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Geo-data usage during the Beirut Port Explosions

FIRST EXPERT FORUM FOR PRODUCERS AND USERS OF DISASTER-RELATED STATISTICS, ONLINE

BEIRUT PORT EXPLOSIONS

WHAT HAPPENED?

On 4 August 2020, a large concentration of ammonium nitrate ignited in a warehouse at the Beirut Port.

- Two devastating explosions destroyed most of the near -by facilities
- The explosions punched through buildings for miles around:
    - collapsing homes,
    - severely damaging shops, schools, and hospitals,
    - scattering debris
    - destroying the country's grain reserves stored at the Port's silos
    - destroying the MoPH central warehouse (where PPE & life -saving medicines and supplies, and vaccines are stored)

BEIRUT PORT EXPLOSIONS

IMPACT

IMPACT OF THE EXPLOSIONS

- Nearly **200 people killed** and approximately **6,500 injured**.

- Within a **3-kilometer radius** from the Port, **73,000 apartments** in **9,200 buildings damaged**, affecting **219,000 people**.

- Over **70,000 workers** estimated to have lost their jobs, with direct implications for over **12,000 households**.

- **15,000 metric tons** of grain reserves stocked at the Port lost.

- At least **six hospitals** and **20 clinics damaged**; at least another **80 health care facilities** severely or partially damaged.
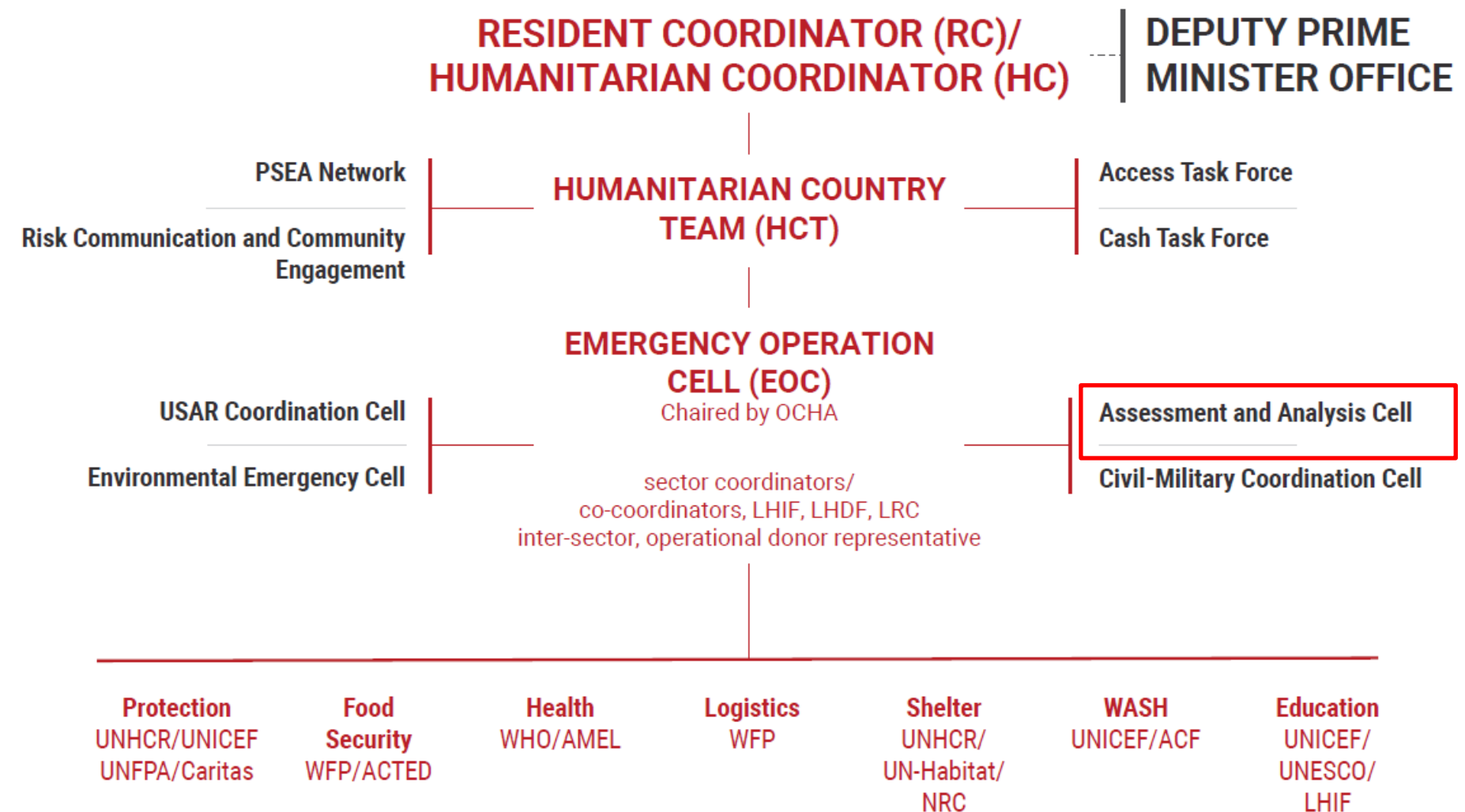
- At least, **17 containers** of WHO essential medical supplies and PPE destroyed.

- At least **163 public and private schools** damaged, including technical and vocational education and training
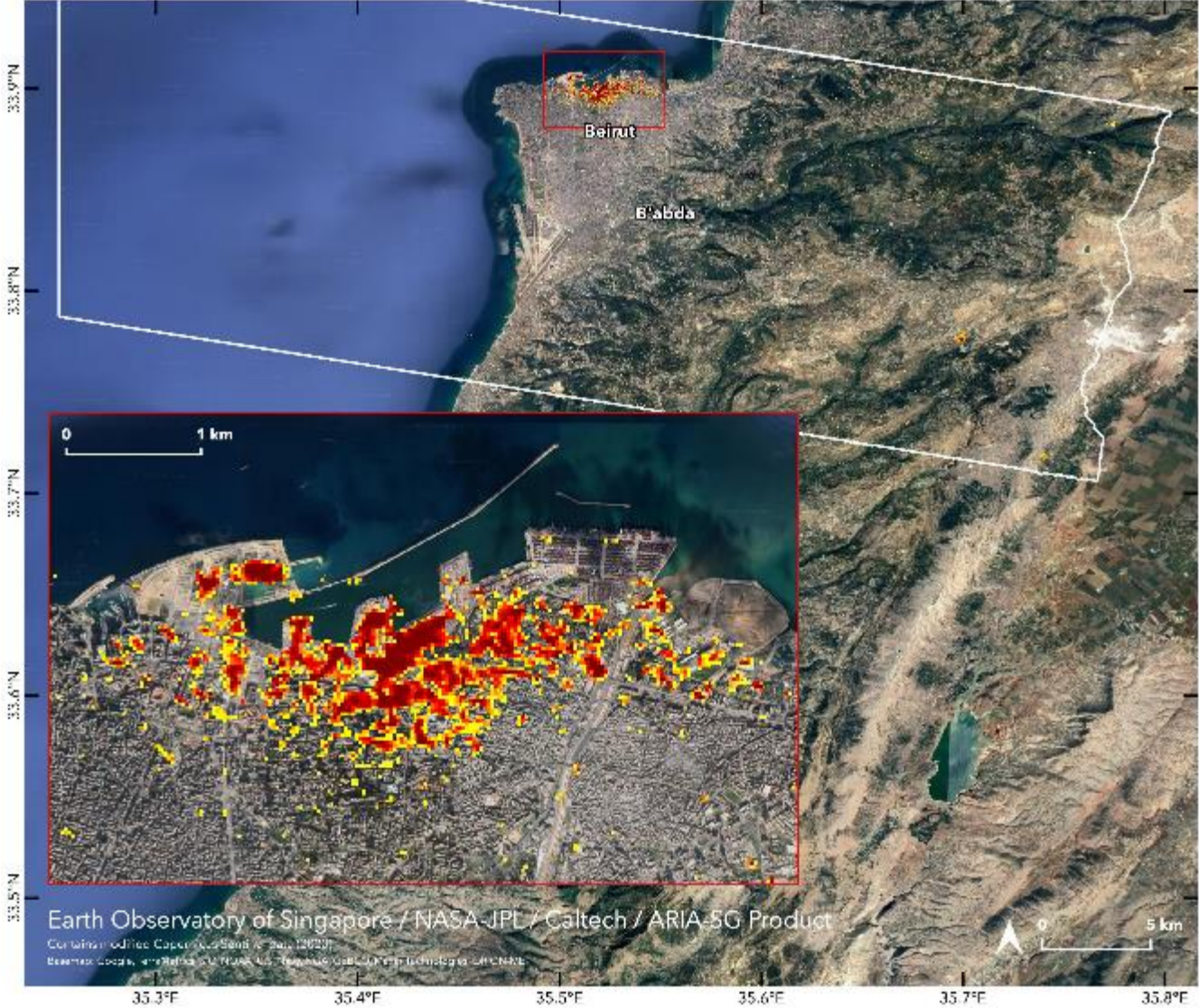
BEIRUT PORT EXPLOSIONS

COORDINATION STRUCTURE

RESIDENT COORDINATOR (RC)/ HUMANITARIAN COORDINATOR (HC) — **DEPUTY PRIME MINISTER OFFICE**

PSEA Network

Risk Communication and Community Engagement

HUMANITARIAN COUNTRY TEAM (HCT)

Access Task Force

Cash Task Force

EMERGENCY OPERATION CELL (EOC)
Chaired by OCHA

USAR Coordination Cell

Environmental Emergency Cell

Assessment and Analysis Cell

Civil-Military Coordination Cell

sector coordinators/
co-coordinators, LHIF, LHDF, LRC
inter-sector, operational donor representative

Protection	Food Security	Health	Logistics	Shelter	WASH	Education
UNHCR/UNICEF UNFPA/Caritas	WFP/ACTED	WHO/AMEL	WFP	UNHCR/ UN-Habitat/ NRC	UNICEF/ACF	UNICEF/ UNESCO/ LHIF

Usage of remote sensing data coupled with ground checking
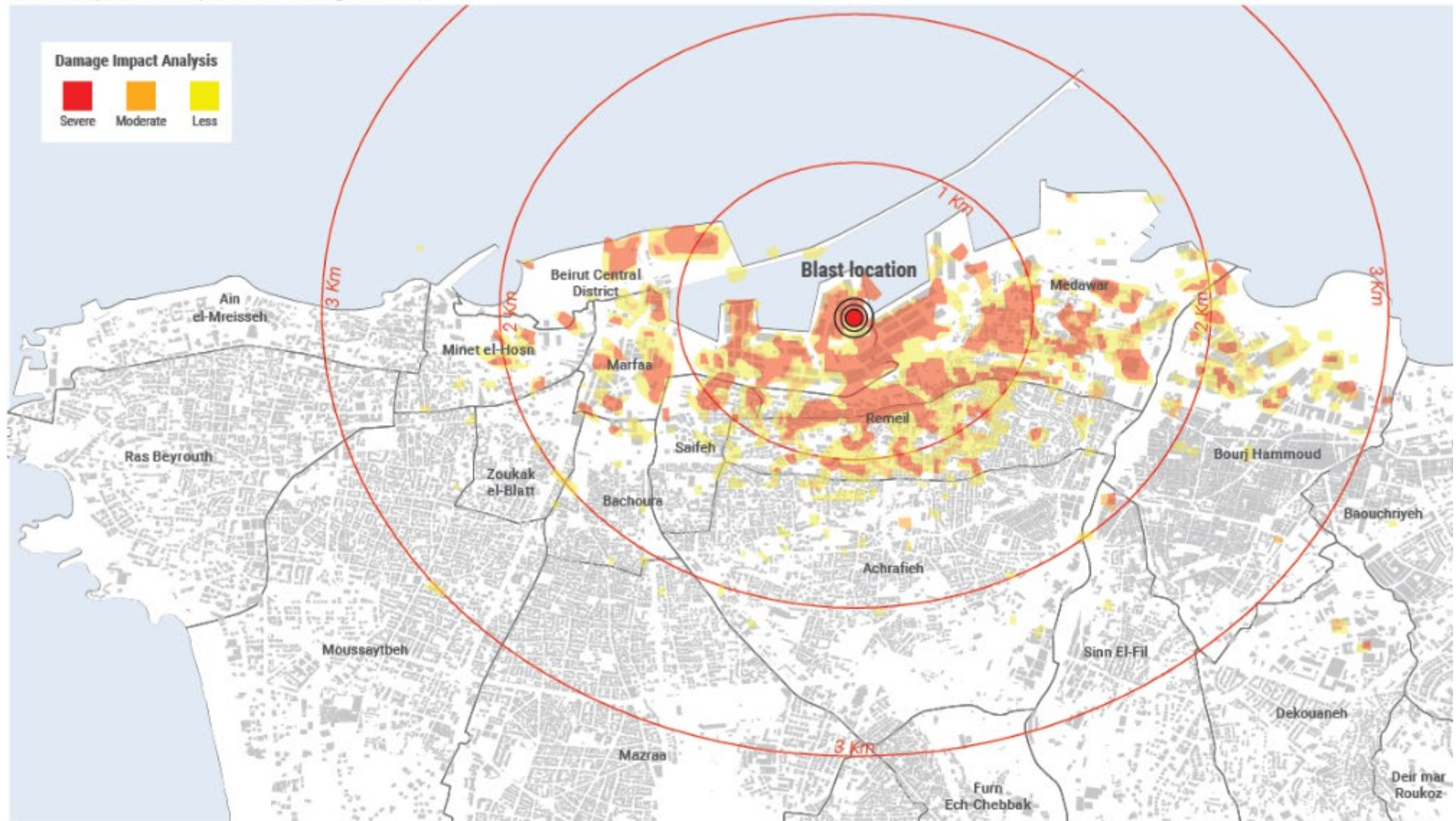
SATELLITE DATA ANALYSIS

DAMAGE IMPACT

SATELLITE DATA ANALYSIS

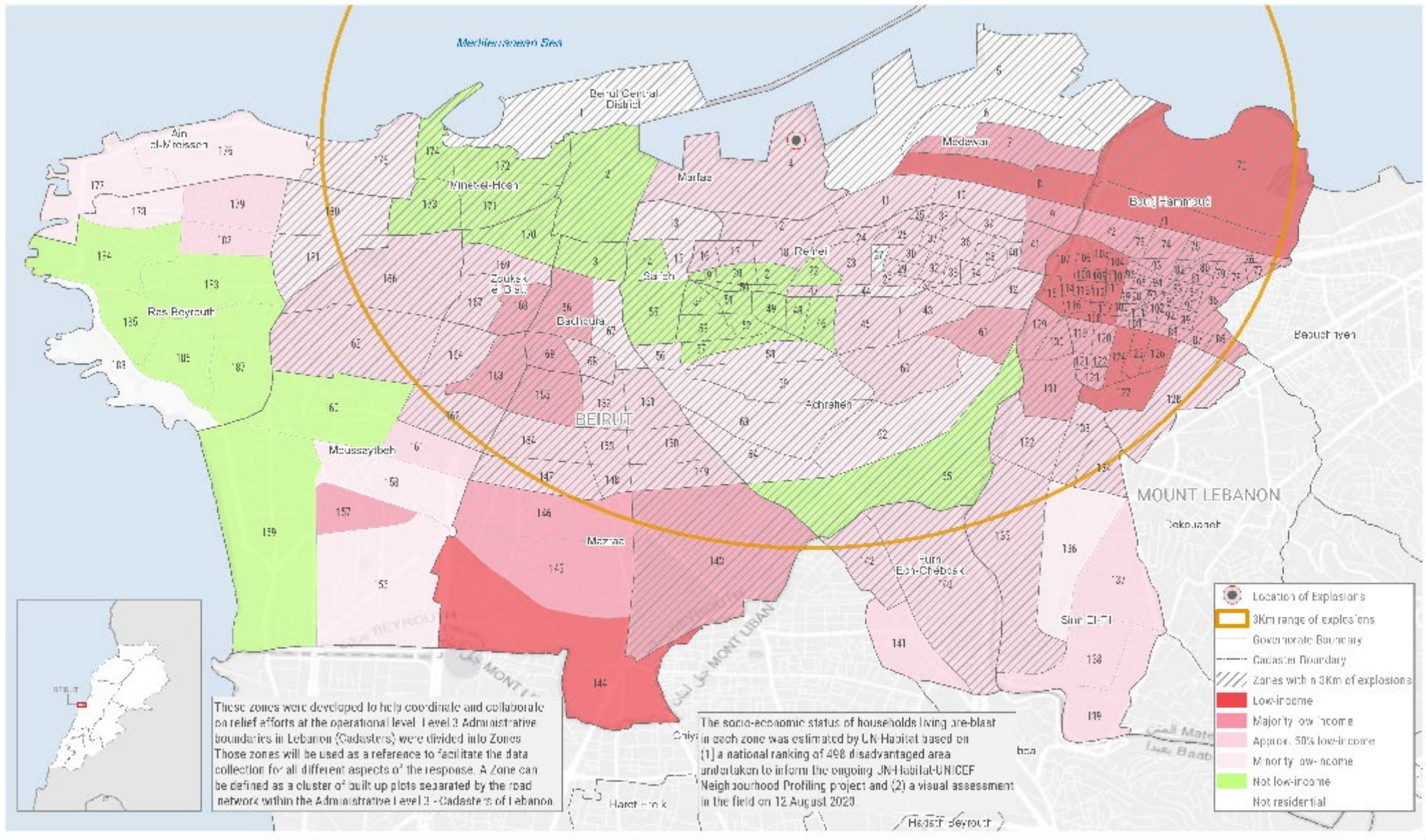Beirut explosions exposure on 4 August 2020

Damage impact analysis by ARIA team scientists at NASA JPL, Caltech, and Earth Observatory of Singapore. Located in Pasadena, California, Caltech manages JPL for NASA - Map produced by OCHA

OPERATIONAL ZONES

ZONES DELINEATED FOR MORE GEOGRAPHIC GRANULAIRTY

SOCIO-ECONOMIC VULNERABILITY

UN-HABITAT ASSESSMENT

ASSESSMENT COORDINATION

MSNA PARTNERS

ASSESSMENT COORDINATION

MSNA ZONES ASSIGNED TO PARTNERS

POPULATION ESTIMATES

HOUSEHOLD COMPOSITION

Breakdown of Households in Beirut and Mount Lebanon:

District	Beirut	Baabda	Matn	Average Mount Lebanon
Women	42%	39%	38%	38%
Men	35%	35%	36%	36%
Girls	12%	14%	13%	13%
Boys	11%	13%	13%	13%
Lebanese	69%	74%	77%	77%
Non-Lebanese	31%	26%	23%	23%
Average Household size	3.4	3.7	3.5	3.6

Source: Labour Force and Household Living Conditions Survey (LFHLCS) in Lebanon, 2018–2019

RESPONSE OVERVIEW

Partner presence map: Who is doing What and Where

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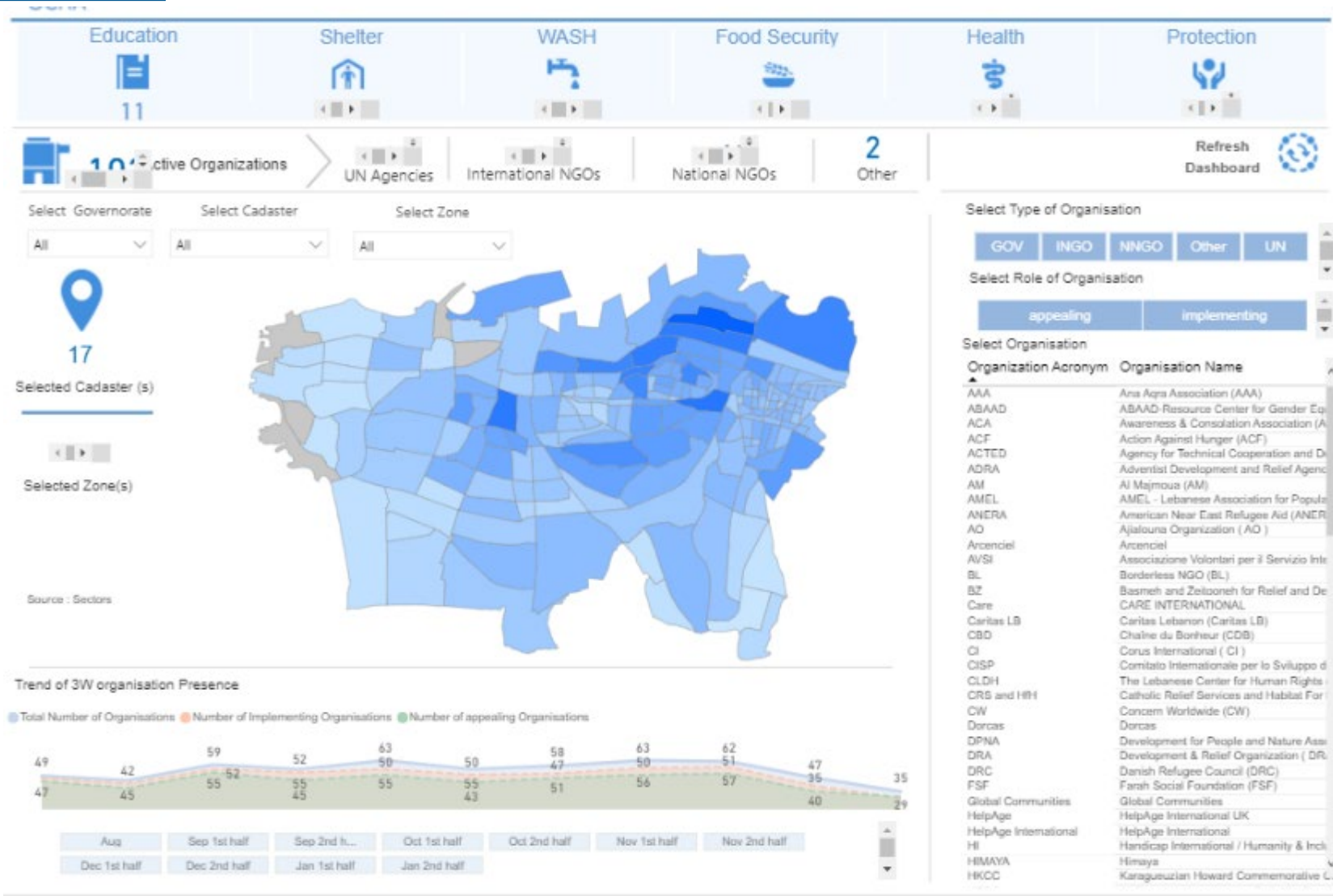
Thank You

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