

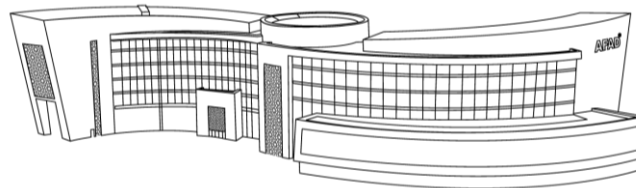


REPUBLIC OF TÜRKİYE - MINISTRY OF INTERIOR
**DISASTER AND EMERGENCY
MANAGEMENT AUTHORITY**

AFAD

6th FEBRUARY 2023 TURKEY EARTHQUAKES: What did we learn? What do we need?

Prof. Dr. Orhan TATAR
General Director, Earthquake and Risk Reduction



September 2024

6th February 2023 Earthquakes...

- *Short video* (4 mins)
 - *General Information*
 - *Impact Area*
 - *Aftershocks*
 - *Surface Deformation*
-

06 .02. 2023

TIME 04.17

7,7 KAHRAMANMARAŞ / PAZARCİK

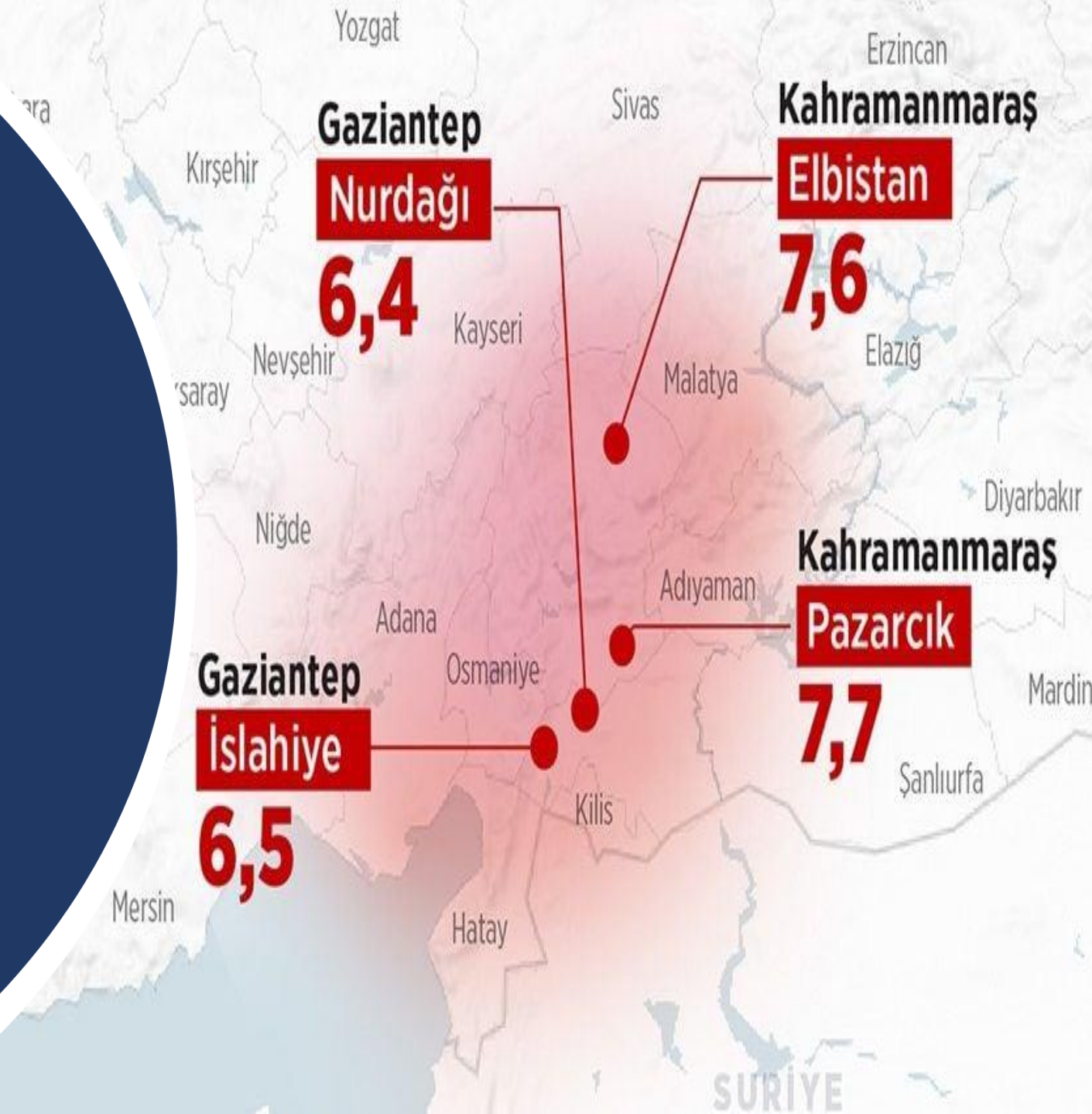
TIME: 04.36

6,5 GAZİANTEP / ISLAHİYE

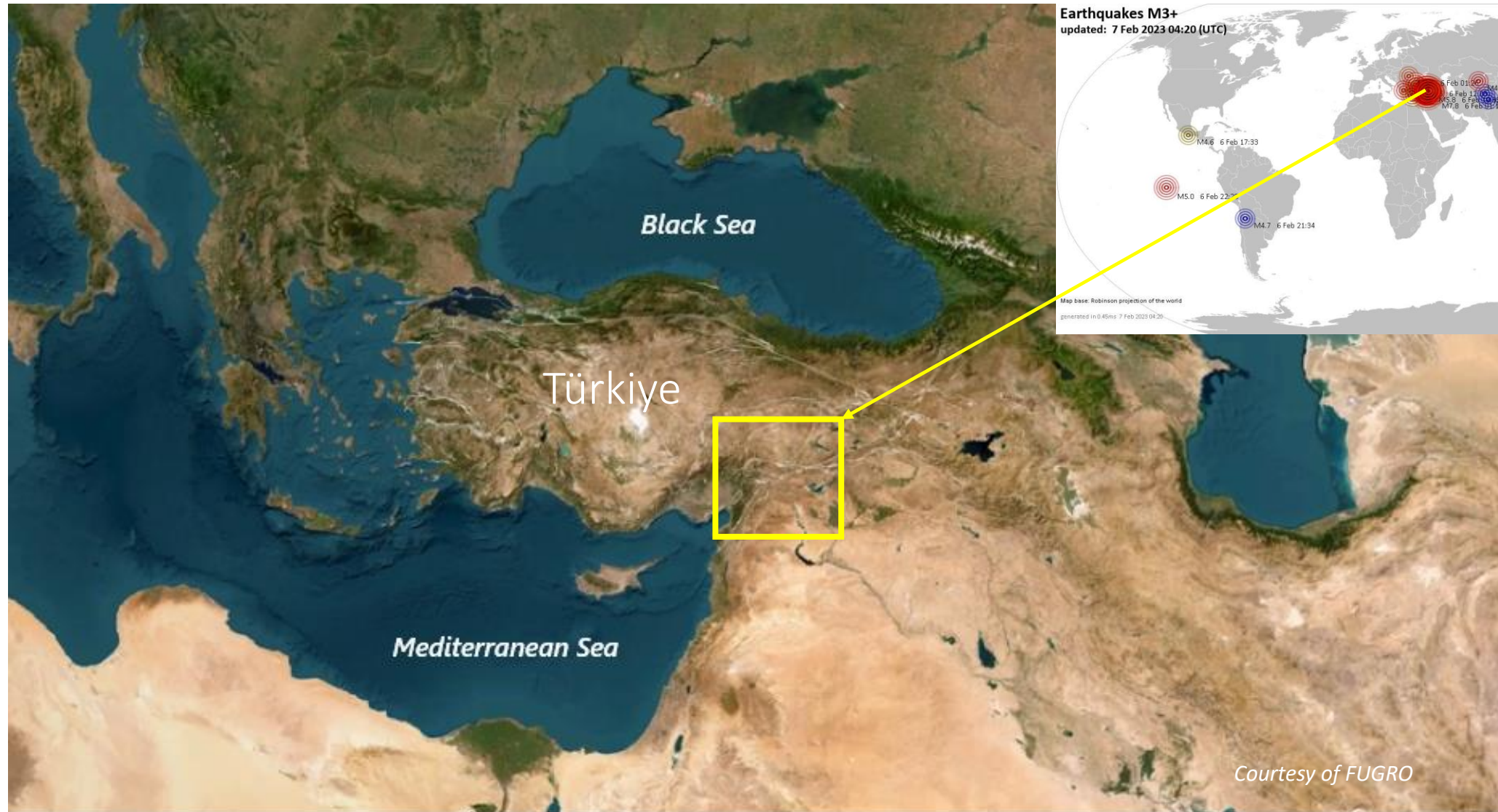
TIME: 13.24

7,6 KAHRAMANMARAŞ / ELBİSTAN

3 major earthquakes
nine hours apart



THE 6 FEBRUARY 2023 EARTHQUAKES _ THE LOSSES AND ECONOMIC IMPACTS



THE 6 FEBRUARY 2023 EARTHQUAKES _ THE LOSSES AND ECONOMIC IMPACTS





Kahramanmaraş
Pazarcık
7,7
Elbistan
7,6

Gaziantep
İslahiye
6,5

Gaziantep
Nurdağı
6,4

Karamanmaraş
Adana
Mersin
Hatay
Kilis
Şanlıurfa
Diyarbakır
Elazığ
Malatya
Bingöl
Muş
Van
Bitlis
Siirt
Batman
Şırnak
Hakkari

GÜRCİSTAN

SÜRİYE

İRAK

SUUDİ ÜRDÜN

SUUDİ ARABİSTAN

FİLİSTİN

LÜBNAN

MİSİR

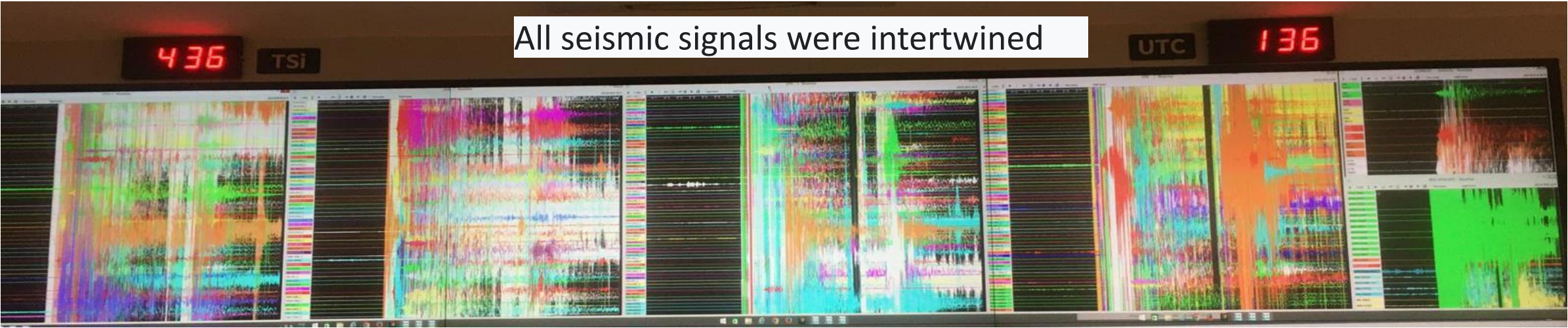
KKTC

Büyüklik:7.4
(MW)
Yer:Pazarcık (Kah
ramanmaraş)
Tarih:06-02-2023
Saat:04:17:34 TSI
Enlem:37.236 N
Boylam:37.057 E
Derinlik:7 km
Detay:[https://
deprem.afad.gov
.tr/event-detail
/408326](https://deprem.afad.gov.tr/event-detail/408326) B002

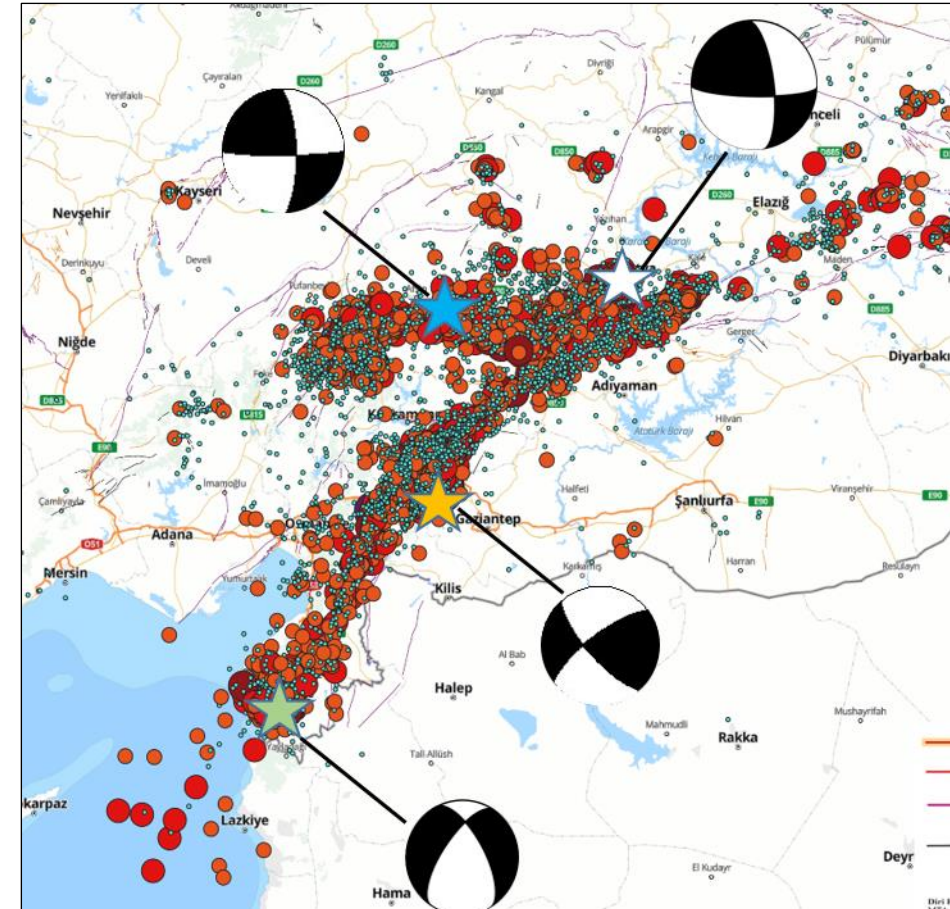
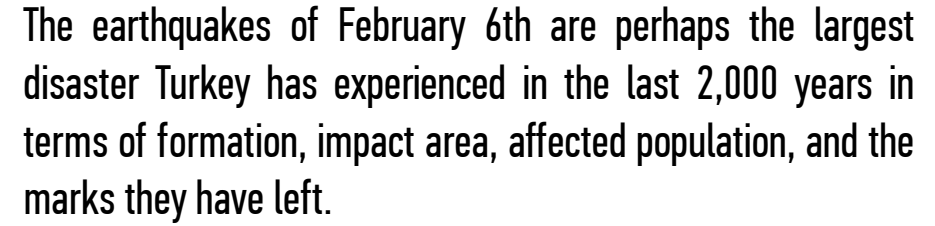
SEISMIC SIGNALS RECEIVED IMMEDIATELY AFTER THE FIRST SHOCK AT AFAD STATIONS

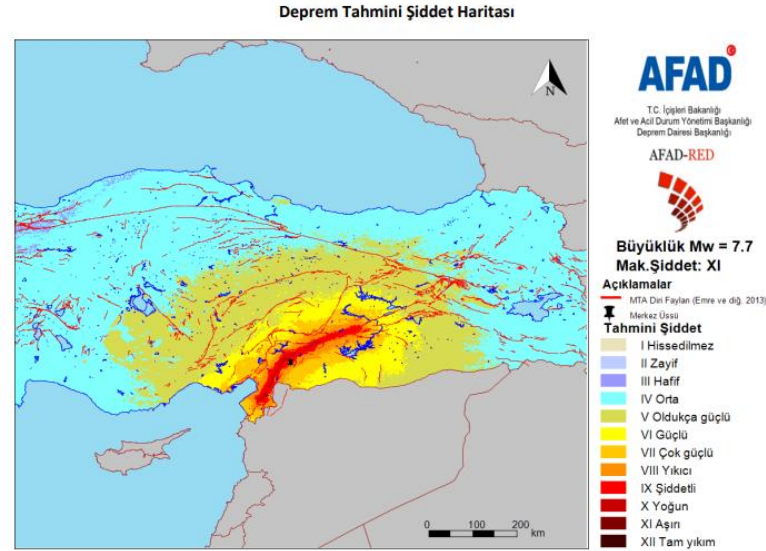


All seismic signals were intertwined



TÜRKİYE CUMHURİYETİNİN YÜZÜNCÜ YILI





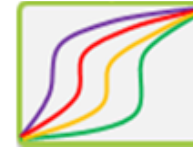
AFAD Earthquake
Monitoring and
Evaluation Center

Online EQ
Control

AFAD-RED

Analyse Parameters

- Geology – Vs30
- Building info
- Population
- Critical infrastructures
- Active Faults
- KYH



Fragility curves



Attenuation relationship

- Village-neighborhood
- District
- City
- Intensity based (Seismic Intensity) damage and loss estimations,
- Critical structures, transportation and transmission lines,
- Seismic intensity, PGA, PGV, Ss, S1.



Fifteen minutes after the earthquake, we received the first automatically generated report on the earthquake's size and impact from the AFAD Red System. The system is capable of making automatic and manual solutions after a real earthquake and can give estimated damage and loss of life calculations.

6 FEBRUARY EARTHQUAKES- WEATHER CONDITIONS & EQ LIGHTNING

The moment of the earthquake
in Gölbaşı



WEATHER
ON 5-6 FEB 2023

The night with the
harshest winter
conditions of the year.



6 FEBRUARY EARTHQUAKES- GENERAL INFORMATION

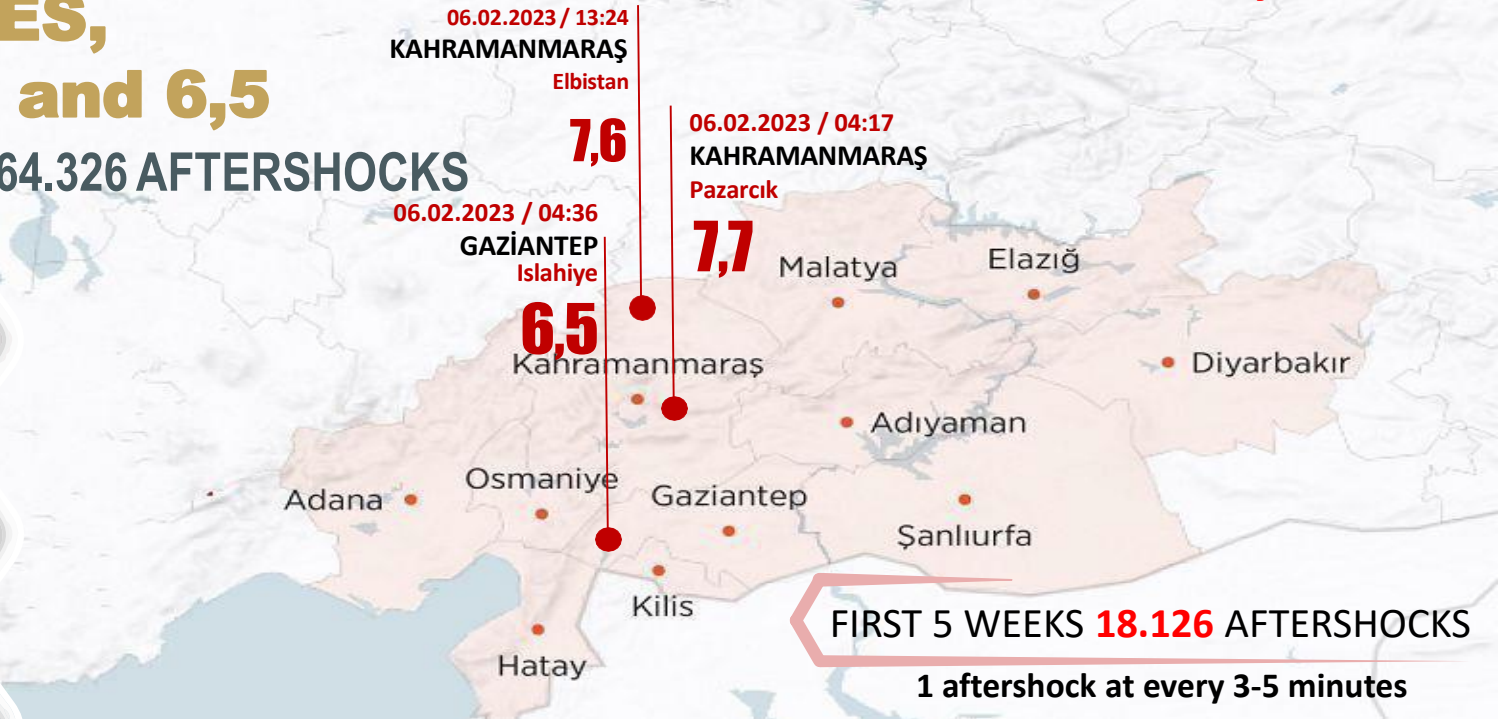
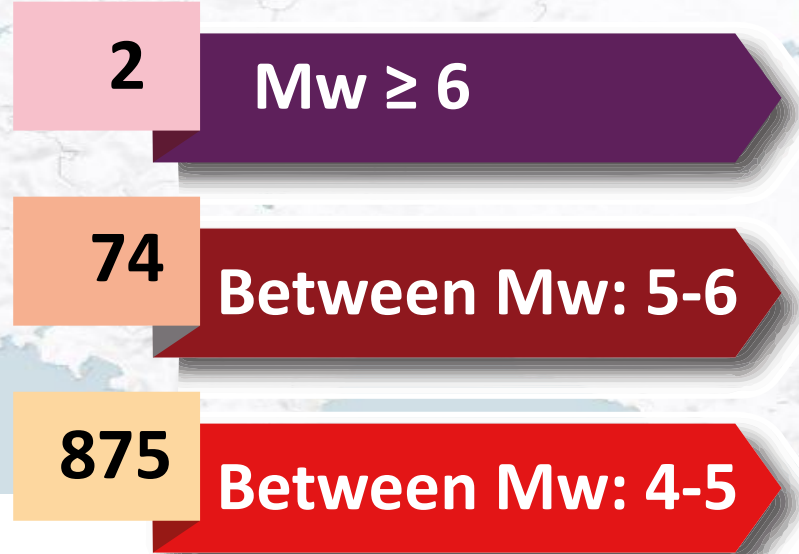
The earthquake occurred at 04:17 was declared as **Level 4** (International Assistance Call) **45 minutes later**, at 05:02.

ON THE SAME DAY
3 LARGE EARTHQUAKES,
MAGNITUDES 7,7 - 7,6 and 6,5
IN TOTAL, 7 LARGE EARTHQUAKES, 64.326 AFTERSHOCKS

11 CITIES

124 Districts, 6929 Villages

62 Districts Heavily affected



FIRST 5 WEEKS 18.126 AFTERSHOCKS

1 aftershock at every 3-5 minutes

SINCE 1st JANUARY 2023, 92.000 EARTHQUAKES IN TURKIYE

COMPARISON OF SIZE & POPULATION OF THE EQ AFFECTED AREA

Size of some countries with compare to the earthquake affected area



120.000 km²

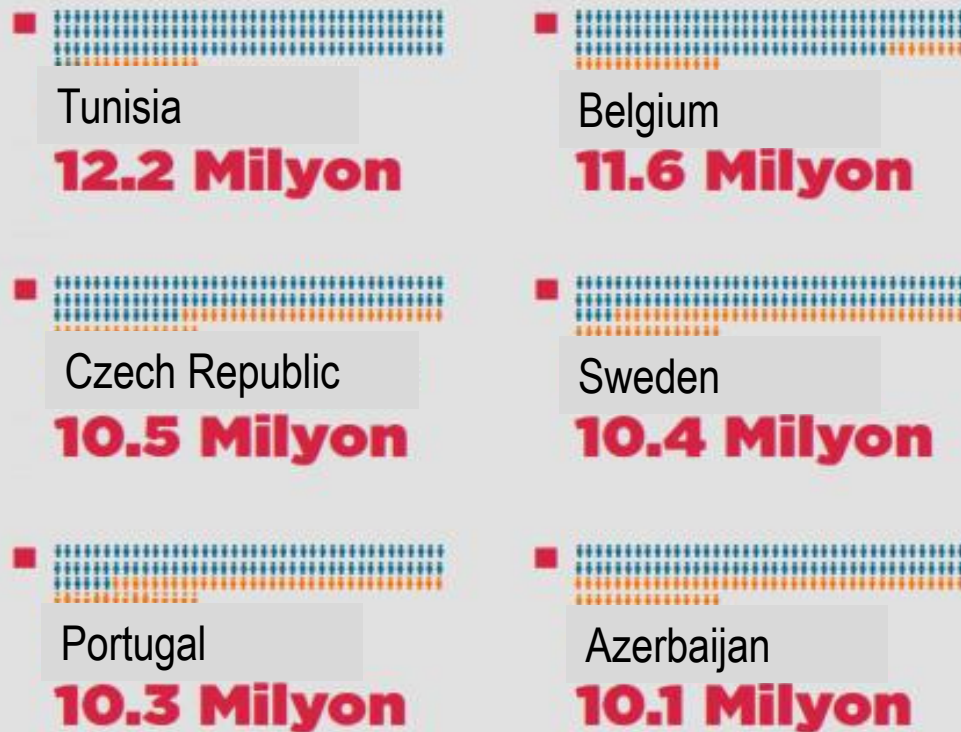
Total affected area



The area directly affected by the earthquake is larger than many countries in Europe. Three times larger than Switzerland, the Netherlands, and Denmark, and larger than the area of Bulgaria. The population directly affected is about **18 times larger** than the population of **Seattle**.

Total Population of the Earthquake Area

14.000.000

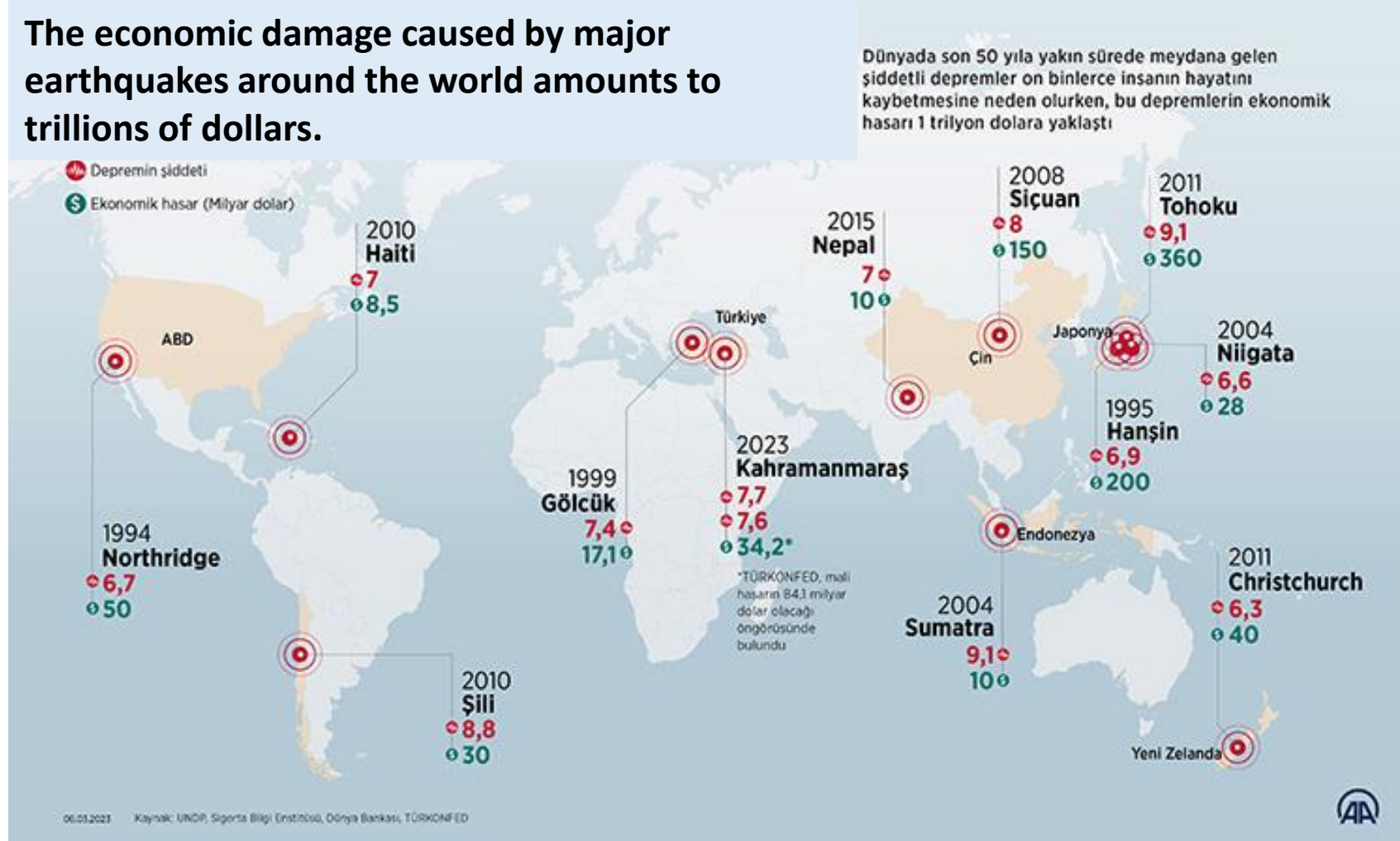


570 KM SURFACE BREAK
COMPARISON OF RUPTURE LENGTH WITH THE LAND PIECES OF SOME COUNTRIES



The economic loss caused by the earthquake is **104 billion dollars**

The economic damage caused by major earthquakes around the world amounts to trillions of dollars.



According to official accounts from 2023, the cost of the February 6th earthquakes to the Turkish economy reached **104 billion dollars** (approximately 10 % of Turkey's annual GDP). Various reports and academic studies estimate that the damage caused by the destruction of housing and physical capital alone could amount to **70 billion dollars**.

SURFACE RUPTURE OF THE FIRST SHOCK (Mw 7.7)



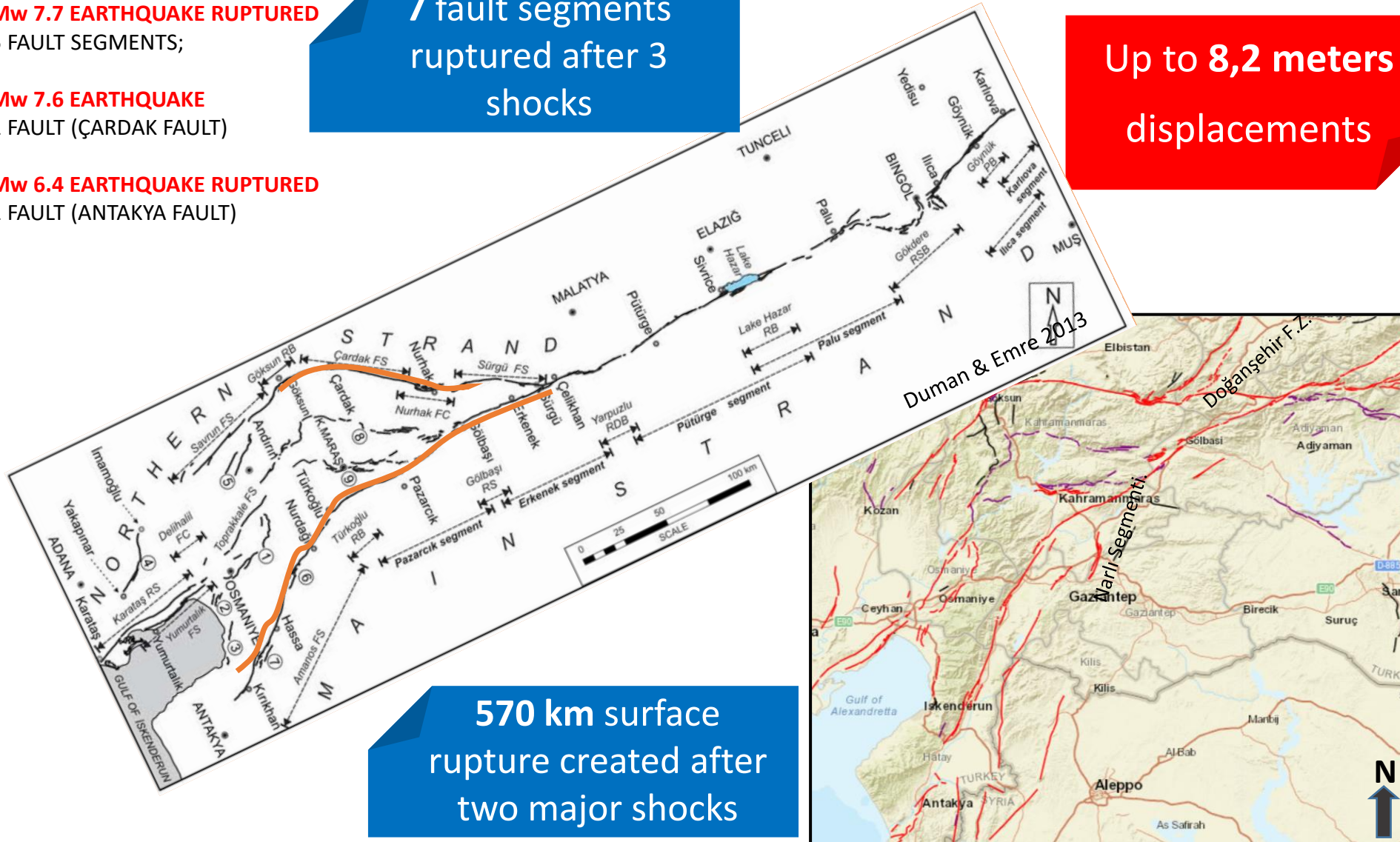
Mw 7.7 EARTHQUAKE RUPTURED
5 FAULT SEGMENTS;

Mw 7.6 EARTHQUAKE
1 FAULT (ÇARDAK FAULT)

Mw 6.4 EARTHQUAKE RUPTURED
1 FAULT (ANTAKYA FAULT)

7 fault segments
ruptured after 3
shocks

Up to 8,2 meters
displacements



570 km surface
rupture created after
two major shocks

Mw 7.7, Mw 7.6 and Mw 6.4 earthquakes created surface ruptures on the **Narlı, Amanos, Gölbaşı-Pazarcık, Erkenek, Çardak-Göksun** segments of the East Anatolian and Antakya Fault Zones.

A new active fault segment oblique to Doğanşehir Fault formed a **25 km** surface break.

LOSS OF LIFE & WOUNDED



53.707

**LOSS OF
LIFE**



107.213

WOUNDED



6th February 2023 Earthquakes...

Response

- *Search & Rescue*
 - *Evacuation*
 - *Temporary Sheltering*
 - *Daily Services, Nutrition*
 - *Psychosocial Support*
-

- Governorates
- Provincial Disaster and Emergency Management Directorates
- Local Authorities
- Turkish Red Crescent



TÜRKİYE DISASTER RESPONSE PLAN (TAMP)

TURKISH DISASTER RESPONSE PLAN

10 MAIN SOLUTION PARTNERS

8 MINISTRIES

2 INSTITUTIONS

Presidency of Republic of Türkiye	1
Presidency of Communication	1
Ministry of Family and Social Services	2
Ministry of Env. Urb. and Climate Change	5
Ministry of Energy and Natural Resources	1
Ministry of Treasury and Finance	1
Ministry of Interior	2
Ministry of Transport and Infrastructure	4
Ministry of Health	1
Ministry of Agriculture and Forest	1
Turkish Red Crescent	1

AFAD 7

Disaster Working Group

YERELDÜZEY
23

Local Level

ULUSALDÜZEY
25

National Level



Disaster Response Groups & Responsible Units

Bilgi Yönetimi Değerlendirme ve İzleme	AFAD
İletişim	Cumhurbaşkanlığı İletişim Başkanlığı, AFAD
Haberleşme	Ulaştırma ve Altyapı Bakanlığı
Nakliye	Ulaştırma ve Altyapı Bakanlığı
Güvenlik ve Trafik	İçişleri Bakanlığı
Tahliye, Yerleştirme ve Planlama	İçişleri Bakanlığı
Sağlık	Sağlık Bakanlığı
Ulaşım Altyapı	Ulaştırma ve Altyapı Bakanlığı
Yangın	Çevre Şehircilik ve İklim Değişikliği Bakanlığı
Arama Kurtarma	AFAD
Enerji	Enerji ve Tabii Kaynaklar Bakanlığı
Hasar Tespit	Çevre Şehircilik ve İklim Değişikliği Bakanlığı
Altyapı	Çevre Şehircilik ve İklim Değişikliği Bakanlığı
Beslenme	Türk Kızılay
Enkaz Kaldırma	Çevre Şehircilik ve İklim Değişikliği Bakanlığı
Tarım, Orman, Gıda, Su ve Hayvancılık	Tarım ve Orman Bakanlığı
Barınma	AFAD
Kimliklendirme ve Defin	Çevre Şehircilik ve İklim Değişikliği Bakanlığı
Psikososyal Destek	Aile ve Sosyal Hizmetler Bakanlığı
Teknik Destek ve İkmal	Ulaştırma ve Altyapı Bakanlığı
Aynı Bağış, Depo Yönetimi ve Dağıtım	Aile ve Sosyal Hizmetler Bakanlığı
Uluslararası Destek ve İşbirliği	AFAD
Finans ve Kaynak Yönetimi	AFAD
Ulusal ve Uluslararası Bağış	AFAD
Zarar Tespit	Hazine ve Maliye Bakanlığı

The **Presidency AFAD Center** evaluates and declares the level of the incident **based on the initial and complementary information** received from the Provincial AFAD Center regarding disaster and emergency events, considering the type and scale of the incident.

Local resources are sufficient

Support from neighboring provinces is needed

National support is needed
(1st and 2nd Group Support Provinces+National Capacity)

International support is needed
(1st and 2nd Group Support
Provinces+National+International Capacity)



Forty-five minutes after the earthquake, a **Level 4** international aid request was made.

OUR AFFECTED PROVINCES and OUR 1st and 2nd SUPPORT PROVINCES.

- According to the Türkiye Disaster Response Plan, in the event of a disaster, 1st and 2nd group support provinces have been designated for each province.
- Significant challenges were encountered in disaster management because the support provinces designated for our affected provinces were also impacted by the disaster.

Etkilenen İl	Adana	Adıyaman	Diyarbakır	Elazığ	Gaziantep	Hatay	Kahramanmaraş	Kilis	Malatya	Osmaniye	Şanlıurfa
1. Grup Destek illeri	Mersin	Erzincan	Şanlıurfa	Erzincan	Mersin	Adana	Mersin	Adana	Erzincan	Mersin	Diyarbakır
	Osmaniye	Bingöl	Mardin	Tunceli	Osmaniye	Osmaniye	Adana	Osmaniye	Tunceli	Adana	Mardin
	Kahramanmaraş	Malatya	Siirt	Bingöl	Kahramanmaraş	Kahramanmaraş	Osmaniye	Kahramanmaraş	Elazığ	Kahramanmaraş	Siirt
	Gaziantep	Elazığ	Şırnak	Malatya	Kilis	Gaziantep	Gaziantep	Gaziantep	Adıyaman	Gaziantep	Şırnak
	Kilis	Kahramanmaraş	Batman	Adıyaman	Hatay	Kilis	Kilis	Hatay	Diyarbakır	Kilis	Batman
	Hatay	Gaziantep	Adıyaman	Diyarbakır	Adıyaman		Hatay		Kahramanmaraş	Hatay	Gaziantep
	Niğde	Şanlıurfa	Malatya		Şanlıurfa		Adıyaman		Sivas		Adıyaman
		Diyarbakır	Elazığ				Sivas				
			Bingöl				Malatya				
			Muş				Kayseri				
2. Grup Destek illeri	Kayseri	Tunceli	Bitlis	Sivas	Kayseri	Şanlıurfa	Şanlıurfa	Şanlıurfa	Gaziantep	Kayseri	Elazığ
	Konya	Kilis	Erzurum	Erzurum	Malatya	Kayseri	Niğde	Malatya	Kayseri	Adıyaman	Kahramanmaraş
	Malatya	Kayseri	Kayseri	Şanlıurfa	Adana	Mersin	Diyarbakır	Mersin	Bingöl	Şanlıurfa	Malatya

- Affected Provinces
- Our support provinces that sustained severe damage.
- Our support provinces that felt the earthquake.
- Support Provinces

DISASTER AND EMERGENCY MANAGEMENT CENTER AT AFAD

The President and his cabinet visited AFAD twice to coordinate the efforts at the Disaster Management Center. Ministers were assigned to the earthquake zone and the AFAD Disaster Management Center. The Disaster and Emergency Management Center remained operational for approximately four months under the scope of the Türkiye Disaster Response Plan.



DISASTER AND EMERGENCY MANAGEMENT CENTER AT AFAD & PRESS RELEASE

Scientists were invited to AFAD. On the first day of the earthquake, the public was informed every half hour, and in the following days, press conferences were held every 1 to 6 hours.



CRUCIAL COORDINATION IN İSTANBUL AFAD CENTER

After the earthquake, Istanbul was among the most critical provinces. All international aid and the coordination of search and rescue teams were managed at the Istanbul AFAD Disaster Management Center by the Istanbul Governor at that time, now the Minister of Interior, Ali Yerlikaya.



Ali Yerlikaya, İstanbul Valisi olarak 6 Şubat depremlerinin hemen ardından yürütülen koordinasyon çalışmalarını AFAD İstanbul İl Müdürlüğünde yakından takip ediyor, AA 2023.

AFAD



İstanbul Havalimanı'nda arama kurtarma ekipleri 11 ilimizi bölgelerine sevk ediliyor, AA, 2023.

SEARCH & RESCUES ACTIVITIES

21.453

National Search & Rescue

11.488

From 90 Countries
International
Search & Rescue

2.309

AFAD Search & Rescues

TOTAL

National and International Search and Rescue Staffs

35.250

26.032 ruins Search & Rescue

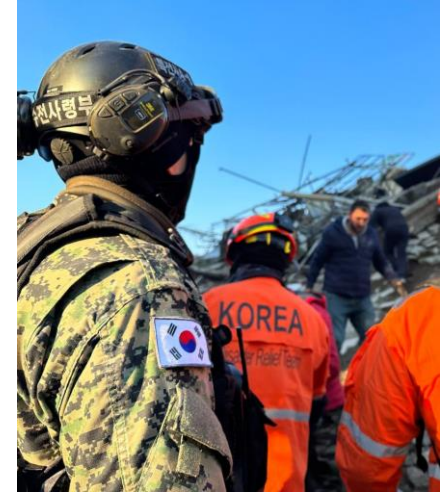
39.000 ruins Search



On the first day of the earthquake, AFAD was heavily criticized for being late in responding. However, the reality was not like that!

At least **75** search and rescue personnel are required to work on a 24-hour basis at each debris site. A total of **1,952,400** search and rescue personnel were needed for 26,000 debris sites. The number of certified and trained search and rescue personnel worldwide is **742,163**.

INTERNATIONAL SEARCH & RESCUE TEAMS



11.488 From 90 Countries
158 from USA+NGO's

*I would like to extend my heartfelt thanks to
all for their solidarity!*

SEARCH & RESCUE ACTIVITIES



SEARCH & RESCUE ACTIVITIES



There were people who were rescued alive 296 hours (on the 13th day) after the earthquake.



100.000 SEARCH AND RESCUE PERSONNEL IN THE 100TH YEAR OF REPUBLIC OF TURKIYE

- "We are forming a **100,000-person search and rescue team** with public institutions, organizations, and NGO's."



TOPLAM 97.075 KİŞİYE DEPREMDE ARAMA KURTARMA EĞİTİMİ VERİLMİŞTİR.

YEAR 2023 CAPACITY	MARCH 2024	APRIL 2024	MAY 2024	JUNE 2024	JULY-AUGUST	TOTAL
35.681	13.306	4.540	8.967	11.415	19.384-3.782	97.075



INCREASING OUR TRAINING FACILITIES AND INSTRUCTOR CAPACITY

1.168

Search and Rescue Instructor

Increased from 793 to 1.168

134

Search and Rescue Training Centers

Increasing from 20 to 142

134 Training center completed.



INCREASING THE NUMBER OF AFAD SEARCH AND RESCUE STAFFS

We are increasing the number of AFAD search and rescue personnel from 2,670 to 5,601 by recruiting 2,931 additional search and rescue personnel.

2.931

**NEW SEARCH AND
RESCUE STAFFS**



ESTABLISHING THE MOST MODERN AND COMPREHENSIVE TRAINING CENTER IN THE WORLD IN ANKARA



ETİMESGUT



170 BİN m² CAPACITY



MANAGEMENT, EDUCATION
AND ACCOMODATION



STORAGE AREA



DOG TRAINING AREA



ADVANCED DRIVING
TECHNIQUES TRAINING AREA



PENTATHLON TRAINING AREA



SHELTERING AND
HUMANITARIAN TRAINING AREA



SURFACE WATER
UNDERWATER & HIGH ANGLE
S&R TRAINING AREA



DISASTER-AFFECTED AREA
TRAINING AREA



URBAN SEARCH&RESCUE
TRAINING AREA



FIRE TRAINING AREA



CBRN TRAINING AREA



TRANSPORTATION ACCIDENTS
TRAINING AREA



ACTIVITY OF NGO's IN THE FEBRUARY 6 EARTHQUAKES

*In the aftermath of the earthquake, the number of Civil Society Organization (CSO) S&R teams deployed was **385 in the first 6 hours**, reaching **938 by the 12th hour**.*

*The number of Civil Society Organization (CSO) team members deployed in 11 of our provinces reached **10,000 within 24 hours**.*

Approximately 60,000 of our Civil Society Organization members have served in the region.



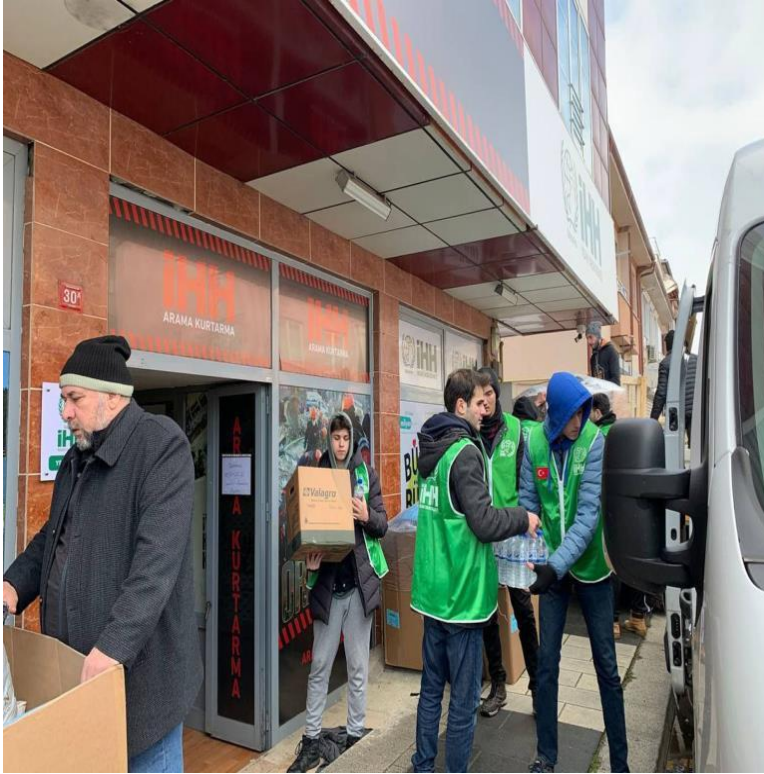


WELL AND STRONG COORDINATION WITH NGO's



ACTIVITY OF NGO's IN THE FEBRUARY 6 EARTHQUAKES

From search and rescue to food, shelter, and humanitarian aid, we are working to help the earthquake victims with the support of our Civil Society Organizations from the first moment of the earthquake till now.



Within the AFAD Accreditation system, there are **253 accredited teams** and **7,544 members** from public institutions and organizations, non-governmental organizations, and the private sector.

INCREASED THE NUMBER OF ACCREDITED TEAMS

TOTAL 253 TEAMS & 7.544 INDIVIDUALS ACCREDITED

4
FIELDS

We are preparing an Accreditation Guide in the fields of Medical Search and Rescue, Damage Assessment, Search and Rescue in the Field, and Search and Rescue in Floods and Rivers.

6
GUIDES

In addition to the guides on Urban Search and Rescue, Disaster and Emergency Training, Nutrition, In-Kind Donation Warehouse Management, and Psychosocial Support, we have published the Emergency Shelter Accreditation Guide in Disasters, increasing the number of our accreditation fields to six.

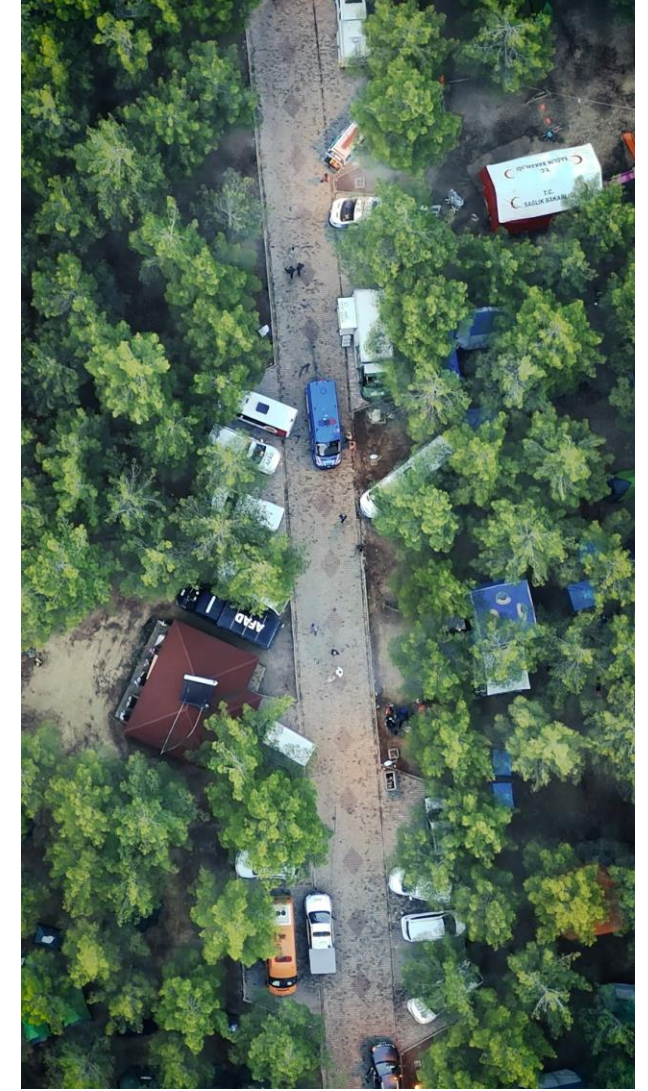
253
TEAMS

We have increased the number of accredited teams, composed of public institutions, non-governmental organizations, and the private sector, by 141 to reach a total of 253. We have also increased the number of accredited individuals to 7,544.



CAMP PROGRAM FOR ACCREDITED SEARCH AND RESCUE TEAMS

The camp program started 2 weeks ago and will continue in 7 different regions. In this way, it is aimed for search and rescue teams to get to know each other and bond in a social environment, as well as to develop their basic search and rescue skills over the course of the 3-day program.



AFAD VOLUNTEERS IN THE FEBRUARY 6 EARTHQUAKES

Number of trained AFAD Volunteers sent to the field on the **first day** of the earthquake

11.000

Number of AFAD Volunteers sent to the field

35.409

Number of Local Support Teams

16.158

TOTAL

AFAD Volunteers and Local Support Teams

51.567

In the first hours of the earthquake, thousands of AFAD volunteers flocked to Istanbul Airport.



INCREASING THE NUMBER OF SUPPORT AFAD VOLUNTEERS TO 100 THOUSANDS

In our AFAD Volunteering System, the number of volunteers, which was 623,000 before the February 6 earthquake, has significantly increased after the earthquakes and reached 1,520,263

	After June 2023	TOTAL
Volunteer Application	108.321	1.520.263
Basic AFAD Volunteers (Completed Mandatory Online Education)	32.805	309.968
Support AFAD Volunteers (Completed field training)	29.480	55.808
Volunteers Awaiting Field Training	14.440	131.728



SECURITY AND SUPPORT PERSONNEL

As part of security and traffic works;
74.033 Police, 65.465 Gendarne, 3.362 Quard,
Total 142.860
security and traffic personnel.

From several ministries and institutions;
Total 650.000 personnel
response and recovery works.



EXCAVATORS & AIRCRAFTS

Vehicles &
Excavators
20.000



Helicopter
141



Aircrafts
182



Ship
37



TOTAL SORTIES 17.500



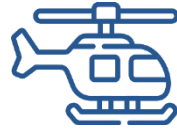
20.000

Vehicles and Excavators



141

Helicopters



182

Aircrafts



37

Ship



17.500

Sorties



A total of 20,000 vehicles and construction machines, 141 helicopters, 182 aircraft, and 37 ships were deployed. Air assets were used for medical evacuations, personnel transportation, material delivery, and firefighting operations, with 17,500 sorties carried out.

*Thanks to the well-developed international airline network, aid was rapidly delivered to the earthquake region under the leadership of Turkish Airlines (THY). Additionally, approximately **200,000 aid trucks** were sent to the region.*

Turkish Airlines

→ **13.701** FLIGHTS

→ MORE THAN **2 MILLION**
PASSENGERS

712 CARGO FLIGHTS

32 . 770 TONS

RELIEF SUPPLIES



Airway
521.481

Highway
92.022

Railway
34.026

Seaway
1.278

Self
1.357.137

Transport expenses paid
1.543.499

Total **3.549.443** evacuated from the disaster area in the first week.



Additionally;



Over **280.000** personnels transferred into the region

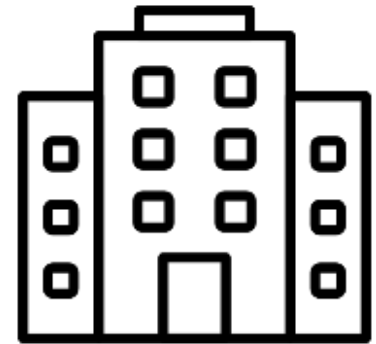


Before and after general elections in May, Total of **992.666** people were travelled into region and their expenses were covered by AFAD.



120.000 students travelled into region for the University entrance examinations in June.

PROVINCES WITH THE MOST EVACUATIONS



TEMPORARY SHELTERING / GUEST HOUSES, DORMITORIES

LOCAL GUEST HOUSES & DORMITORIES



(max number reached)

1.188.218

people accommodated

477.952 in dormitories

710.266 in guest houses, pensions



THE "TÜRKİYE TEK YÜREK" DONATION CAMPAIGN



On February 15th, a large-scale donation campaign was broadcast live across all television channels nationwide.

Many TV hosts, football players, movie stars, and presidents of Super League football clubs participated in this live broadcast and supported the campaign.

As a result of the donation campaign, 139 billion Turkish liras (**4.1 billion US dollars**) were raised. This money is being used for recovery efforts in the earthquake-affected region.





"Let my house be your home" campaign

"If you have an unused home, consider supporting earthquake-affected families by either offering it rent-free or renting it at a discounted rate"

RENTING HOUSE

354.375 Properties
(**1.424.632** persons)



169.455 HOUSE OWNERS

184.920 TENANTS

Each month; ~ 50 million USD in average

So far; **775 million USD**

- paid **over 16** months

In addition to rental support payments;

10.000 ₺ Individual Support Payment

1.995.978 Houses, 19.959.780.000 ₺

15.000 ₺ Home Moving Support

568.624 Houses, 8.529.360.000 ₺

100.000 ₺ Death Benefit

41.061 Family relatives, 4.106.100.000 ₺

3.000 ₺ Evacuation Support Payment

3.131 Families, 57.201.000 ₺

59.714.726.500 ₺

Cash aid paid

A total of

76,315,222,191 ₺

has been allocated for expenditures under the scope of demolition/debris, institutional payments, and the provision of tents and containers, which have been transferred to the Governorate and are included in centralized procurement expenses.

TOTAL

138.062.379.713 ₺

TRANSFERRED INTO THE REGION

> 4 BILLION US DOLLARS

ESEN CASH CARD PAYMENTS

As of August 15, 2023, the ESEN Card system has been implemented in coordination with AFAD and the Turkish Red Crescent (Kızılay), for families staying in container cities.

ESEN CASH CARDS **4.500 TL/PER MONTH**

Total 300 MILLION TL/Month

11 Provinces
66.206
FAMILIES

The ESEN Card has been distributed to households whose homes are **moderately or severely damaged** and whose income, according to SOYBIS, is less than one-third of the minimum wage per capita.

IN 2023 3.000 ₺/Month
706.767.000 ₺

IN 2024 4.500 ₺/Month
2.187.633.500 ₺

SO FAR

83.000.000 USD

LOADED ON THE CASH CARD



TEMPORARY SHELTERING – TENTS

350 Tent Cities

645.000 Tent setup

1 MILLION TENTS SENT TO THE REGION

2,500.000 People

179.000 Tent Cities

2.000.321 Private Tents

714.000 Beds

728.000 Heaters

1.000.000 Linens

5.000.000 Blankets





Total Blanket
4.520.958



Total Washing Machine
5.433



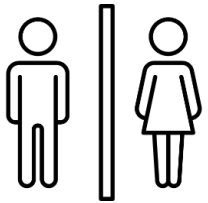
Total Bed
488.115



Total Drying Machine
3.258



Total Heater
709.760



Total Portable WC
18.850



Total Showers
9.187



INSTALLATION OF CONTAINER CITIES

Container exports were banned for 3 months.



INSTALLATION OF CONTAINER CITIES



TEMPORARY SHELTERING – CONTAINER CITIES

426

Container Cities

221.548

Containers

705.217

People accommodated

Transported on 110.000
trailer trucks, infrastructure

Construction

We are in need of new, easily
transportable, easy-to-use, and
reusable temporary shelter
technologies.



Hatay/ İskenderun



Kahramanmaraş/ Afşin

CONTAINER CITIES



- 105.000 VENTILATORS,
- 149.305 AIR CONDITIONERS.



CONTAINER HOUSING COMPLEXES



TEMPORARY TRADING HOUSES

10.865 Temporary Trade Houses constructed in the disaster area





AFAD markets were established in the container cities. AFAD volunteers worked in these markets, and the earthquake survivors living in the container cities were able to meet their needs free of charge.

ACCOMMODATION WAS PROVIDED IN MILLIONS OF EARTHQUAKE VICTIMS

1 MILLION TENTS WERE DISPATCHED



ACCOMMODATION HAS BEEN PROVIDED FOR **2.5 MILLION** DISASTER VICTIMS IN **350 TENT CITIES**.

FOR THE TRANSPORTATION OF TENTS TO THE EARTHQUAKE AREA

7 TRAINS

166 SHIPS

758 AIRPLANE and

2.417 TRAILER TRUCKS WERE DEPLOYED

ACCOMMODATION WAS PROVIDED IN PUBLIC FACILITIES



478,000 IN KYK DORMITORIES, 710,000 IN TEACHER'S HOUSES, AND A TOTAL OF **1,188,218** DISASTER VICTIMS WERE ACCOMMODATED IN FACILITIES INCLUDING THE MINISTRY OF NATIONAL EDUCATION (MEB) AND HOTELS

LET MY HOME BE YOUR HOME CAMPAIGN

IN 1.427 HOUSES, 5.093 PEOPLE WERE ACCOMMODATED

221.000 CONTAINERS INSTALLED



- IN **221.000 CONTAINERS** **707.000** EARTHQUAKE VICTIMS ARE CURRENTLY BEING ACCOMMODATED.
- **67,000 ESEN CARDS** HAVE BEEN DISTRIBUTED TO ENABLE CITIZENS LIVING IN CONTAINERS TO DO THEIR GROCERY SHOPPING.

- "Along with alternative structures and security services, we are working to provide disaster survivors with urban life through our social facilities, including *schools, prayer rooms, playgrounds, mobile kitchens, psycho-social support areas, and health centers.*"
- "Additional infrastructure installations to prevent flooding have been completed, and measures have been taken against roof leaks."
- "Preventive measures against electrical leaks have been implemented. Lightning protection systems have been installed and completed."



*"The established container cities cover an area of **16.4 km²**. This area is larger than **16 districts** in our country and **2 countries** in Europe, Monaco and Vatican."*

*"When stacked, **222,000 containers** cover an area larger than **70 Mount Everests** or **760 football fields.**"*

*"When lined up end-to-end, the **120,137 trucks** used for container transport would create a queue stretching from the **Kapıkule border gate** in NW to the **Esendere border gate** in SE Türkiye."*

NUTRITION AND DAILY FOOD SERVICE / as of 14 April



Hot meal
264.196.003

Soup
18.635.230

Mobile Kitchen
352

Catering Vehicle
86

Fast Food
14.477.997

Beverage
14.564.186

Food Parcel
27.459.230

Bath/Washing Units
73

Water
65.996.245 lt.

Bread
261.050.342

Mobile Bakery
55

Service Vehicle
539



Total 2,620 Personnel, **1,536** of whom are **Volunteers**



12 Million breads are produced daily. Approximately **4 Million** are distributed to Disaster Survivors.

NUTRITION AND DAILY FOOD SERVICE

- 312 MOBILE KITCHENS
- 57 MOBILE BAKERY,
- 17 SERVICE VEHICLES

An average of **4 million people/meals per day** were provided with food services.

(Coordinated by AFAD / Turkish Red Crescent, NGO's and Public Institutions)

12 Million breads were produced daily. Approximately **4 Million** were distributed to Disaster Survivors.

- A total of **20 million food parcels** have been distributed, 2 million of which were provided by AFAD, with the rest delivered by the Red Crescent, NGOs, municipalities, philanthropists, and various institutions.



DAILY MEAL SERVICE



Nutrition Service

4 Million

Daily Meal Assistance

20 Million

Food Parcel

150 Thousand

Aid Trucks





4 Mobile Social Service Center,
deployed to Kahramanmaraş,
Hatay, Osmaniye and Malatya.

Personnel
10.021

Vehicle
1874



"A total of
2,261,345 people
in the earthquake-
affected area have
received psychosocial
support."



Special Education
59 Support Tents
322 Students
95 Teachers

Guidance and Psychological
counselor
3824
Student and Parents
Inside EQ Region
914.380
Outside EQ Region
867.199

Nursery
39

Primary School
127

Secondary
168

High School
277

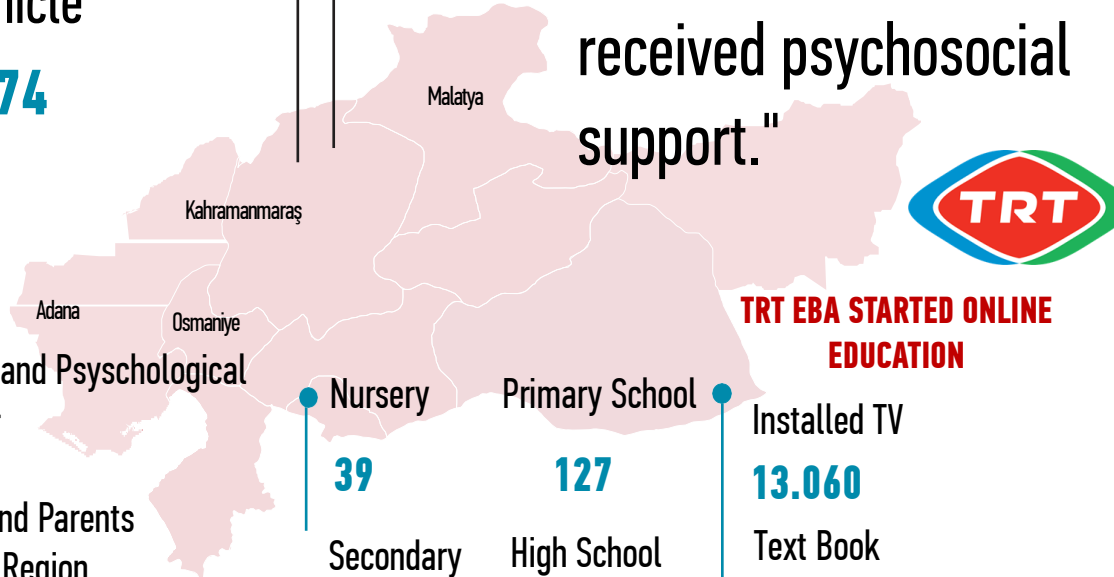
Psychosocial Support
381 Tent Areas

**TRT EBA STARTED ONLINE
EDUCATION**

Installed TV
13.060

Text Book
26.000.000

Stationary Set
200.000





Appointed Ambulance / UMKE (National Medical Rescue Team) Staff and Vehicles



VEHICLE

UMKE

389

Ambulance

1.267



PERSONNEL

UMKE

5.075

Ambulance

10.703



Tent Unit

Emergency Response
Unit

126

Heavy Climate

10

Personnel

Accommodation

116

IN-KIND DONATION AND WAREHOUSE MANAGEMENT OPERATIONS / AS OF 14 APRIL 2023



Ministry of Family and Social Services



16 International In Kind Warehouse
71 In Kind Warehouse



18 provinces, total **87** In Kind Warehouse



Earthquake area; Total 203 Social Markets
Outside Earthquake Area; Total 94 Social Markets



3.259.927 blankets



2.493.087 sacks of firewood delivered to earthquake victims.



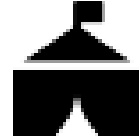
3.998.041 L water in warehouses



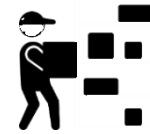
574 vehicles



20.609 aid trailer trucks



462.746 tents



3.319 personnel



573.809 heaters



IN-KIND DONATIONS AND LOGISTICAL WAREHOUSE MANAGEMENT



LOGISTICAL WAREHOUSE MANAGEMENT



LOGISTICAL WORKS



Number of Countries Offering Assistance:
103

FIELD HOSPITAL

34

ACTIVE HOSPITALS

16

Aids sent as part of International Assistance:



Search and Rescue Teams



Tent



Container, Power Generator



WC/Shower



Field Hospital



Aid in kind and in Cash



ASSISTANCE PROVIDED BY THE UNITED STATES FOLLOWING THE FEBRUARY 6TH EARTHQUAKES

Search and Rescue and Medical Teams

86 search and rescue personnel and six dogs from the United States were deployed in the provinces of Adiyaman and Hatay.

Financial Aid

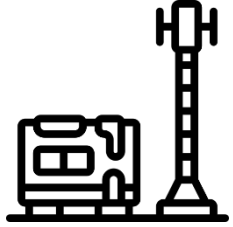
The total amount of U.S.-sourced donations transferred to AFAD accounts is 4,100,000 dollars.

In Kind Assistance

A total of 6,303 tents sent by the United States were delivered to Adana and various other locations. Additionally, a total of 34 portable toilets and one portable shower were sent by U.S. citizens and NGOs.



Blanket	Sleeping Bag	Bed	Power Generator	Heater	Dress	Hygiene Medical	Food	Others
41935	16942	91	25	22	126 Ton	67	21 Ton	30 Ton



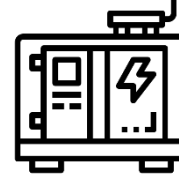
366

Base Station



8

Emergency Calls
Vehicle



3.447

Power Generator

1.901 base stations
in the earthquake
was maintained.



1.997

Personnel

80 satellite
communication
terminals were
dispatched to the
region.





Ministry of Environment, Urbanization
and Climate Change

Kahramanmaraş
Gaziantep, Adıyaman
Osmaniye
Malatya
Hatay

In all provinces where there was a
drinking water failure, the failure
was resolved **within a week**



Personnel
500

Vehicle
142

Infrastructure damage in the provinces after the
earthquake was detected and quickly repaired.

Inspections have been carried out
on all of the existing drinking water
facilities belonging to **172** local
governments.

Repairs have been completed on
storage facilities, pumping stations,
transmission lines, and all similar
structures belonging to **79** local
governments.



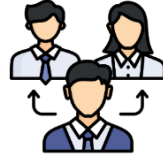
Ministry of Agriculture and
Forestry



Animal Tent
10.846

Animal Feed
15.998 ton

Pet Food
47,15 ton



Number of
Personnel
14.387



Aid Truck
732



Firewood
68.280 ton



Legumes / Oil /
Wheat Flour /
Miscellaneous Food
/ Meat
32.811,33 ton

AGRICULTURE AND ANIMAL HUSBANDRY WORKS

Collapsed / Heavy Damaged Barns	Cattle (Died)	Sheep (Died)	Collected Milk (Ton)	Distributed Feed (Ton)	Distributed Animal Tent	Protected Cattle	Protected Sheep
17.782	8.480	70.761	81.925	15.998	10.846	1.521	3.979





After the earthquake in Turkey and Syria, a total of **497** aid trucks and **5** ambulances from our country and other countries passed through our country and reached Syria.



A total of **364** aid trucks crossed into Syria through the Cilvegözü Customs Directorate, including **193** from the United Nations and **171** from other non-governmental organizations.



A total of **96** aid trucks have reached Syria, including **18** from Qatar and **78** from the Disaster and Emergency Management Authority (AFAD).



55 aid trucks from Iraq have crossed into Syria through the Habur Customs Directorate.



5 ambulances trucks from Iraq have crossed into Syria through the Öncüpınar Customs Directorate.



1012 Aid Trucks



10 Ambulances

6 FEBRUARY EQ's GOVERNOR & STR's APPOINTMENTS FOR STRONG COORDINATION

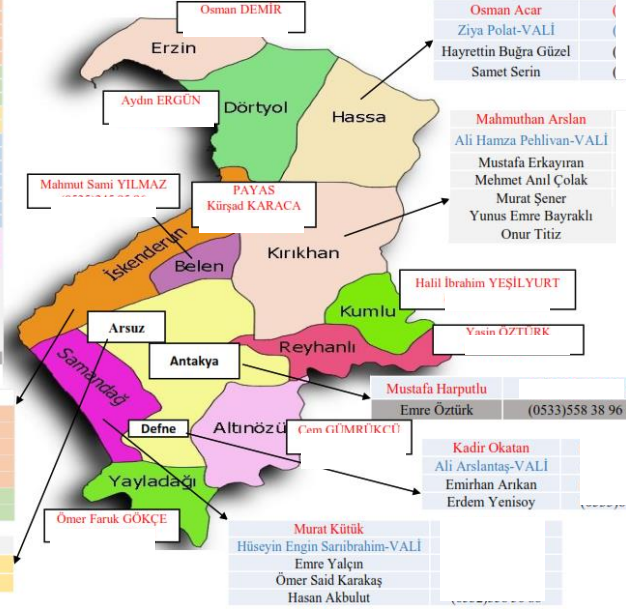
HATAY-I

MERKEZDE GÖREVLENDİRİLEN MİA

İsmail Sündük	
İskender Yönden	
Ali Fuat ARSLAN-VALİ	
Burak Dertlioğlu	
Mustafa Gürbüz	
Kadir Ulusoy	
Hamit Genç	
Kübra Eroğlu	
Ali Çelik-VALİ	
Fatih Acar	
Tahir Şahin	
Mustafa Masatlı-VALİ	
Ahmet Gencer	
Hüseyin Kürşat Kırbayık-VALİ	
Eyyüp Batuhan Çigerci	
Zekeriya Gökçer	
Mustafa Adil Tekeli	
Mehmet Alper Çiğ	
Mustafa Can	
Tarkan Keskin	
Mehmet Makas-VALİ	
Ömer Faruk Canpolat	
Mehmet Erdem Akbulut	
Okay Memiş-VALİ	
Harun Reşit Han	
Buğra Karadağ	
İbrahim Süha Karaboran	
Recep Koşal	
Osman Hacıbektaşoğlu-VALİ	
Vahdettin Özkan-VALİ	

Murat Sefa Demiryürek	
Hüdayar Mete Buhara-VALİ	
Serdar Kaya	
Turgay Ünsal	
Mevlana Kürkcü	
Harun Arslanargun	
Birol Ekici-VALİ	
Sançar Batuhan Kuru	

Hacı Hasan Gökpinar	
Ahmet Açıkgöz	
Musa Ayyıldız	



Kahramanmaraş Pazarcık Depremi Sonrası Koordinasyonda Görevlendirilen Mülki İdare Amirleri - Valler									
S.N.	ADI SOYADI	DÖN.	GÖREV YERİ	GÖREVLENDİRİLDİĞİ İL-İLÇE	GÖREVLENDİRİLEN TELEFON NO	MEVCUT MİA	DÖN.	MEVCUT MİA TELEFON NO	
1	Abdullah Ayaz	89	Çankırı	Adıyaman-Besni		Çağlar PARTAL	102	(	
2	Numan Hatipoğlu	83	Tokat	Adıyaman-Gölbahşı	(053.	İhsan AYRANCI	99	(	
3	Tuncay Sonel	84	Ordu	Adıyaman-Merkez		Mahmut ÇUHADAR	79	(	
4	Mehmet Ali Özkan	87	Tunceli	Adıyaman-Merkez		Mahmut ÇUHADAR	79	(	
5	Oktay Çağatay	87	Bitlis	Adıyaman-Merkez		Mahmut ÇUHADAR	79	(	
6	Kadir Ekinci	88	Bingöl	Gaziantep-İslahiye		Mustafa ANTEPLİOĞLU	87	(	
7	Yakup Canbolat	81	Bursa	Gaziantep-Merkez		Davut GÜL	87	(	
8	Osman Bilgin	87	Şırnak	Gaziantep-Nurdağı		Sinan KORKMAZ	107	(	
9	Mahmut Demirtaş	80	Mardin	Gaziantep-Nurdağı		Sinan KORKMAZ	108	(	
10	Ali Arslantaş	87	Burdur	Hatay-Defne		Kadir OKATAN	81	(	
11	Ziya Polat	86	Yozgat	Hatay-Hassa		Osman ACAR	107	(	
12	Hüdayar Mete Buhara	86	Kırşehir	Hatay-İskenderun		Murat Sefa DEMİRYÜREK	86	(	
13	Birol Ekici	79	Kırklareli	Hatay-İskenderun		Murat Sefa DEMİRYÜREK	86	(	
14	Ali Hamza Pehlivan	87	Mersin	Hatay-Kırkhan		Mahmuthan ARSLAN	91	(	
15	Mustafa Masatlı	83	Amasya	Hatay-Merkez		Rahmi DOĞAN	84	(	
16	Osman Hacıbektaşoğlu	83	Siirt	Hatay-Merkez		Rahmi DOĞAN	84	(	
17	Vahdettin Özkan	79	Konya	Hatay-Merkez		Rahmi DOĞAN	84	(	
18	Ali Fuat Atik	87	Denizli	Hatay-Merkez		Rahmi DOĞAN	84	(	
19	Ali Çelik	87	Kütahya	Hatay-Merkez		Rahmi DOĞAN	84	(	
20	Hüseyin Kürşat Kırbayık	87	Edirne	Hatay-Merkez		Rahmi DOĞAN	84	(	

59 Governors,
302 District and/or Deputy Governors
347 STR
Total 708 STR
assigned to the earthquake region

GOVERNOR'S APPOINTMENTS TO THE EARTHQUAKE REGION FOR STRONG COORDINATION



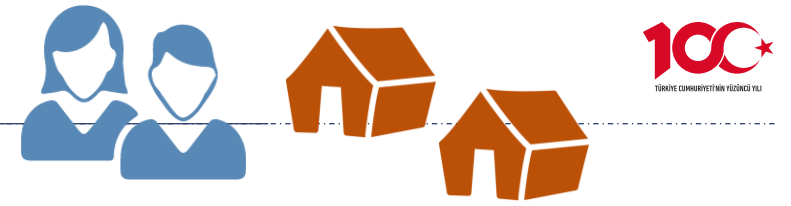
LAW 7269 REGARDING MEASURES TO BE TAKEN AND ASSISTANCE TO BE PROVIDED IN CASE OF NATURAL DISASTERS AFFECTING PUBLIC LIFE

ARTICLE 1-...

In the event of a disaster, **the governor of the affected region is authorized to take the emergency measures required under this Law.**

ARTICLE 3- According to Article 2, **technical specifications to be applied to all official and private structures to be rebuilt, altered, expanded, or substantially repaired in declared disaster areas shall be determined by a regulation** prepared by the Ministry of Environment and Urbanization, taking into account the opinion of the Ministry of Public Works. **Municipalities within their boundaries and, if applicable, adjacent areas, as well as governors and district governors in areas outside of municipal boundaries, are responsible for ensuring compliance with these regulations.**





ARTICLE 6 – (Değişik: 2/7/1968-1051/1 md.)

After disasters occur, **governors and district governors (excluding military personnel and judges) are authorized to assign tasks to all males aged between 18 and 65, to requisition any kind of vehicles, both public and private, as well as necessary machinery, tools, and equipment, with the costs, fees, or rents to be paid later, and to make urgent purchases and leases without any formalities or ceremonies, such as medical treatment, rescue, feeding, clothing, and sheltering, as well as to requisition all kinds of immovable properties belonging to the State, local administrations, foundations, Economic State Enterprises, and affiliated institutions, and if necessary, to temporarily occupy buildings, outbuildings, gardens, and lands such as plots belonging to other legal entities and natural persons.**

The duration of exercising this authority is 15 days from the end of the disaster. This period may be extended by the Ministry of Environment and Urbanization if necessary.

Cash payments to disaster victims for feeding, clothing, sheltering, and repairs, as well as expenditures for prevention, are subject to the approval of the Ministry of Environment and Urbanization.

Expenditures and payments made under this article shall not be subject to indebtedness.

Governors and district governors in the vicinity of the disaster area, upon request for assistance, are obliged to provide aid with all available means and resources by exercising the powers specified in the preceding paragraphs.

ARTICLE 14 – (Değişik: 2/7/1968-1051/1 md.)

- ✓ In cities, towns, and villages included in the disaster areas determined and declared pursuant to the second article, **areas deemed hazardous by engineering boards and identified with boundaries on sketches are considered prohibited disaster areas for construction and habitation by the Ministry of Environment and Urbanization.**



The situation is immediately announced by the municipality in areas with municipalities and by the village councils in villages. Municipalities in areas with municipalities and village councils in other areas are responsible for enforcing the prohibition of construction and habitation in these designated disaster areas

- ✓ **In case of non-compliance, existing and under-construction buildings shall be demolished upon the order of governors and district governors,** with the demolition costs to be covered from the debris material, and the remaining portion, if insufficient, to be supplemented from the disaster fund. **The boundaries of the prohibited disaster areas may be narrowed or completely lifted in proportion to the preventive measures taken against the danger.** This matter shall also be announced accordingly



DISINFORMATION AFTER THE EARTHQUAKES



Deprem Dezenformasyon
Bülteni (8 Şubat 2023)



Deprem Dezenformasyon
Bülteni (7 Şubat 2023)



Deprem Dezenformasyon
Bülteni (6 Şubat 2023)



Deprem Dezenformasyon
Bülteni (13-14 Mart 2023)

EARTHQUAKE DISINFORMATION BULLETIN RELEASED BY PRESIDENCY OF COMMUNICATION
BETWEEN FEBRUARY 6 – MARCH 14

Sosyal Medya ve WhatsApp Gruplarında “AFAD Uyarısı” Başlığıyla Paylaşılan Bazı İddialar

Bazı sosyal medya hesapları ve WhatsApp gruplarında paylaşılan “AFAD’dan uyarı” başlıklı iddialar gerçek dışıdır.

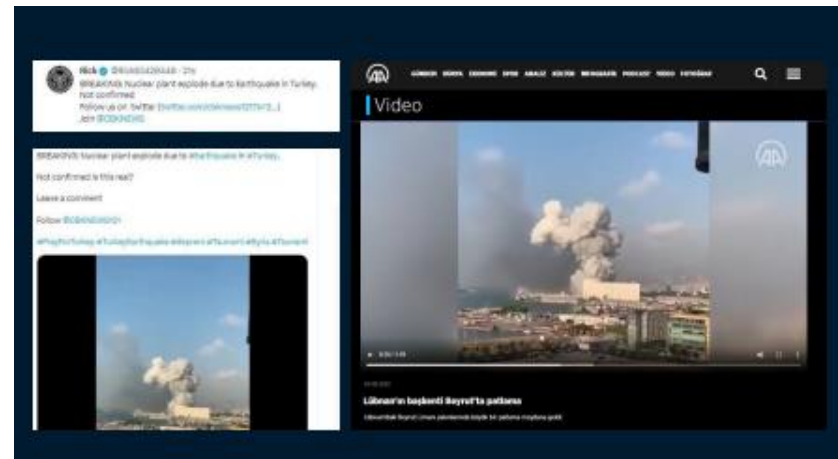
“Deprem Sonrasında Atatürk Barajı’nda Çatlaklar Oluştı” İddiası

Bazı sosyal medya hesaplarında yer alan “Deprem sonrasında Atatürk Barajı’nda çatlaklar oluştu” iddiası **doğru değildir**.

“Türkiye’deki Deprem Sırasında Nükleer Santral Patladı” İddiası

HAKİKAT | İddiaya konu görüntüler 4 Ağustos 2020 tarihinde, Lübnan’daki Beyrut Limanı’nda meydana gelen patlamaya aittir.

The claims that a nuclear power plant exploded during the earthquake in Turkey, AFAD issued a warning for a new and major earthquake, and cracks formed in the Atatürk Dam (one of the largest dam of the World) after the earthquake.



“Hatay’da Baraj Patladı” İddiası

HAKİKAT | AFAD, Devlet Su İşleri İdaresi ve bölgede afetle ilgili çalışma yürüten ekiplerden edinilen bilgilere göre, Hatay’da meydana gelen herhangi bir baraj patlaması söz konusu değildir.

Bohşın Köyü Hatay Sınırı baraj patladı, 2. Baraj da patlamak üzere. Köy sular altında kaldı.

@AFADBaskanlik @ahbap

ÖÖ 12:44 · 11 Şub 2023 · 9.537 Görüntülenme

Prof.Dr.Vahit Kirişçi @VahitKirisçi · 8s
Hatay'da Yarseli Baraj'ının patladığı yönündeki iddialar ASİLSİZDİR.

Deprem bölgesindeki baraj ve göletlerimiz anlık olarak takip edilmektedir.

Prof.Dr.Vahit Kirişçi @VahitKirisçi

Benzer bir dezenformasyon Atatürk Barajı ile ilgili de üretilmiş, yerinde incelemelerle kamuoyunu bilgilendirmişti.

Yanm da Hatay'daki barajlarımızı yerinde inceleyeceğim. Bu süreçte resmi kurumların bilgilendirmeleri dışındaki malumata itibar edilmemesi büyük önem taşımaktadır.

ÖÖ 12:18 · 11 Şub 2023 · 44.2B Görüntülenme

The claim that a dam burst in Hatay.

“Kahramanmaraş’taki Depreme ABD’li Şirketin Açtığı 6 Bin Metrelik Petrol Kuyusu Sebep Oldu” İddiası

HAKİKAT | Kahramanmaraş ili sınırları dahilinde günümüze kadar 3 adedi Türkiye Petrolleri A.O. Genel Müdürlüğü ve 1 adedi özel şirketlerin müştereken olmak üzere toplam 4 adet sondaj kuyusu açılmıştır. Bu kuyularda petrol ve gaz emaresine rastlanılmamıştır. Bölgede, iddia edildiği gibi 6 bin metre derinlikte kuyu bulunmamaktadır.

The claim that the 6,000-meter-deep oil well drilled by a U.S. company caused the earthquake in Kahramanmaraş.

“Kahramanmaraş’ta Volkanik Hareketlilik Var” İddiası

HAKİKAT | Bölgede herhangi bir lav akması, volkanik kül, petrol veya gaz çıkışı söz konusu değildir. Ayrıca bölgede volkanik patlama oluşturacak kayaç grubu da bulunmamaktadır.

Görüntülerdeki toz bulutu, deprem etkisiyle basit bir kütle hareketi sonucu meydana gelmiştir.

The claim of volcanic activity in Kahramanmaraş.

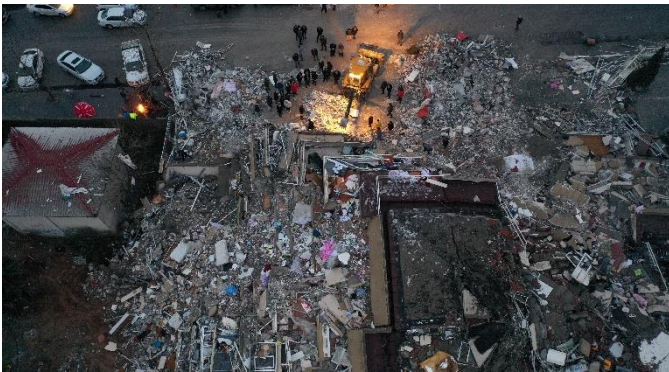
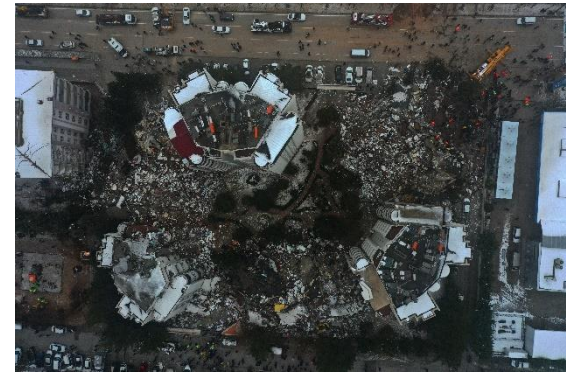
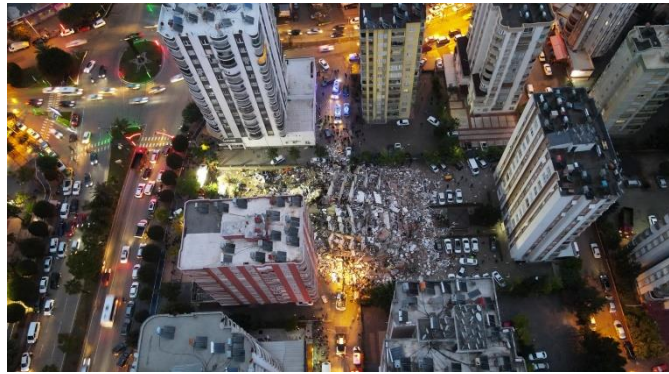
6th February 2023 Earthquakes...

Recovery

- ***Damage Assessments***
 - ***Structural Damages***
 - ***Maintaining Infrastructures***
 - ***Right Ownership***
 - ***Permanent Houses***
-



STRUCTURAL DAMAGES



STRUCTURAL DAMAGES



Hatay'ın Güzelburç Mahallesi'nde yıkılan binaların havadan genel görünümü, AA, 2023.

AFAD



Adiyaman şehir merkezinde depremin ardından 04.17'de duran saat kulesi, İHA, 2023.

AFAD

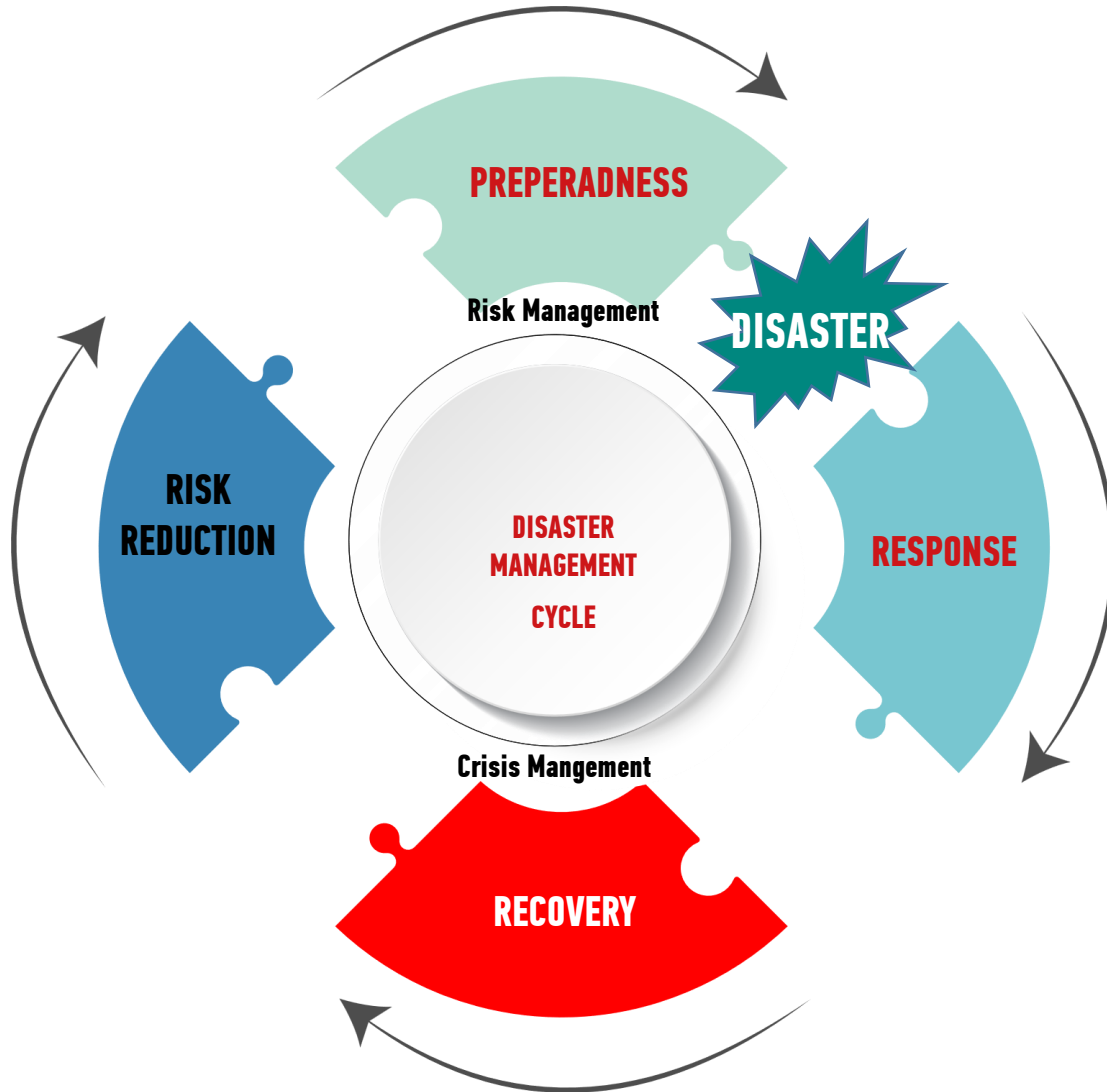
DAMAGE ON ROADS



Depremelerin ardından bazı köy yollarında meydana gelen büyük tahribat, AA, 2023.

AFAD





RECOVERY AFTER DISASTER

- Rapid return to normal life
- Economical vitality
- Maintaining infrastructures
- Supporting industry and trade
- Training public
- Social and psychological support
- Making society more resilient to a possible new disaster

DAMAGE ASSESMENT WORKS

Damage assesment has been conducted in collaboration with Ministry of Environment, Urbanization and Climate Change 2 million buildings and 6.6 million independent units in 18 provinces.

2.381.674 Buildings

6.615.354 Independent Units

Damage assesment carried out.

Medium to Heavy Damage

313.537 BUILDINGS

816.996 INDEPENDENT UNITS
DETERMINED.



676.704

House



25.556

Barn

114.717

Trade House



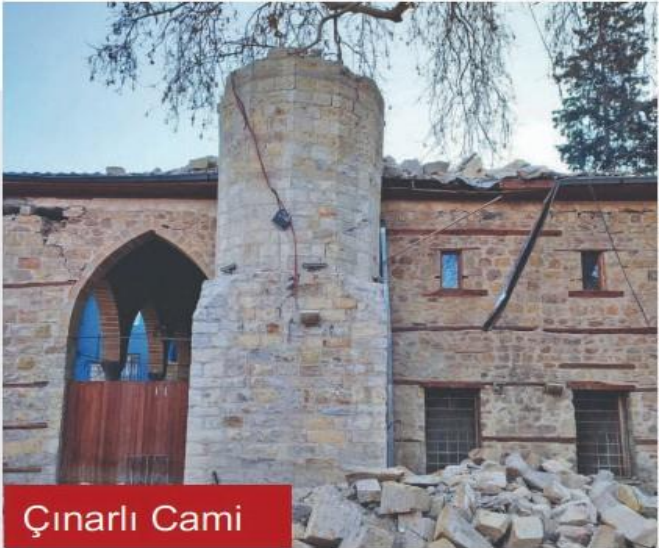
KAHRAMANMARAŞ

HISTORICAL AND CULTURAL ASSETS DAMAGED IN THE EARTHQUAKE

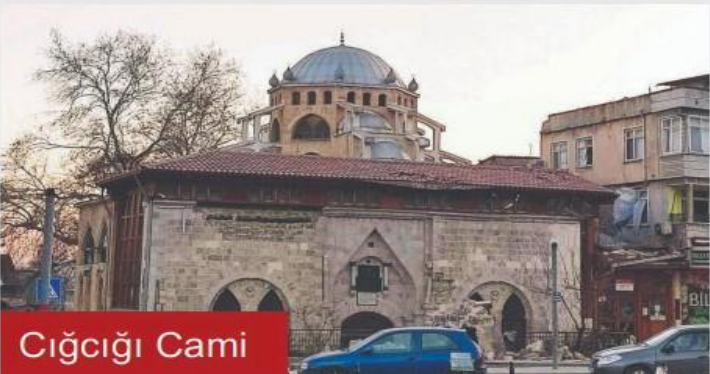
DAMAGED HISTORICAL AND CULTURAL ASSETS



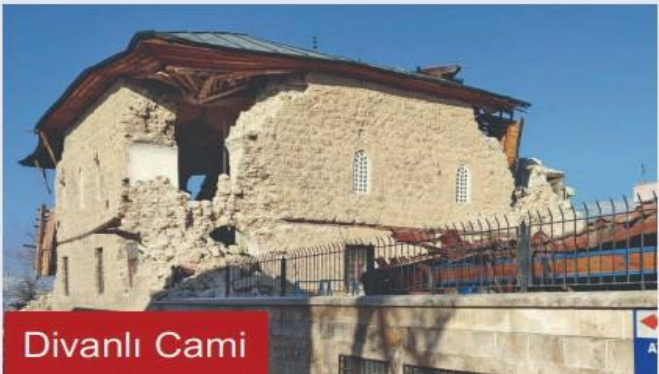
Ulu Cami



Çınarlı Cami



Cıgıcı Cami



Divanlı Cami

Total Number of Collapsed or Damaged Historical and Cultural Assets

In **11** provinces;

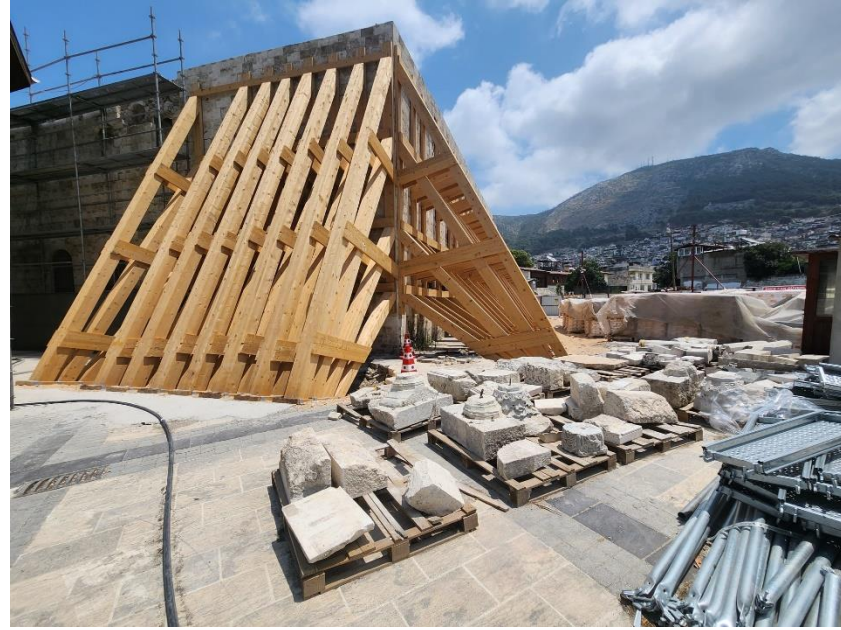
Total **3.905** cultural heritages inspected.

Fully Collapsed	218
Heavy Damaged	635
Medium Damaged	418
Low Damaged	208
Undamaged	1.829
Others	3

Approximate total cost of restoration of
cultural assets

56,3 milyar TL / 1.7 Billion USD

HISTORICAL AND CULTURAL ASSETS DAMAGED IN THE EARTHQUAKE



Restoration work on many damaged historical and cultural structures in the earthquake zone is ongoing. These efforts are being carried out by the Ministry of Culture and Tourism, as well as some major municipalities.

DEBRIS REMOVAL

All the debris from 60,675 collapsed and urgently to be demolished buildings has been removed in 68 days

(1 MARCH - 7 MAY 2023)

200.693 HEAVY DAMAGED BUILDINGS.

The debris of **176,871** out of 194,546 buildings (**32 million m³** out of **34 million m³**) to be demolished has been removed.

**BY VOLUME
REALIZATION RATE**

%94

**BY NUMBER OF BUILDINGS
REALIZATION RATE**

%91



ONE OF THE LARGEST RIGHT OWNERSHIP EFFORTS OF THE CENTURY

In 11 provinces, 124 districts, and 6,929 villages, the entitlement process, which started on May 30, 2023, was completed in just 211 days on December 25, 2023.

- **845.371** APPLICATIONS EVALUATED,
 - **30 MILLIONS** DOCUMENTS LOOKED OVER,
 - **20 MILLION PAGES, 85.000 COMMISSION DECISION TAKEN**
- 454.848 RIGHT OWNERSHIPS APPROVED**

402.123

Single House

41.914

Trade House

11.811

Barn



With extraordinary effort, operating **24 hours a day** in 3 shifts without closing the offices, **2,500 personnel** have worked in **146 entitlement offices**.

PERMANENT HOUSES CONSTRUCTED IN 11 PROVINCES AFTER 6 FEBRUARY EARTHQUAKES

 **454.848 RIGHT OWNERSHIP**

402.123 Houses,
41.914 Trade Houses,
11.811 Barns

294.346
HOUSING TENDER WAS HELD
237.056 URBAN – 57.293 VILLAGES

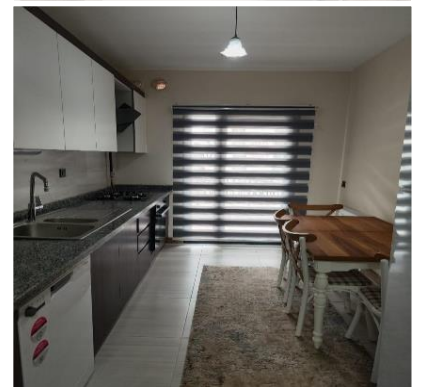
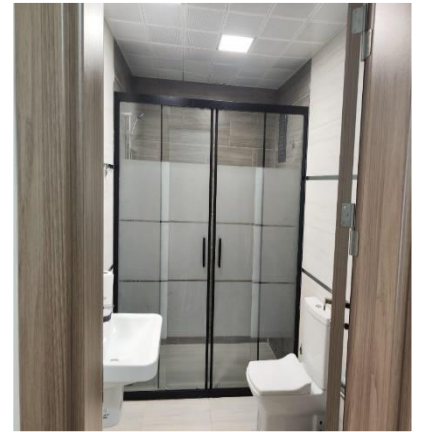
WE DRAW LOTS FOR PERMANENT
RESIDENCES AND DELIVER THEM TO
THE RIGHTFUL OWNERS.



MALATYA



KAHRAMANMARAŞ



OWNERSHIP OF RIGHT (OR) FOR PERMANENT HOUSES

FOR 18 PROVINCES 179 DISTRICTS 8.474 NEIGHBORHOODS 2.472 VILLAGES

Ownership stages started at **30 May 2023** (110 days after the EQ)

30 Millions documents checked over and approved.

845.371 requests evaluated.

HOUSE

406.575

TRADING HOUSE

42.136

BARN

12.900



HOUSE, TRADING HOUSE, BARN

TOTAL OR

461.611

SINGLE SPACES

(**343.720** Cities, **117.891** Countryside)

**CONTRACTS FOR PERMANENT
HOUSES 294.346**

TO BE/BEING BUILT 116.972

**COMPLETED PERMANENT HOUSES
HANDLED IN AS OF 05.09.2024**

100.000

DONE CONTRACTS FOR TRADE HOUSES

14.868

TO BE/BEING BUILT 22.692

PERMANENT HOUSES



ADANA



MALATYA



DİYARBAKIR



OSMANİYE



GAZİANTEP



KAHRAMANMARAŞ

PERMANENT HOUSES

The actions taken so far after the February 6 earthquakes are unquestionably the largest post-disaster recovery operation in the world.



PERMANENT HOUSES / 100.000 completed and 200.000 by the end of year



THE LARGEST PERMANENT HOUSING CONSTRUCTION IN HISTORY CONTINUES



HATAY



MALATYA



DIYARBAKIR



HATAY

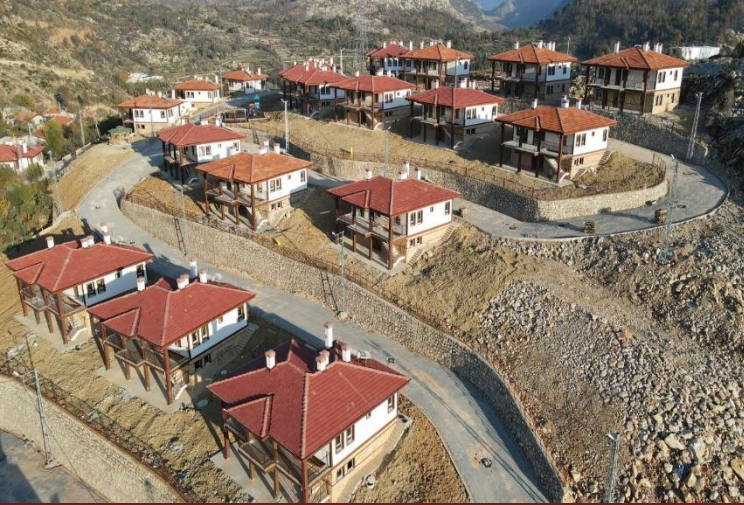


GAZİANTEP



KAHRAMANMARAŞ

THE LARGEST PERMANENT HOUSING CONSTRUCTION IN HISTORY CONTINUES



ŞANLIURFA



MALATYA



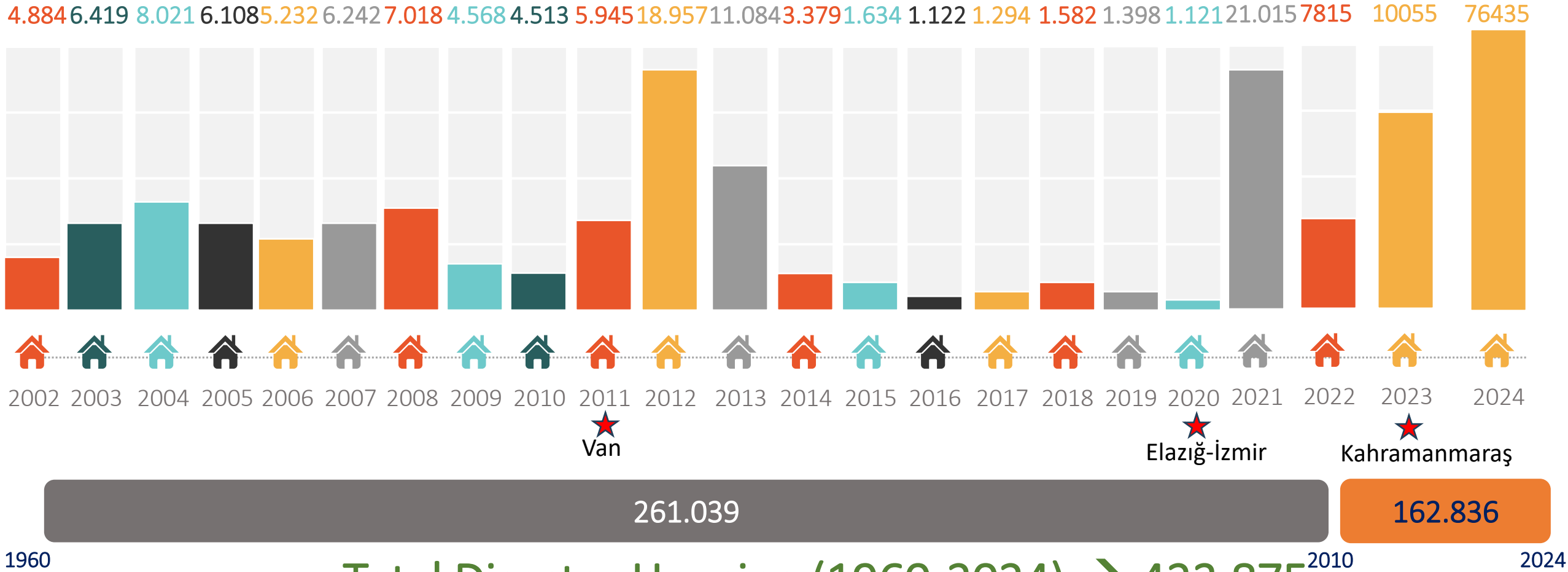
ADİYAMAN



RECENTLY COMPLETED PERMANENT HOUSES IN ADIYAMAN / 6521 HOUSES



DISASTER HOUSING / PERMANENT HOUSES SINCE 1960's

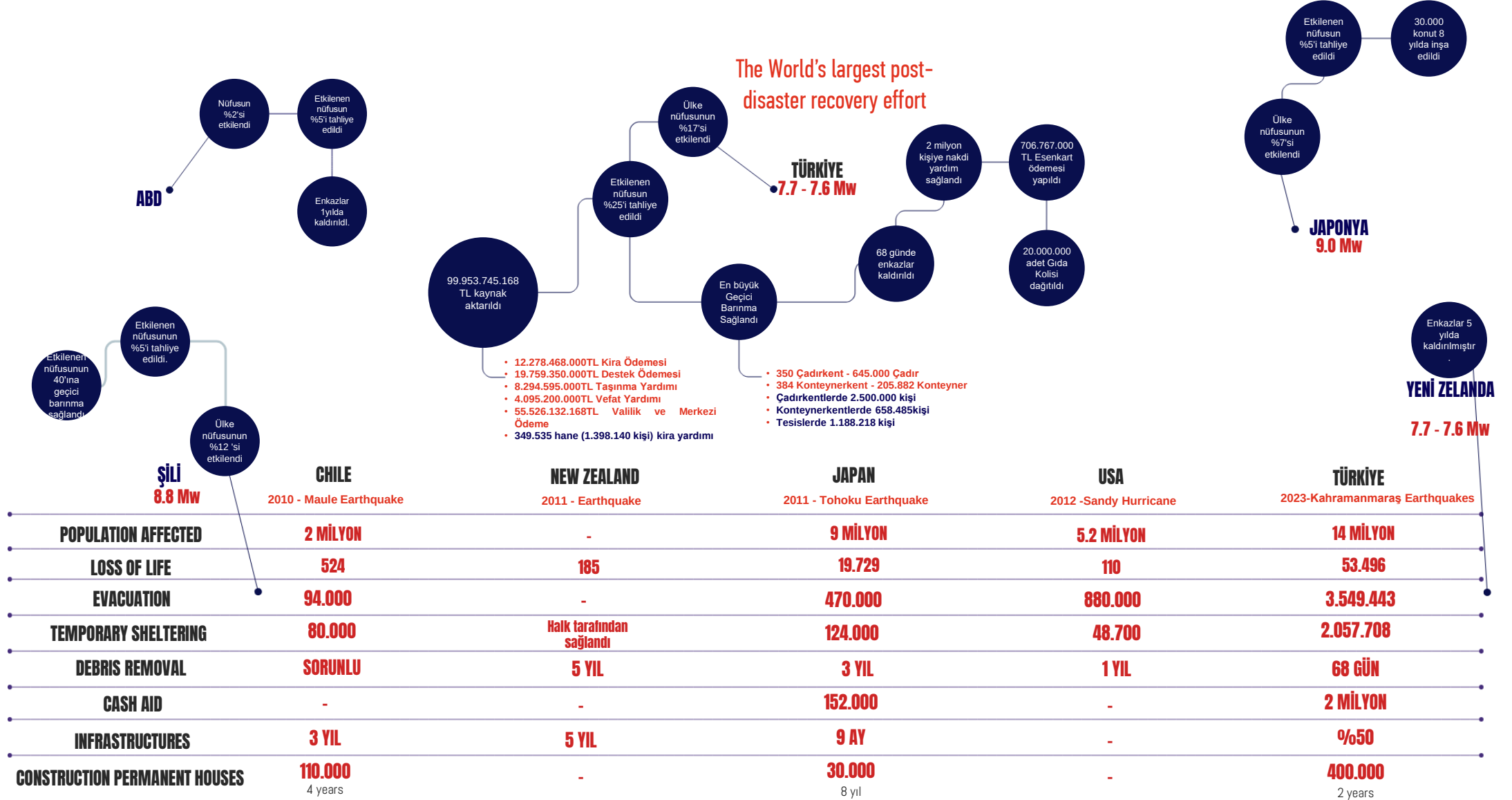


Total Disaster Housing (1960-2024) → 423.875

February 6 Permanent Housing by the end of 2024 → 200.000

% 48,4

THE WORLD'S LARGEST POST-DISASTER RECOVERY PROCESS



Disaster Risk Reduction Efforts after February 6

- *Lidar mapping along the surface breaks*
 - *Secondary Disasters such as landslides and rock falls*
 - *Earthquake Clearinghouse*
 - *Collaborations with US Institutions*
 - *Active faults of Turkiye*
 - *Newly Started National and International Project*
 - *Capacity Building*
-

SURFACE RUPTURE OF THE FIRST SHOCK (Mw 7.7)



SURFACE RUPTURE OF THE FIRST SHOCK (Mw 7.7)



SURFACE RUPTURE OF THE FIRST SHOCK (M_w 7.7)

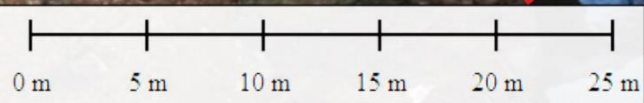


SURFACE RUPTURE OF THE FIRST SHOCK (Mw 7.7)

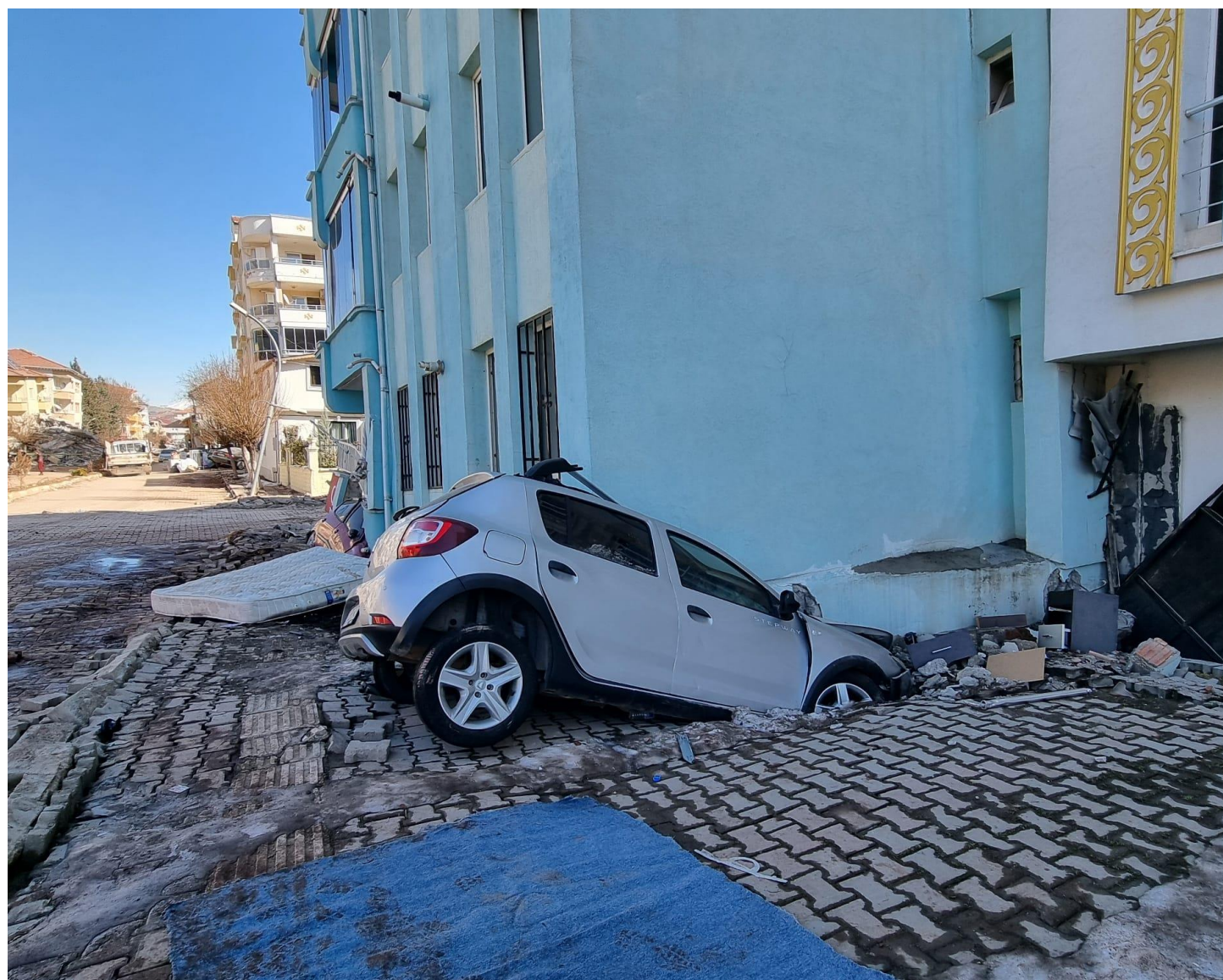
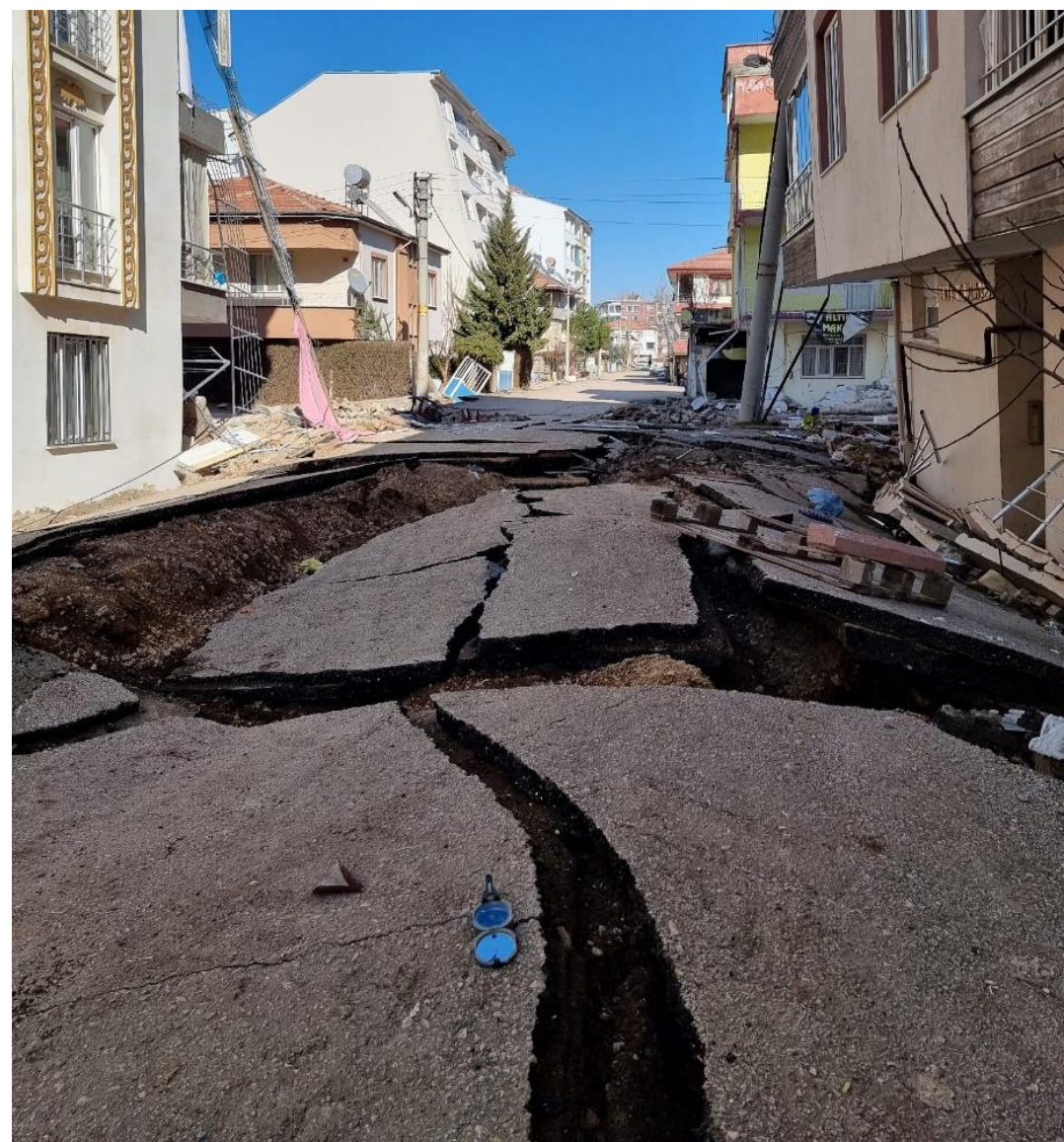


400 cm $\pm$ 10 cm Çit Ötelenmesi
390 cm $\pm$ 10 cm Kanal Ötelenmesi

Balkar/Adıyaman



SURFACE DEFORMATION AND LIQUEFACTION



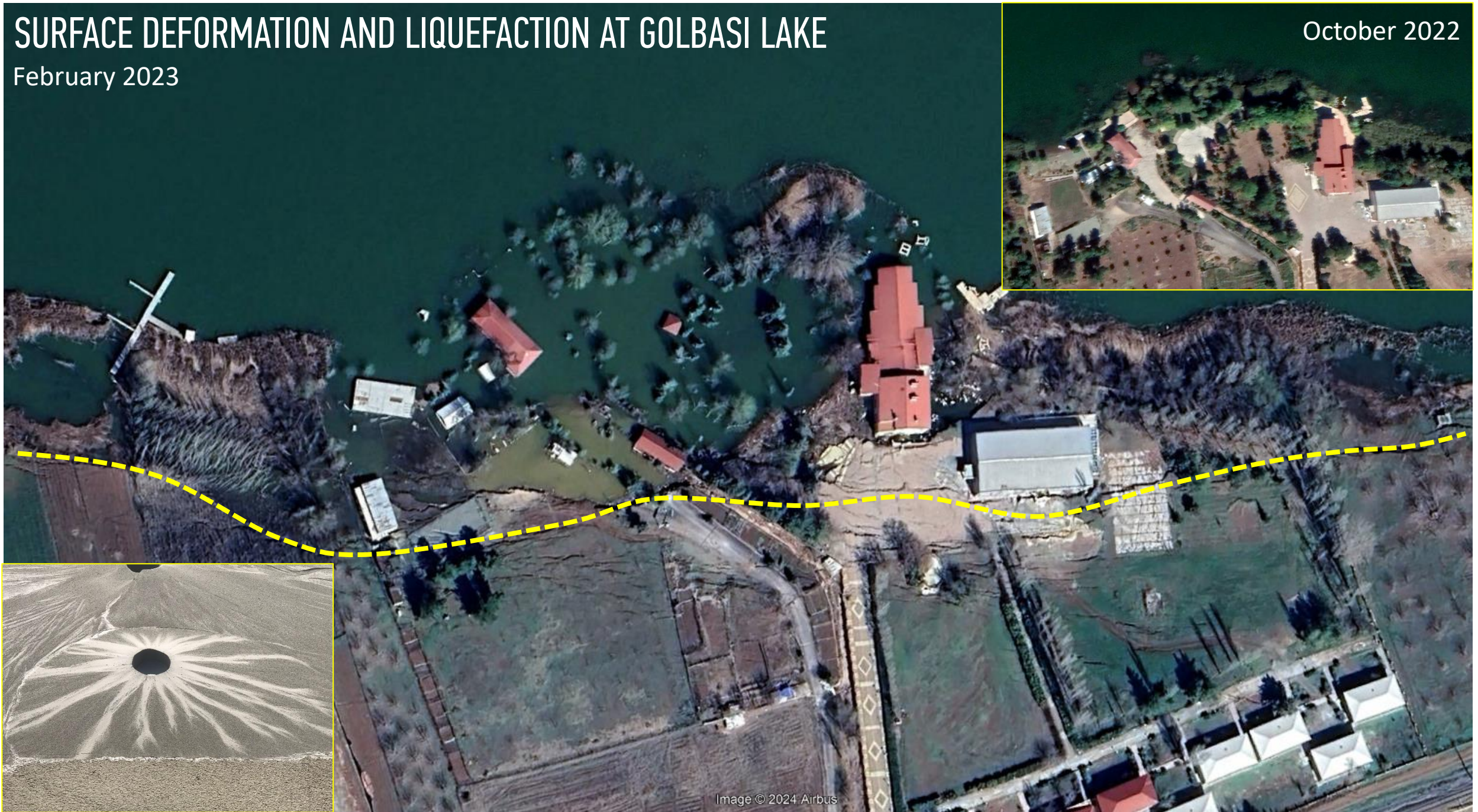
SURFACE DEFORMATION AND LIQUEFACTION



SURFACE DEFORMATION AND LIQUEFACTION AT GOLBASI LAKE

February 2023

October 2022



SURFACE RUPTURE OF THE SECOND SHOCK (Mw 7.6)



SURFACE DEFORMATIONS



Kahramanmaraş/ Türkoğlu – Gaziantep/ İslahiye - Adıyaman



Kahramanmaraş/ Türkoğlu – Hacıbebek Mahallesi



Hatay / Altınözü



SECONDARY DISASTERS TRIGGERED BY THE EARTHQUAKE



In order to assess secondary disasters such as landslides, rockfalls, avalanches, etc., caused by the earthquake, survey studies were conducted with a total of 78 technical personnel in 9 provinces (Gaziantep, Malatya, Kahramanmaraş, Adıyaman, Adana, Osmaniye, Hatay, Diyarbakır, Şanlıurfa).

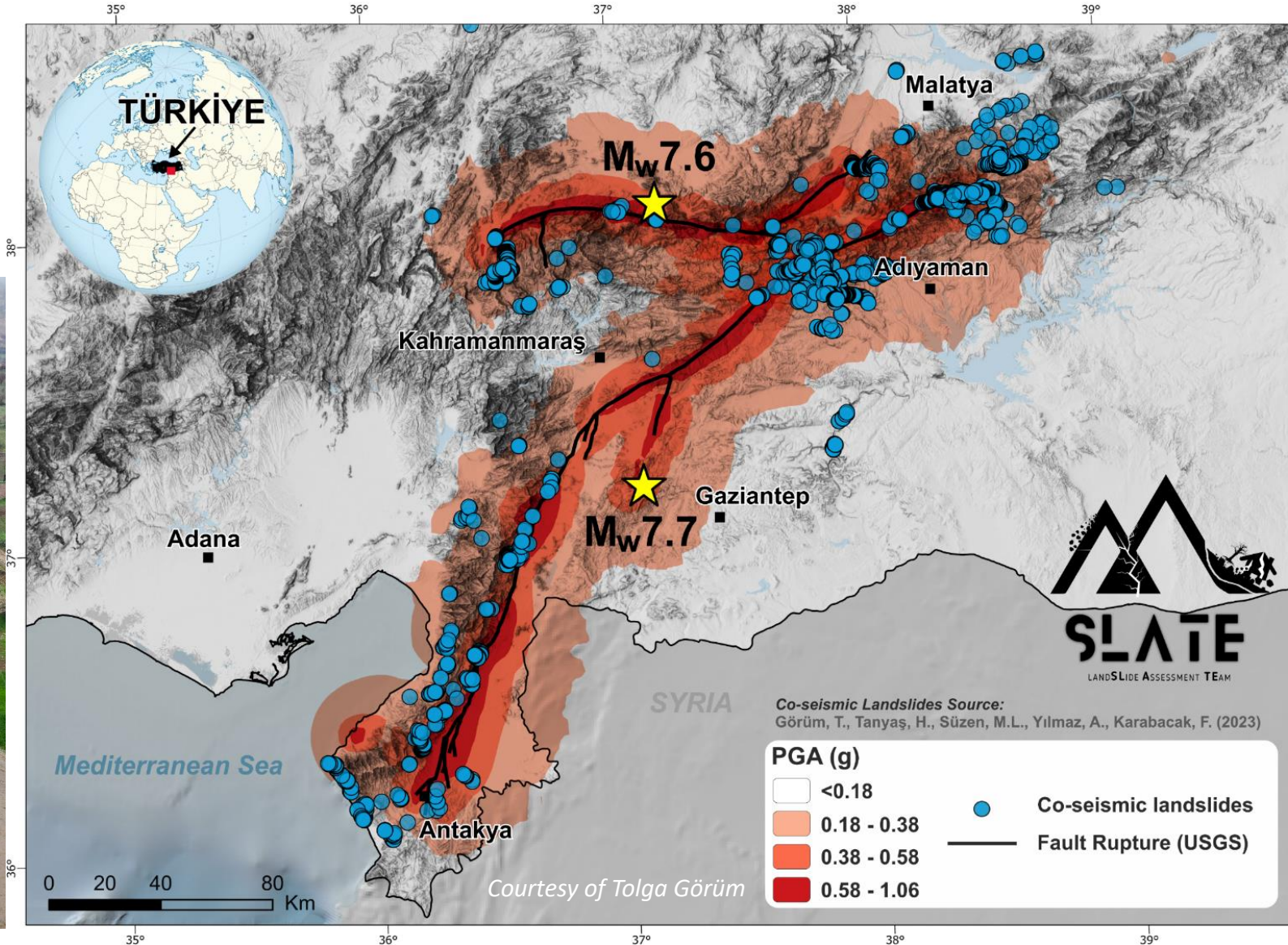


In **253** settlements across **9** provinces, a total of **3,784** buildings were found to be affected by secondary disasters. Remediation was decided for **474** of these buildings, while relocation was determined for **3,310**.



LANDSLIDE MAPPING AFTER THE 6TH FEBRUARY EARTHQUAKES

A total of **2826** landslides have been mapped using high-resolution remote sensing images (before and after) and detailed field studies.



ROCK FALLS AFTER THE 6TH FEBRUARY EARTHQUAKES



Courtesy of Tolga Görüm



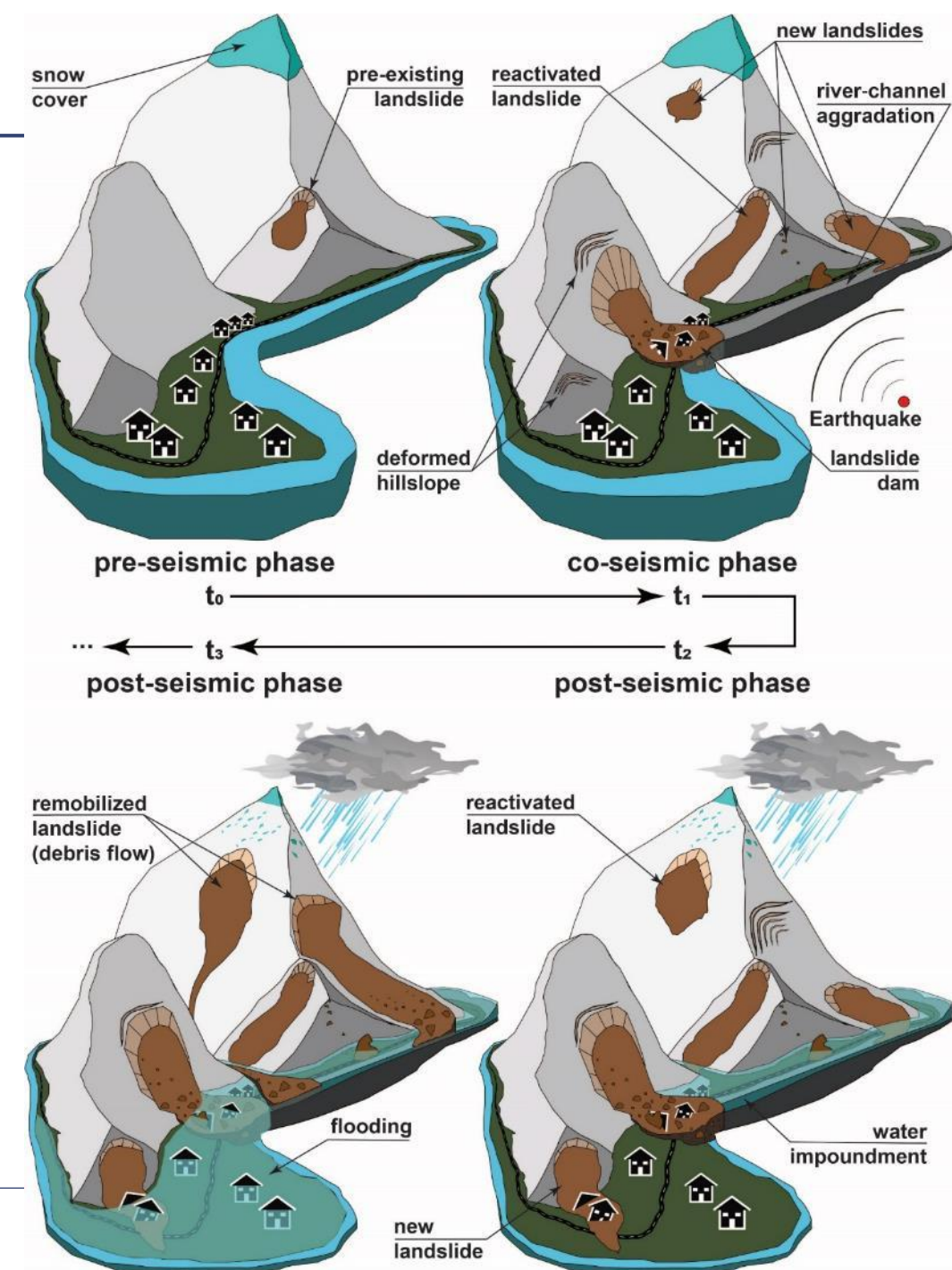
MEGA LANDSLIDES TRIGGERED BY THE EARTHQUAKES



Courtesy of Tolga Görüm

SECONDARY DISASTERS TRIGGERED BY THE EARTHQUAKES

Post Earthquake Landslide Hazards and Chain of Disasters Triggered by Landslides



POST EARTHQUAKE LANDSLIDE HAZARDS AND CHAIN OF DISASTERS TRIGGERED BY LANDSLIDES



Courtesy of Tolga Görüm

POST EARTHQUAKE LANDSLIDE HAZARDS AND CHAIN OF DISASTERS TRIGGERED BY LANDSLIDES



AFAD – FUGRO LIDAR CAMPAIGNS ALONG THE SURFACE RUPTURES

LiDAR data collection
20 March - 6 April 2023

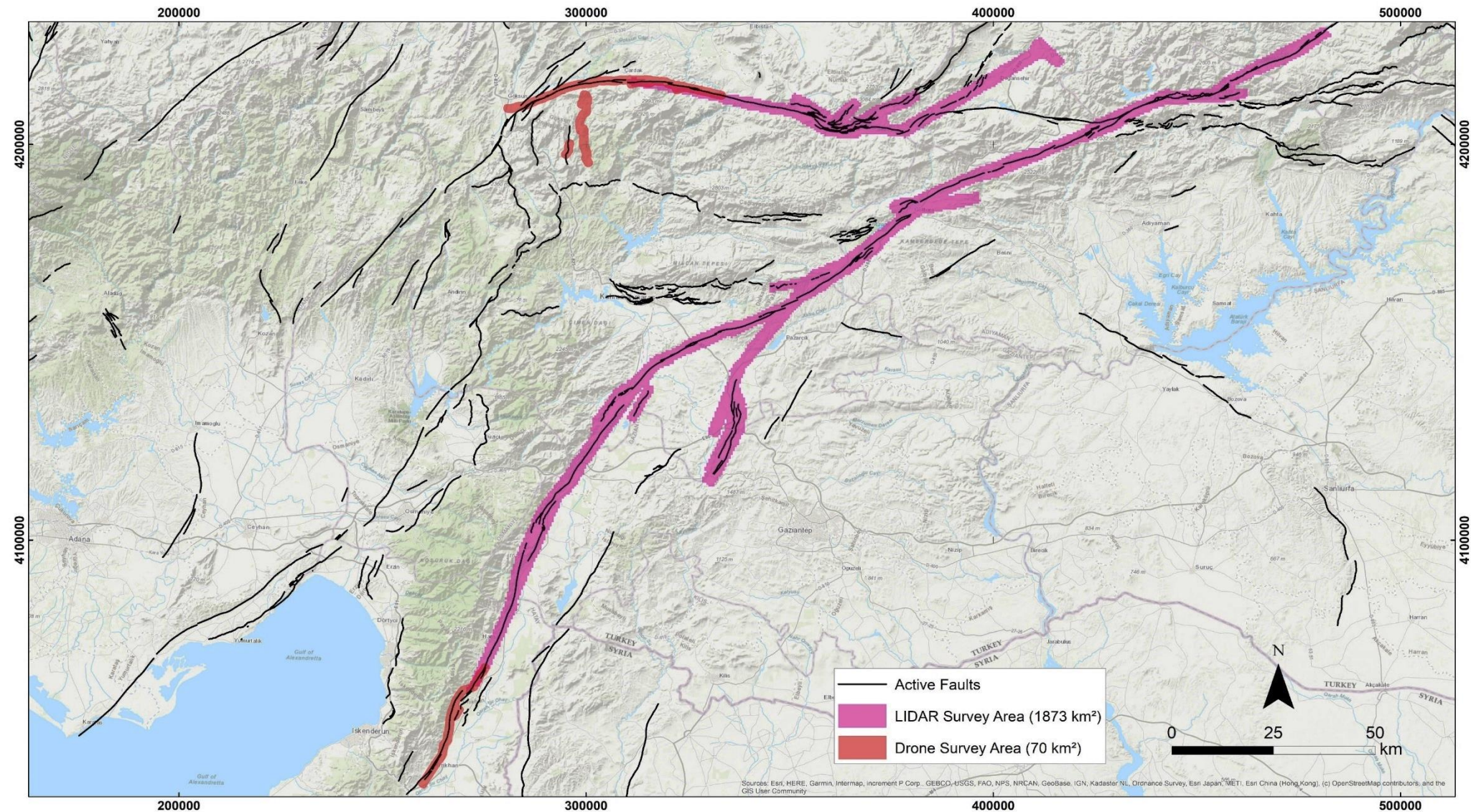
LiDAR data processes
20 March -25 May 2023

Deliverables:

- Digital terrain model & contours
- Digital surface model
- Orthophotos
- Classified point cloud



AFAD – FUGRO LIDAR AND DRONE CAMPAIGNS ALONG THE SURFACE RUPTURES





Using LiDAR data and field observations, the **570 km long surface rupture** caused by both earthquakes was **mapped** in detail for future land planning.

INITIATION of the EARTHQUAKE CLEARINGHOUSE (DEBIDES)

What is an earthquake clearinghouse:

A place to -

- coordinate earthquake field investigations and
- share observations and knowledge among emergency responders, engineers, and scientists.

Establishment of Earthquake Clearinghouse was included in the **AFAD Earthquake Emergency Response Plan** in January 2023.

Regular live press conferences with scientists were crucial for providing accurate information to the public and preventing misinformation.



Prof. Dr. Orhan TATAR
AFAD Earthquake Risk
Reduction Dept. General
Director

AFAD "Deprem Bilgi Destek Merkezi" kurdu

Afet ve Acil Durum Yönetimi Başkanlığınca (AFAD), Kahramanmaraş merkezli depremlerle verileri toplama, tasnifleme ve ilgili mercilere sunma amacıyla Deprem Bilgi Destek Merkezi kuruldu.

Fırat Taşdemir | 16.02.2023 - Güncelleme : 16.02.2023



Dr. Recep ÇAKIR
Liaison for AFAD-Earthquake
Clearinghouse (DEBIDES)

Fotoğraf: Arman Önal - AA

TÜBİTAK 1002-C POST EARTHQUAKE RAPID FUND PROGRAM & AFAD EQ CLEARINGHOUSE



34
Countries



506
Researchers



Over 1 TB
Data produced

Immediately after the 6th February 2023 Kahramanmaraş (Pazarcık Mw: 7.7, Elbistan Mw: 7.6) earthquakes, AFAD has established an Earthquake Clearinghouse and Earthquake Information System and accredited all teams went into the disaster area.

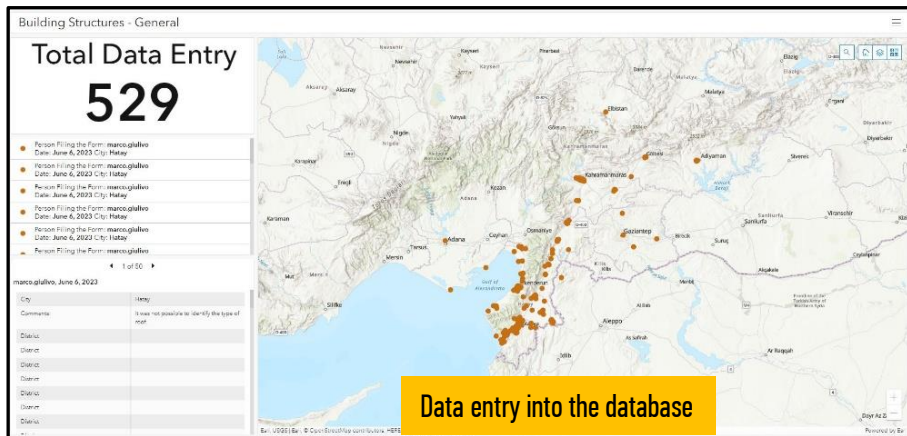
All teams worked in the field used an application developed by ESRI Türkiye.



EQ Clearinghouse was finished as of 15th May 2023. Over 1 TB data was uploaded into the AFAD database by the 504 researchers.

The EuQuaGe initiative will involve up to 36 Scientific Institutions (Universities, Research Centers and Geological Surveys) from 18 European Countries.

The EuQuaGe is a volunteer organization of Earth scientists from European governmental and academic institutions for rapid, effective, and coordinated assistance to national scientific organizations.



18
Countries



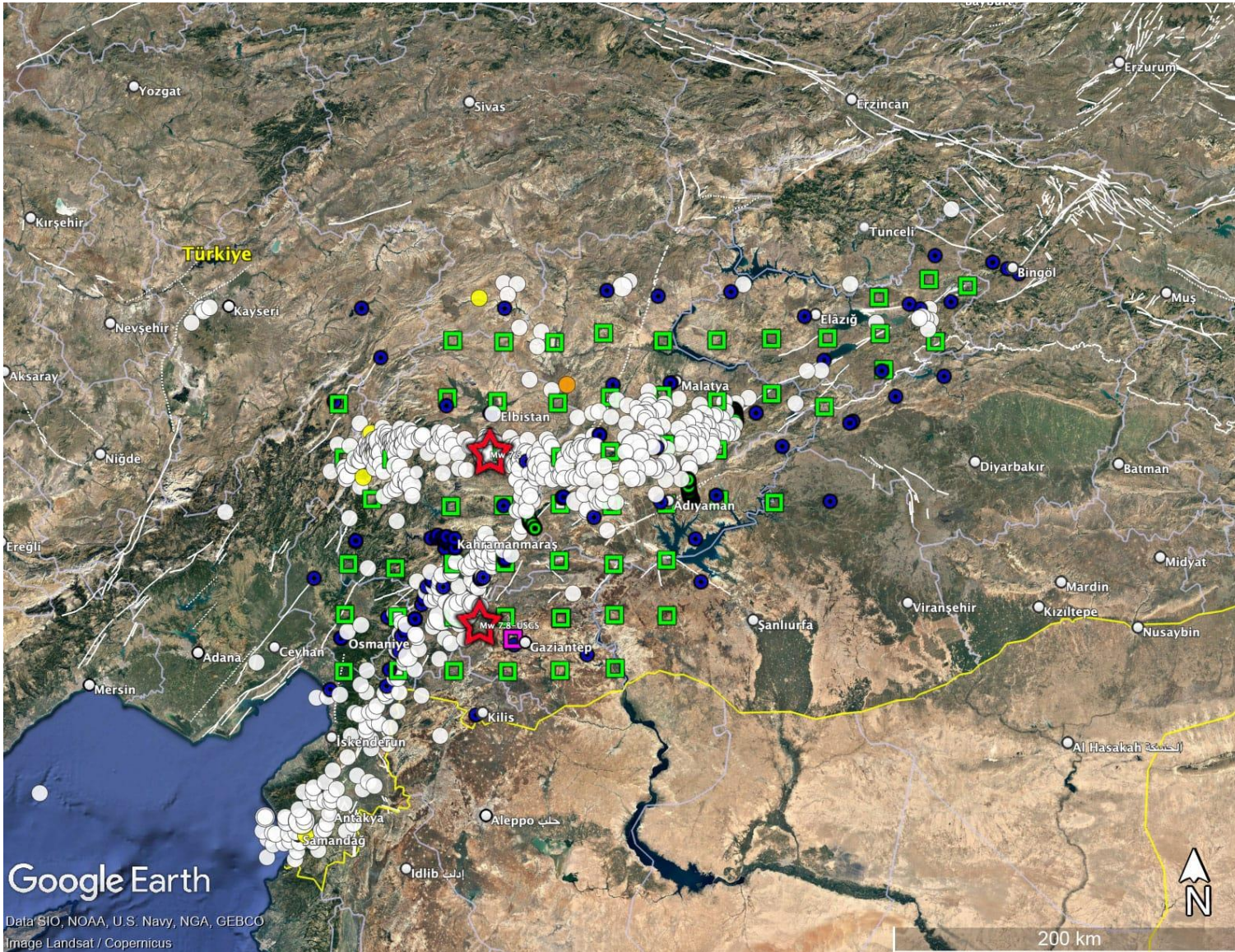
+100
Researchers



Over 36
Institutions

First Field Exercise of the European Earthquake Geology Task Force (EuQuaGe) performed in Türkiye on the surface rupture of 06 February 2023 Elbistan (Kahramanmaraş) Earthquake

POST EARTHQUAKE MONITORING & AFTERSHOCK FORECAST STUDY BETWEEN USGS AND AFAD



AFAD staffs currently work in USGS on the postearthquake data recorded on a 10s of seismographs in the region.



For Official Use Only - Not For Public Distribution
Aftershock Advisory and Forecast



As of 23 Feb 2023, 00:00 (UTC) there is a
66% chance of an M5 or larger within the next week
in and around the area currently affected by aftershocks.

Mainshock Magnitude: M7.8

ID: [us6000jllz](#)

Location: 26 km ENE of Nurdağı, Türkiye

Mainshock Date: 6 Feb 2023, 01:17

Forecast last updated: 22 Feb 2023, 23:28 UTC

- Expect more earthquakes in and around the area currently affected by aftershocks.
- Over the next week there may be 95 - 450 aftershocks of M3 or larger, which could be felt nearby.
- Aftershock rates will decrease over time, but may remain elevated over the following year or longer.
- This forecast will be updated as the sequences progresses and more information becomes available.

Aftershock Forecast starting 23 Feb 2023, 00:00 (UTC)

Chance of an aftershock larger than:

	M3	M4	M5	M6	M7	M8
Day	>99%	91%	18%	1%		
Week	>99%	>99%	66%	8%	1%	<1%
Month	>99%	>99%	94%	22%	2%	<1%
Year	>99%	>99%	>99%	46%	5%	<1%

Key to colors*

Potential Shaking	Potential Damage
weak - light	none
weak - moderate	very light
moderate - strong	light - moderate
strong - severe	moderate - heavy
severe - violent	heavy
violent - extreme	very heavy

*This table gives typical peak shaking and intensity levels associated with the forecast magnitudes. Actual shaking is affected by many factors, and damage may be higher in vulnerable structures.

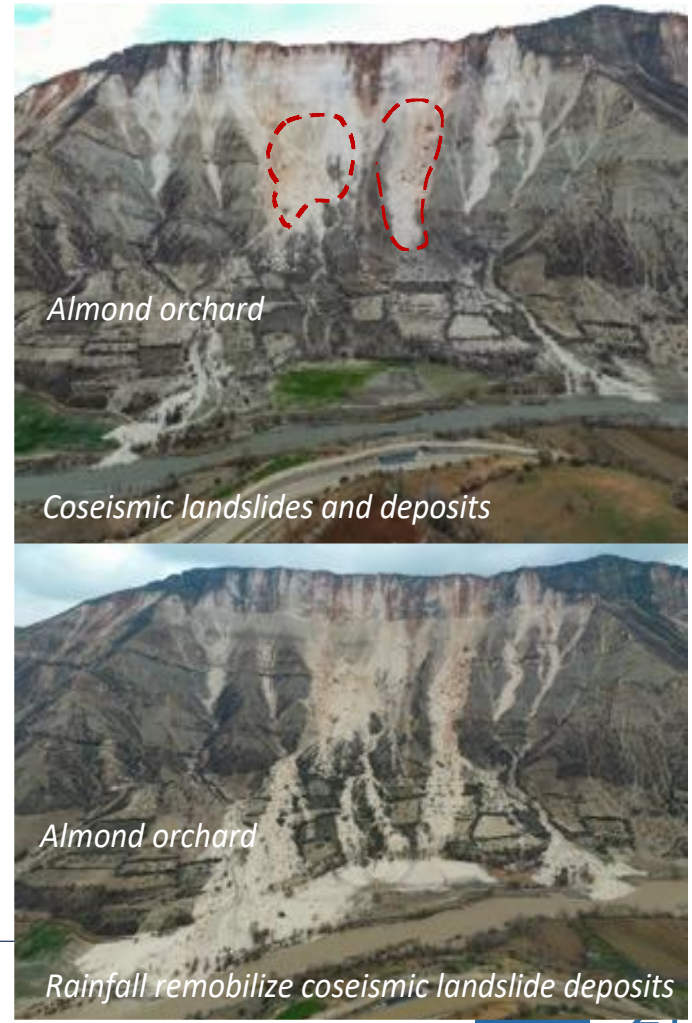
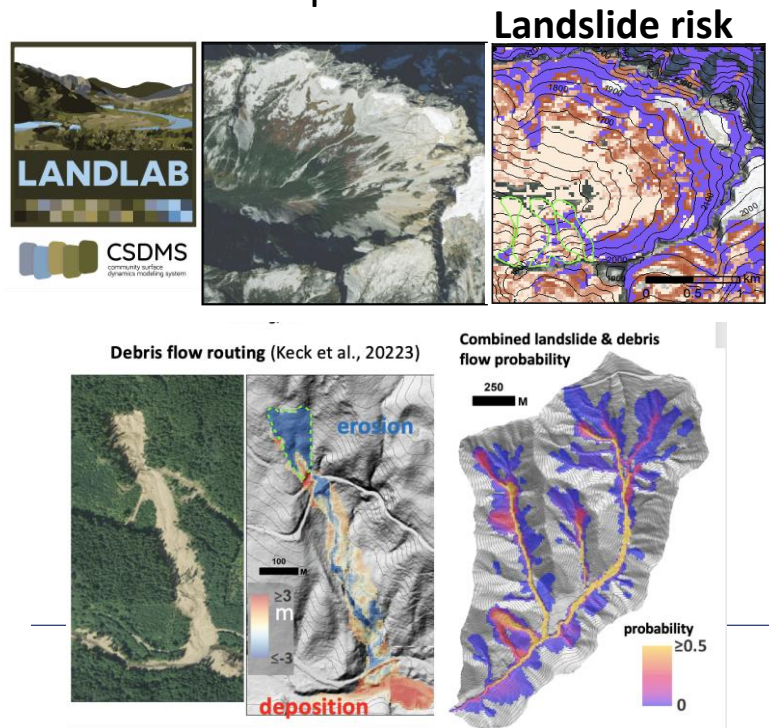
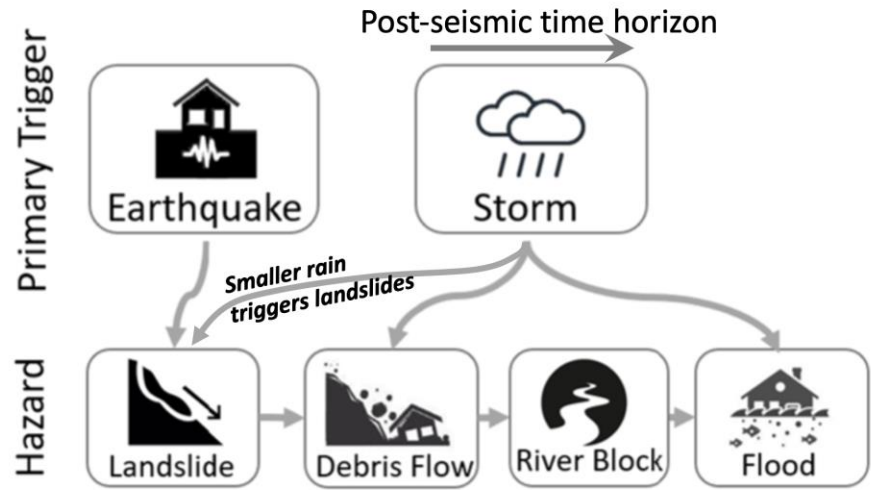


COSEISMIC LANDSLIDES AND CASCADING HAZARDS OF THE FEB 6, 2023 TURKIYE EARTHQUAKE: PRELIMINARY DATABASE DEVELOPMENT AND MODELING ANALYSIS



"This project aims to map the landslides, debris flows, and flood risks triggered by the earthquake and the subsequent rain and snowmelt."

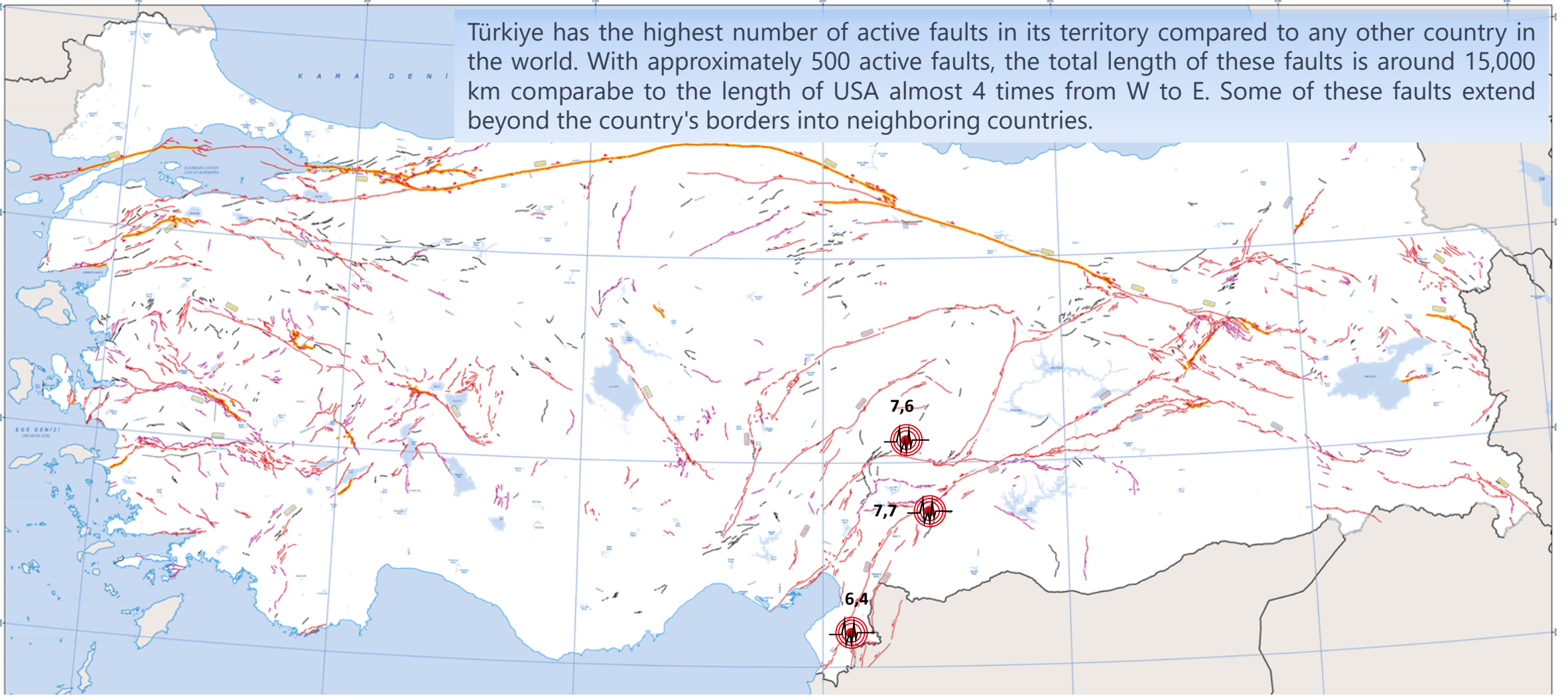
- As part of the project, landslides and slope failures triggered by different mechanisms will be identified.
- These landslides will be correlated with earthquake intensity, rainfall, and other geographic factors.
- In a pilot area, Landlab model parameters will be calibrated.
- In areas with high landslide risk, Landlab will be applied to present the landslide effects in downstream areas as a 'hazard cascades' risk map."



Geomorphic hazard cascade of earthquakes (van den Bout et al., 2022)

ACTIVE FAULT MAP OF TÜRKİYE

Türkiye has the highest number of active faults in its territory compared to any other country in the world. With approximately 500 active faults, the total length of these faults is around 15,000 km comparable to the length of USA almost 4 times from W to E. Some of these faults extend beyond the country's borders into neighboring countries.



487

Total number of fault segments



>Mw:5.5

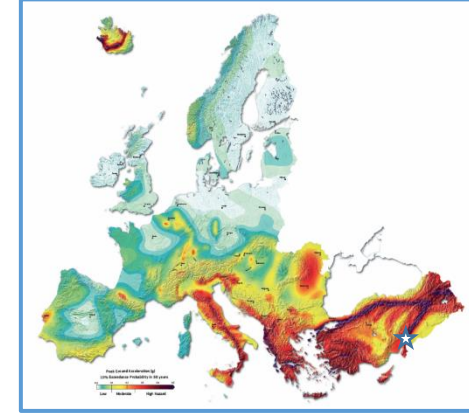
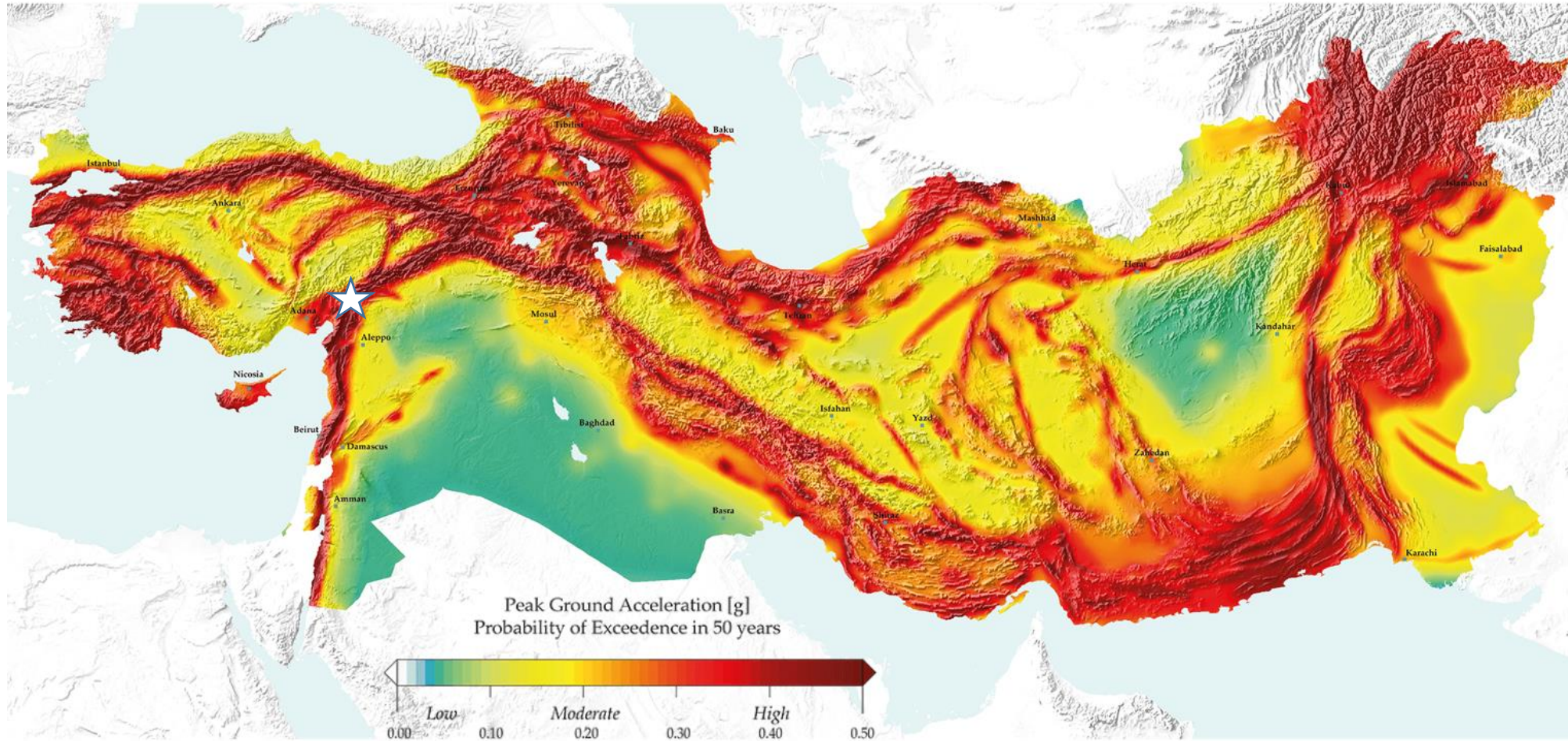
Each capable to produce $\geq$ fMw: 5.5 or higher earthquakes



14.500 km

Total length of active faults

SEISMIC HAZARD MAP OF EUROPE, TÜRKİYE, THE MIDDLE EAST AND ASIA



Türkiye is located on one of the most destructive earthquake belt of the World

Even this map alone requires us to be ready for disasters together !

Where is next?





T.C. İÇİŞLERİ BAKANLIĞI
**AFET VE ACİL DURUM
YÖNETİMİ BAŞKANLIĞI**



1

Coordinator



24

Universities and Institutions

2

Stakeholders



132

Fault segments

By the end of 2025, the earthquake history and earthquake-generating potential of a total of 132 active faults will be determined.

NATIONAL EARTHQUAKE RESEARCH PROGRAM (UDAP) **RECORD APPLICATION**



Duration of Project
24 Months



56 UNIVERSITIES
32 PUBLIC INSTITUTIONS
6 NON GOVERNMENTAL ORGANIZATIONS
926 RESEARCHERS, 325 SCHOLARS

232 PROJECT PROPOSALS

Joint Call Priority R&D and Innovation Topics

- Geodynamic Research and the Widespread Socio-Economic, Social, and Environmental Impacts of Earthquakes
- Digital Technologies and Devices for Earthquakes
- Construction Models and Waste Management for Earthquakes
- Scenario, Prediction, and Analysis Studies for Earthquake Management

1001-Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı

TÜBİTAK İLE AFAD ARASINDA
İMZALANAN İŞ BİRLİĞİ PROTOKOLÜ
ÇERÇEVESİNDE 1001-UDAP
ULUSAL DEPREM
ARAŞTIRMALARI PROGRAMI
**ORTAK ÇAĞRISI
AÇILDI!**

SON BAŞVURU TARİHİ:
1 NİSAN 2024



TÜRKİYE CUMHURİYETİ
İÇİŞLERİ BAKANLIĞI



T.C. SANAYİ VE
TEKNOLOJİ BAKANLIĞI



TÜBİTAK

AFAD®

THE TÜRKİYE MODEL FOR EARTHQUAKE-RESILIENT CITIES

The Notification on the Turkey Building Earthquake Code and Implementation Principles Has Been Prepared.

In reference to the Turkey Building Earthquake Code published in 2018, following the Pazarcık-Elbistan Kahramanmaraş and Yayladağı Hatay earthquakes on February 6, 2023, efforts have been accelerated, and the following measures have been taken.

We Are Introducing Easy, Effective, and Simple Measures to Reduce Building Earthquake Risk in Türkiye.

1

MORE RIGID

Shear Walls Mandatory
Less Deformation
Minimum Column-Shear Wall Area.

2

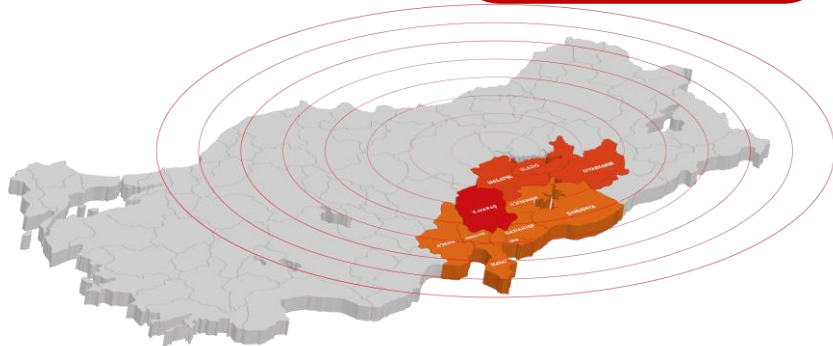
BETTER SYSTEM

Continuous Frame
Low Distortion
Low Axial Load Ratio

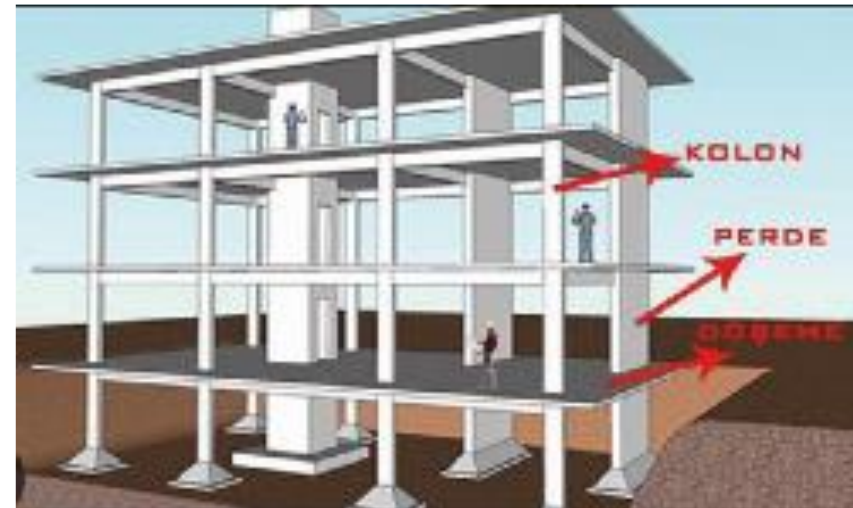
3

MORE DETAIL

Two Closed Stirrup
Nearly Square Shaped Colon



SHEAR WALLS SAVE LIVES



DISASTER AND EMERGENCIES RESPONDED IN 1 YEAR

IN 1 YEAR, TOTAL

6.414

EMERGENCY CASES
RESPONDED BY AFAD

3.431

DISASTERS

56 PROVINCES 2.168 FLOODS,
37 PROVINCES 1.242 FOREST FIRE,
MAGNITUDE 4 AND ABOVE 230 EARTHQUAKES,
7 PROVINCES, AVALANCHES, 5 PROVINCES, LANDSLIDE



DISASTER AND EMERGENCY CASES IN ONE YEAR

TOTAL

114 people

DIED

- **40** PEOPLE, FLOODS
- **18** PEOPLE, FOREST FIRE
- **4** PEOPLE, AVALANCHES
- **3** PEOPLE, LANDSLIDE
- **5** PEOPLE, EXPLOSION
- **1** PERSON ANTALYA CABLE CAR ACCIDENT
- **9** PEOPLE ERZİNCAN İLİÇ MINE LANDSLIDE
- **32** PEOPLE, SHIPWRECK
- **2** PEOPLE ZONGULDAK MINE ACCIDENT

As of June 1, 2023, a death benefit of 100,000 TL has been provided to the families of our deceased citizens to meet their urgent needs.

3.550 WOUNDED

6.663 EVACUATED

IN FOREST FIRES
21.508 HECTARE
FIELD SUFFERED

85 MILLIONS USD
BUDGET TRANSFERRED

İKAS

İKAZ ALARM SYSTEM IS DEVELOPED
NATIONWIDE...

• 15 Provinces, Completed

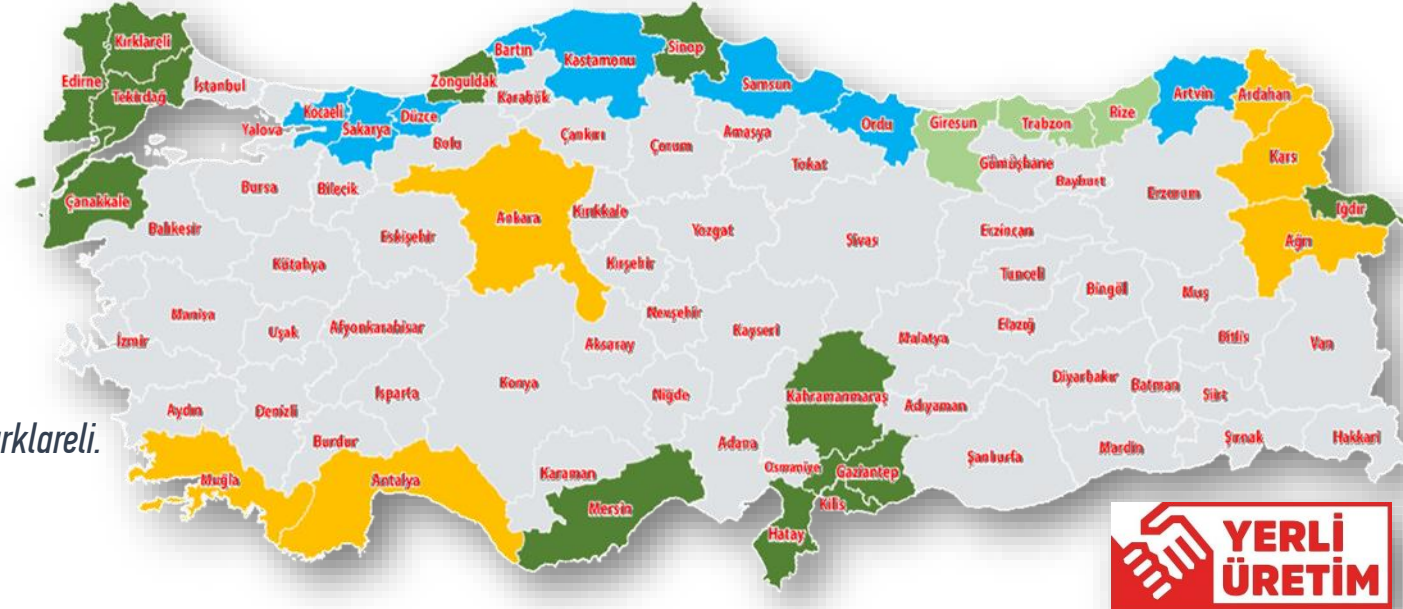
(Mersin. Kahramanmaraş. Hatay. Gaziantep. Kilis. Iğdır. Sinop. Zonguldak. Kırklareli.
Çanakkale. Edirne. Tekirdağ. Rize. Trabzon. Giresun)

• 8 Provinces, being completed in (2024)

(Kocaeli. Sakarya. Düzce. Bartın. Kastamonu. Samsun. Ordu. Artvin)

• 6 Provinces, will be completed in 2025

(Ankara. Antalya. Muğla. Kars. Ağrı. Ardahan)



- SİREN SİSTEMİ KURULMUŞ OLANLAR**
(Mersin. Kahramanmaraş. Hatay. Gaziantep. Kilis. Iğdır. Sinop. Zonguldak. Kırklareli. Çanakkale. Edirne. Tekirdağ)
- SİREN SİSTEMİ KURULMUŞ OLANLAR (YSSM)**
(Rize. Trabzon. Giresun)
- SİREN SİSTEMİ KURULACAKLAR (2024)**
(Kocaeli. Sakarya. Düzce. Bartın. Kastamonu. Samsun. Ordu. Artvin)
- SİREN SİSTEMİ KURULACAKLAR (2025)**
(Ankara. Antalya. Muğla. Kars. Ağrı. Ardahan)

Disaster Management System of Türkiye

- *Institutional Structure of AFAD*
- *Current Disaster Law*
- *Turkish Risk Reduction Plans*
- *Turkish Disaster Response Plan*

INSTITUTIONAL STRUCTURE & TASK AREAS OF AFAD

1959
DG of Civil Protection
(Ministry of Interior)

1965
DG of Disaster Issues
(Ministry of Public Works and Housing)

2000
DG of Emergency Management
(Prime Ministry)

AFAD
2009 – Prime Ministry



July 2018
affiliated with Ministry of Interior
«Presidential Decree Number 4»

AFAD; Performing the necessary measures for the effective management of disaster and emergency situations and civil protection services at the national level, ensuring coordination among the institutions and organizations involved in preparation, risk reduction, intervention during incidents, and recovery activities afterward. It is responsible for conducting and coordinating humanitarian aid operations abroad and developing and implementing policy proposals on these matters.

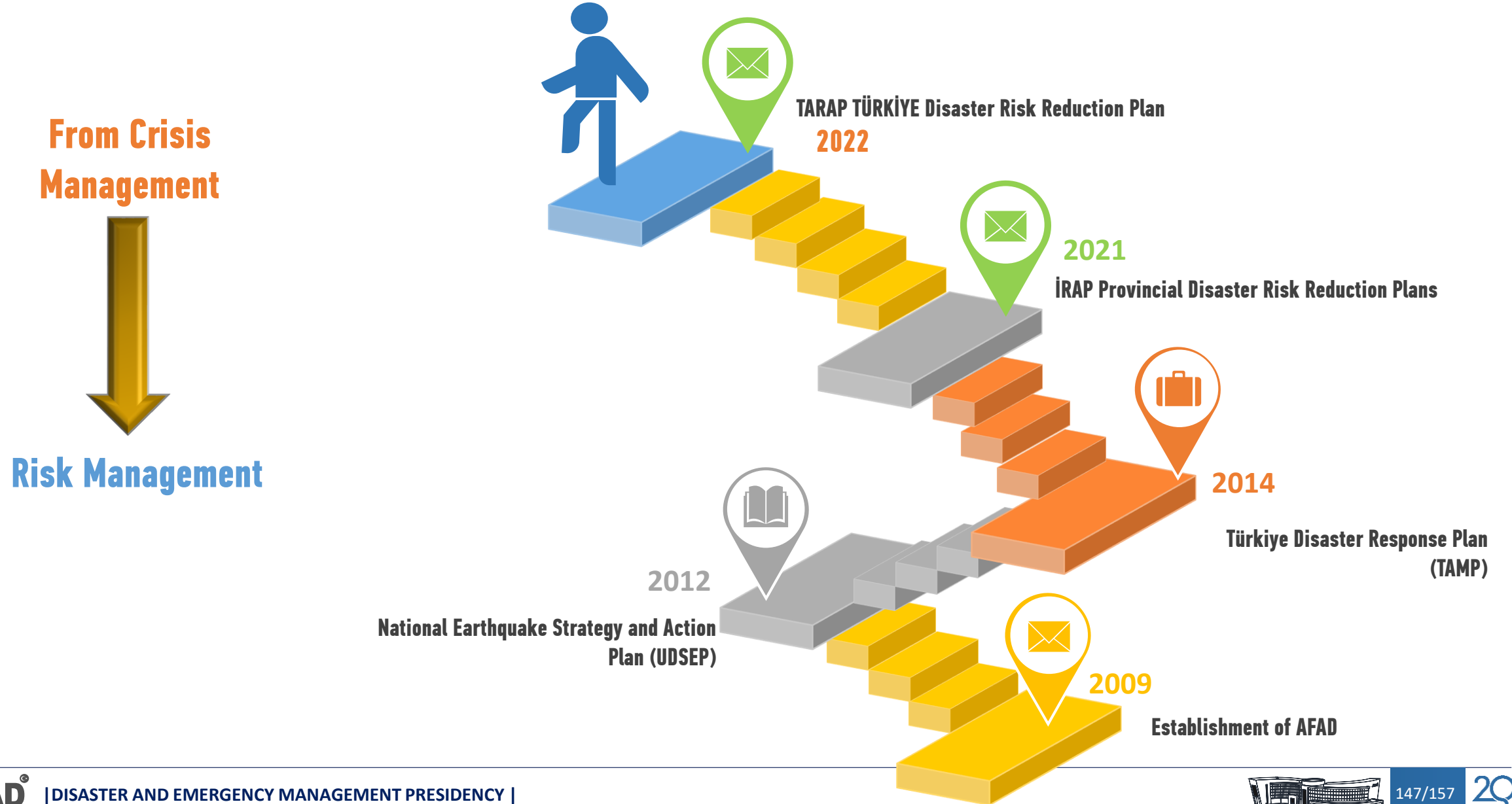
AFAD is authorized to cooperate and coordinate with public institutions and organizations, universities, local administrations, the Turkish Red Crescent Society, and other non-governmental organizations related to the subject, as well as the private sector and international organizations in matters pertaining to its duties.

The purpose of Law No. 5902 on the Organization and Duties of the Presidency of Disaster and Emergency Management;

- ✓ Taking necessary measures for the effective implementation of services related to disasters, emergencies, and civil defense at the national level
- ✓ Ensuring coordination among institutions and organizations responsible for preparedness and mitigation before events occur, intervention during incidents, and recovery efforts post-events
- ✓ Generating and implementing policies on these matters

** 17/06/2009 tarih ve 27761 sayılı R.G. 'de yayımlanarak yürürlüğe girdi. Ancak AFAD Başkanlığı 17/12/2009 tarihli Yüksek Kurul Kararı ile faaliyete geçti*

MILESTONES OF RISK MANAGEMENT IN TÜRKİYE



WE HAVE TO CREATE CORRECT STRATEGIES AND POLICIES IN DISASTER MANAGEMENT FOR DISASTER RESILIENCE AND SAFE CITIES.

TAYS is the vision document of our country, is being prepared in accordance with the Sendai framework “Target E “

Türkiye Disaster Management Strategy Paper
And Action Plan

Türkiye Disaster Risk
Reduction Plan
(TARAP)
[in operation]

Türkiye Disaster
Response Plan
(TAMP)
[In operation]

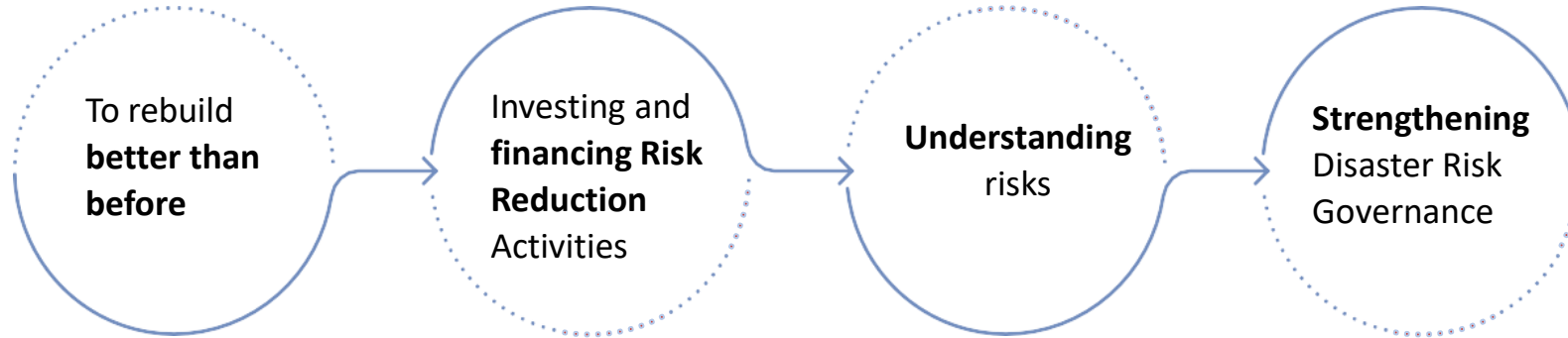
Türkiye Recovery Plan
(TASİP)
[In preparation process]

Event-Based Action Plans



TÜRKİYE DISASTER RISK REDUCTION PLAN (TARAP)

Türkiye Disaster Risk Reduction Plan **TARAP** Strategic priorities



TARAP is a road map in this regard and will contribute to **Sustainable Development.**

3500
Survey with Institutions

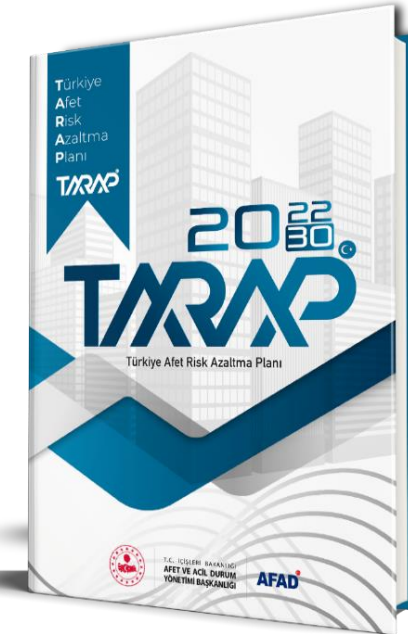
1500
Participants

6 Workshops

107
Institutions

11
Different Disaster Type worked

TARAP includes;

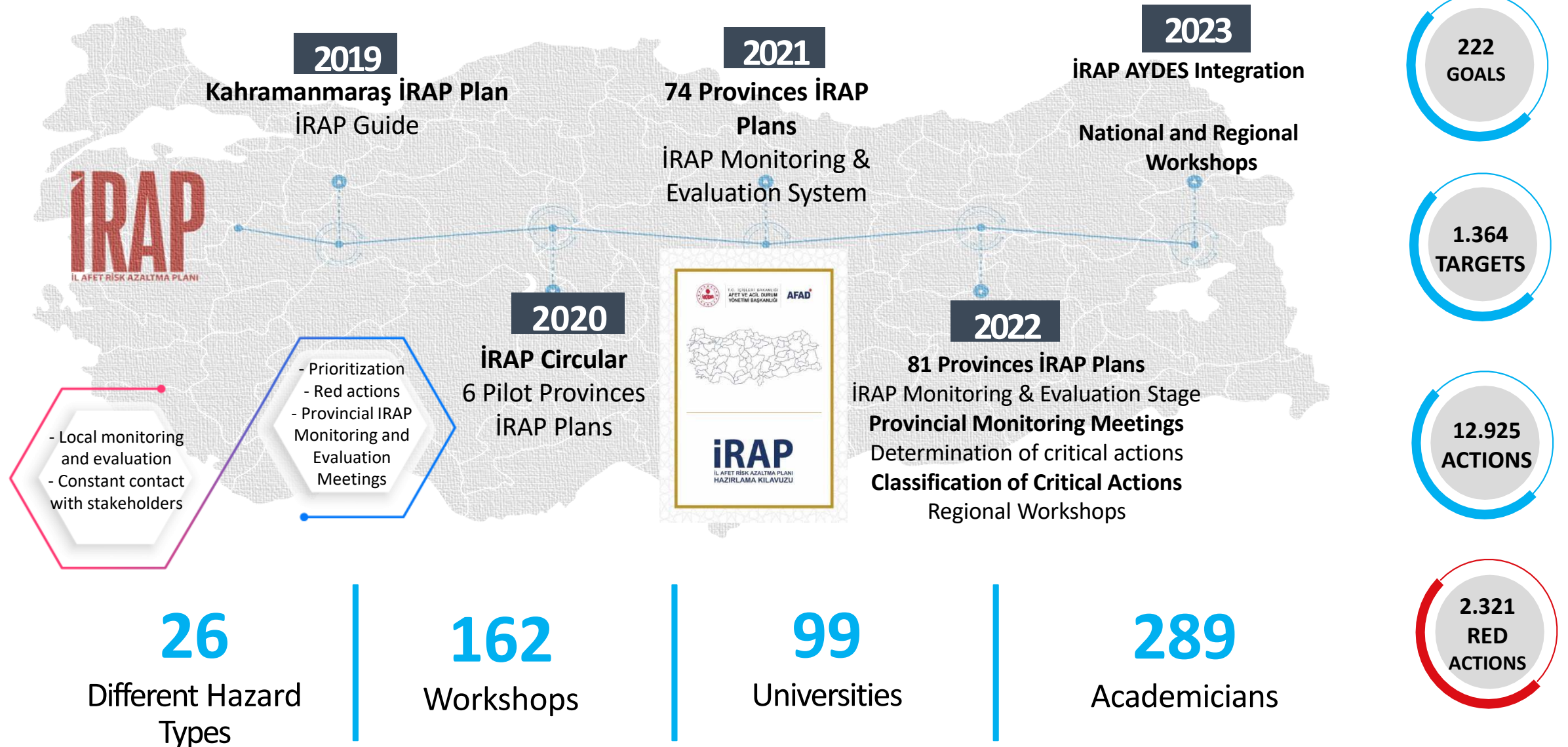


THIS PLAN IS
EXACTLY
COMPATIBLE
WITH THE
STRATEGIC
PRIORITIES
OF THE 2015
– 2030
SENDAI
FRAMEWORK



TARAP Currently in use starting from 8 July 2022

PROVINCIAL DISASTER RISK REDUCTION PLAN (İRAP)



**EVERY STEP
TAKEN TO
REDUCE RISK**

**İRAP
İL AFET
RİSK
AZALTMA
PLANI**

SAVE LIVES!

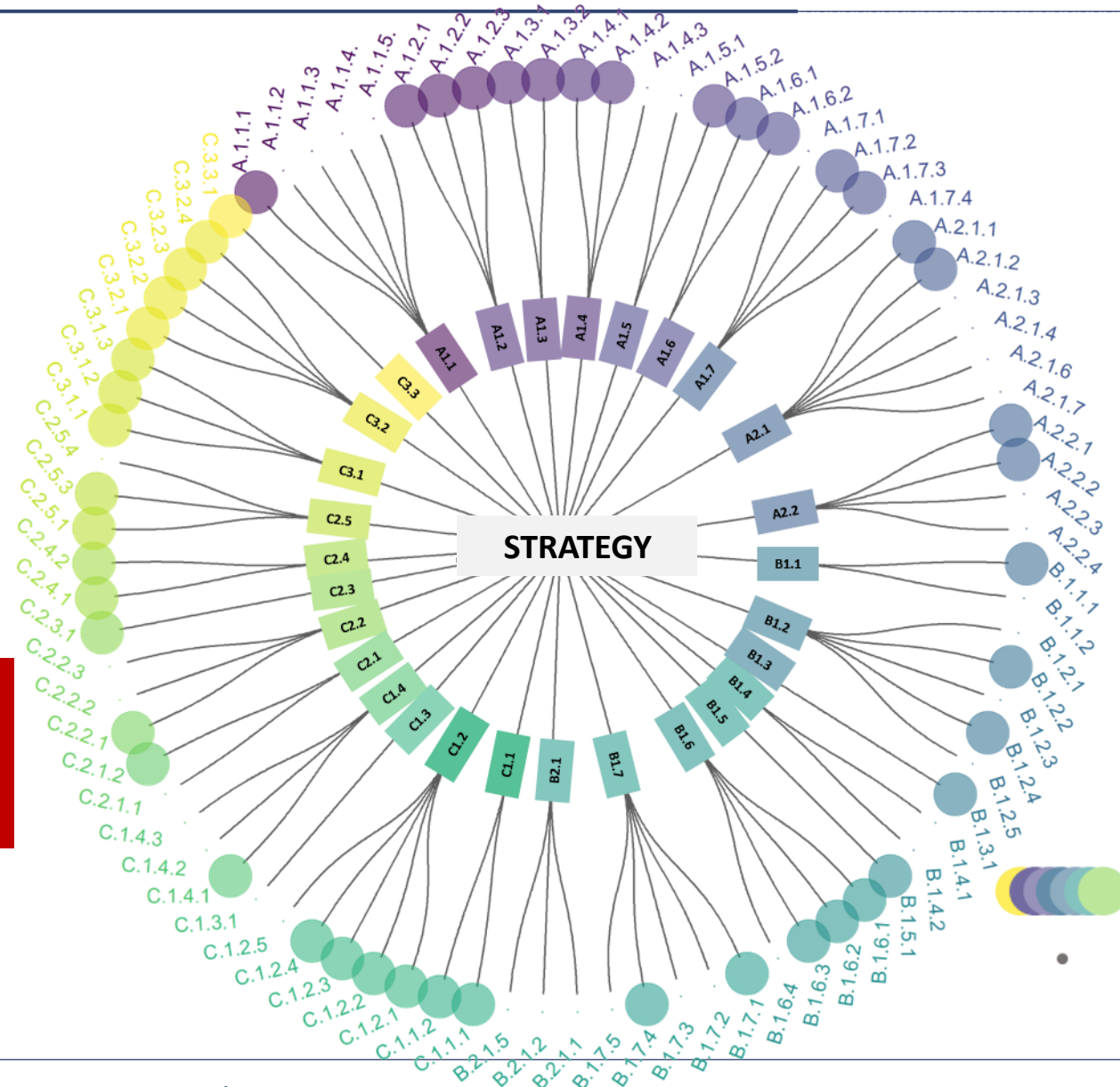


NATIONAL EARTHQUAKE STRATEGY AND ACTION PLAN - UDSEP-2023

GENERAL STRUCTURE

MAIN AXIS	GOAL
3	7
STRATEGY	ACTION
29	83
RESPONSIBLE INSTITUTION	RELATED INSTITUTION
13	>100

TURKEY'S FIRST STRATEGY DOCUMENT ON DISASTER RISK REDUCTION WHICH HAS BEEN PREPARED AND CONDUCTED IN A MULTI PARTICIPANT WAY



2021

1

GOAL

11

STRATEGY

48

ACTION

5

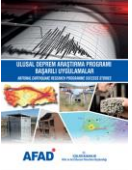
AFAD

ACTION

COMPLETED

COMPLETED ACTIONS
ONGOING ACTIONS

UDSEP – ACTIONS CARRIED OUT



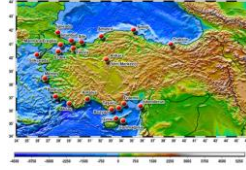
UDAP Launched



Turkey Disaster Data Bank



Turkey Earthquake Data Center System



Turkey Sea Level Monitoring Network and Observation System (TÜDES)



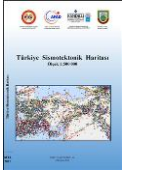
Annotated Disaster Management Terms Dictionary



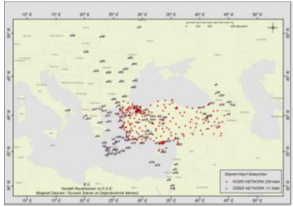
Turkey Active Fault Map



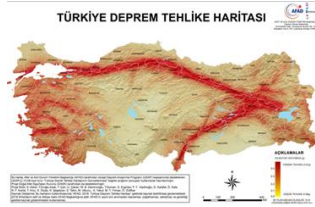
Turkey Earthquake Building Code



Turkey Seismotectonics Map



National and Regional Tsunami and Earthquake Observation Center



Turkey Earthquake Hazard Map



National Earthquake Observation Networks



Earthquake Early Damage Estimation Software



Earthquake Regulation for Transportation and Distribution Facilities



Disaster Preparedness Year



Mandatory Earthquake Insurance



Kahramanmaraş IRAP



Hospitals Disaster and Emergency Plans



Provincial Healthcare Disaster and Emergency Plans



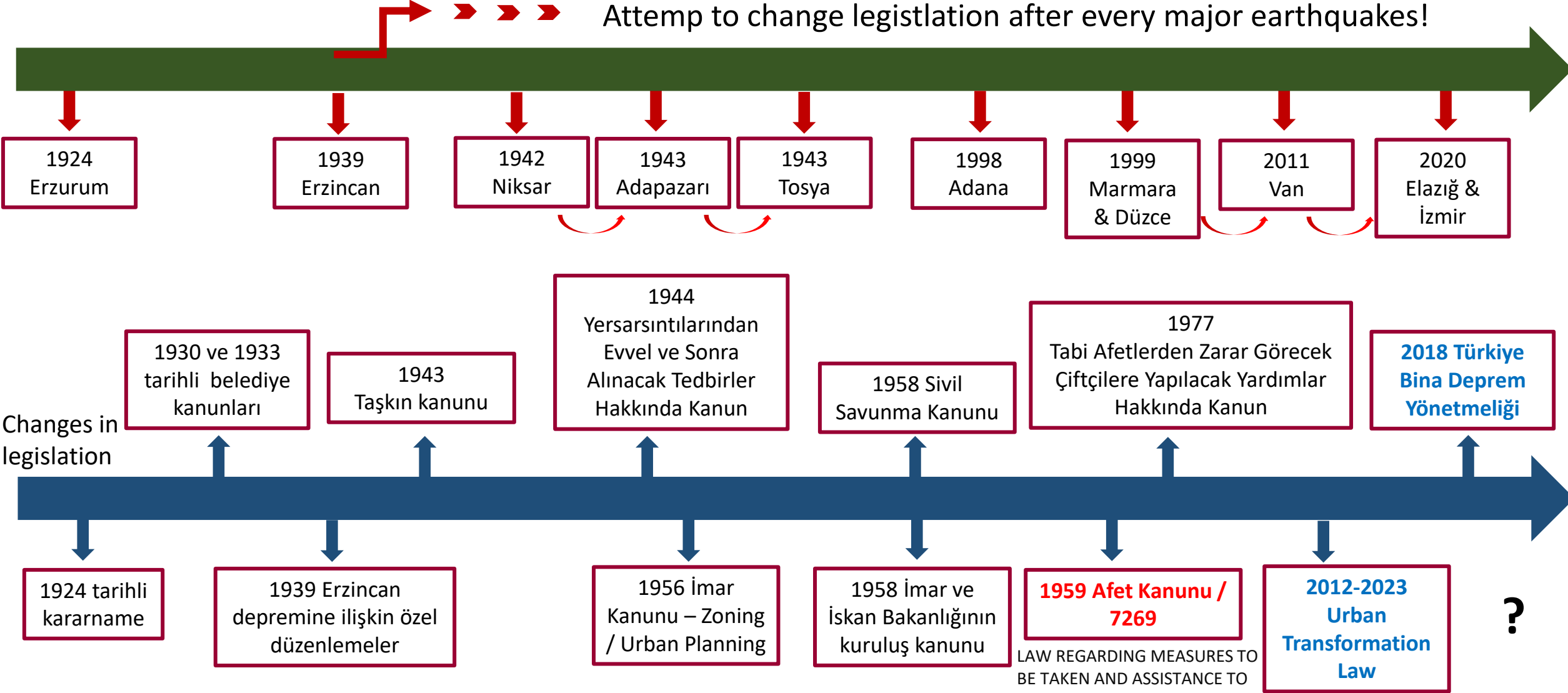
AFAD Volunteerism Project



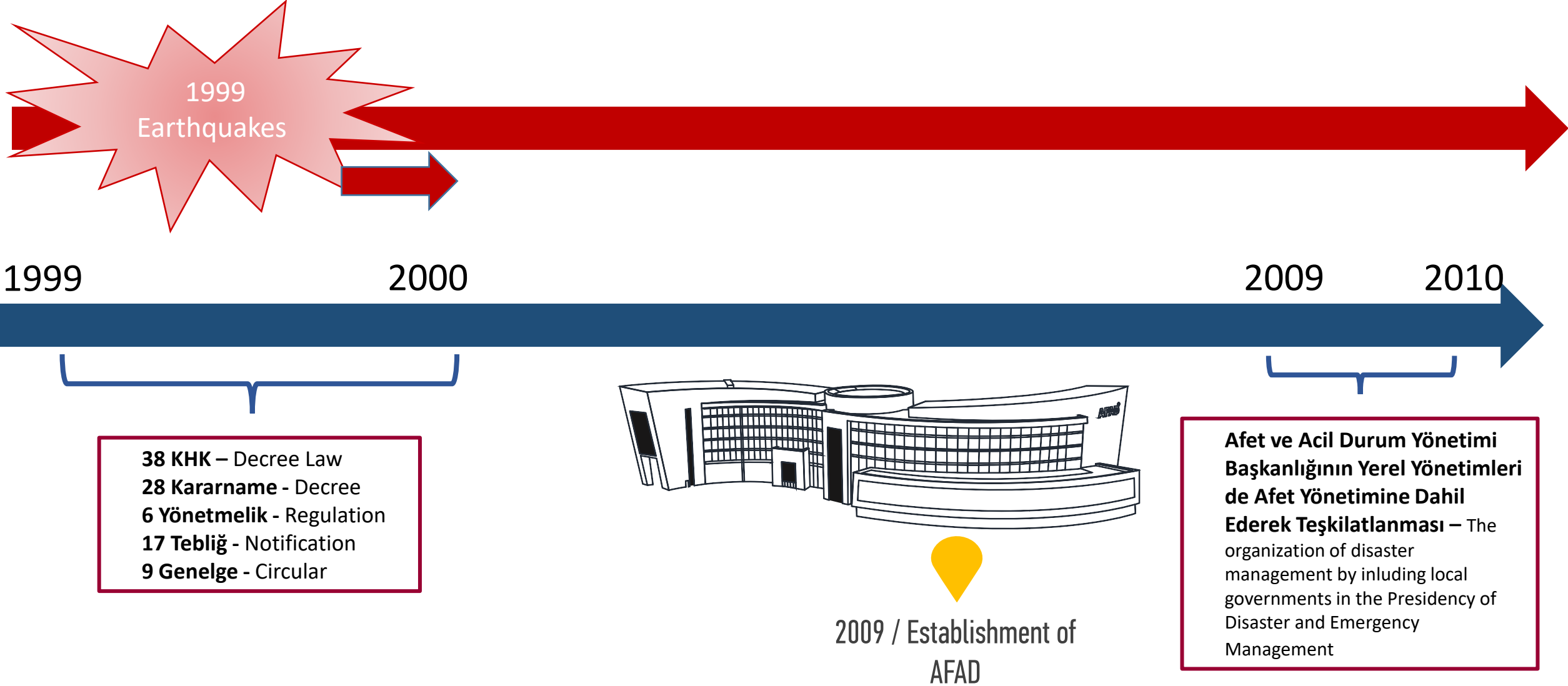
Law on Transformation of Locations under Disaster Risk

HISTORICAL BACKGROUND (BEFORE 2023 EQ'S)

Attempt to change legislation after every major earthquakes!



HISTORICAL BACKGROUND (1999-2010) / AFTER 1999 EARTHQUAKE



- ✓ The Decision on **Disaster-Affected Area to Public Life**; based on the relevant legislation and pursuant to **Law No. 7269**, issued by the Disaster and Emergency Management Presidency, **considering factors such as loss of life, number of severely damaged buildings, loss of large and small livestock, infrastructure damage, etc., resulting from a disaster.**
- ✓ In the event of such a decision, **affected citizens would be eligible for favorable credit opportunities from the state, provided they meet the eligibility criteria.** Additionally, cash assistance (for relocation, rent) may be provided to citizens, temporary shelter options can be arranged. **Moreover, tax, insurance, and credit payment deferrals may be granted by relevant authorities, and agricultural and livestock losses can be compensated.**

WHAT DO WE NEED and HOW TO FOCUS ON?

- 1. Innovative and durable construction:** Building behavior modeling in disaster situations and afterwards; seismic isolation/damper technologies; disaster-resistant architectural designs; advanced building materials and technologies (e.g. fire resistance, waterproofing, shock resistance, non-toxic); adaptation solutions that enhance durability, for example, for buildings in weak soils or flood-prone areas.
- 2. Digital technologies:** Damage assessment and early warning systems; advanced geographic information and remote sensing systems; artificial intelligence-based detection algorithms; sensor technologies.
- 3. Search and rescue:** Automatic and intelligent drone systems; fast and effective search and rescue; portable equipment and devices capable of imaging and detecting.
- 4. Resilient communication:** Uninterrupted communication systems; portable communication devices; battery technologies and alternative energy sources; resilient infrastructures and systems.
- 5. Health:** Disinfection, filtration, and storage solutions; autonomous environmental disinfection and sterilization; portable medical devices; resilient health services and infrastructures; nutrient-rich and functional foods and beverages.
- 6. Post-disaster waste management:** Safe demolition technologies; separation/classification and management solutions for construction and demolition wastes; conversion of construction and demolition wastes into construction materials and other secondary raw materials in compliance with circular economy principles.

- Natural disasters know **no boundaries and can cause significant damage and loss of life in multiple countries** simultaneously. Therefore, it is essential for countries to work together in building a resilient framework to mitigate the impact of natural disasters.
- Türkiye has a strategic location at the crossroads of Europe, Asia, and the Middle East. This gives the country unique access and influence in many regions affected by humanitarian crises. Türkiye has recognized the importance of this role and has **made a concerted effort to strengthen its international partnerships and expand its aid programs.**
- One of the most important lessons learned from the February 6th earthquakes is the critical importance of communication and providing accurate information to the public.
- It is vital that the Disaster Response Plans are well understood by the responsible institutions before a disaster, reinforced through drills, and that communication between the stakeholder institutions involved in these plans is maintained effectively.
- According to the Turkey Disaster Response Plan, most of the 1st and 2nd group support provinces, which were designated to provide assistance, were also affected by the earthquake and could not aid neighboring provinces. This must be taken into consideration in the new plan.

- Shortly after being appointed to the AFAD Department of Earthquake and Risk Reduction in January 2023, we experienced one of the largest disasters Anatolia has faced in the past 2,000 years, the February 6th earthquakes, in terms of its formation, impact, affected population.
- Before I was appointed to this position; I was previously working as a faculty member and researcher at a state university. About a month after my appointment, I experienced these major earthquakes.
- I'm not sure if it was bad luck, but these earthquakes became the biggest turning point in my life. From the very first minute, I was involved in all stages of the Disaster Management at the Disaster and Emergency Management Center for 77 days.
- I frequently visited the disaster area and witnessed the massive destruction. With deep sorrow in our hearts, we worked tirelessly and with great faith to help the region recover as soon as possible, enduring long days of sleeplessness.

- After 36 years in university life, the experience I have gained in the nearly two years I've been at AFAD is beyond anything. Unlike being a university professor, I experienced and continue to experience the immense feeling of being in the midst of life and touching people here.
- While it is not possible to prevent natural events, it is within our power to prevent them from turning into disasters, to minimize or completely eliminate the damages they could cause.
- We are aware of the many responsibilities we have and the difficulty of our work. With this awareness, we work day and night with our colleagues, focusing on risk reduction and increasing public awareness.
- I pray for the souls of the citizens we lost on February 6th and extend my condolences to their families and our nation.

- Initial response after a disaster is crucial.
- For this, it is very important to have response plans at the micro level prepared and continuously tested through drills.
- However, equally important, if not more so, are risk reduction and preparedness efforts.
- In this sense, while risk reduction activities are being carried out, it is also important to build disaster awareness and a culture of safe living within the community.
- As a tectonically active two countries with very similar features, USA and Turkey, collaborating more closely in this area and sharing their experiences with all countries worldwide would greatly contribute to reducing disaster hazards.



REPUBLIC OF TURKIYE
MINISTRY OF INTERIOR
Disaster and Emergency
Management Presidency

AFAD

We commemorate our
citizens who lost their
lives in the
earthquakes with
respect and mercy!



AFAD[®]

THANK YOU