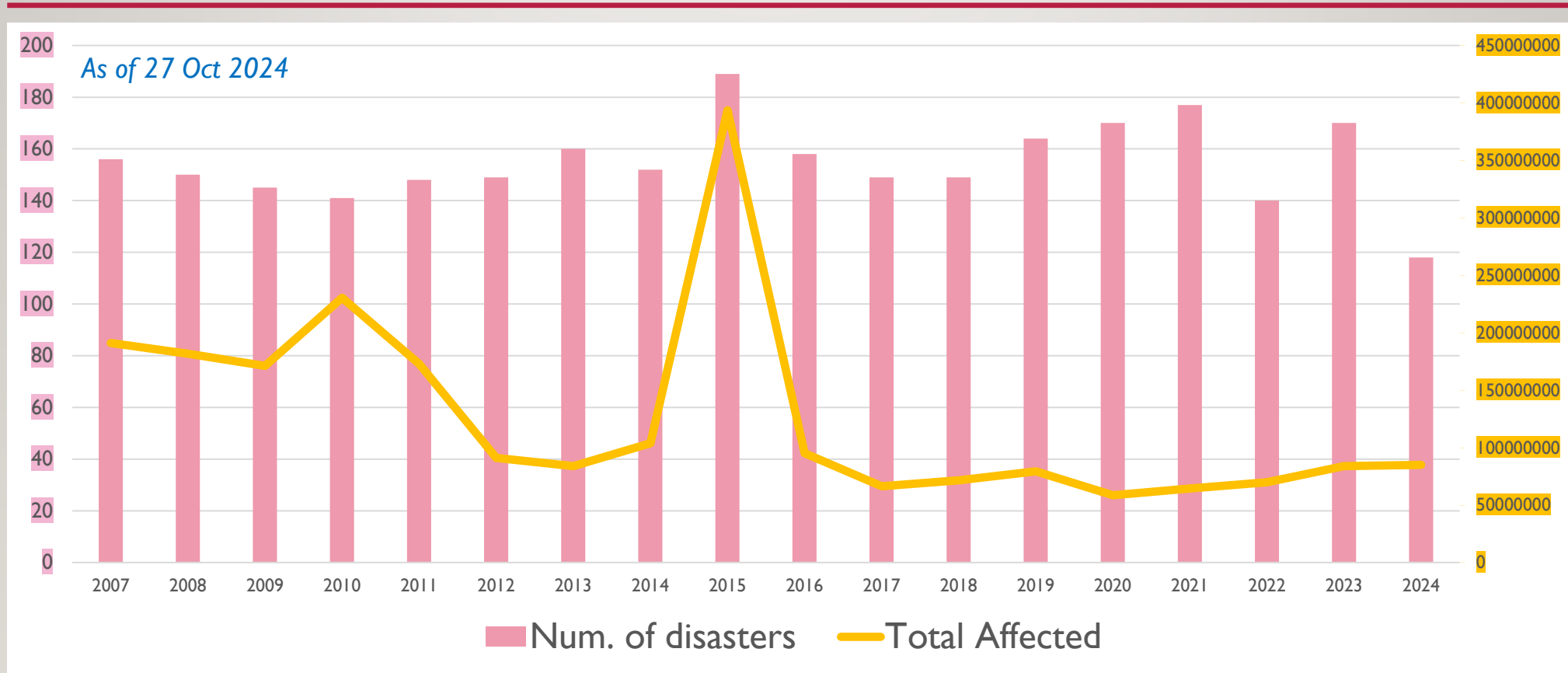
Its common year in 2024…increased SA member's awareness?
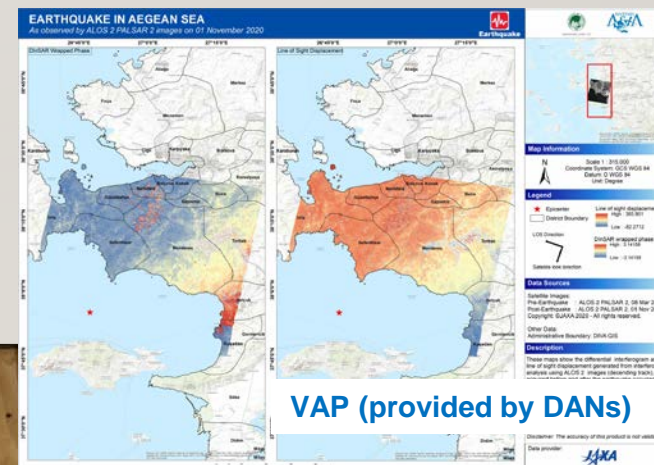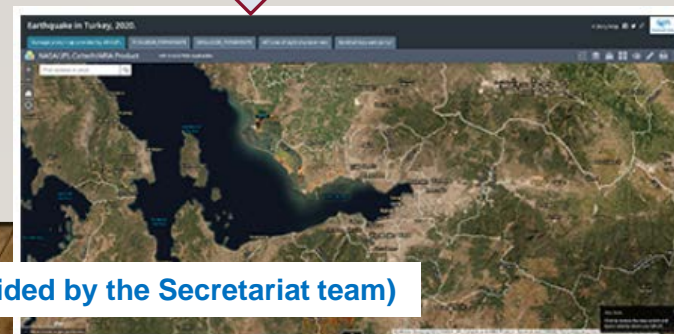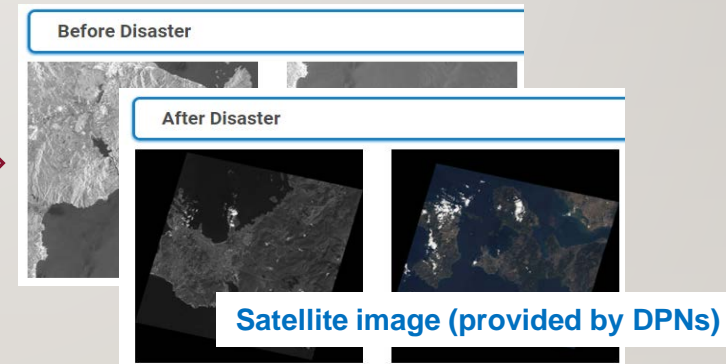
CONTENTS

EMERGENCY OBSERVATION REQUEST (EOR)

JPT members and ADRC member organizations are entitled to make emergency observation requests (EORs) to Sentinel Asia. DPN, DAN, and the Secretariat team support to provide a data-sets.

Satellite image (provided by DPNs)

WEB-GIS (provided by the Secretariat team)
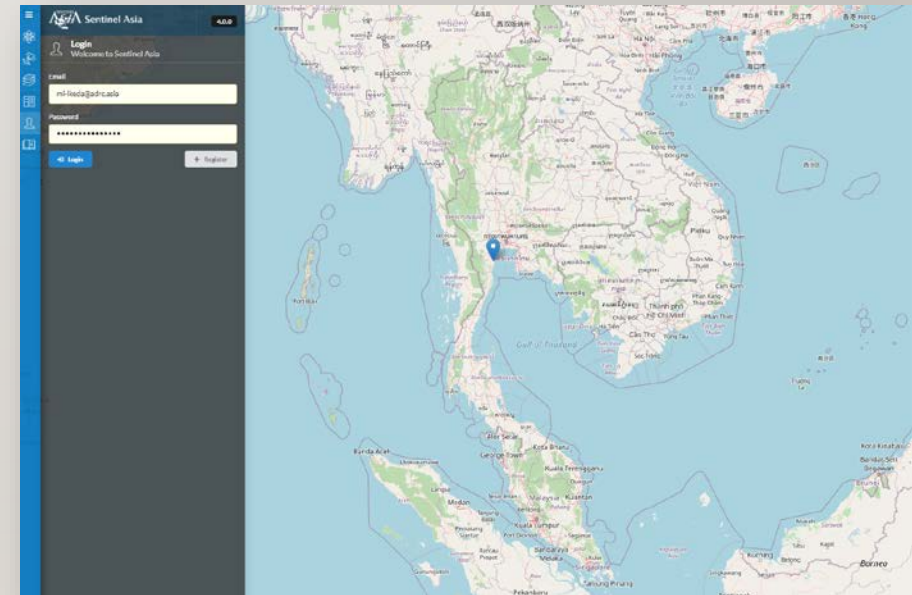

VAP (provided by DANs)

WHAT IS "OPTEMIS"

The new system for EOR, named "OPTEMIS", was developed by the collaboration of JAXA, GISTDA, and NARL started its operation on 28 October 2019. "OPTEMIS" enable easy-registration **for making EOR**.
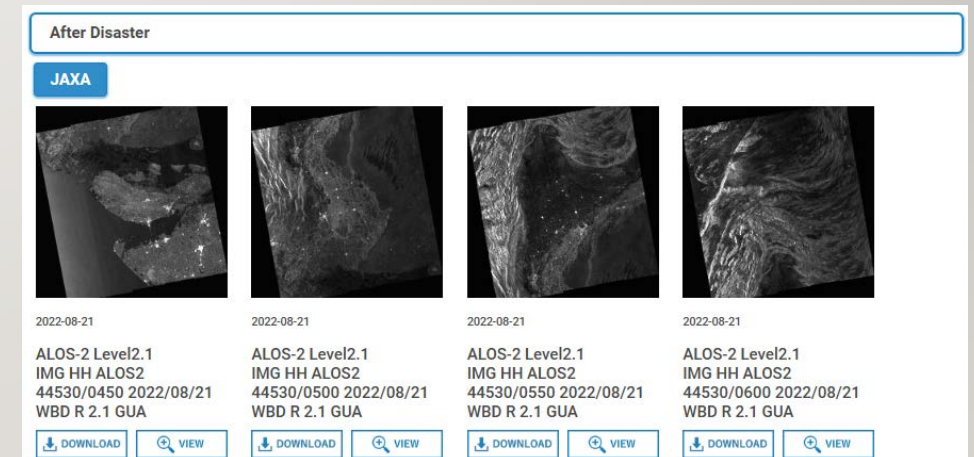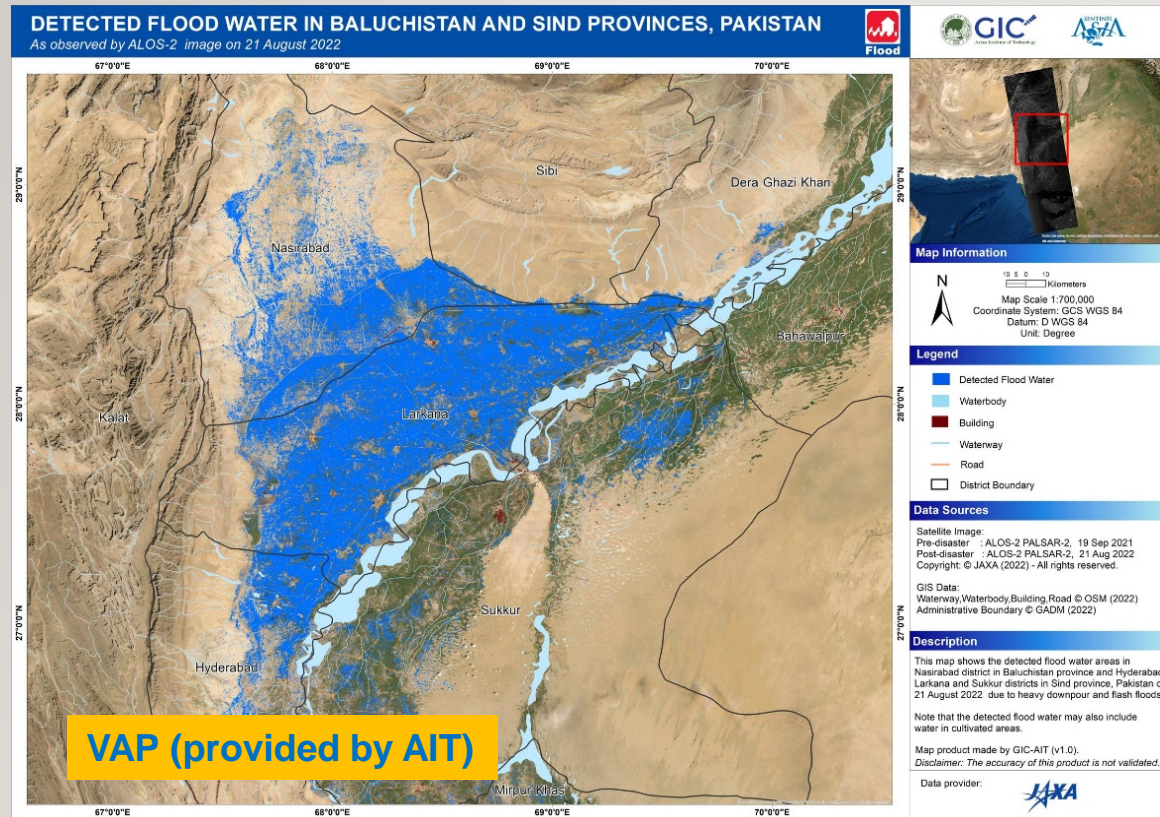
[How to access]

SA Website (**https://sentinel-asia.org/index.html**)

OPTEMIS (**https://optemis.sentinel-asia.org/**)
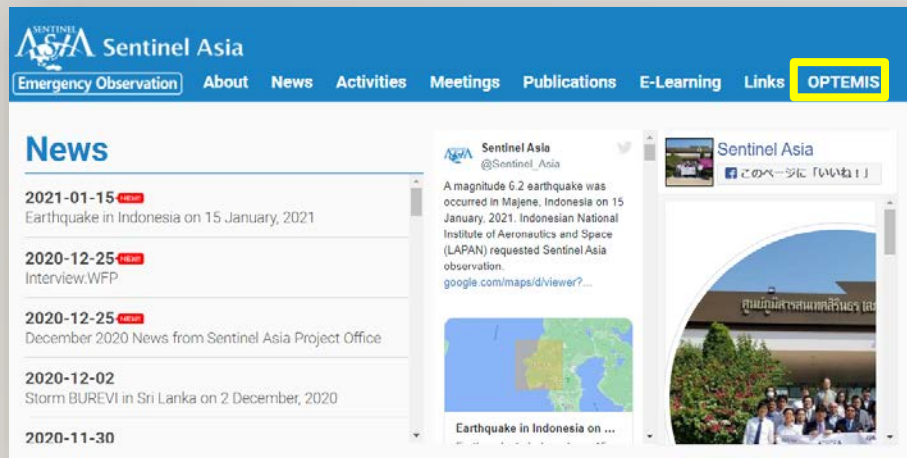
EOR: Good Practice 1

Flood in Pakistan (August 2022)

[EOR Requestor] Provincial Disaster Management Authority (PDMA) in Pakistan and ADRC
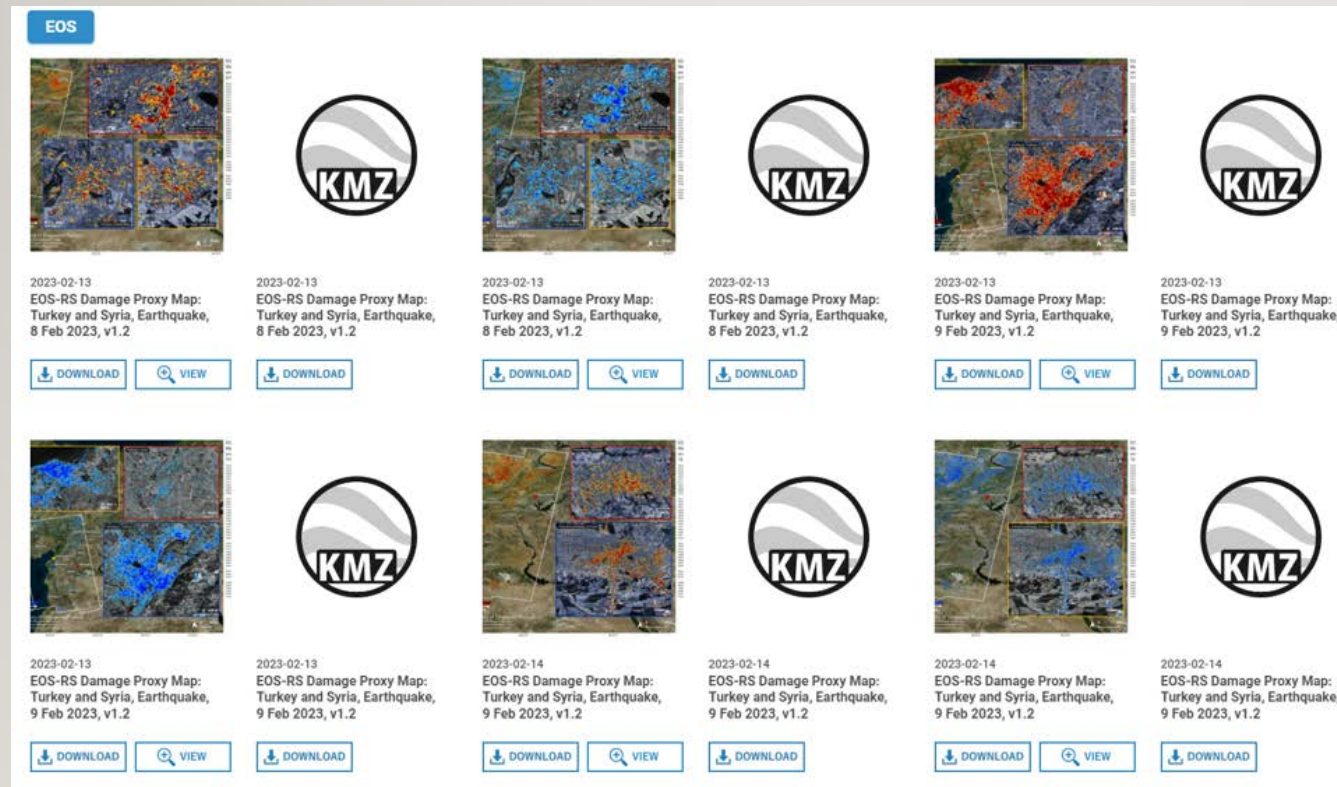

VAP (provided by AIT)

PDMA as requester of this EOR used provided data for emergency response activity, sharing with other DRR organizations, and making report for sharing information.

EOR: Good Practice 2

Türkiye-Syria Earthquakes (February 2023)

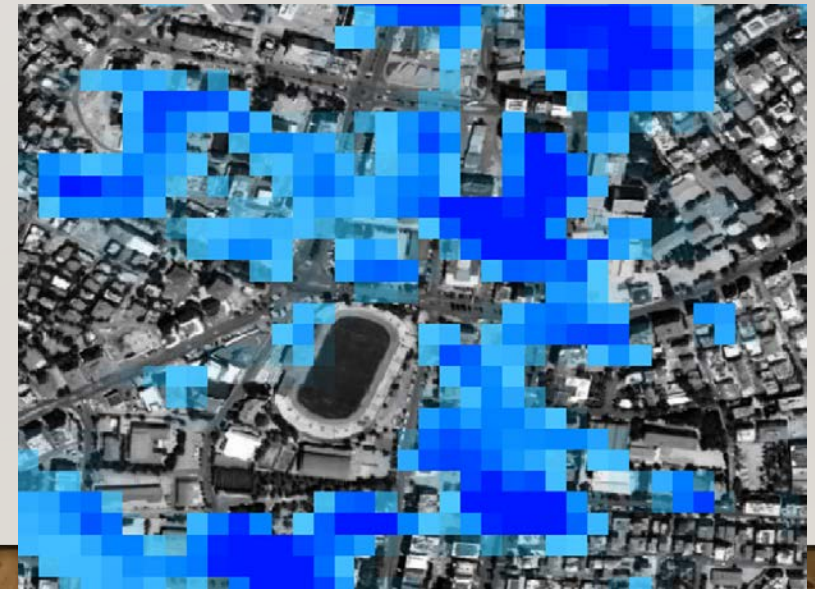[EOR Requestor] Disaster and Emergency Management Authority (AFAD)
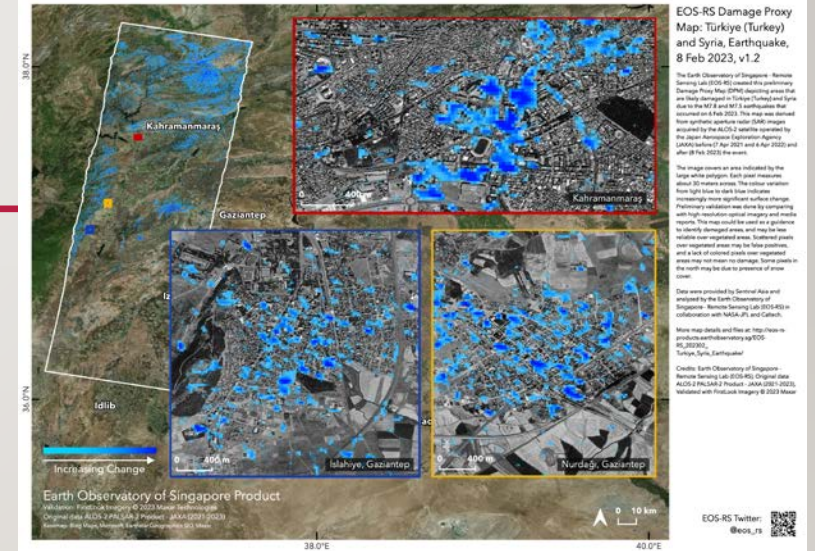

Satellite imageries of the 2023 Earthquakes in Turkey can be viewed and downloaded on the Sentinel Asia website.

* 71 products (analyzed map) and 107 satellite images are provided by Sentinel Asia members (as of 20 December 2023)
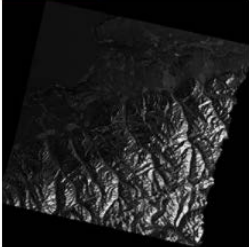
Actual

Satellite image analysis

Totally collapsed

EOR: Good Practice 3

Landslide in Kyrgyzstan (December 2019)

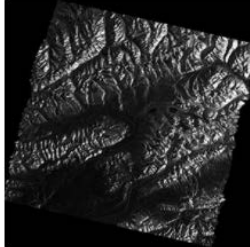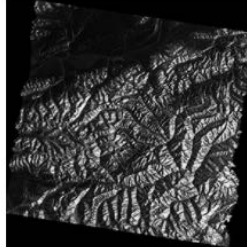[EOR Requestor] Central-Asian Institute for Applied Geosciences (CAIAG)
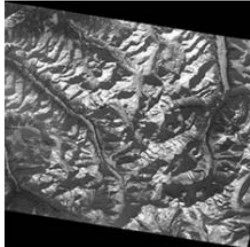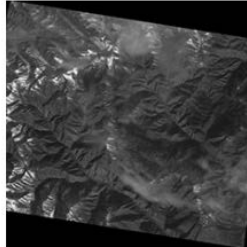
Satellite image (provided by DPNs)

WEB-GIS (provided by the Secretariat team)
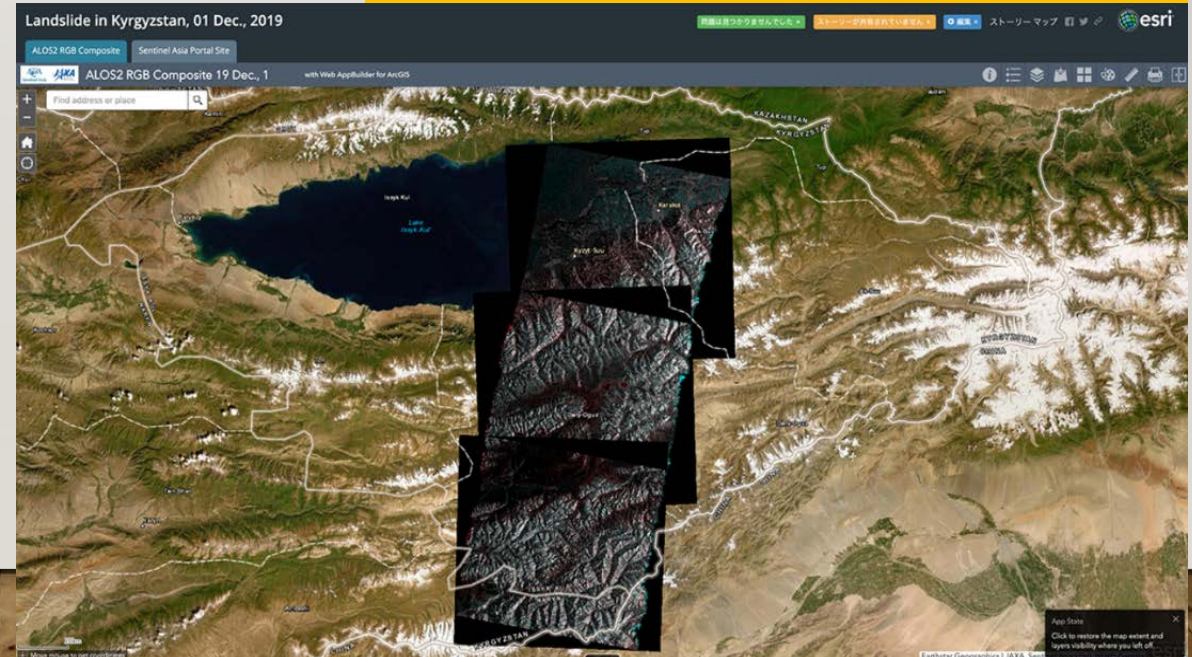
HOW MANY DAYS DO WE NEED TO PROVIDE "ARCHIVE DATA"

Before Disaster

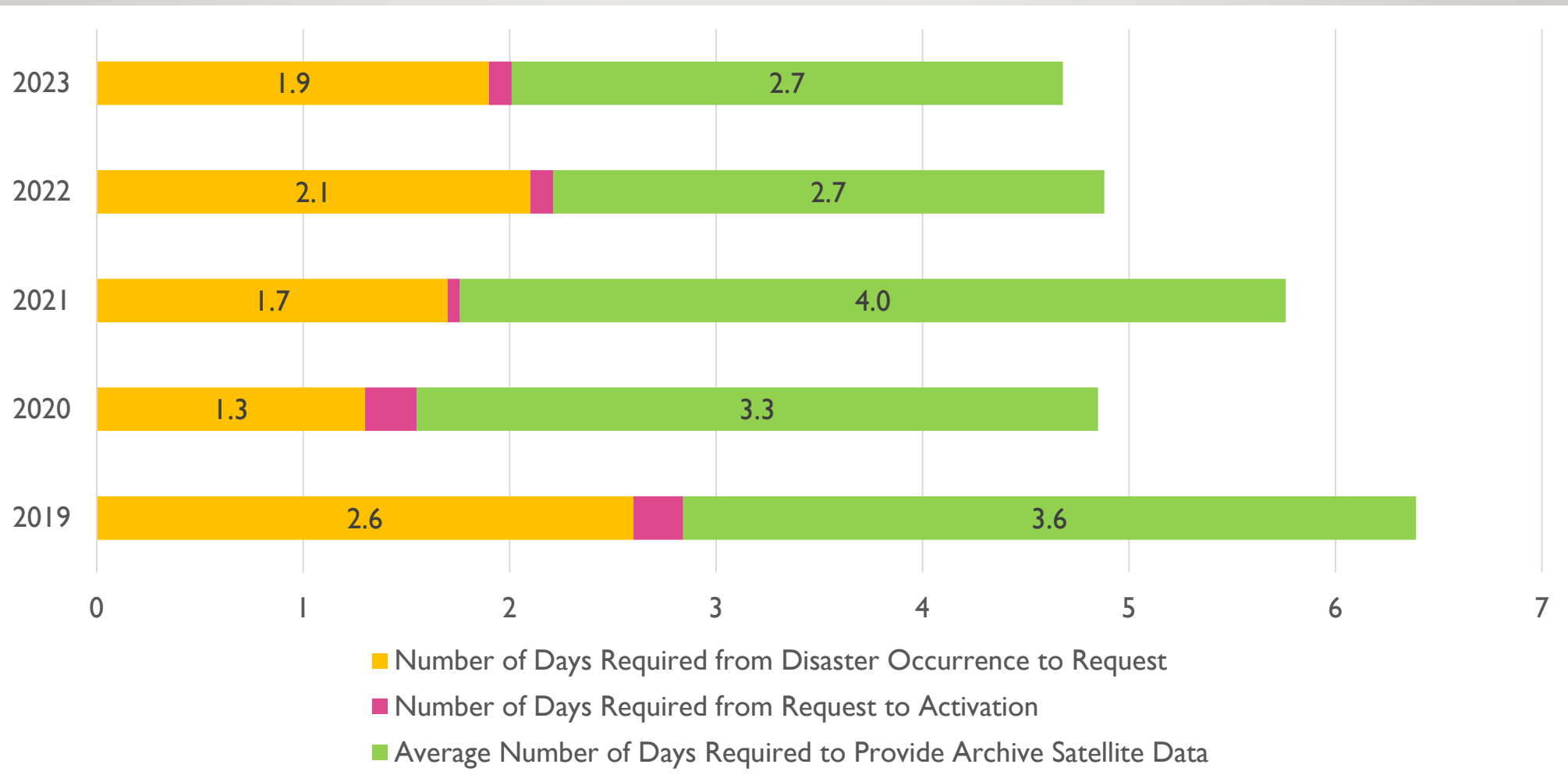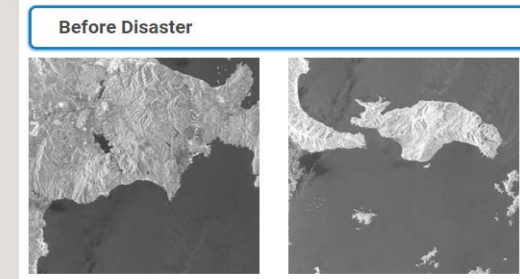| Year	Number of Days Required from Disaster Occurrence to Request	Number of Days Required from Request to Activation	Average Number of Days Required to Provide Archive Satellite Data
2023	1.9		2.7
2022	2.1		2.7
2021	1.7		4.0
2020	1.3		3.3
2019	2.6		3.6

- ■ Number of Days Required from Disaster Occurrence to Request
- ■ Number of Days Required from Request to Activation
- ■ Average Number of Days Required to Provide Archive Satellite Data

HOW MANY DAYS DO WE NEED TO PROVIDE "SATELLITE IMAGE AFTER DISASTER"

After Disaster

Year	Number of Days Required from Disaster Occurrence to Request	Average Number of Days Required to Provide Satellite Data After Disaster
2023	1.9	3.3
2022	2.1	2.6
2021	1.7	2.9
2020	1.3	3.3
2019	2.6	3.7

■ Number of Days Required from Disaster Occurrence to Request

■ Number of Days Required from Request to Activation

■ Average Number of Days Required to Provide Satellite Data After Disaster

HOW MANY DAYS DO WE NEED TO PROVIDE "VAP"
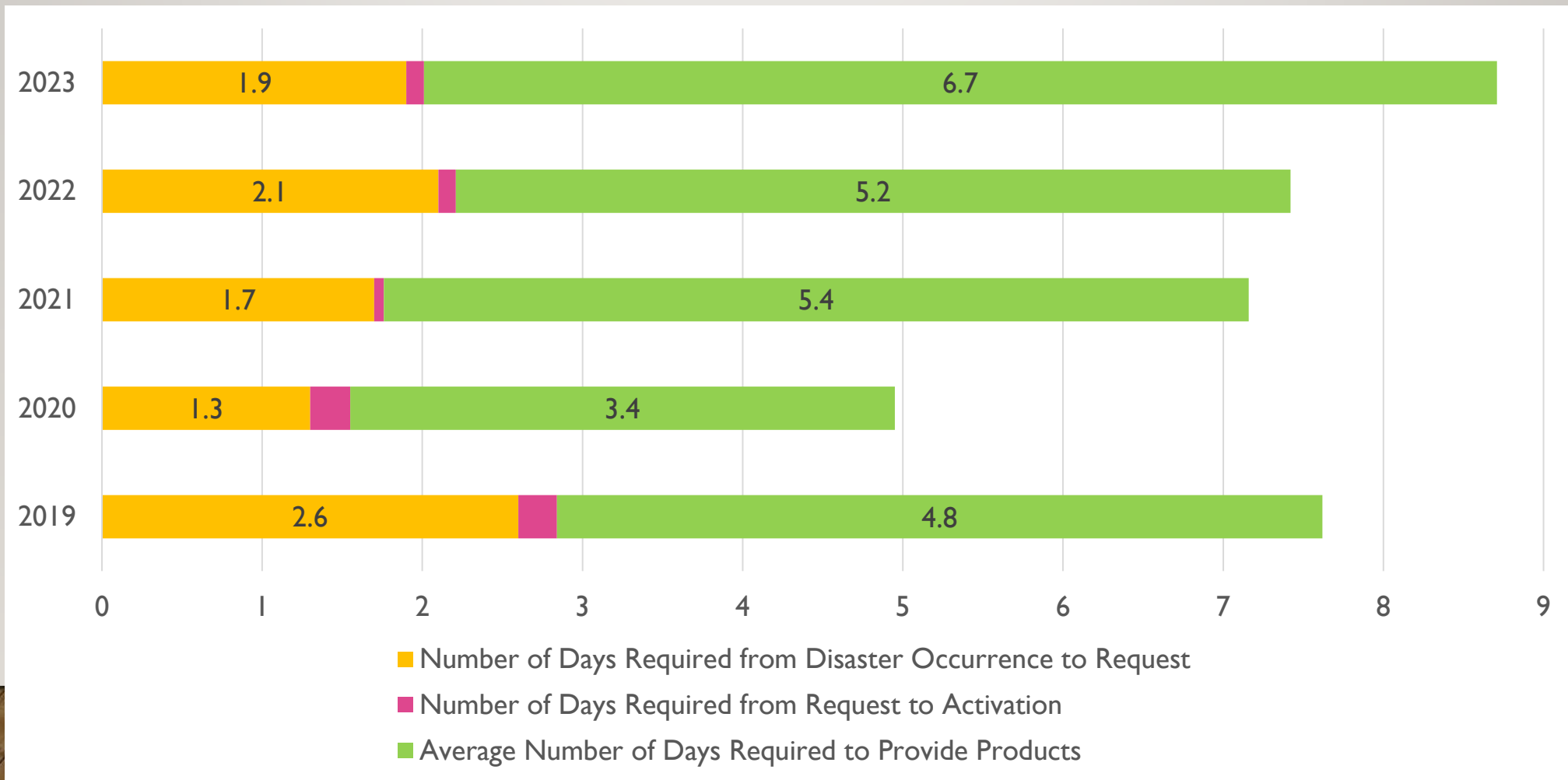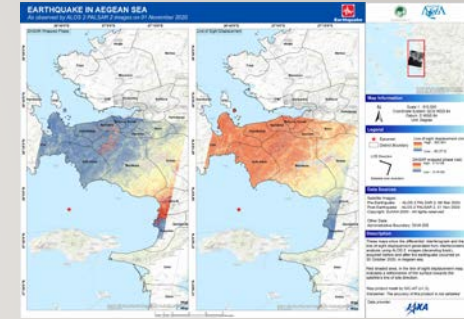
Year	Number of Days Required from Disaster Occurrence to Request	Number of Days Required to Provide Products
2023	1.9	6.7
2022	2.1	5.2
2021	1.7	5.4
2020	1.3	3.4
2019	2.6	4.8

- Number of Days Required from Disaster Occurrence to Request
- Number of Days Required from Request to Activation
- Average Number of Days Required to Provide Products

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STANDARD OPERATION PROCEDURE (SOP) FOR "OPTEMIS"

SOP is aimed at contributing to practical and effective disaster management activities through collaboration in **CAC** by making **EORs** to Sentinel Asia as promptly and timely as possible.
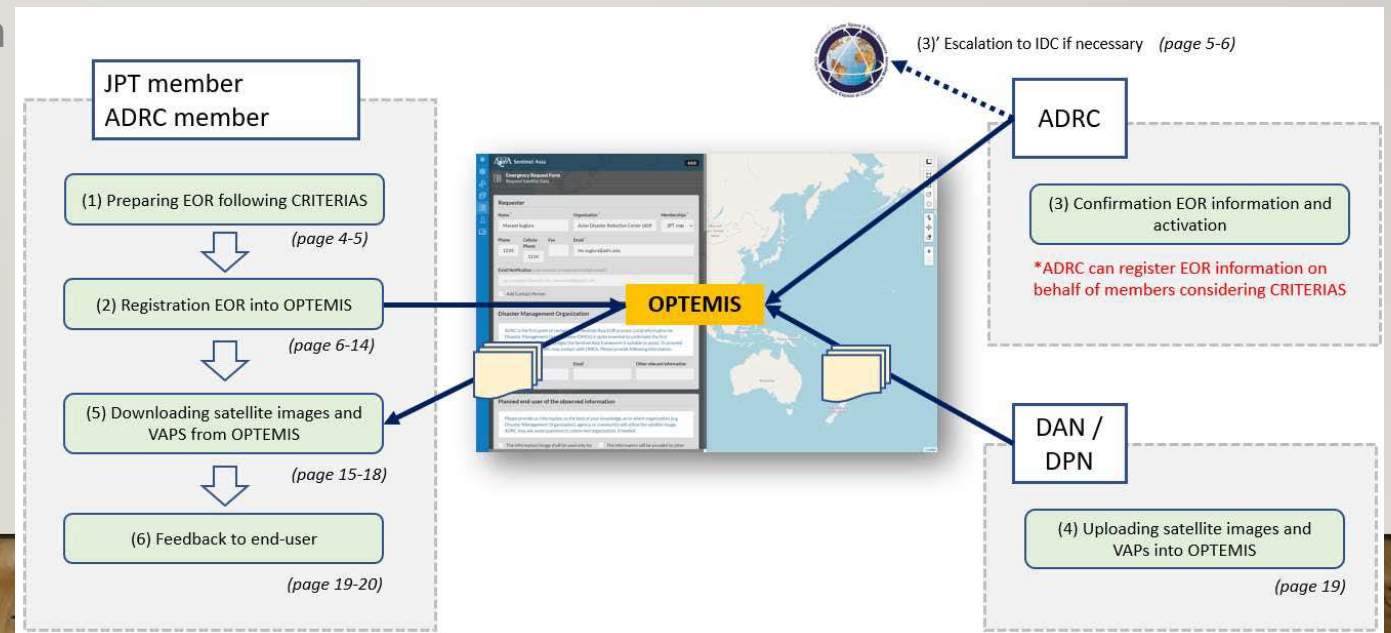
Standard Operating Procedure
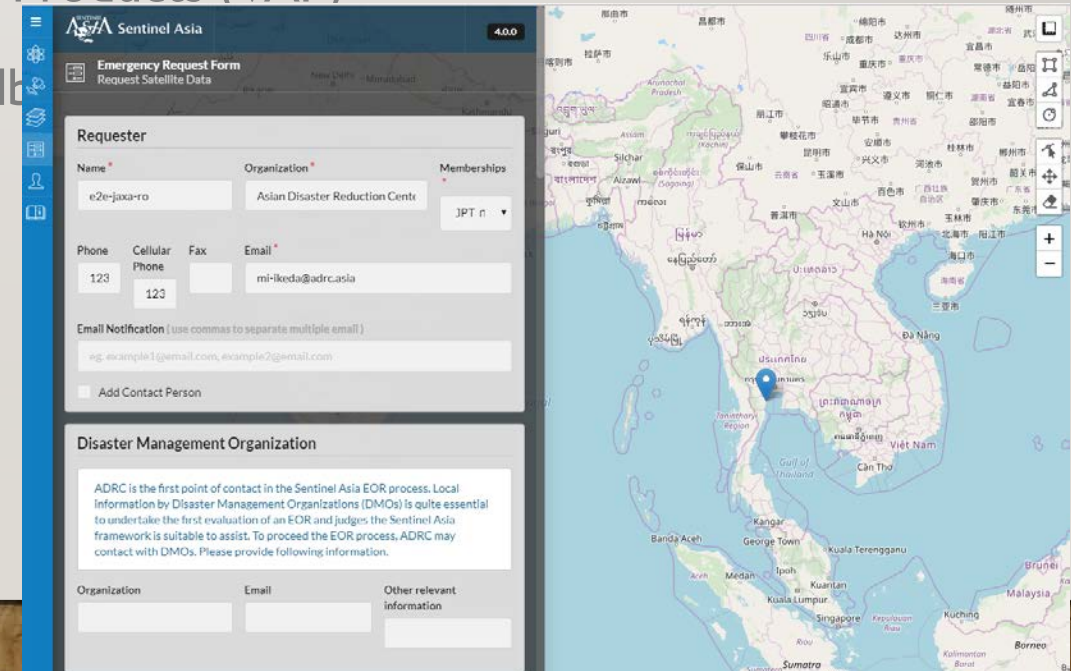
for making Emergency Observation Requests to Sentinel Asia

regarding disasters in the Central Asia and Caucasus

Version. 1.01

October 2024

OPTEMIS (https://optemis.sentinel-asia.org/)

CONTENTS OF SOP

CONTENTS OF SOP

1. Preface

2. **<u>Preparing and Submitting EOR (compulsory action)</u>**

3. Use of Satellite Images and Value-Added Products (VAP)

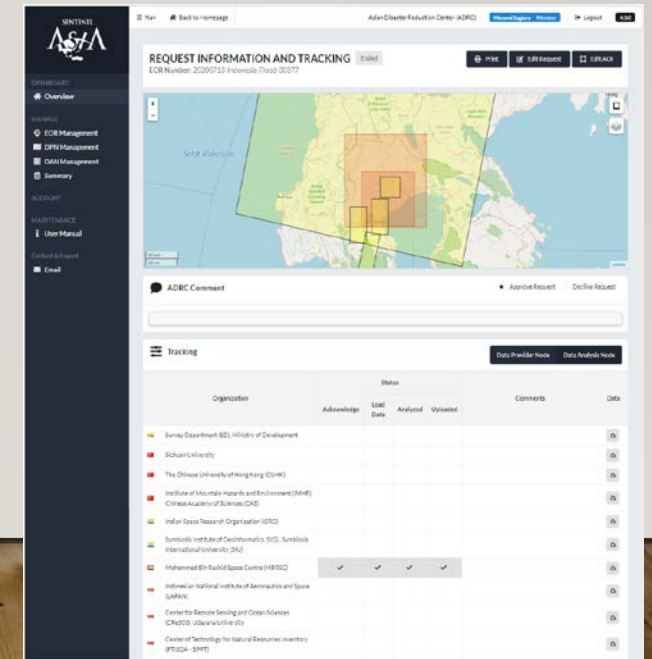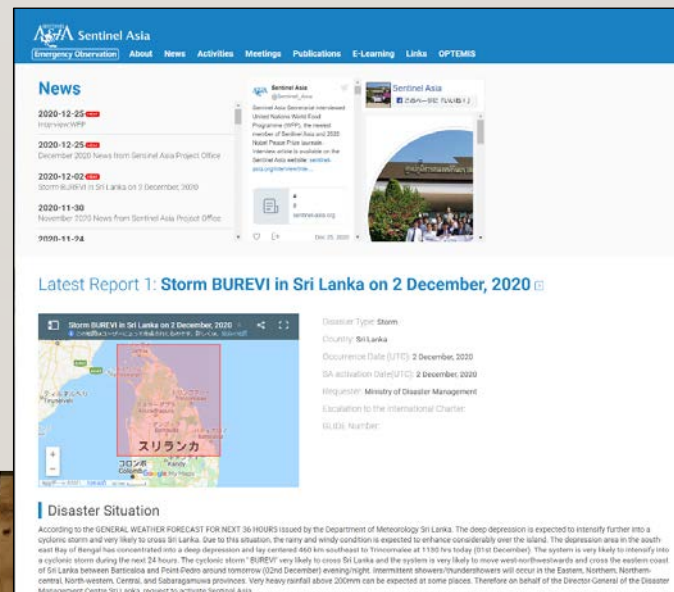4. Providing Disaster Information and Feedback

CONTENTS OF SOP

1. Preface

2. Preparing and Submitting EOR (compulsory action)

3. **Use of Satellite Images and Value-Added Products (VAP)**

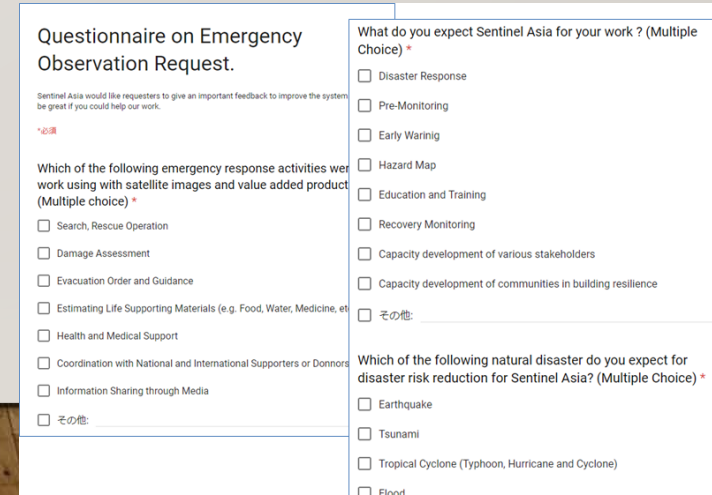4. Providing Disaster Information and Feedbacks

CONTENTS OF SOP

1. Preface

2. Preparing and Submitting EOR (compulsory action)

3. Use of Satellite Images and Value-Added Products (VAP)

4. **Providing Disaster Information and Feedbacks**

PROMOTING SOP FOR SA MEMBERS

Target country/region	Collaboration organizations	Established and revised
Myanmar	DMH, DDM, MIMU, (AHA Centre)	March 2021
Thailand	GISTDA, DDPM, ADPC, (AHA Centre)	March 2021
Vietnam	MARD, MONRE, VAST, (AHA Centre)	March 2021
Central Asia and Caucasus	CAIAG, Ministry of Emergency Situations (Kyrgyz Republic) Committee of Emergency Situations and Civil Defense (Tajikistan) Ministry of Emergency Situations (Uzbekistan)	February 2022 October 2024
Cambodia	National Committee for Disaster Management (NCDM)	February 2022
Lao PDR	Ministry of Labour and Social Welfare	February 2022
Pacific Island Countries	National Disaster Management Office (Fiji) National Disaster Management Office (Solomon Islands) Secretariat of the Pacific Community (SPC/SOPAC)	February 2022 January 2025
Nepal	DHM, NDRRMC, MoHA, ICIMOD	November 2023
Türkiye	AFAD, METU	December 2023 January 2025

Workshop in Nepal (Nov 2023)

Interview at DHM, ICIMOD, and NDRRMA (before WS)

Workshop in Türkiye (Dec 2023)

Interview at AFAD and METU (before WS)
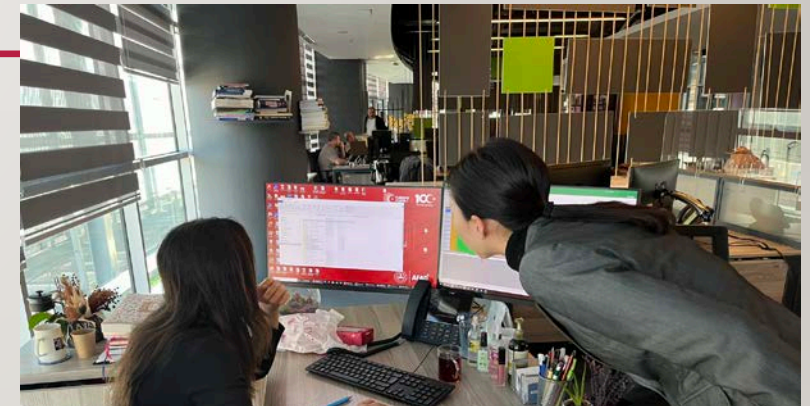
Workshop in Kirgizstan (Oct 2024)

Interview at MoES and CAIAG
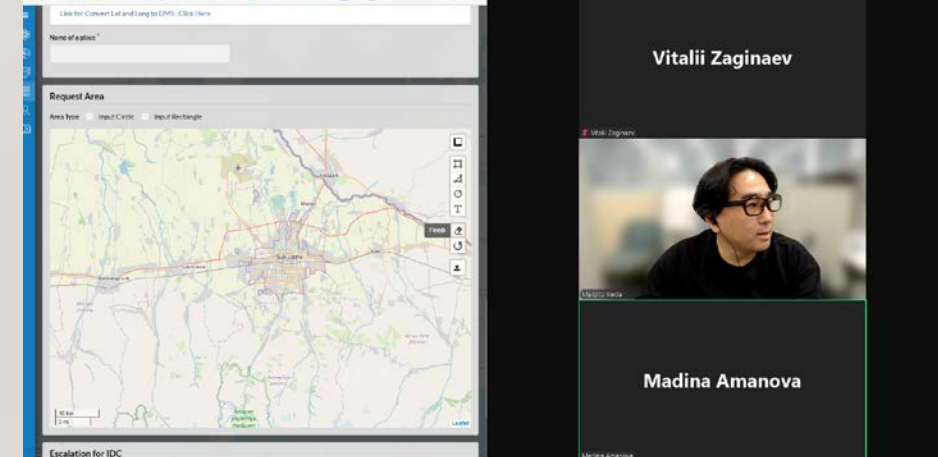
HOW TO BE SHORTEN A TIME FOR MAKING EOR? (TRIGER)

GDACS is a cooperation framework between the United Nations, the European Commission and disaster managers worldwide to improve alerts, information exchange and coordination in the first phase after major sudden-onset disasters.

ADRC refers to make an EOR when we receive a **red-alert** from GDACS.

HOW TO BE SHORTEN A TIME FOR MAKING EOR? (TRIGER)

ADRC registers EOR on behalf of you. Please accept that **ADRC will make an EOR unless explicit rejection is expressed within 2 hours of the contact by ADRC.**
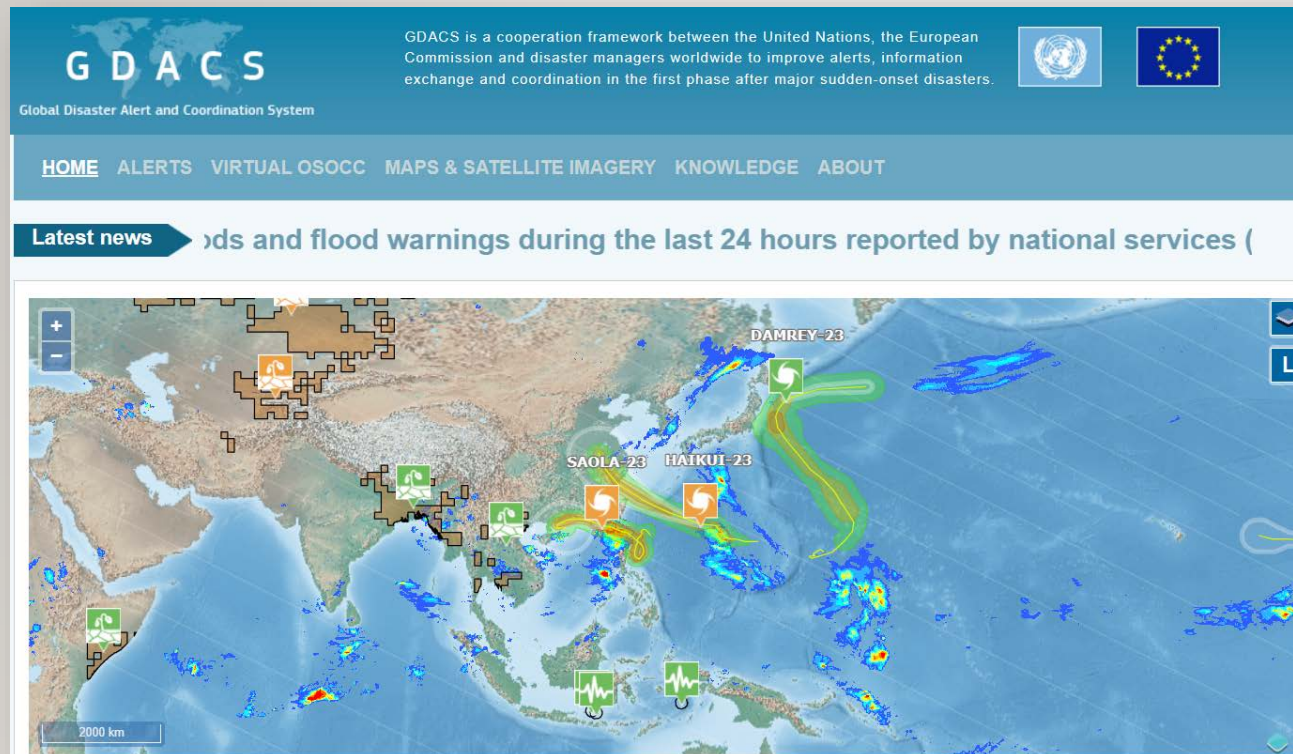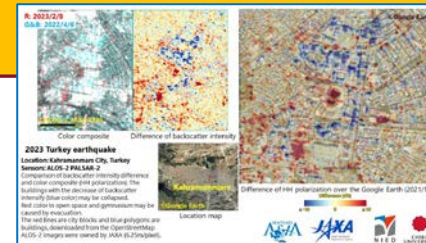
ADRC contact to ask you about activation.

ADRC will make a EOR on behalf of you, if you don't have any rejection.

2 hours

Large-scale Disaster occurrence
(e.g., Red-alart from GDACS)

Provided data will be shared to you

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1. Trend of Past EORs

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CONCLUSION

- SA received 478 requests and 431 were activated from 2007 to 2023.

- Many EOR has been submitted from Indonesia, Philippines, and Vietnam such as ASEAN countries.

- The number of EOR in 2024 is higher than usual. One of reason could be due to increased awareness of SA members.

- It requires a time for receiving an EOR after disaster occurrence.

- SOP is one of solution for above issue. And secretariat has been promoting SOP for SA members. (ADRC makes an EOR on behalf of SA members following a Red-alart of GDACS)