White House Pushes Tech C.E.O.s to Limit Risks of A.I.

In the White House's first gathering of A.I. companies, Vice President Kamala Harris told the leaders of major tech companies they had a “moral” obligation to keep products safe.
Housing
Duration of the Initial Earthquake: > 90 seconds

Top 3 most destructive earthquakes since 1900 (n=269):
1939 Erzincan, 1999 Marmara and 2023 Elbistan
48,448 deaths.
3.3 million people displaced.
2 million people sheltered in tent camps and container settlements.
USD 103.6 billion Estimated total damage.
USD 66.1 billion Damages and losses in the housing sector.
Estimated total debris: 10x 1999 Marmara earthquake.

SOURCE: https://www.sbb.gov.tr
Resilience:
A Moving Target
**Resilience: A Moving Target**

Some Actions taken by Turkey after the 1999 Marmara Earthquake

- A Natural Catastrophe Insurance Pool was introduced (2000).
- A single institution, the Disaster and Emergency Management Agency, was created (2009 under PM’s office, moved under MOI in 2018).
- A Disaster Risk Reduction Platform was established (2011).
- Laws on Building Inspections (piloted in 2001, implemented in 2011, modified in 2018) and Transformation of Spaces under Disaster Risk (2012) were enacted.
- The Regulation on Spatial Planning (2014) was published and the one on Earthquake Resilience was updated twice (2007, 2018).
- The Country’s Hazard Map was renewed (2018).
- The National Earthquake Strategy and Action Plan was produced (2023).
Resilient Housing: From Tragedy to Triumph
Earthquake-Proof, Not Corruption-Proof: Turkey’s Needless Deaths

Turkish families got wealthy off a construction system rife with patronage. A Times investigation reveals just how fatally shaky that system was.
Images of the wreckage made clear that all three towers broke off around the ground floor.

[i] Accepted image by ARHAR/IRI taken on Feb. 15.
The most vulnerable part of Renaissance was the ground floor, which had an open layout. To make room for recreational spaces, this level had fewer masonry blocks than elsewhere, as well as taller columns that were more susceptible to lateral motions in quakes.

That most likely created a vulnerability called a soft story.
Homes that need to be inspected in-person
Homes with reinforced masonry in Padang, Indonesia
Likelihood of Complete Damage in a Hurricane Category 5 in Castries, St. Lucia
Homes exposed to high flood risk in Asuncion, Paraguay
What we do

We partner with governments and companies to save lives and strengthen communities and entire economies – on the ground by strengthening our homes and in our cities.

**A Housing Portal to Find, Build and Strengthen Homes**

**By**

The Global Program for Resilient Housing

How? We use machine learning algorithms to extract detailed geospatial data from high resolution images taken from the sky and the streets and combine it with existing health, social and economic datasets to produce house-by-house maps of entire cities. We shine a light on the opportunities to expand, strengthen and protect existing homes.

Our technology allows us to generate an unprecedented amount of data at a fraction of the cost in a fraction of the time. With more and better geospatial data, we can accelerate ideas into
• The Housing Portal can show more than 25 characteristics for complete cities, neighborhoods or housing units.

• It is interactive, and allows users to define their own areas of analysis and examine their neighborhood or block.
What did we learn?
HUMILITY
FOCUS
COLLABORATION
BREAKING SILOS
SELF-CONFIDENCE
United States: Changes in types of employment

Millions of people employed in 2018. Most people employed in the United States in 2018 worked in jobs that did not exist in 1940.

<table>
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<tr>
<th>Occupations that existed in 1940</th>
<th>Occupations that did not exist in 1940</th>
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<tbody>
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<td>Professionals</td>
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<td>Managers</td>
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<td>Clerical and administration</td>
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<td>Production</td>
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<td>Construction</td>
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<td>Personal services</td>
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<td>Technicians</td>
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<td>Cleaning services</td>
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<td>Health</td>
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<td>Farming</td>
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SELF-CONFIDENCE
BOLD VISION
What's Next?
The Measure of Success
Everybody is safe during disasters
Everybody has access to the right housing solution, at the right location and at the right price, before, during and after a disaster.
The housing gap is closed with the smallest carbon footprint
Thank you!

Luis Triveño
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