



1. Zambia Annual Agricultural Survey Structure

- i. National-Provincial-**District** level Survey
 - ii. Survey conducted in **March** and repeated in **October**
 - iii. Same households re-interviewed in October
 - iv. Fresh household sample drawn following year within the same Cluster
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The Crop Forecast and Post-Harvest Surveys combine the Small & Medium Survey with the Large Scale Census

Small and Medium Category:
Small 0-5 ha
Medium 5-19.99 ha

Large Scale up to **45,000 ha**

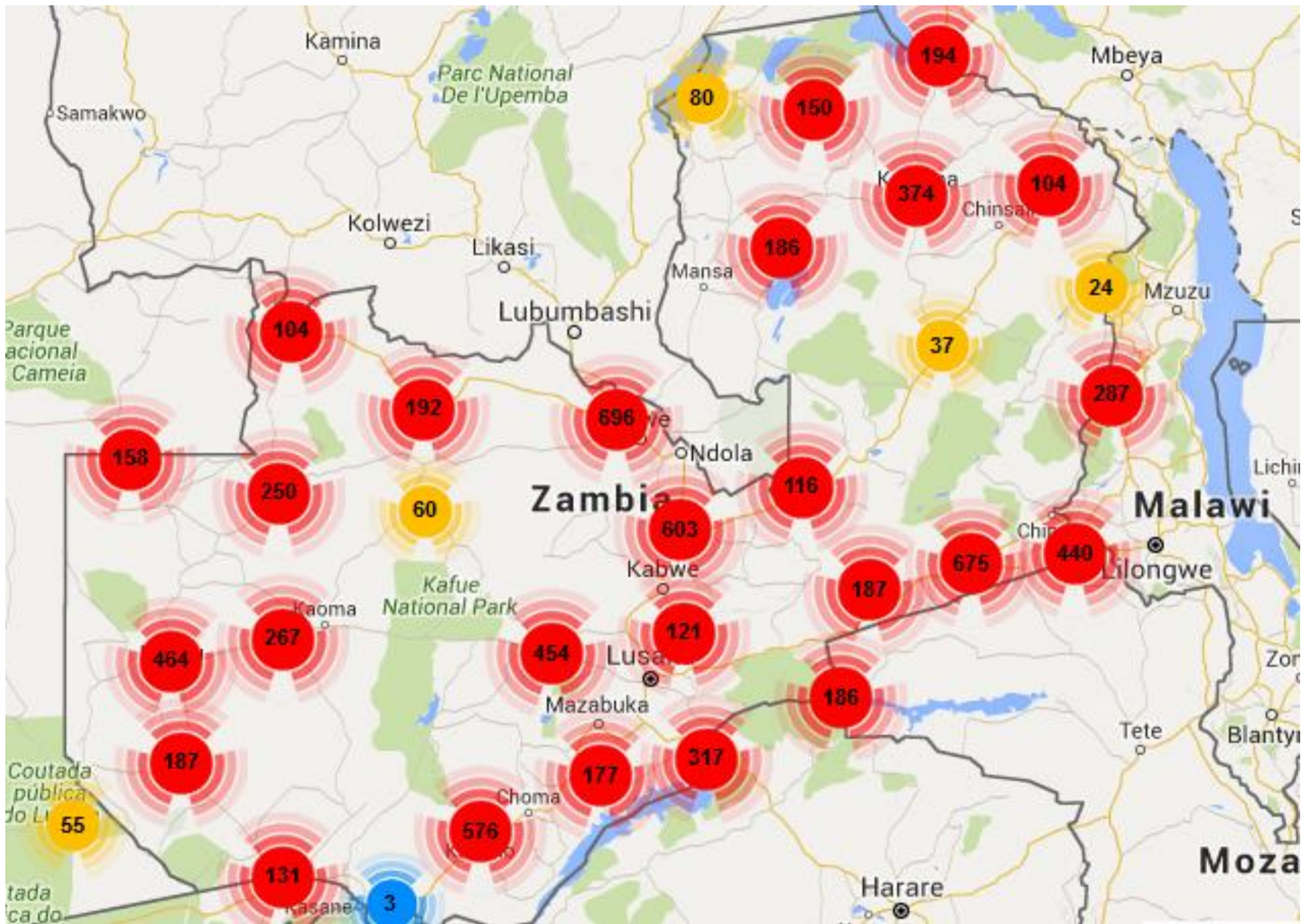
Small & Medium scale household survey covers approximately **13,600** households at enumeration stage

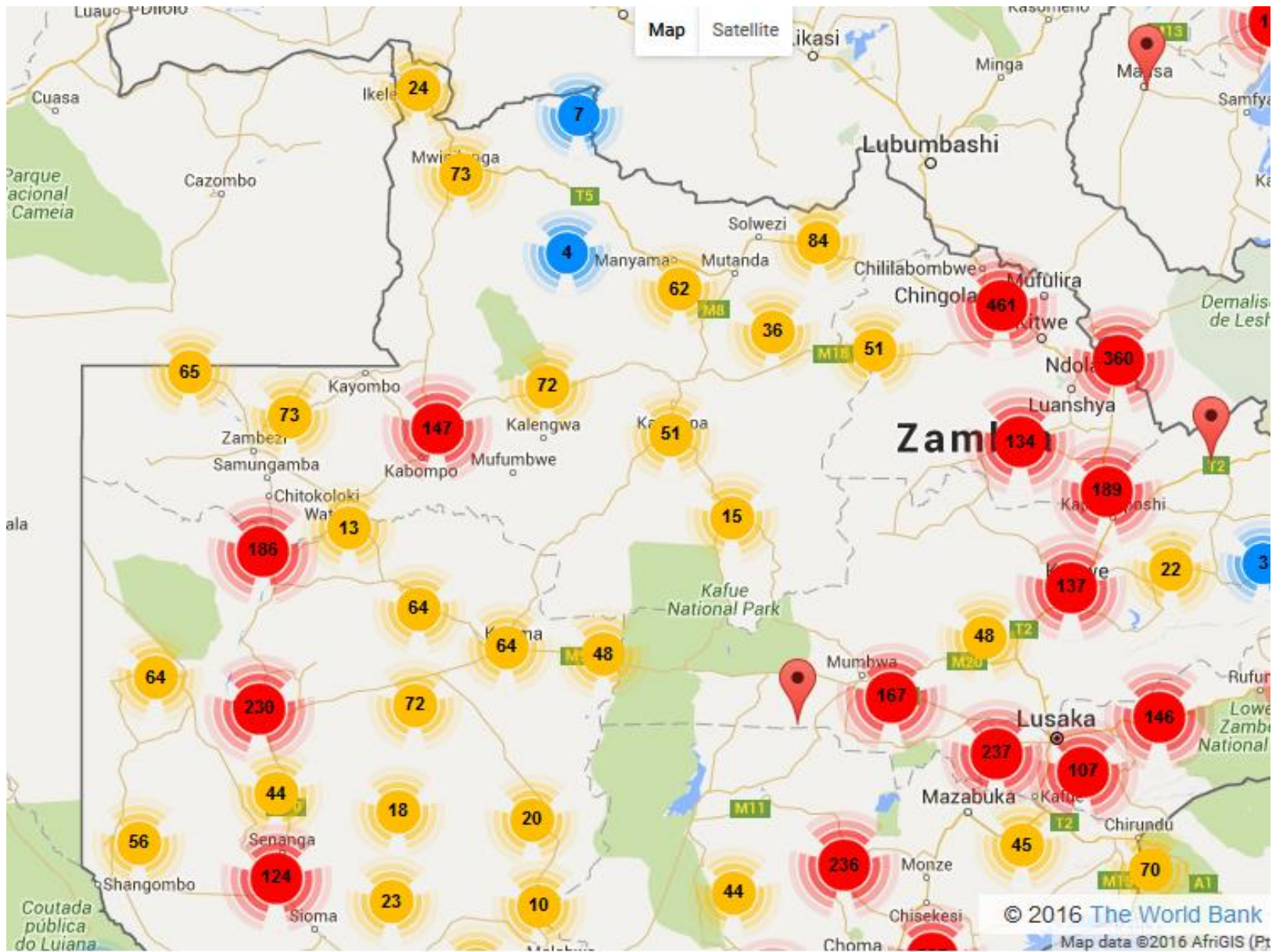
Large Scale Survey Defn >20 ha cultivated

Large Scale covers approximately 1,600 large scale farms

13,600 Small and Medium scale households interviewed using Worldbank CAPI Software







Coefficient of Variation for Crop production Estimates

Crop	Coefficient of Variation
Maize	2.74
Sorghum	11.13
Rice	15.72
Millet	6.11
Sunflower	5.59
Groundnuts	4.10
Soya beans	9.51
Seed Cotton	6.71
Virginia Tobacco	27.80
Mixed beans	6.25
Bambara nuts	15.98
Cowpeas	12.09
Sweet potatoes	6.60

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2. Management of Data Collection

Category of Field Staff	Number Employed
Small & Medium Scale data collection staff	510 (half recruited)
Large Scale Farms Data collection Staff	50
Data Entry Staff	6
Data Analysis team	30
Survey Solutions CAPI	5+3

3. Methodological innovations in our surveys

Previously, **paper** was a constraint, now **time** is

CFS questionnaire
PHS questionnaire

Variables

	Level of Data	Variables
Household Demographics	Household	
Field Section	Plot	Area, Tillage practices, Technology, management practice
Crop Section	Plot	Area, Crop type, seed type, seed name, Fertilizer quantity, production
Stocks Section	Crop	Crop sales
Irrigation	Plot	Area, Crop type, seed name, Fertilizer quantity, production
Livestock	Livestock type	Numbers, sales, slaughters
Fish	Pond	Numbers, sales
Assets	Asset	Numbers, value

8 year trend in usage of Maize hybrid seed by field

Seed Type	Season							
	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
Hybrid	45	51	57	61	61	64	67	61
OPV	0.5	0.4	0.3	0.4	0.3	0.1	0.2	0.3
Recycled and local	54	48	43	39	38	36	33	38

Survey now a CAPI from PAPI

Paper questionnaires took:

2 weeks for data entry

30 days for Data Cleaning and Analysis

CAPI took 14 days for cleaning (next round likely to take 7 days once yield algorithms are perfected)

CAPI Tablet tips:

- **Car charger**
- **Solar charger**
- **Power bank**
- **Tablets that do not make phone calls are ideal (battery life)**
- **Some mobile operators can provide a SIM card that restricts the websites that are accessed by tablet (battery life)**

Thank you

