



GAFAG

Agricultural Statistics

Why and How ? Summary of Best Practices

Hakan Demirbügen

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GLOBAL VALUE OF AGRICULTURAL
PRODUCTS : AROUND 2.4 TRILION

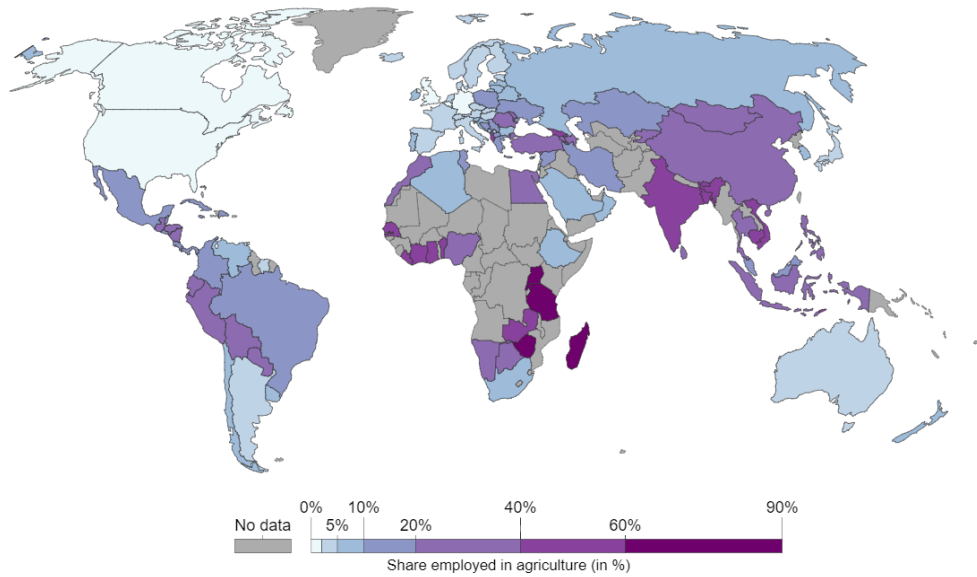
FARMING PRODUCES JOBS FOR 1.3
BILLION PERSONS

WOMEN SHARED 43% OF THE LABOR
FORCE IN DEVELOPING COUNTRIES

VITAL FOR DEVELOPING NATIONS



Share of Labor force employed in Agriculture



Agriculture is still a very important Source of Income for most of the World. ...



BUT....

**IS THE AGRICULTURAL DATA RELIABLE , AVAILIABLE
AND MEETING THE NEEDS?**

Overall Vision of the agricultural statistics is to produce data on agriculture to meet the current and future users needs in an efficient manner with a bearable burden on data producers.

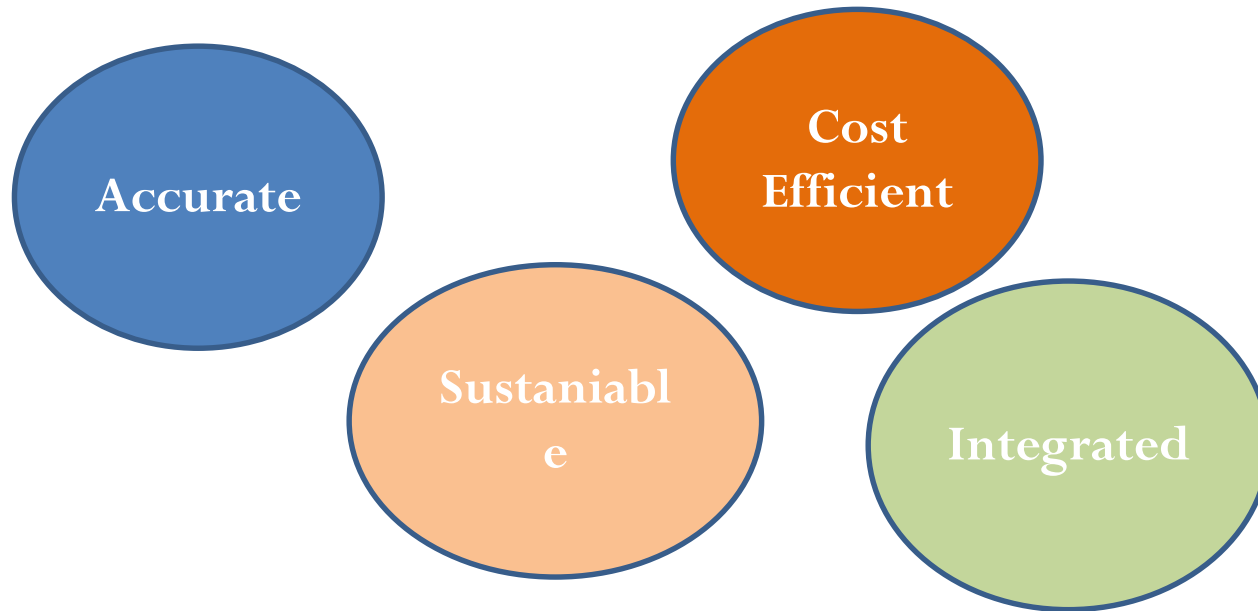
Coverage of Agricultural Statistics

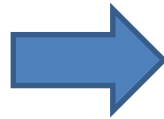
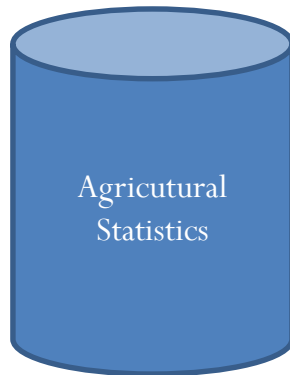
All Aspects of agriculture including economic, environmental and social dimensions

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Production, Cultivation, Price, value chain, cost, fertilizer usage, insurance, social protection of farmers, transportation , consumption, demand and etc.....

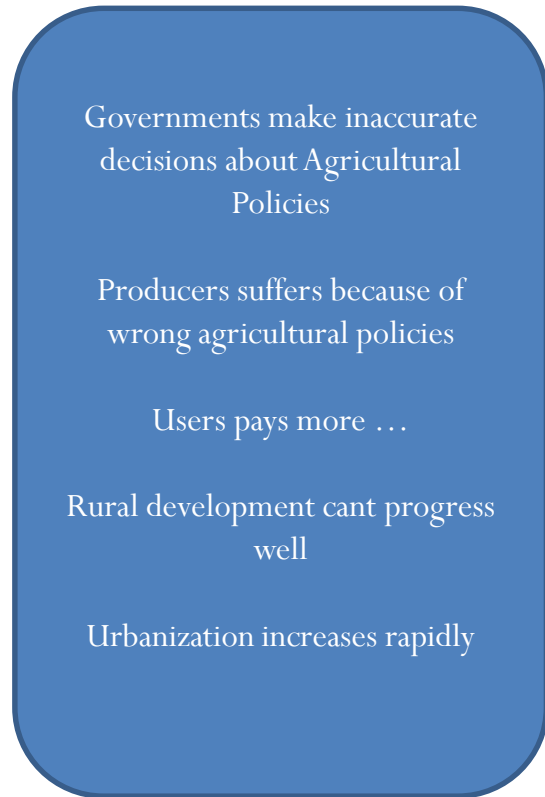
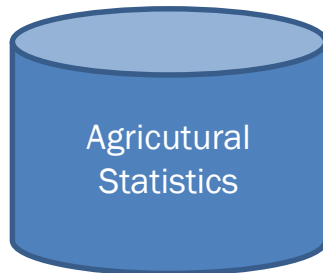
Main Criterias to Select a Method for Agricultural Statistics

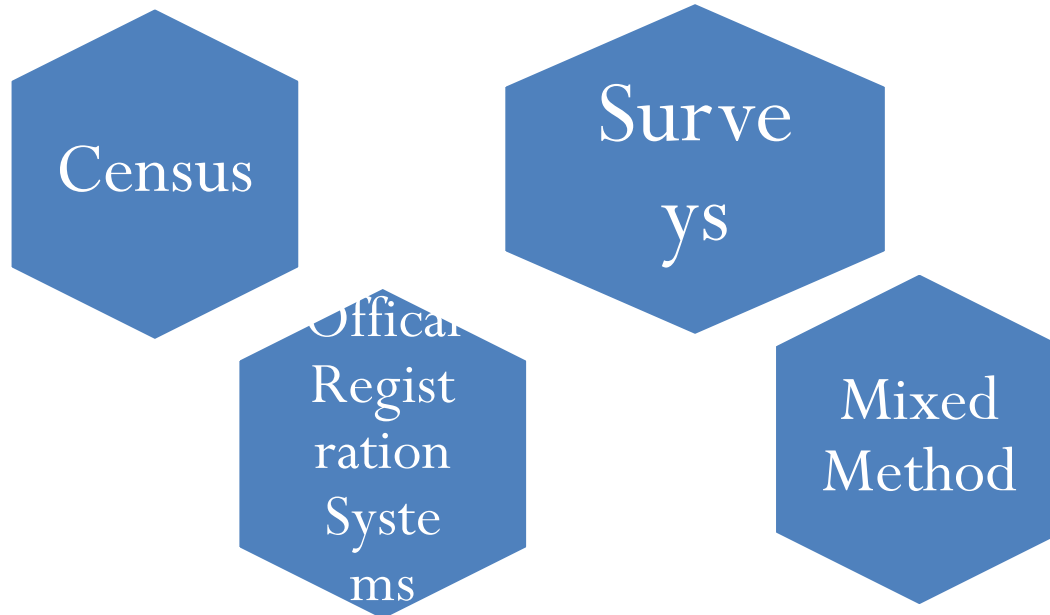




- **Agriculture provides almost 100% of what we eat**
- **High amount of World population relies on agricultural income**
- **Agricultural Economy is an important part of the national economy for most of the countries World wide**

If Agricultural Statistics are not existing or not accurate ...?





- Number and Structure of Agricultural Farms
- Production, Area harvested and Planted, yields
- Exports and Imports
- Stocks
- Number of production, producers prices of core livestock
- Landcover and use
- Organic Farming
- Areas irrigated and quantity of water used
- Fertilizers in type, quantity and price

- Pesticides in quantity, type and price
- Feed in Quantity and Price
- Age, Gender, and family profile of workforce
- Working time of family members/external workers
- Geo-Referenced Information
- Data on food Supply Chains
- Continued collection of database to produce time series
- Natural Protection of agricultural areas

USA

- **Census** : Every 5 years
- **Sample Survey** : Annually . Method : Area Frame Saampling Survey
- **Registration** : Registered Data through official systems. Strong control mechanism
- **Results** : Announced Annually and Geo-Rereferenced

European Union

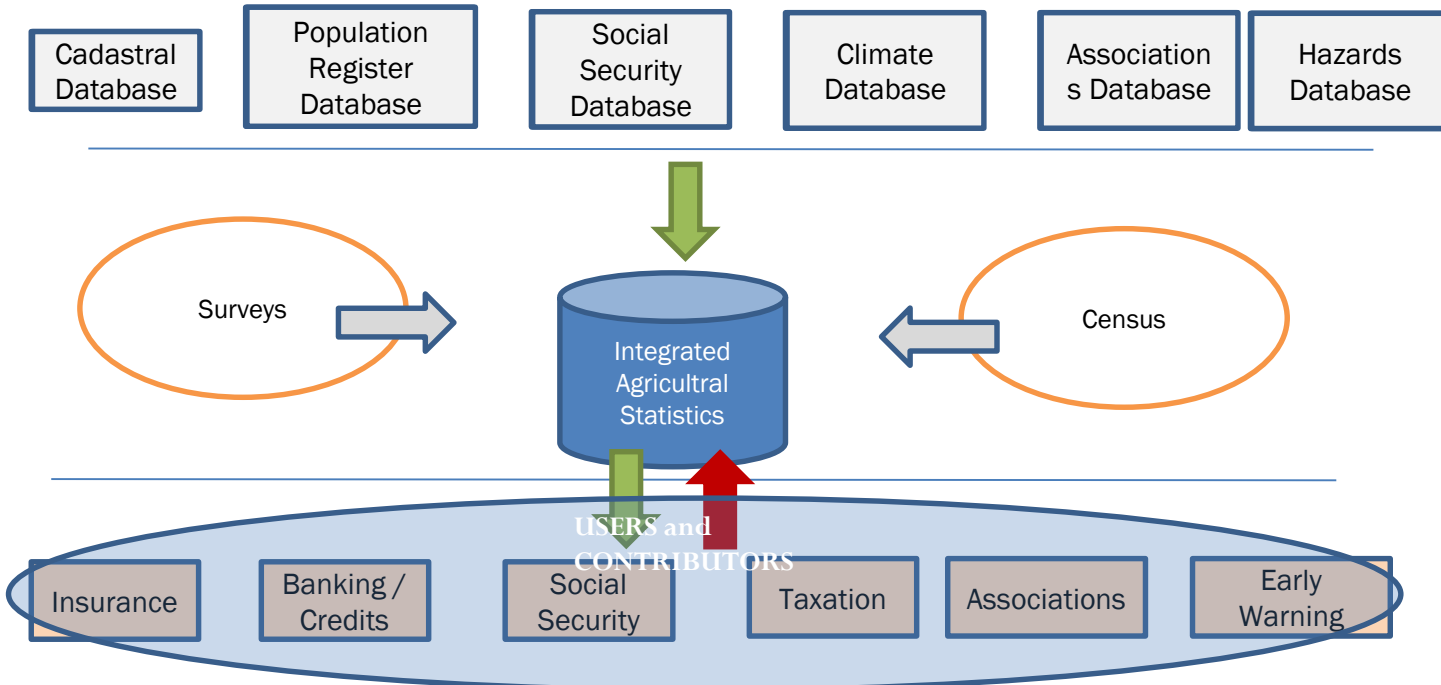
- **Census** : Farm Structure Census : Every 10 years . Land Use, Livestocks and labor force and etc)
- **Sample Survey** : Every Second Year . Method : Stratified Sampling . Survey types and periods changes depending on the country's needs and policies . Large farms surveyed
- **Registration** : Registered Data through official systems . Very efficient and Strong registration System with strong control mechanism
- **Results** : Announced Annually and Geo-Referenced

Australia

- **Census** every 5years .
- **Sample Survey** : In between Censuses.
Method : Stratified Sampling . Large farms are surveyed
- **Registration** : Registered Data through official systems . Very efficient and Strong registration System with strong control mechanism
- **Results** : Announced Annually

Japan

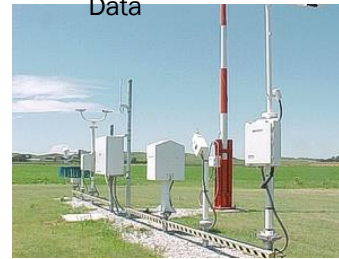
- **Census** every 5years . Forestry is also included
- **Sample Survey** : In between Censuses.
Method :
- **Registration** : Registered Data through official systems .
- **Results** : Announced Annually



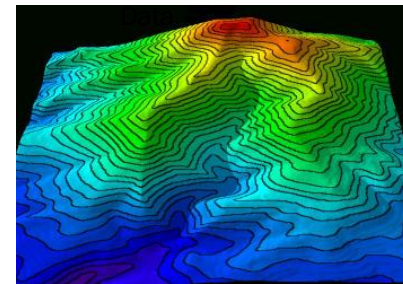
Cadastral Data



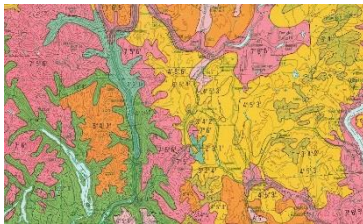
Meteorology Data



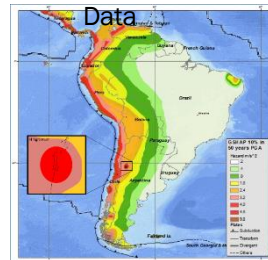
Topography



Soil Data



Natural Hazard Data



Irrigation Data



- Strong Cooperation and data Exchange Mechanism Between Relevant Organizations
- Availability of Reliable Data
- Regular update of data
- Strong Quality Control Mechanism
- Monitoring and evaluation Mechanism
- Political will and adequate legal framework
- Strong Information System Capacity
- Geo-Reference Data Collection Systems
- Sustainable Human Resources
- Long term Planning

- Increases the productivity and income for farmers
- Increases revenue for Government
- Protects farmers with the help of well established insurance system
- Enables Government to desing better agricultural policies
- Provides early warning about production and quality
- Enables better and efficient use of water and fertilizers
- Enables Goverment to establish E-system for farmers/users
- Better monitoring of impacts of climate change

- GEO REFERENCED and GRID BASED



Data In the grid :

Total Agricultural Area

Total number of People living

Poverty level

Disaster Risk Index

Yield

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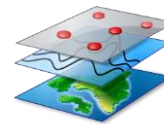


Satellite
Imagery

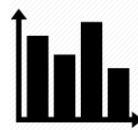
Information
Network



Geo-
Referenced
Data base



GIS Tools



Statistical
Tools



THANKS.....