

#### K&C Phase 4 – Status report

JJ-FAST: JAXA-JICA Near-Real Time Deforestation Warning Project

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### 1. Introduction

K&C Initiative

An international science collaboration led by JAX



## 2. New monitoring system: JJ-FAST

- "JICA-JAXA Forest Early Warning System in the Tropics (JJ-FAST)" was released on 12 November, 2016.
- Deforestation information is now available for South America and Africa.
- URL= http://www.eorc.jaxa.jp/jjfast/





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## 2. New monitoring system: JJ-FAST

• **Coverage: more than 60 countries** containing almost all tropical forests.



- Data source: ALOS-2/PALSAR-2 ScanSAR mode HV image
- Update: every 1.5 momths
- Resolution: 50m

### **3. Deforestation detection**

PALSAR-2 image change

ALOS





**Detection flowchart** 

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#### 6. Field survey in Peru

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ALOS



### 6. Field survey in Peru

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Correctly detected: 5 polygons



• Accuracy (user's accuracy) = 62.5%

ALOS

## 6. Field survey in Peru

LOS

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Incorrectly detected: **3** polygons



• We will improve the screening of non-forested area using proper land-cover map.



#### K&C Initiative 7. Detection issues national science collaboration led by JAXA



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## **8. Conclusion**

The JJ-FAST provides global deforestation monitoring system using PALSAR-2 imagery.

- More than 60 countries coverage (from Oct. 2017).
- Deforestation detection even in rain season.
- Freely available data with mobile device (iPphone, iPad ...).

