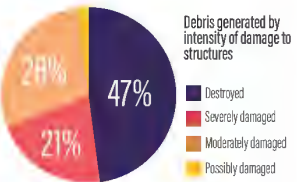


This initial quantification of conflict generated debris in the Gaza Strip is derived from UNOSAT Comprehensive Damage Assessment from 4 April 2025, in conjunction with updated building footprint as of May 2023 based on the national statistical office data. Damaged building footprints were enriched through zonal statistics with an above surface height model, derived from the difference between a DTM (SRTM) and a DSM (ALOS World 3D) as provided by the European Commission in the GHS-Built H product.

For modelling purposes, minimum building height is considered to be 3m. Each built sq. meter is considered to have generated 1t of debris. Results are aggregated into an hexagonal grid where each cell is 250m wide.

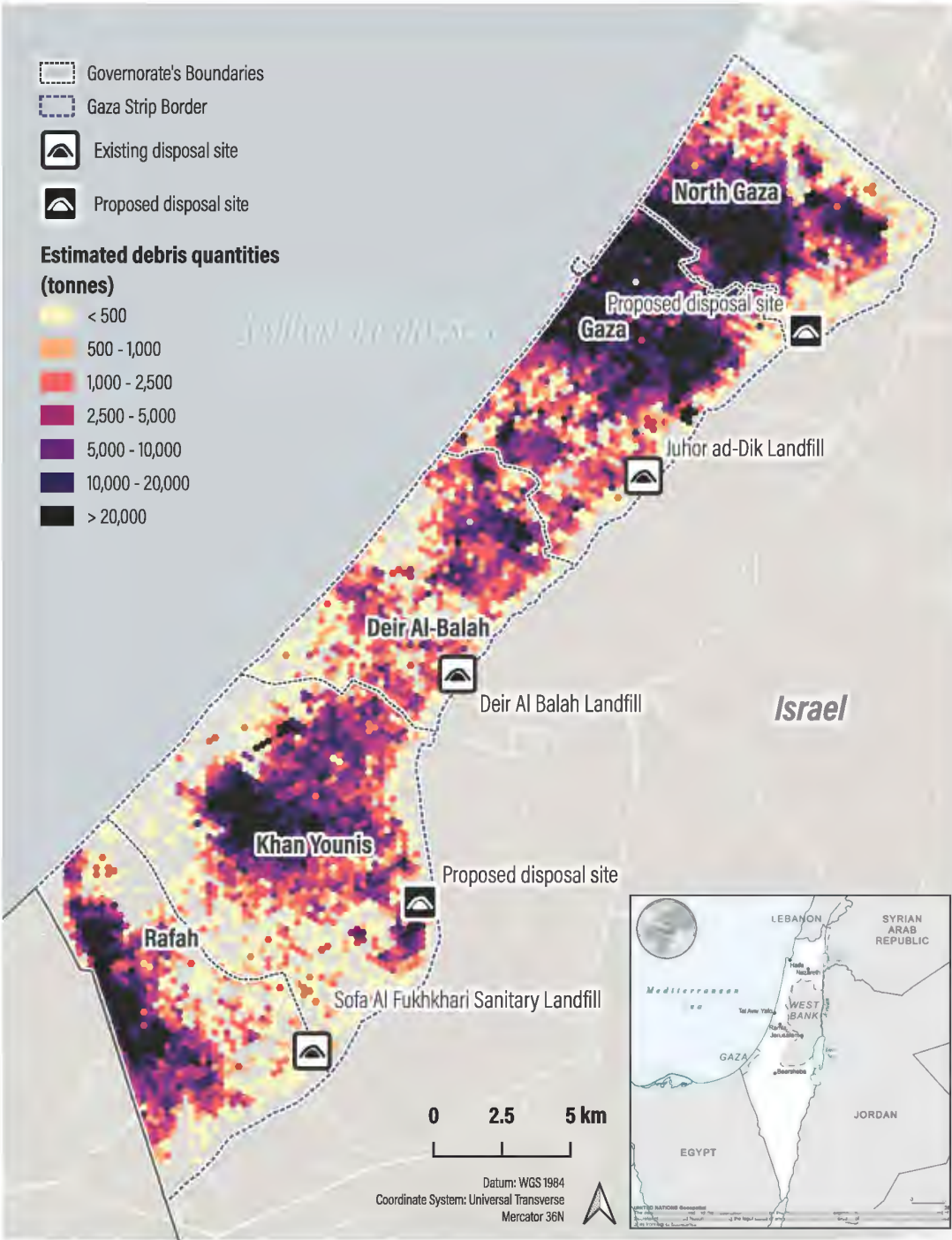
Total debris quantity **53,466,870 t**

According to UNOSAT damage assessment, a total of 174,526 structures were damaged in the Gaza Strip as of 4 April 2025.



For the debris optioneering the following scenarios were developed and applied:

- A. Disposal of all debris at a debris disposal site located centrally in each of the following zones: North Gaza, Gaza, Deir Al-Balah, Khan Younis and Rafah;
- B. 50% disposal of the debris to locations as above scenario A, and 50% recycling of the debris at the following sites using 105 trucks: 1 centralised debris recycling in North Gaza, 1 centralised debris recycling in Gaza, 1 centralised debris recycling in Khan Younis that serves Deir Al-Balah, Khan Younis and Rafah.



SCENARIO 1 - ALL TO DISPOSAL Debris Management Outputs		SCENARIO 2 - 50% RECYCLING Debris Management Outputs	
Time to clear with 105 trucks (years)	22	Time to clear with 105 trucks (years)	22
Time to recycle (years)	0	Time to recycle (years)	18.6
Total time to clear and recyle (years)	22	Total time to clear and recyle (years)	22
Total cost to clear (US\$) including project management	1,022,451,068	Total cost to clear (US\$) including project management	1,241,048,309
Revenue from recycling (US\$)	0	Revenue from recycling (US\$)	401,001,525
Cost less revenue (US\$)	1,022,451,068	Cost less revenue (US\$)	840,046,784
Total distance covered (km)	25,309,800	Total distance covered (km)	25,309,800
CO2e from trucking (tCO2)	86,685	CO2e from trucking (tCO2)	86,685
Cost of haulage (US\$)	748,536,180	Cost of haulage (US\$)	748,536,180
Material recovered for reconstruction (tonnes)	0	Material recovered for reconstruction (tonnes)	26,733,435
Material recovered for reconstruction (%)	0	Material recovered for reconstruction (%)	50
Cost of processing of debris (US\$)	0	Cost of processing of debris (US\$)	187,34,045
Value of recovered material in market (US\$)	0	Value of recovered material in market (US\$)	401,001,525
Total cost of natural raw materials substituted (US\$)	0	Total cost of natural raw materials substituted (US\$)	721,802,745
Material disposed	53,466,870 t (100%)	Material disposed	26,733,435 t (50%)
Total space required for disposal (ha/donum)	633 / 6,327	Total space required for disposal (ha/donum)	316 / 3,163
Value of land taken by disposal (US\$/5 years)	6,327,440	Value of land taken by disposal (US\$/5 years)	3,163,720