OPEN DATA & OPEN KNOWLEDGE Workshop
Spatial Analysis & Remote Sensing
Evidence and Decision Making tools

How open data enhances support to field operations

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PROTECTING FAMILY LINKS

PROTECTING CIVILIANS

ECONOMIC SECURITY

VISITING DETAINES

WATER and HABITAT

HEALTH

On the side of Humanity

GEO GROUP ON EARTH OBSERVATIONS

04/07/2023
Over 20’000 staff in over 90 countries

GIS team: 50 field staff covering 75 countries (2 remote sensing analysts)
REMOTE SENSING AND GIS SUPPORT IN CRISIS

- Timeseries: urban, camp growth, NDVI
- Damage assessment: conduct of hostilities, support to authorities for reconstruction
Goma: landcover change showing urban growth 2001-2020 (Landsat)

Goma West Settlement Development

<table>
<thead>
<tr>
<th>Year</th>
<th>Area</th>
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<tbody>
<tr>
<td>2001</td>
<td>331.65 Ha</td>
</tr>
<tr>
<td>2005</td>
<td>721.62 Ha</td>
</tr>
<tr>
<td>2011</td>
<td>1018.26 Ha</td>
</tr>
<tr>
<td>2015</td>
<td>1299.51 Ha</td>
</tr>
<tr>
<td>2020</td>
<td>3022.11 Ha</td>
</tr>
</tbody>
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Goma West Settlement Growth

- Change in area from 2001 to 2005 (%): 118%
- Change in area from 2005 to 2011 (%): 41%
- Change in area from 2011 to 2015 (%): 28%
- Change in area from 2015 to 2020 (%): 133%
Other supports we provide include:

- Security assessment: field trip preparation
- Gravesites identification: for later excavation
- Fires: burnt crops
- Floods: construction
Micro Satellite tasking
IoT and Vegetation, Moisture Indices
EMERGING THEMES

- Do no harm principle:
  ◦ Status of space assets: dual-use;
  ◦ Data protection;
  ◦ Perception;
- Cost of imagery: medium vs. very high resolution,
- Rapid support in crisis,
- Fast evolving technologies,
- and as always: connectivity, hardware, software, HR…
CONTACT DETAILS

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