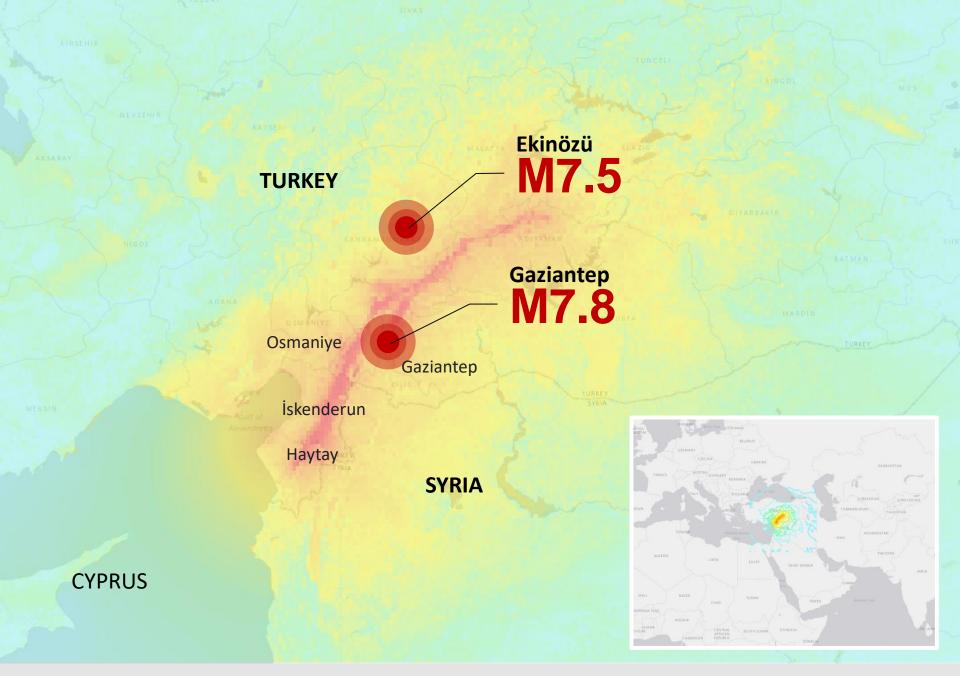
ousing Disaster Recovery and Reconstruction Dr. Kit Miyamoto Global CEO Humanitarian Coordinator

miyamoto.

Save lives, impact economies.

Housing Reconstruction Principles

- Rapid Damage Assessment
- Identify repairable structures
- Community engagement
- Community approach
- Government engagement
- Private sector investment (PPP)
- Leave much money at local level by buying and hiring local; Create Jobs
- Respect culture and heritage
- Quality control of construction, capacity building
- Speed matters



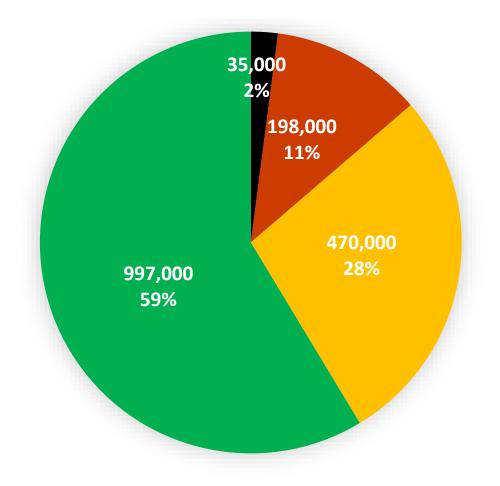




Impact

- Affected 14M people
- 51,000 fatalities, 107,000 injuries
- 4.1M displaced people
- \$104 billion direct damage (9% of GDP)

Total affected buildings: 1,700,000

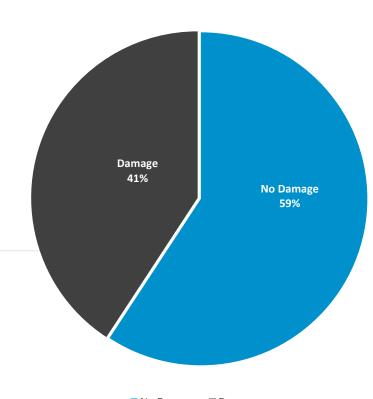


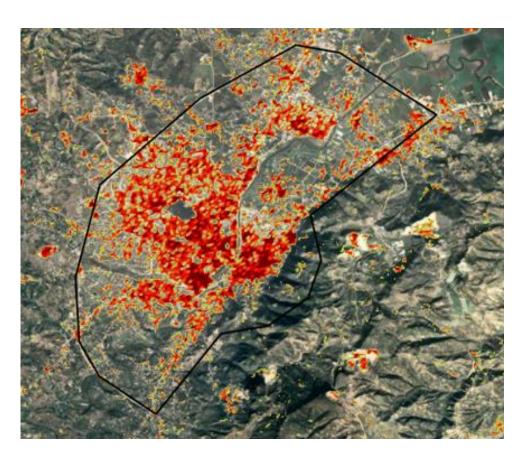
Collapsed
Severe Damage
Light/Moderate
No Damage

Why?

- Turkish Building Code changed in 1998
- No license system for contractors
- No inspection required by engineers

Hatay





■ No Damage ■ Damage







Rapid and Sustainable Shelter Solutions for Affected Communities





Habitat for Humanity

Activities

- Reoccupation of repairable houses and apartments to decompress IDP
- Engagement with communities
- Engagement with government, private sector, and UN shelter sector

Light/Moderate Damaged Buildings

- Rapid Reparability and BOQ Assessment by app; Survey123/ARCGIS
- Rapid Structural Vulnerability Assessment
- Green tag of undamaged buildings
- Affect 165,000 people

KONTROL EDİLMİŞTİR ikamete uygundur

Bu bina aşağıda belirtildiği üzere incelenmiş ve görünürde yapısal bir hasar tespit edilmemiştir.

Tarih	Saat	İnceleyenin kimliği / Kurumu
		İnceleyenin Yorumları Bu yapı mevcut koşullar altında görsel olarak
 Dıarıdan İncelenm İçeriden ve Dıarıda 		
 Tehlikeli durumları ilgili makama bildiriniz; tekrar kontrol gerekebilir ! adına kontrol edilmitir. Dikkat : İncelemeden sonraki artçı-depremler, hasar ve tehlikeyi artırabilir ! 		

miyamoto.PROTEK



Bu Belgeyi İlgili Makamdan İzin Almadan Kaldırmayınız, Değiştirmeyiniz, veya Üzerini Kapatmayınız !

Ukraine Reconstruction

More than 150,000 housing units have been damaged (June 2022)

- Housing \$69 billion
- Education \$9.2 billion
- Health \$15.1 billion





























Current Programs

- 100 schools repair
- 12,000 housing unit repair
- Asbestos-Debris guideline development
- •UNOPS, IOM, ECHO, Japan, Center for Disaster Philanthropy





Microdistrict Druzhby narodiv

Apartment Buildings Schools Commercial Buildings

Kharkiv; Community based approach



Druzhby narodiv, 225 Heavy damages Number of units – 126



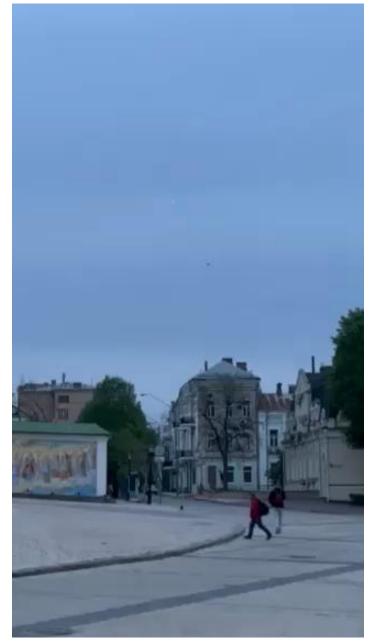
Druzhby narodiv, 227 Light damages Number of units – 126



Kindergarten Light and Medium Damages

MIYAMONO.UKHAINE





Kyiv, last week







miyamoto. Ukraine

ВІДНОВЛЕННЯ. ПЕРЕМОГА. ВІДБУДОВА.

make the world a better, safer place