Discussion of GHG Activities

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Assign contributors/volunteers

1. User engagement (but also UNFCCC & GCOS)
2. CGMS involvement and parallel operationalisation
3. Roadmap Action Harmonisation and Refinement
Activity 1: General User engagement

• Multi-pronged approach:
  i. Champion users, beta-testers
  ii. GEIA engagement, possible Subgroup
  iii. UNFCCC Sec as enabler in bringing together SO/EO community and Parties/Agencies & specific “groupings” LDCs, AOSIS

• Managing expectations for pilot datasets for 2023 Global Stocktake
• Feedback into incremental improvement of dataset, but also interfaces and how data is made available
Activity 1: Engagement with UNFCCC & GCOS

- Building on Joanna and Simon’s presentations from yesterday
- With opportunity for a more structured/detailed discussion at SIT TW in September 2020 (on GHG/AFOLU/Biomass)
- Focus on GHG requirements (both A & T) in GCOS? (Table 1 BAMS paper)
- What help would be most effective from UNFCCC Sec?
- What role could UNFCCC Sec have in engagement with users?
- Do we still need some clarification on timeline?...
- CEOS Involvement in *adhoc* Group on Systematic Observations?
- CEOS GHG TT engagement in UNFCCC event form now to end 2021?
# High-level Requirements

<table>
<thead>
<tr>
<th></th>
<th>High-level requirements for the CO₂MVS for policy makers</th>
<th>Technically Implied Accuracy Requirement</th>
<th>Space &amp; time resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Detection of emitting hot spots such as megacities or power-plants.</td>
<td>46 kton CO₂/yr/km²</td>
<td>2x2km² pixel; daily</td>
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<tr>
<td>2</td>
<td>Monitoring the hot spot emissions to assess emission reductions/increases.</td>
<td>1 kton CO₂/yr/km²</td>
<td>2x2km² pixel; daily</td>
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<tr>
<td>3</td>
<td>Assessing emission changes against local reduction targets to monitor NDCs.</td>
<td>0.2 kton CO₂/yr/km²</td>
<td>0.1°x0.1°; monthly</td>
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<tr>
<td>4</td>
<td>Assessing the national emissions and changes in 5-year time steps for the GST</td>
<td>0.2 kton CO₂/yr/country</td>
<td>Country area; yearly</td>
</tr>
</tbody>
</table>

Activity 2: Closer involvement of CGMS

- Involvement of CGMS WGs competences – will be increasingly important
- How should we engage at CGMS WG days?
- What tasks/actions should we (proactively) propose to them?
- What additional CGMS agency competences should we be requesting for GHG TT?
Activity 3: Implementation Action table

- Annex C in Roadmap Report
- We need to address/verify consistency and “actionability”
- Identify Contributors (incl. Agency level)
- Cross-check with other contributing entities and have clear, mutual, understanding of “dependencies”

1. Stakeholder Engagement
2. System Development Facilitation
3. Operational Preparation and Training
4. Sensor Development
5. L1 & L2 GHG Product Development
6. Flux Inversion Model Development
7. Calibration & Validation