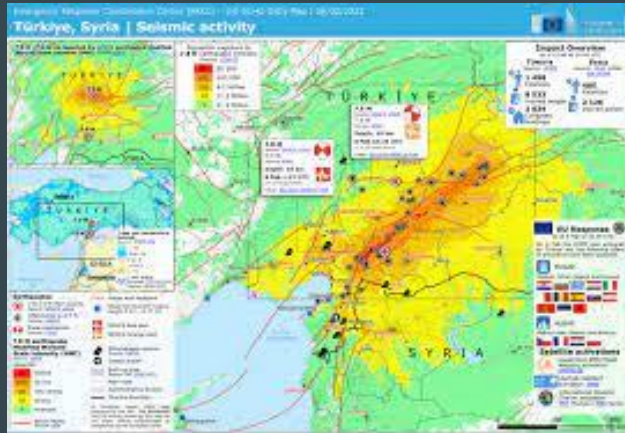# 2023 Earthquake in Turkey and Syria: A Case Study
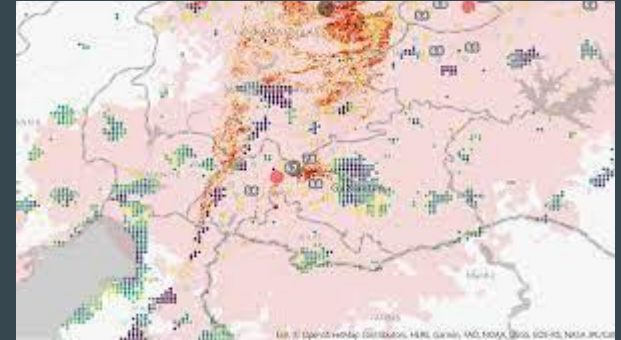
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Kelsey Patterson

Facts of the Case

- Feb 2, 2023
- Magnitude 7.8 earthquake —- another 7.5 earthquake struck 9 hours later
- 55,000 died, 13,000+ injuries
- 50,000 buildings destroyed
- Damages: $5.2 billion in Syria; $34.2 billion in Turkey

Epidemiological Aspects

- Gathering data:
    - Precision mapping
    - Social media posts
- Analysing data
    - NeedsMap
        - Where people need help
        - Where aid can be dispersed from
    - Data for Good at Meta
        - Where people are moving
- Data used for:
    - Tracking mobility patterns
    - Understanding where aid was needed
    - Mapping damaged buildings

Management of the Event

- Factors slowing rescue:
    - Slow emergency response times
    - Lack of equipment and expertise
    - Political values (Syria)
    - Weak infrastructure
- Organizations that helped
    - NATO, EU, other countries
    - WHO + medical response teams
    - World Vision

Communication of the Event

- Syrian President
    - Chaired emergency meetings
    - Did not address the public
- Turkey state authorities
    - Declared level 4 emergency
    - President declared 3 month state of emergency

What could have been done differently

- Building infrastructure
- Response times
- Addressing the public
- Allowing aid past the borders
- Action plans