Initial Analysis results of Flood Situation around Bandung using ALOS-2/PALSAR-2

Japan Aerospace Exploration Agency (JAXA)
Remote Sensing Technology Center of Japan (RESTEC)
Introduction

• Summary of data used in this analysis

<table>
<thead>
<tr>
<th></th>
<th>Obs. date</th>
<th>Mode</th>
<th>Satellite/Sensor</th>
<th>Pol.</th>
<th>Flight Direction</th>
<th>Off-nadir angle</th>
<th>Beam Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-disaster</td>
<td>2016/02/03</td>
<td>FBD</td>
<td>ALOS-2/PALSAR-2</td>
<td>HH +HV</td>
<td>Ascending</td>
<td>28.6</td>
<td>Right</td>
</tr>
<tr>
<td>Post-disaster</td>
<td>2016/03/16</td>
<td>FBD</td>
<td>ALOS-2/PALSAR-2</td>
<td>HH +HV</td>
<td>Ascending</td>
<td>28.6</td>
<td>Right</td>
</tr>
</tbody>
</table>
Full Scene of ALOS-2 (HH polarization) (Color Composited Pre & Post)

AOI

R:G:B=Pre:Post:Post
Extend AOI

- **Flood Area**
- **Potentially Flood Area** (Explain next slide)
- **Water Area** (in both pre & post)
How interpret blue area?

Case 1. Crop Growth
Case 2. Double Bounds effects
  (Relation of water & crop)
Case 3. Change of Soil moisture (be Wet)
Conclusion

• Damage area and potentially damage areas detected by ALOS-2 analysis

• Blue areas in slide 3 cannot identify what happened only using ALOS-2 (need field survey to identification)

• This is a preliminary analysis and has not yet been validated in the field.