



Virtual Event 15-18 June 2020
**2020 Asia-Pacific
Statistics Week**

Leaving no one and nowhere behind

A Pilot Project of Area Sampling Frame for Maize Statistics: Indonesia's Experience

Action Area D. Modernizing statistical business processes (SD2)

Modernisation is a must - six reasons why?

Authors:

**Octavia Rizky Prasetyo (presenter),
Kadir, Ratna Rizki Amalia
Statistics Indonesia**

#apstatsweek2020



#apstatsweek2020



Virtual Event 15-18 June 2020

2020 Asia-Pacific Statistics Week

Leaving no one and nowhere behind

Background



Issue

the Accuracy of Crops Statistics (creates public debate)

ASF for Estimating Paddy Harvested Area

2018

How about Maize Statistics?

Objective measurement for maize harvested area data is also essential

2019

Replicate the ASF for Maize Statistics

Goals:

- To estimate maize harvested area (more accurate & timely)
- To provide spatial information on maize cultivation

Production = harvested area x yield per hectare

Still using conventional method: *eye estimate*

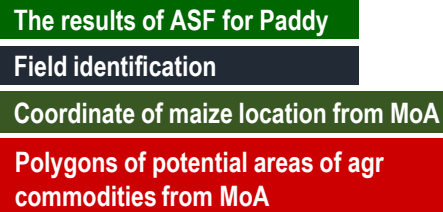




The Construction of Area Sampling Frame for Maize

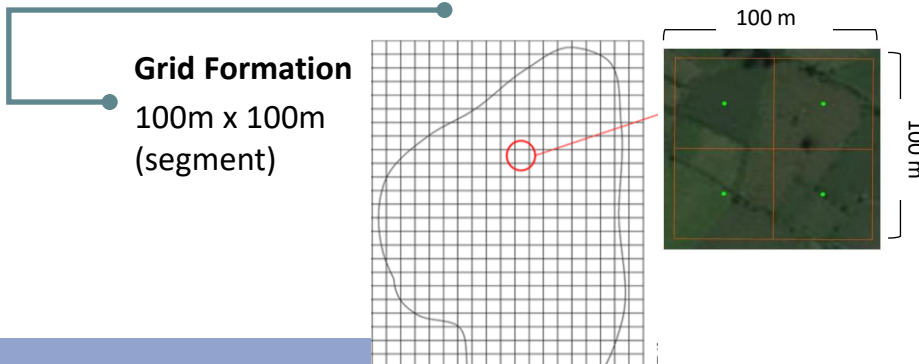
Data input

- Topographic, administrative, and land cover map
- Spatial information of potential maize location



Overlay

Overlay the spatial information of maize potential location into segment grid 100m x 100m



Determining the label

The labelling is carried out using the priority principle of accuracy



Virtual Event 15-18 June 2020 2020 Asia-Pacific Statistics Week

Leaving no one and nowhere behind

Field Observation



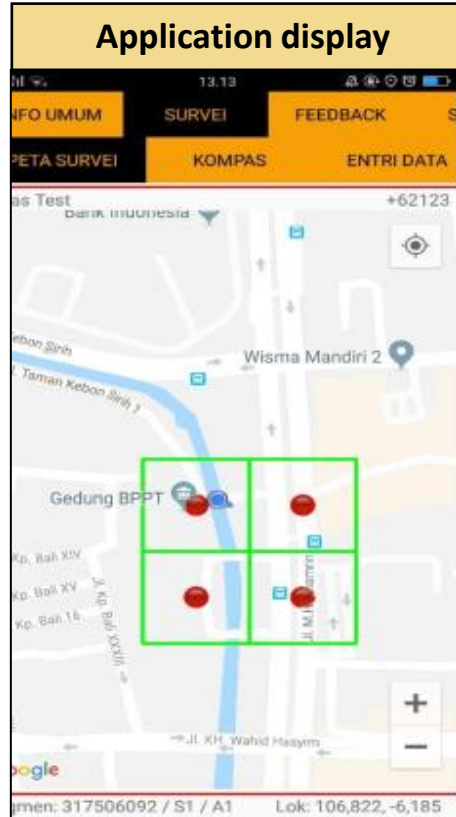
during the last 7 days every month



Android-based Application



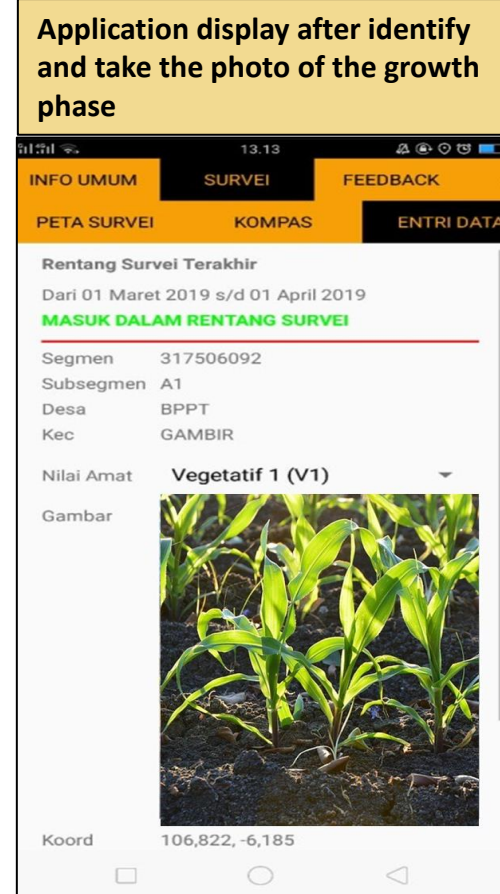
Direct observation at the observation points



Blue dot:
position of the enumerator

Red dot:
observation point

Green rectangle:
the boundary of the segment,
which is divided into four
subsegments



SEND TO SERVER





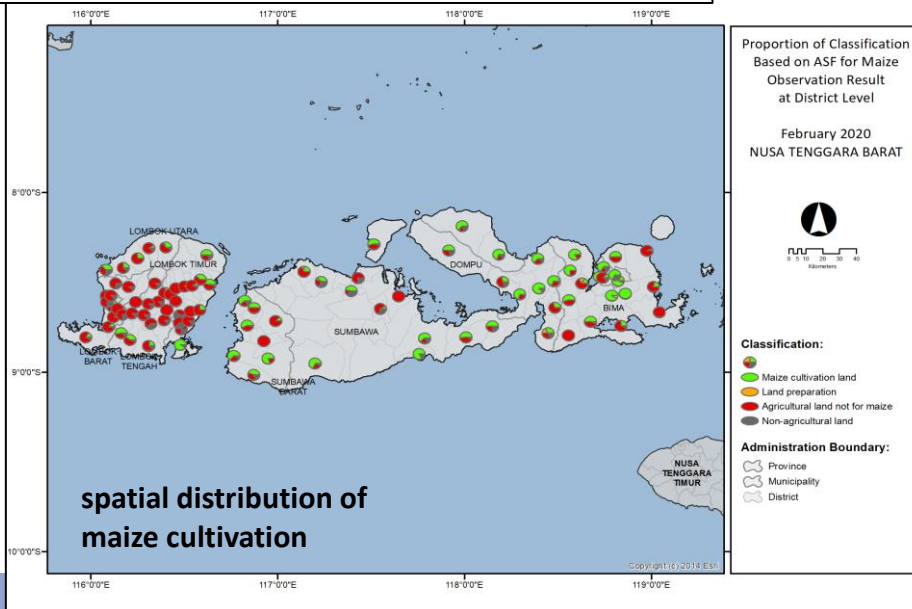
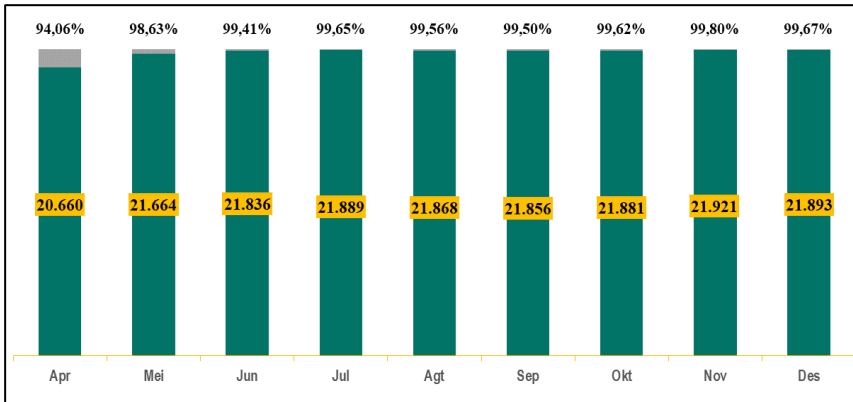
Virtual Event 15-18 June 2020

2020 Asia-Pacific Statistics Week

Leaving no one and nowhere behind

Current Progress & Preliminary Results

Percentages of samples realisation



Build strong collaboration



Business process of data collection more efficient and faster due to the use of technology





Virtual Event 15-18 June 2020

2020 Asia-Pacific Statistics Week

Leaving no one and nowhere behind

Challenges and Future Development

1

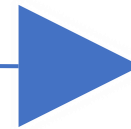
Unavailability of Spatial Information of land area specifically dedicated for maize cultivation



Conducting studies related to computation of potential maize area

2

The possibility of misidentification of maize growth phase



Improve the business process of monitoring:

- Upgrading web-based monitoring
- Creating Android-based monitoring system

3

The geographical difficulties and a massive coverage require more effort and a massive number of enumerators



#apstatsweek2020



Virtual Event 15-18 June 2020
**2020 Asia-Pacific
 Statistics Week**

Leaving no one and nowhere behind

Thank You

#apstatsweek2020



**DECADE
 OF
 ACTION**



UNITED NATIONS
ESCAP
 Economic and Social Commission for Asia and the Pacific



#apstatsweek2020