



World Food
Programme

The Journey to End Hunger: Food Systems, Smallholder Farmers, and AI

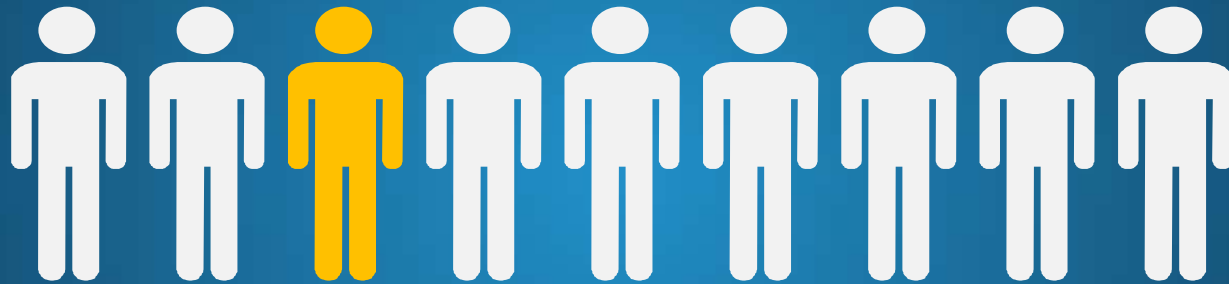


@WFPInnovation



World Food Programme

1 in 9 people worldwide are living in hunger







9 YRS





1990



2000



2015





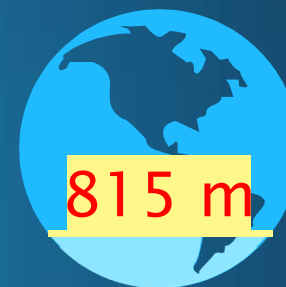
1990



2000



2015



2017





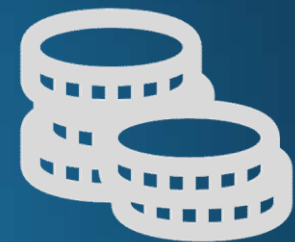
80–100
million people

82 countries
worldwide



3.5M tonnes of
food

5,000 trucks
70 aircraft
20 ships



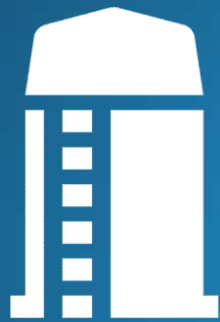
\$1.4B in cash
transfers







Increasing
yield



Decreasing
waste



Access to
markets



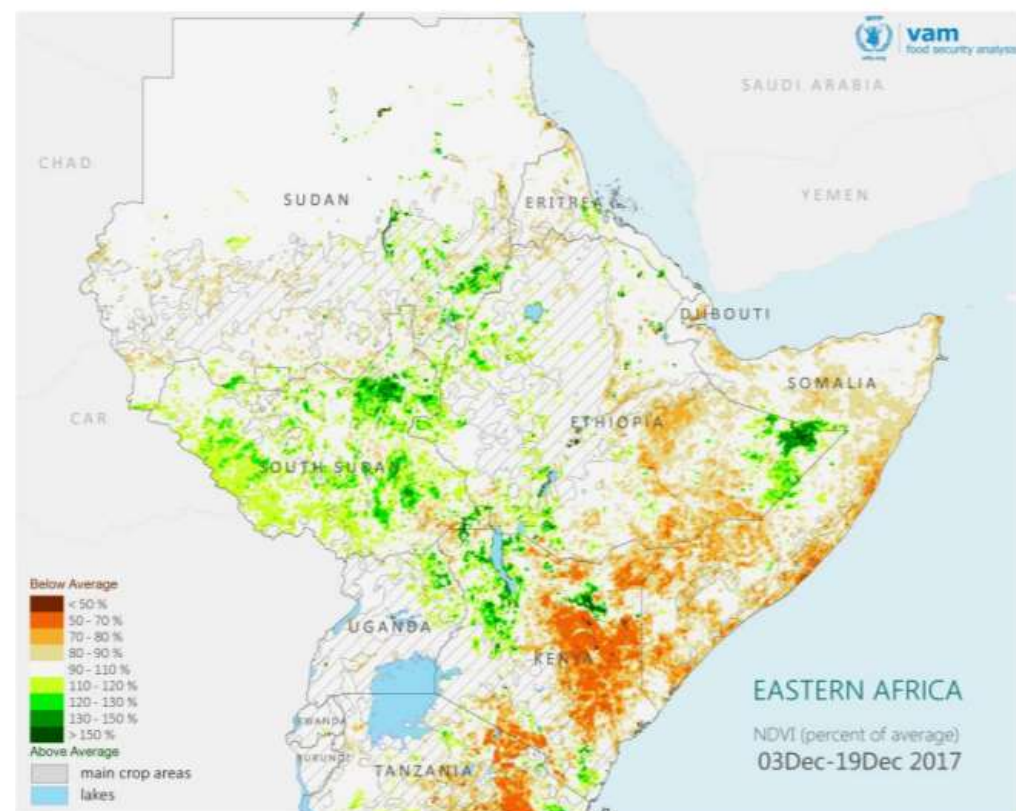
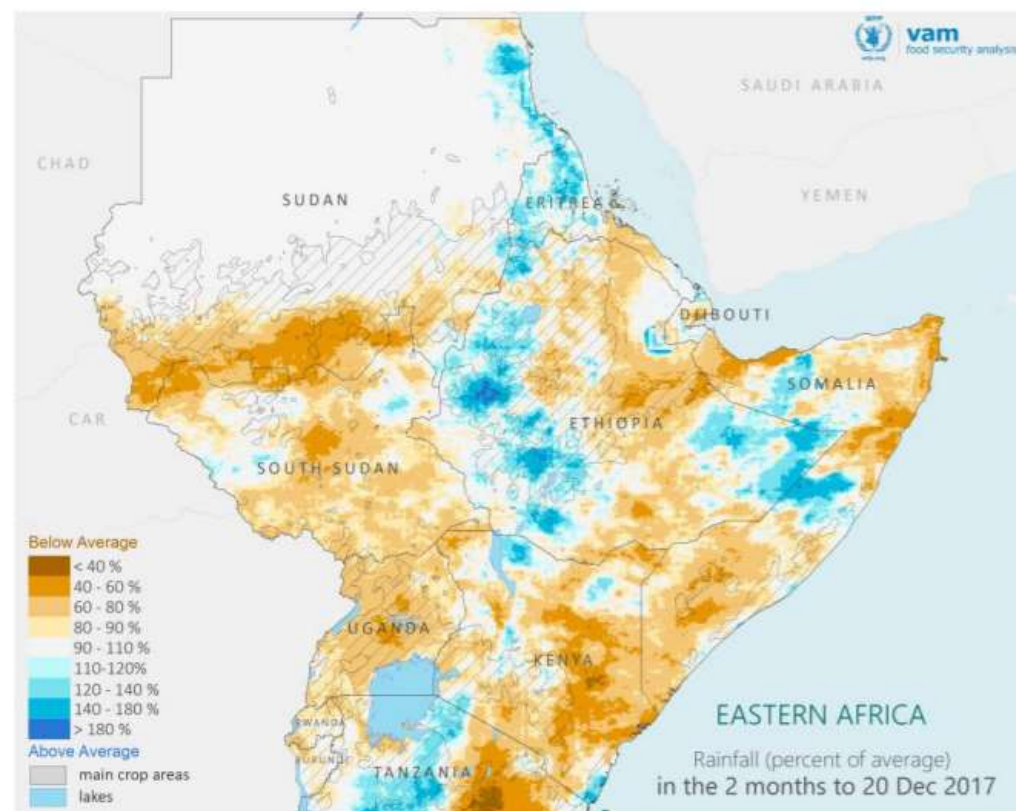
Climate
change



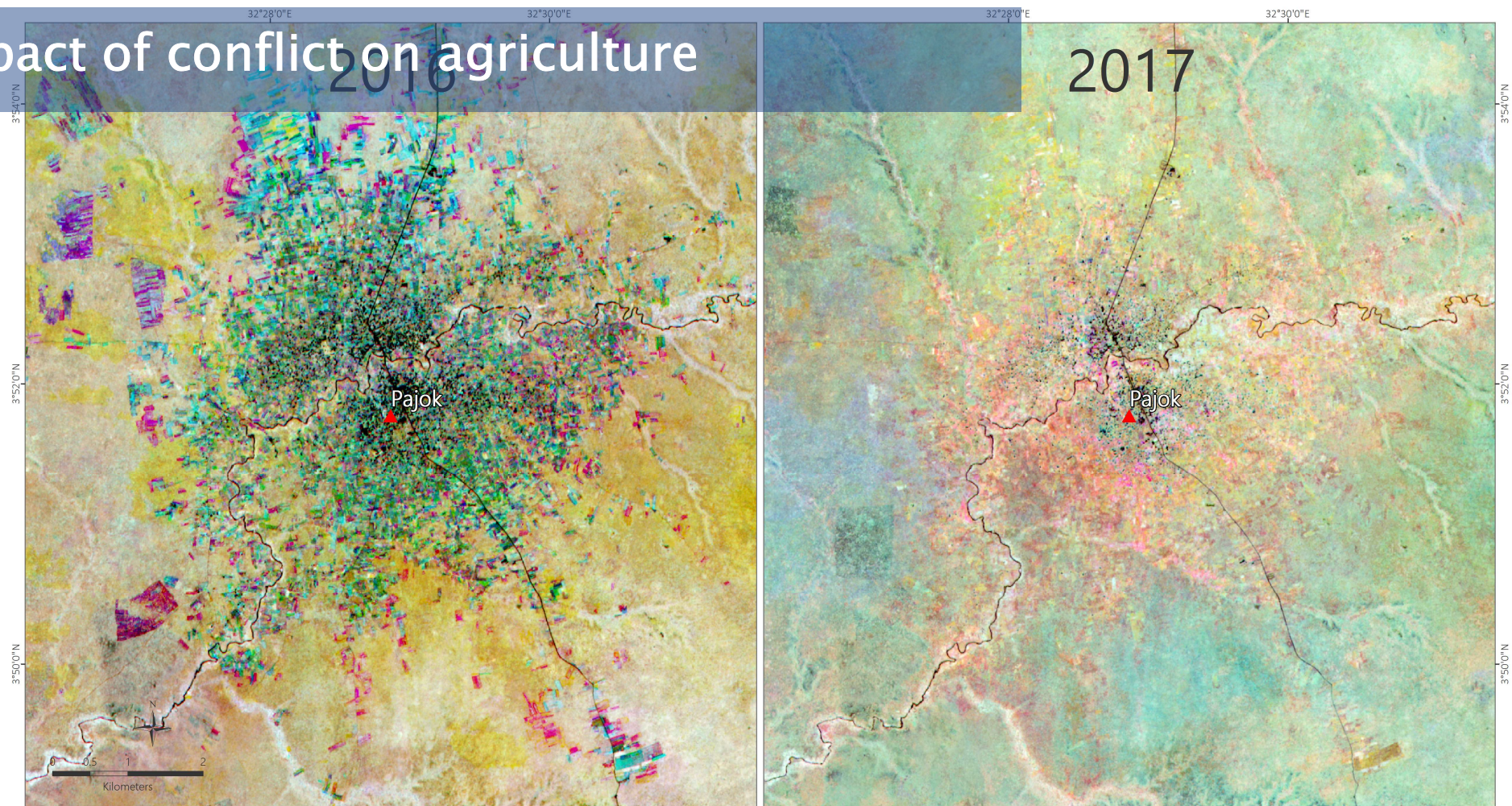
Conflict



Seasonal monitoring of rainfall



Impact of conflict on agriculture



SOUTH SUDAN

Farmland Abandonment
between 2016 and 2017

▲ Pajok
Lat: 3.862885
Lon: 32.48108

LEGEND:

- Built-up
- Farmland
- National boundary

DATA SOURCES:

Imagery: Sentinel-2, ESA/COPERNICUS
Composite derived from 60 images acquired
in the period Apr - Oct (2016, 2017)
Boundaries: OCHA



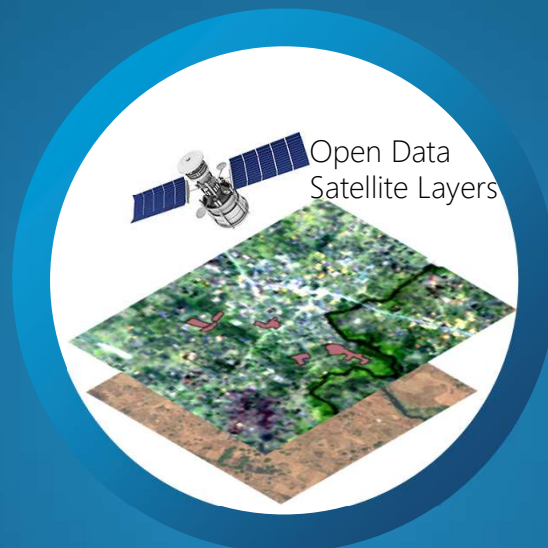
vam
food security analysis

The designations employed and the presentation of material in the map do not imply the expression of any opinion on the part of WFP concerning the legal or constitutional status of any country, territory, city or sea, or concerning the delimitation of its boundaries.

Crop type mapping



Sampling



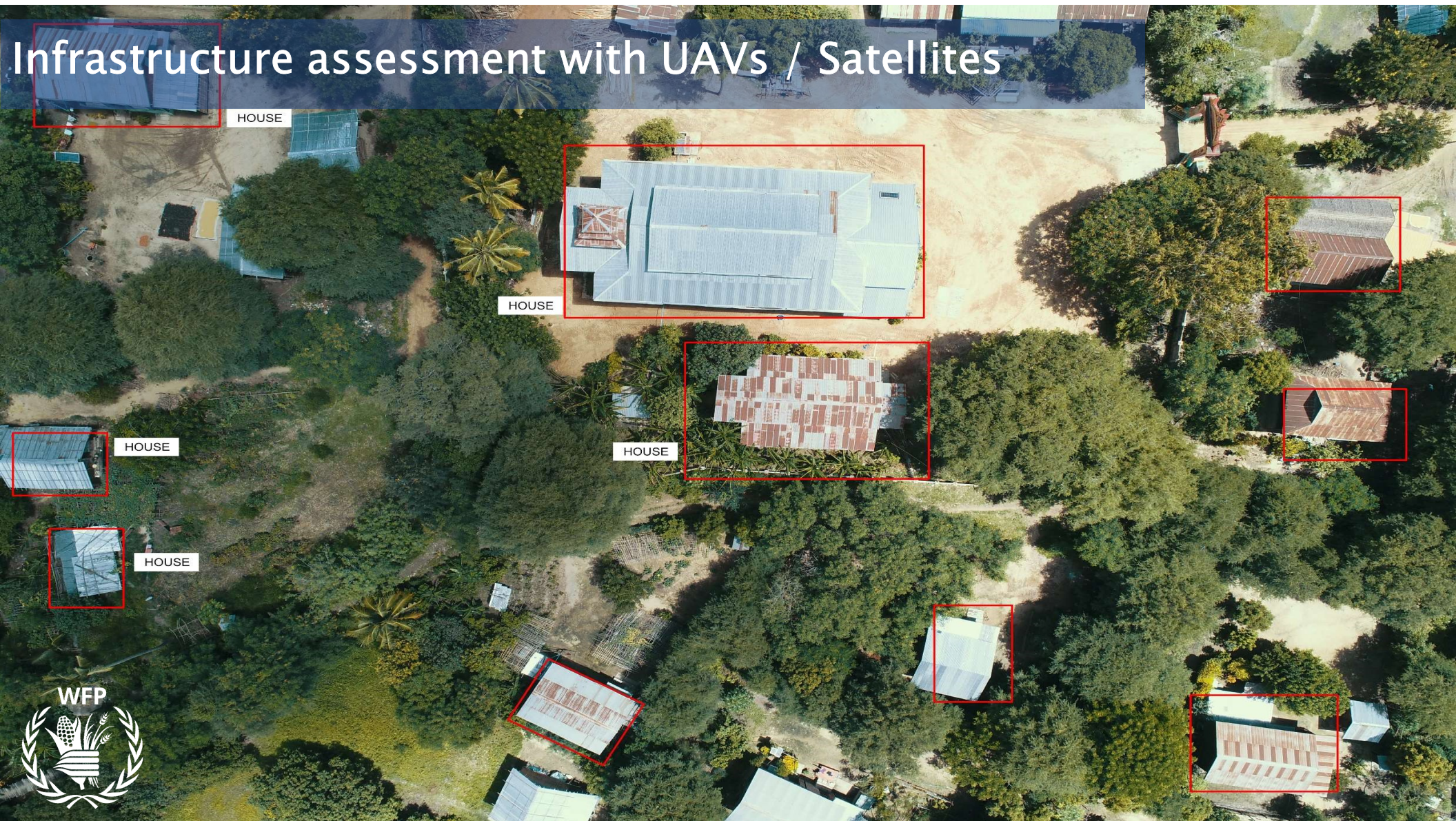
Scaling



Product



Infrastructure assessment with UAVs / Satellites



AI-powered mobile services



Thank you



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Appendix



Autonomously operating vehicles

