



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

TOWARDS DISASTER-RELATED STATISTICS IN TURKEY

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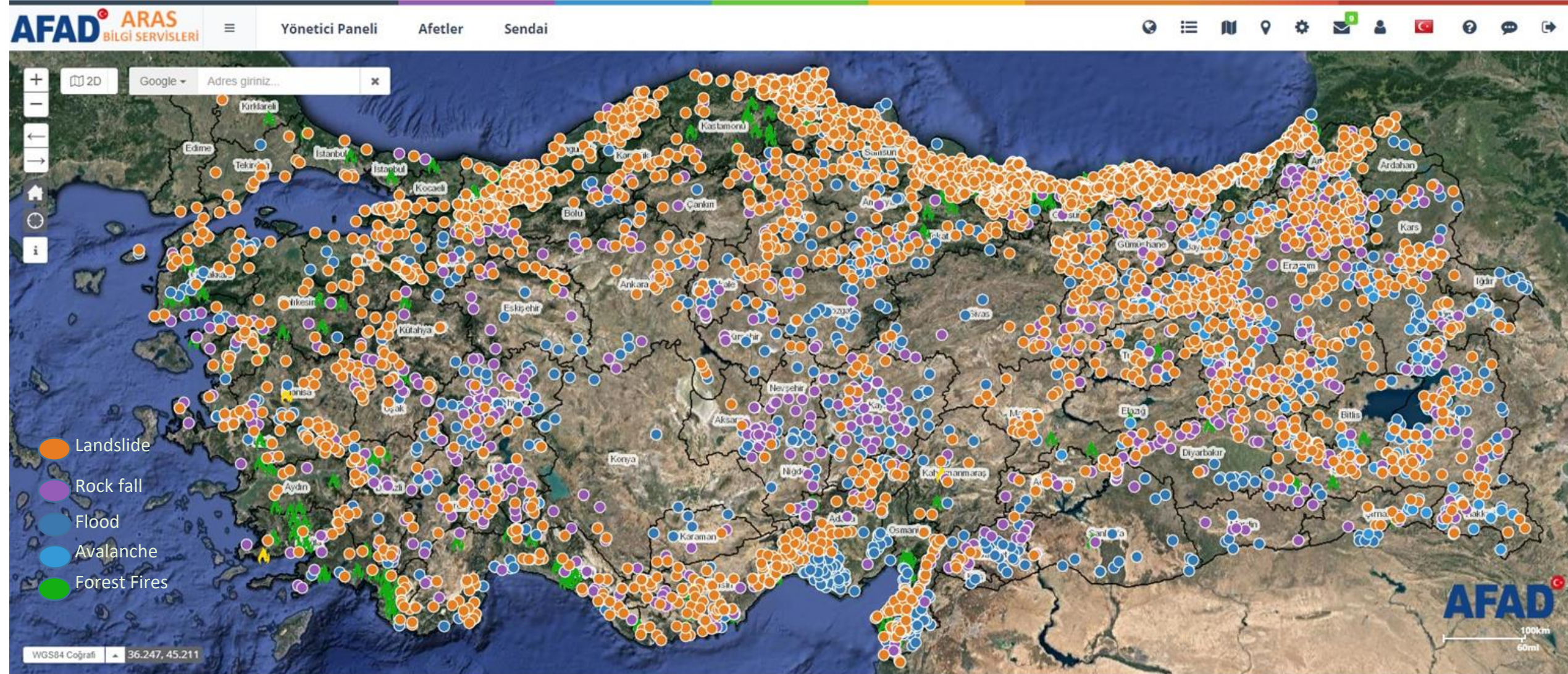
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Content



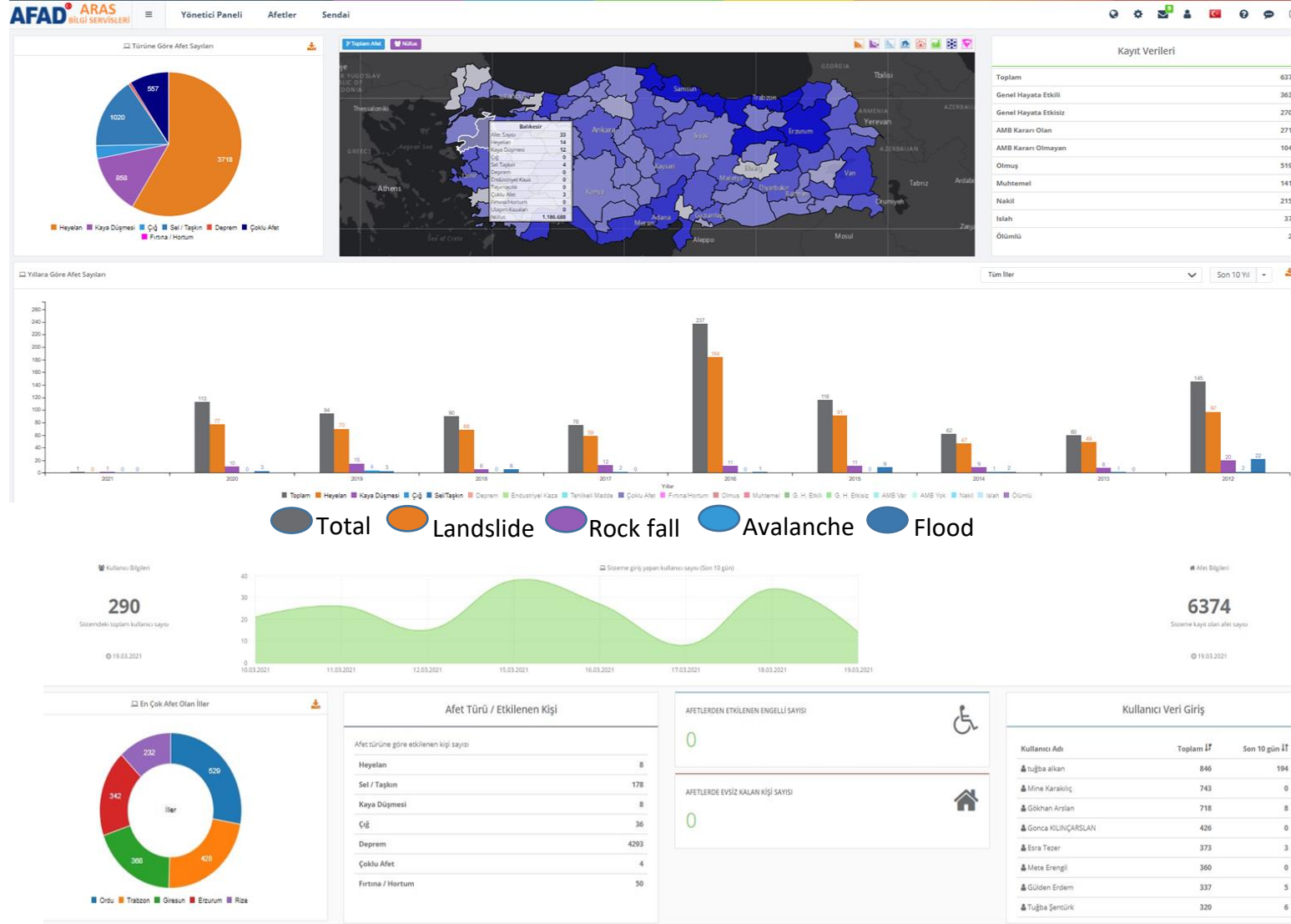
- Introduction
- Disasters in Turkey
- Towards the Turkish Official Disaster Statistics
 - Disaster data: present status
 - Disaster Risk Reduction System (ARAS)
 - Sendai Framework National Reporting
 - Disaster Management Decision Support System (AYDES)
 - The 3rd Official Statistics Programme (2017-2021)
 - Data integration policies and mechanisms
 - Data sources
 - Division of labour of AFAD and NSO
- Opportunities and challenges
- Way forward

Disasters in Turkey



Disaster Data:

Disaster Risk Reduction System (ARAS) Disaster Information Services



Number of Disasters by Type

Number of Disasters by Year
Last 10 years

6374 reports have been transferred to the system so far

SENDİ RAPOR DÖNEMİ VE BİLGİLERİ

Type of Disaster

Afet Türü

Afet Türü Giriniz...

Province

il

il Adı Giriniz...

Year

Rapor Yılı

Rapor Yılı

Number of Affected People

AFETZEDE BİLGİLERİ

Bilgilendirme

Can Kaybı Sayısı

Can Kaybı Sayısı !

Kaybolan Kişi Sayısı

Kaybolan Kişi Sayısı !

Yaralı/Hasta Kişi Sayısı

Yaralı/Hasta Kişi Sayısı !

Damaged/Destroyed Health Facilities

ZARAR GÖRMÜŞ/TAHRİP OLMUŞ SAĞLIK TESİSLERİ

Bilgilendirme

Hastane

Hastane !

Poliklinik (Özel/Semt)

Poliklinik (Özel/Semt) !

Aile Sağlığı Merkezi

Aile Sağlığı Merkezi !

Toplam Sağlık Tesisi

Toplam Sağlık Tesisi !

Damaged in Housing Sector

KONUT HASAR DURUMU

Bilgilendirme

Az Hasarlı Konut

Az Hasarlı !

Orta Hasarlı Konut

Orta Hasarlı !

Ağır Hasarlı Konut

Ağır Hasarlı !

Yıkık Konut

Yıkık !

Hasar Gören İşyeri Sayısı

Hasar Gören İşyeri Sayısı !

Agricultural Loss Attributed to Disasters

AFETE DAYALI TARIMSAL KAYIPLAR

Bilgilendirme

Tarımsal Ürün Alanı (Ha)

Tarımsal Ürün Alanı (Ha) !

Orman Alanı (Ha)

Orman Alanı (Ha) !

Küçükbaş Hayvan Kaybı

Küçükbaş Hayvan Kaybı !

Büyükbaş Hayvan Kaybı

Büyükbaş Hayvan Kaybı !

Kümes Hayvanı Kaybı

Kümes Hayvanı Kaybı !

Toplam Hayvan Kaybı

Toplam Hayvan Kaybı !

- An All-in-One Solution for Geospatial, IT-Based Disaster Management and Decision: “Incident Command System”, “Spatial Information System” and “Recovery Information System”

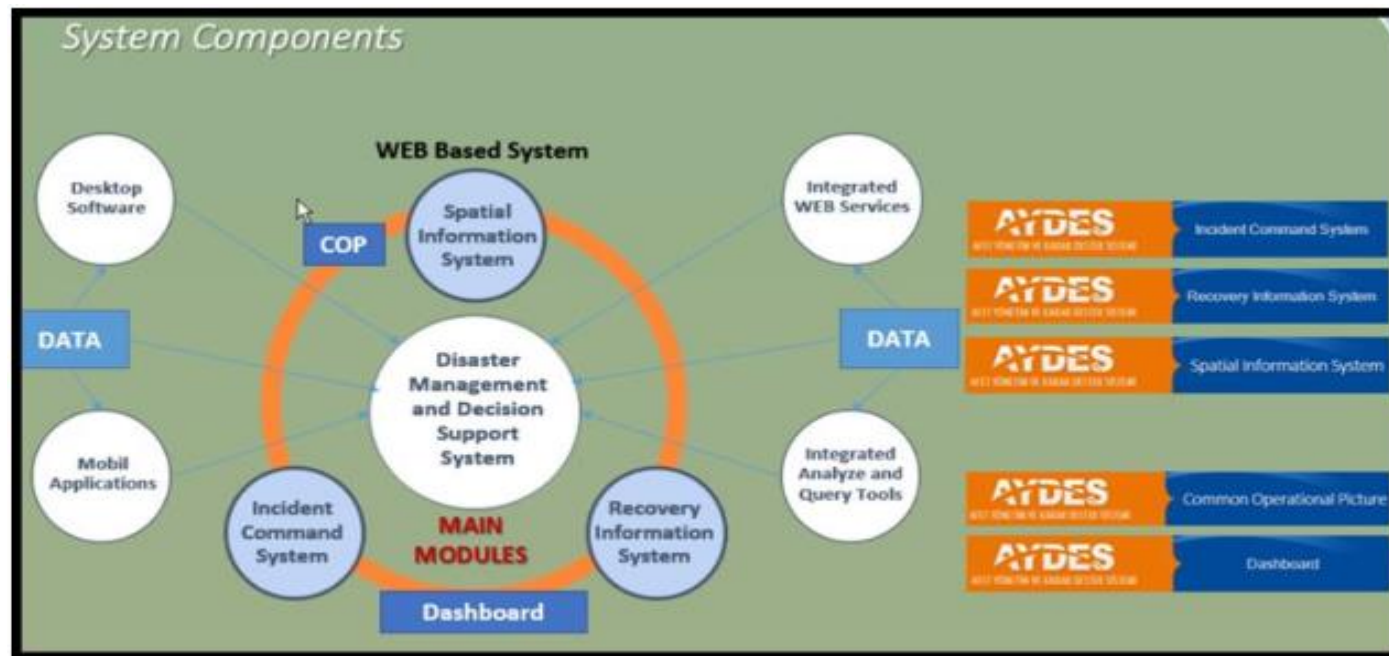


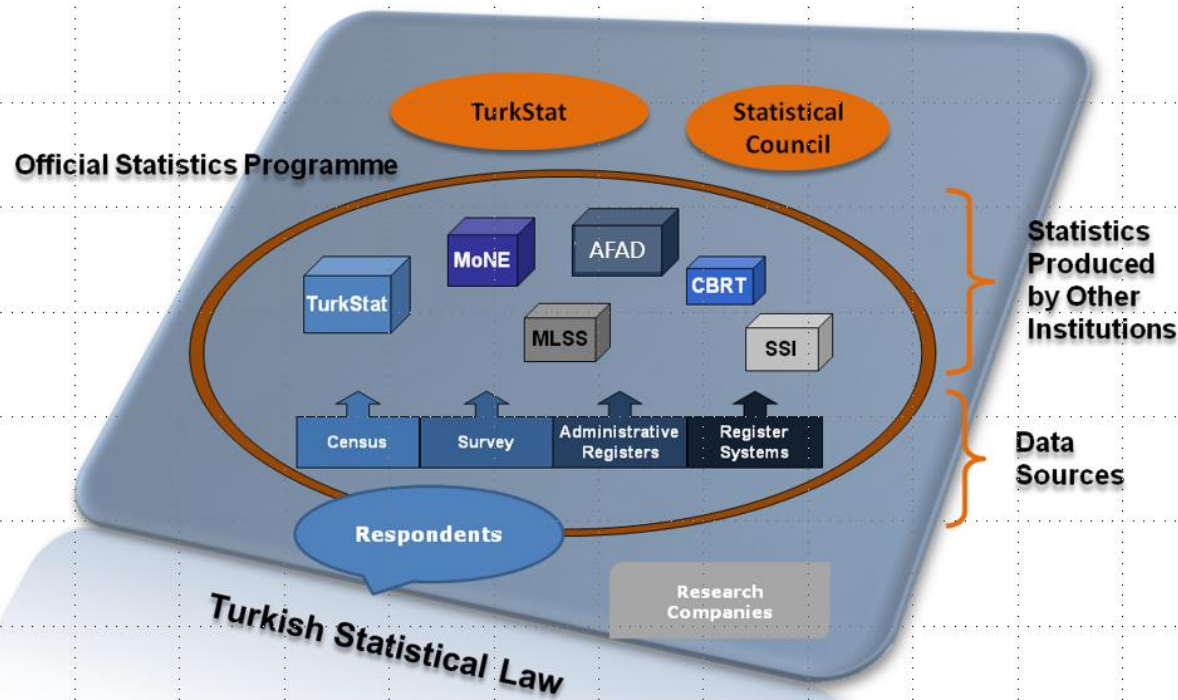
Figure 1. System components of AYDES

- Integrated with many internal and external systems and services including collaborative Ministries, private institutions and provincial organizations
- According to the National Disaster Response Plan

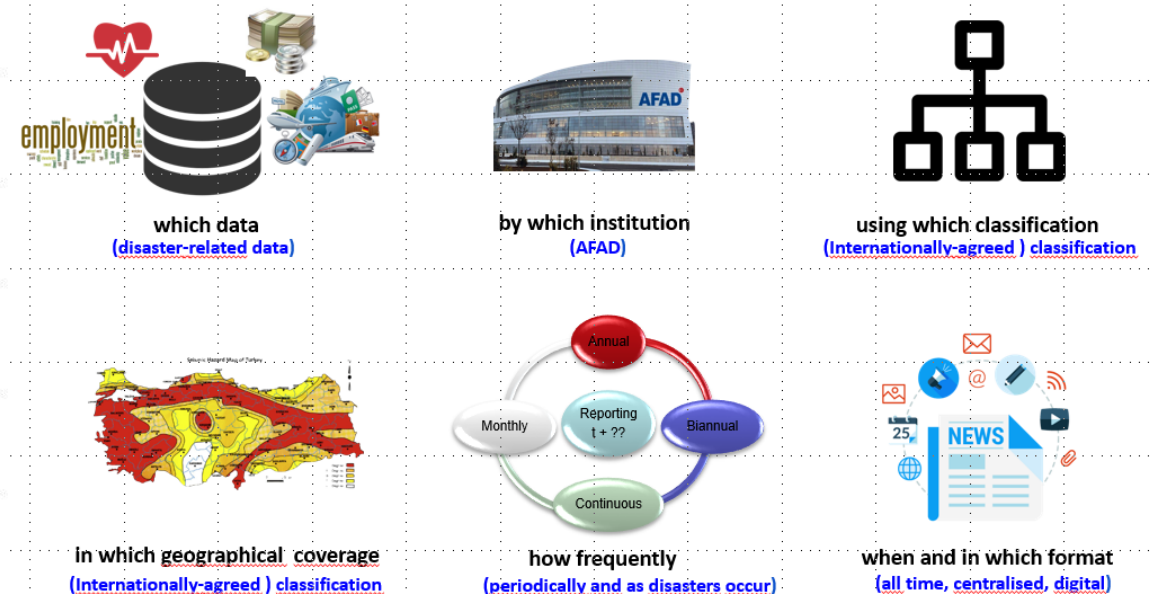
Towards Integrated Official Disaster Statistics

A comprehensive Disaster data and information management as an integration of Disaster Management System and National Statistical System

Turkish Statistical System



Official Statistics Programme



Types of Disaster-Related Data



Data on disaster events according to an agreed definitions, classifications, by time and geographical areas (Potentially from ARAS)

Quantitative measures of hazards, vulnerability, exposure and response capacities (Potentially from AYDES)

Quantitative measures disaster-induced damages, disruption of basic services, economic losses, and critical infrastructure, environment and cultural heritage (potentially from DESINVENTAR)

Monetised resources allocated and spent on Disaster Risk Management (new data to be compiled)

Disaster-related Data Sources

| | Institution | Type of Disaster |
|----|---|--|
| 1 | Ministry of Interior Disaster and Emergency Management Authority (AFAD) | Natural disasters (earthquake, flood, landslide, rock fall, avalanche) |
| 2 | Turkish State Meteorological Service (MGM) | Extreme hot/cold, excessive rain |
| 3 | General Directorate of State Hydraulic Works (DSİ) | Flood (especially river flood) |
| 4 | General Directorate of Combating Desertification and Erosion (ÇEM) | Desertification and erosion |
| 5 | Ministry of Interior | Road traffic accidents |
| 6 | Ministry of Agriculture and Forestry | Effects of desertification and excessive rain on farmlands, Data about epidemic diseases related to animals etc. |
| 7 | General Directorate of Forestry (OGM) | Forest fires |
| 8 | Ministry of Health | Epidemics |
| 9 | Ministry of Environment and Urbanization (ÇŞB) | Industrial accidents |
| 10 | Ministry of Transportation and Infrastructure | Transportation accidents (railway, aviation, maritime) |
| 11 | General Directorate of Mineral Research and Exploration (MTA) | Earthquake and landslide |

Division of Labour



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A member of UNECE Task Force on Measuring Extreme Events and Disasters

A member of UNESCAP Expert Group on Disaster-Related Statistics Framework

MAIN TASKS

- Implement the 3rd Official Statistics Programme, based on the Statistics Law of Turkey No 5429, to include Disaster Statistics as part of the Environment Statistics
- Coordinate official statistics
- Support and ensure alignment with national and international standards

- Implement National Disaster Response Plan / Türkiye Afet Müdahale Planı - TAMP
- Coordinate the information & Planning service (I&P) including management, monitoring and evaluation
- Collect and analyse disaster data from ministries, provinces, private sector, etc for disaster risk management (prevent, mitigate/reduction, response, recovery)

SUPPORTING TASKS

- Technical assistance / advice on statistical matters
- Provide economic, social and environmental data/statistics for disaster risk management purposes

- Technical assistance / advice on disaster-related matters
- Provide disaster-related data/statistics for development and other national commitments including SDGs

OPTIONAL TASKS

- Publication of official statistics

- Monitoring and reporting on national priorities, Sendai Framework and other national commitments

The Way Forward

Opportunities

- The availability of disaster records going back hundreds of years
- The coordination role of AFAD

Challenges

- Keep the data in different systems and with different methods

Steps to Take

- Updating the Disaster Management Decision Support System (AYDES) in order to compile disaster statistics on a single system in Turkey

THANK YOU...

