



Global Strategy
IMPROVING AG-STATISTICS



Minimum Core Data Set

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Regional Action Plan to Improve
Agricultural and Rural Statistics



Background

- The Global Strategy describes three pillars on which the strategy is built
- A minimum set of core data is the first pillar
 - Establish a minimum set of internationally comparable data that countries will disseminate on a regular basis to meet current and emerging demands

Why do we need a core set?

- Required by the global statistical system to monitor issues that go beyond national boundaries
- Core set defines the framework for the agricultural and rural components of the National Strategies for the Development of Statistics (NSDS).
- A building block to integrate agriculture and rural statistics into the national system.

Overview of the minimum set of core data

- Variable Types:

Economic	Social	Environmental	Geographic Location
<ul style="list-style-type: none">• Output• Trade• Stocks• Inputs• Agro Processing• Prices• Expenditure on agriculture and Rural Development• Rural Infrastructure	<ul style="list-style-type: none">• Demographics• Labor Status• Household Income• Housing condition	<ul style="list-style-type: none">• Soil degradation• Water pollution due to agriculture• Air pollution due to agriculture	<ul style="list-style-type: none">• GIS coordinates• Degree of Urbanization

Minimum set of core data

- It is not possible to meet every data requirement every year
 - Eg FAO database includes over 150 crop items
- Global Strategy defines a minimum set
 - 15 commodities – 95% of world production
 - Wheat, maize, barley, sorghum, rice, sugar cane, soybeans, cotton
 - Cattle, sheep, pigs, goats and poultry
 - Core aquaculture and fisheries commodity (country specific)
 - Key economic, environmental, social indicators

A Commodity is 'important' if:

- At the Global level it
 - contributes to agricultural production globally
 - contributes to any indicator needed to monitor and evaluate development policies, food security and progress towards meeting MDGs
 - is an input to the global balances of supply and demand for food and other agricultural products
- At the Country level it
 - accounts for a major proportion of land use
 - is an input to the national accounts and national food balance sheets
 - contributes significantly to farm and rural household well-being
 - has an effect on the environment and climate
 - is a staple food item in the country
 - is an export commodity for the country

Crops

- Core crop items are: wheat, maize, barley, sorghum, rice, sugar cane, soybeans and cotton
- Should all core crop items be included in the country minimum core data set?
 - YES, unless
 - they are not grown in the country, or
 - they are not an ‘important’ crop
- Other crop items should be added to the country minimum core data set if they are an ‘important’ crop in the country

Data required for crop items

- Area planted and harvested, yield and production
- Amounts in storage at beginning of harvest
- Area of cropland that is irrigated
- Producer and consumer prices
- Amounts utilized for own consumption, food, feed, seed, fiber, oil for food, bioenergy
- net trade or imports and exports
- Early warning indicators such as precipitation, wind-shield surveys of crop conditions, and vegetative indices provided by satellite observations

Livestock

- Core livestock items are: cattle, sheep, pigs, goats and poultry
- Should all core livestock items be included in the country minimum core data set?
 - Yes, unless
 - they are not relevant in the country, or
 - they are not an ‘important’ livestock commodity
- Other livestock items should be added to the country minimum core data set if they are ‘important’ to the country

Data required for livestock items

- Inventory and annual births
- Production of products such as meat, milk, eggs and wool
- net trade or imports and exports
- Producer and consumer prices

Aquaculture and fisheries products

- Main products to be determined at country level
- Data required
 - For aquaculture: Area cultured, production, prices and net trade or imports and exports
 - For fisheries: quantity landed and discarded, number of days fished, amounts processed for food and non-food uses, prices, and imports and exports

Core Forestry production

- Main products to be determined at country level
- Data required
 - Area in woodlands and forests, quantities removed, and their prices for land associated with agricultural holdings
 - Area in woodlands and forests, quantities removed, and their prices for products from non-agricultural holdings and respective utilizations

Core agricultural inputs

- Contribute to measures of productivity which are important to monitoring and evaluating steps to reduce poverty and hunger
 - Quantities of fertiliser and pesticides used
 - Water and energy consumed
 - Capital stocks such as machinery by purpose
 - Number of people of working age by sex
 - Number of workers hired by agricultural holders
 - Employment of household members on the agricultural holding

Core economic data

- Producer and consumer prices
- Public expenditures on subsidies
- Public expenditures on agriculture and rural development
- Rural infrastructure

Core socioeconomic data

- Assist the measurement of economic well-being of rural households to guide policy decisions about development efforts to reduce poverty
 - Household income by source
 - Number of households and household composition
 - Population by age and sex
 - Labour force and employment status
 - Education levels
 - Housing conditions

Core environmental data

- If available, measures of the impact of agriculture would be desirable
 - Eg, soil degradation, water pollution and emissions due to agriculture
- In practice, the following are likely to be used as proxies
 - Land cover and use
 - Water use
 - Fertiliser and pesticide use

Core geographic location data

- Location of the statistical unit
- Degree of urbanization

Frequency of collection / reporting

- Not all items in the minimum core data set will be needed annually
- Basic production data items are required annually
- Annual data will also be required for
 - Items which can change significantly from year to year
- For other items, frequency, and geographic coverage, will be determined based on
 - Cost of producing the data
 - Available resources
 - Expected degree of change for the item over time

Determining National priorities

- Each country will need to
 - Select which core items to include in its national system
 - Add other items relevant to the country
 - Decide how frequently each item should be provided

What will be asked during the IdCA?

- Is the data item available in the country?
- Who is the responsible agency for producing it?
- When was it last collected and how frequent?
- What is the main source of data?
- What is the geographical coverage?
- Quality perception?
- Is it available online?
- Does it follow international classifications?

Sustainability

- Once the minimum core data set is agreed it needs to be collected and disseminated at the frequency and geographic detail specified
- Initially donor support may be needed to enable this
- Ultimately funding needs to be provided from within the country

Dimensions of Capacity Assessment Framework

- Institutional Infrastructure (Prerequisite of capacity)
- Resources – Financial and Human (Inputs)
- Statistical Methods and Practices (Throughputs)
- Availability of Statistical Information (Outputs)

Capacity Assessment Framework

- **Asia Pacific**

- Assessment made along 4 dimensions and 23 elements
- Guidelines published by GO were used
- CAQ canvassed during the assessment phase
- Data scrutinized and referred back to NC for clarification, where necessary
- CCIs for **Sri Lanka, Indonesia, Bhutan** and **Bangladesh** are presented here

Agricultural and Rural Statistics Capacity Framework

Capacity Dimensions

Elements

I. Institutional Infrastructure (PREREQUISITES)

- 1.1. Legal Framework
- 1.2 Coordination in the Agricultural Statistical System
- 1.3 Strategic Vision and Planning for Agricultural Statistics
- 1.4 Integration of Agriculture in the National Statistics System
- 1.5-Relevance of data (user interface)

II. Resources (INPUT DIMENSION)

- 2.1 Financial Resources
- 2.2 Human Resources: Staffing
- 2.3 Human Resources: Training
- 2.4 Physical Infrastructure

III. Statistical Methods and Practices (THROUGHPUT DIMENSION)

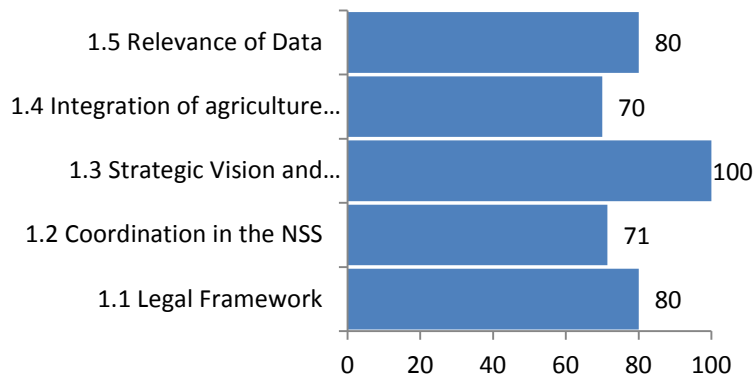
- 3.1 Statistical Software Capability
- 3.2 Data Collection Technology
- 3.3 IT infrastructure
- 3.4 General Statistical Infrastructure
- 3.5 Adoption of International Standards
- 3.6 General Statistical Activities
- 3.7 Agricultural Market and Price Information
- 3.8 Agricultural Surveys
- 3.9 Analysis and Use of Data
- 3.10 Quality of Surveys

IV. Availability of Statistical Information (OUTPUT DIMENSION)

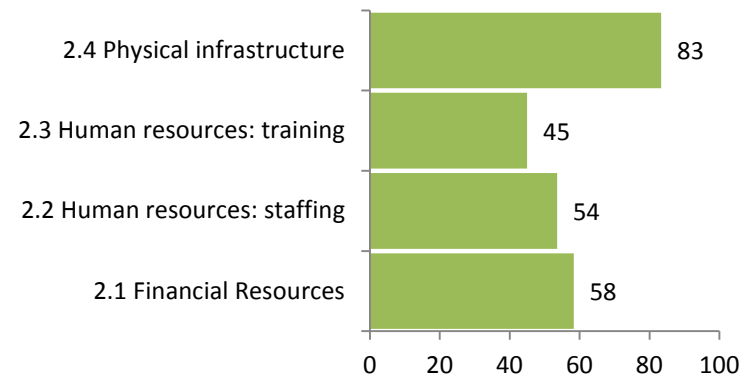
- 4.1 Core Data Availability
- 4.2 Timeliness
- 4.3 Usability of data
- 4.4 Data Accessibility

Bangladesh

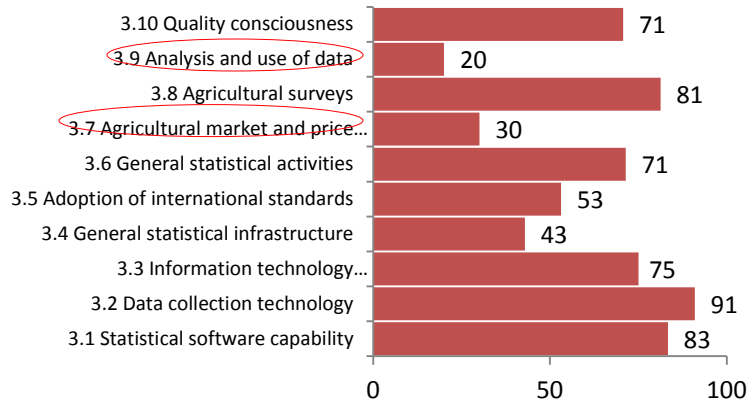
Institutional Infrastructure*



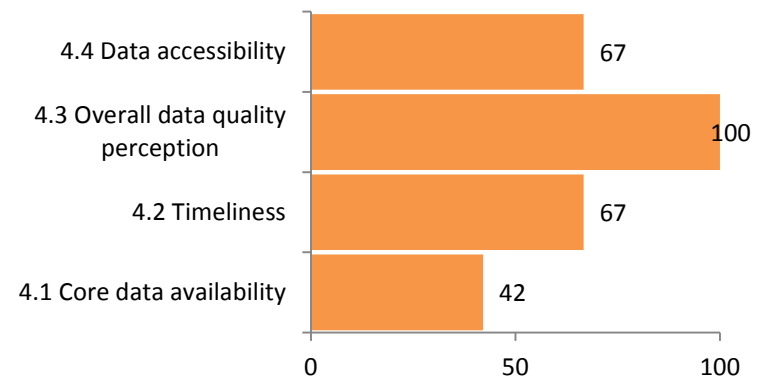
Resources*



Statistical Methods and Practices*

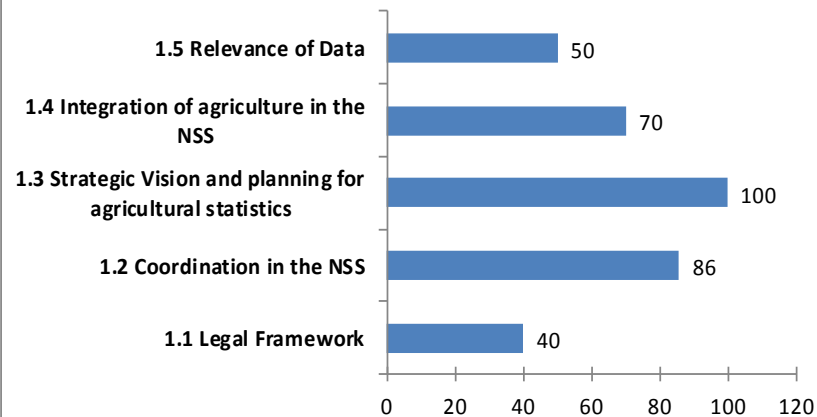


Availability of Statistical Information*

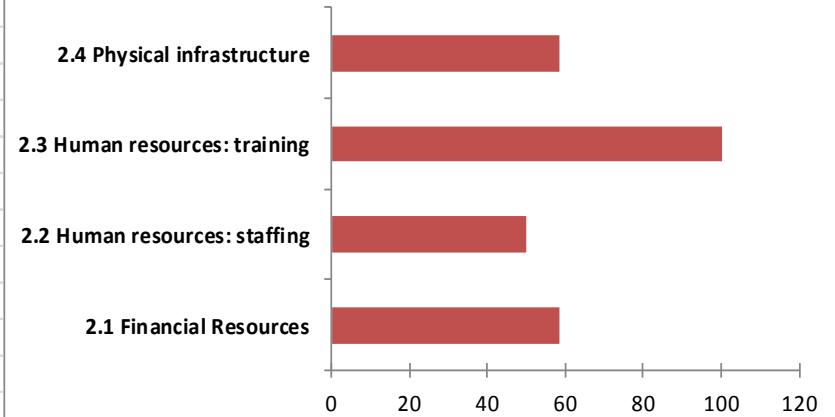


Bhutan

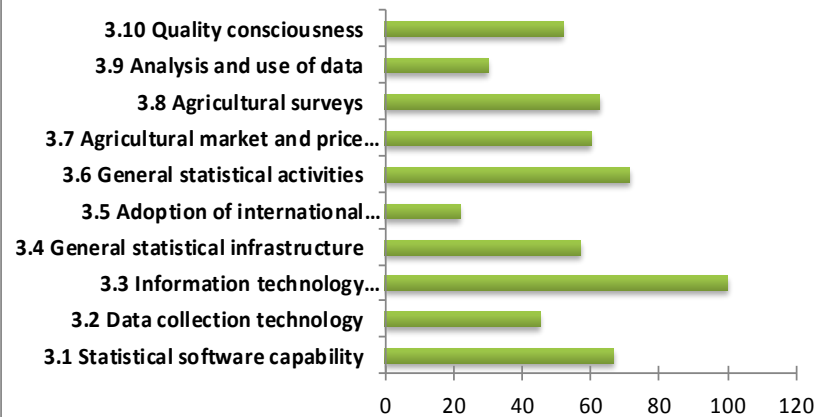
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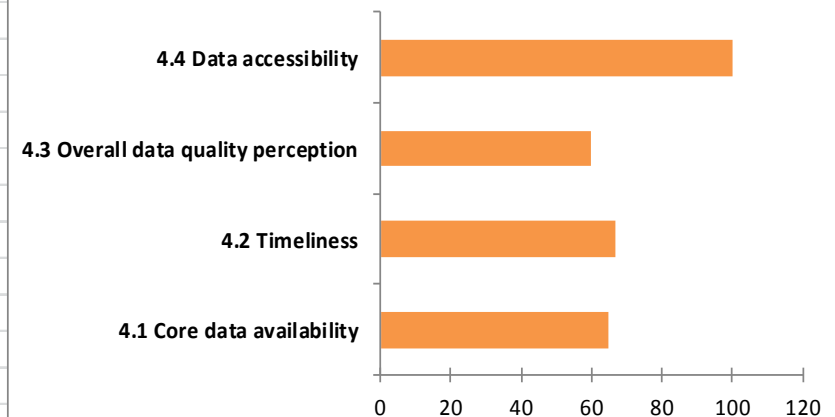
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Statistical Methods and Practices

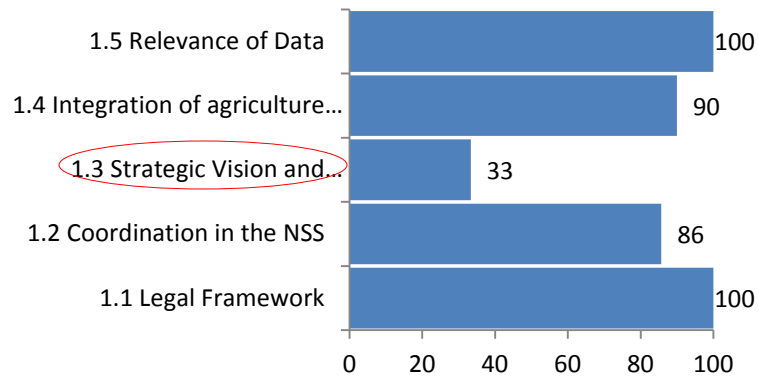


Availability of Statistical Information

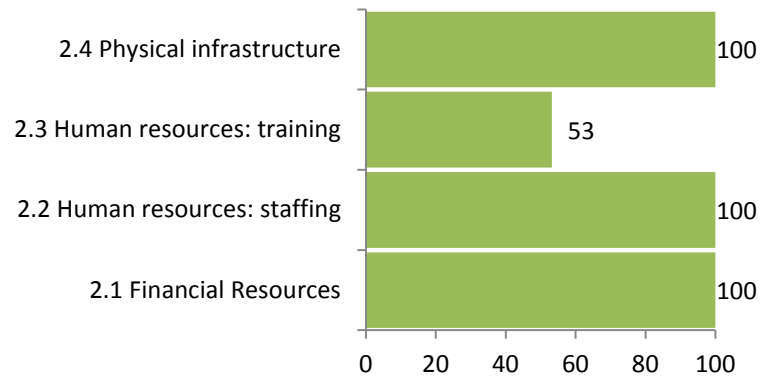


CCIs for Indonesia

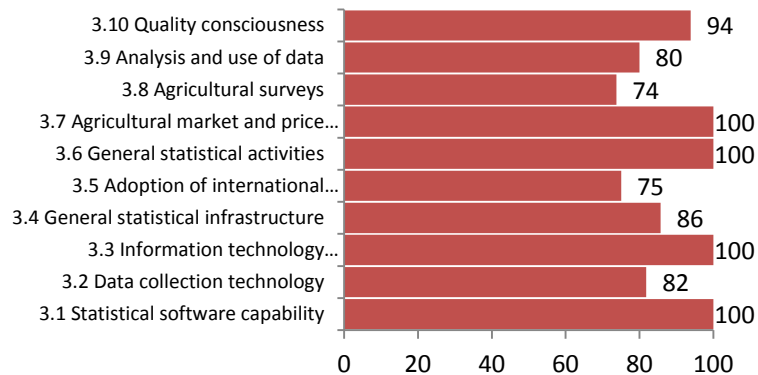
Institutional Infrastructure*



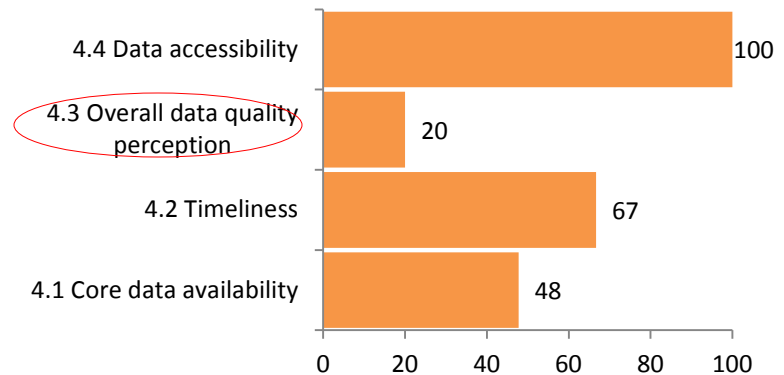
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Statistical Methods and Practices*

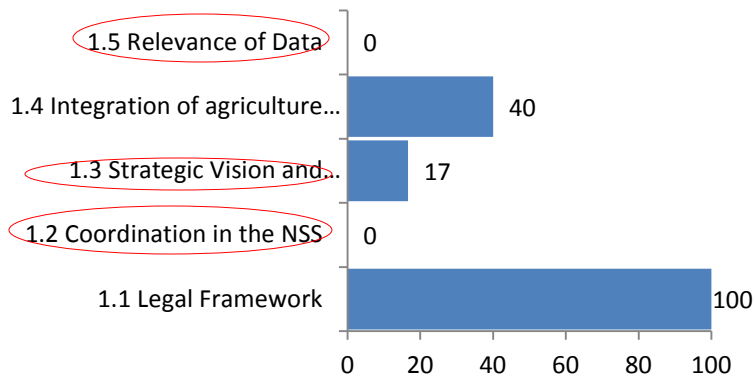


Availability of Statistical Information*

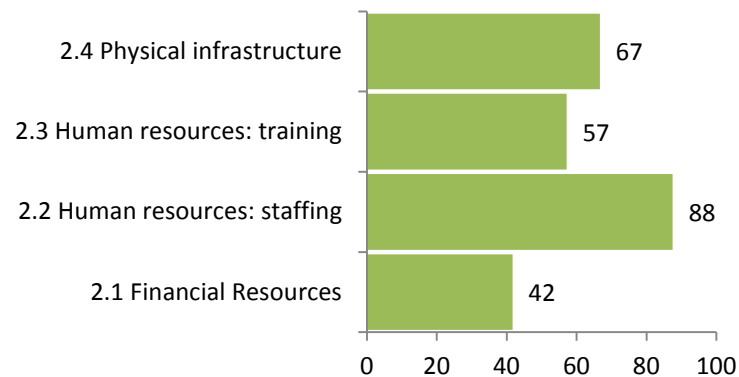


CCIs for Sri Lanka

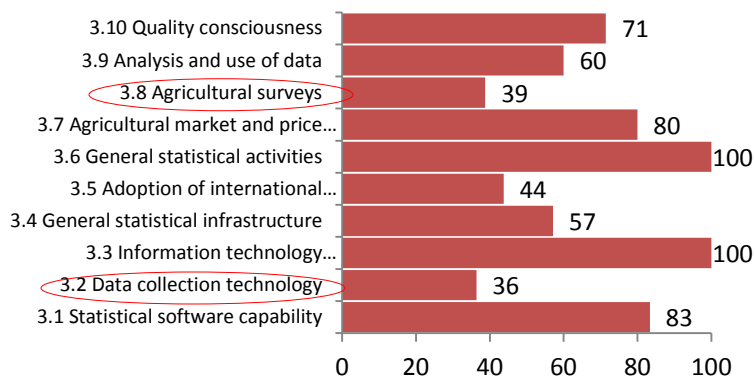
Institutional Infrastructure*



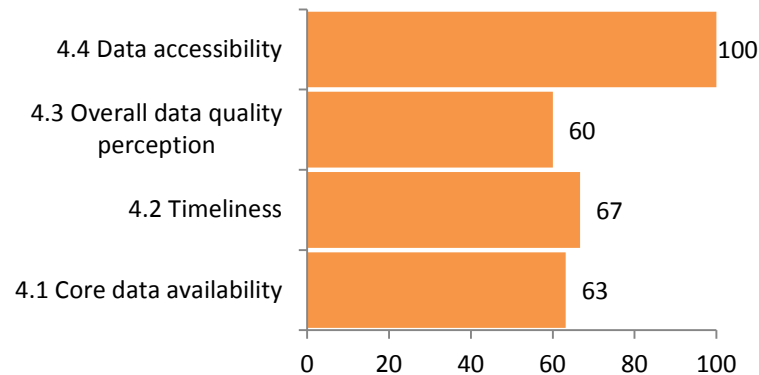
Resources*



Statistical Methods and Practices*



Availability of Statistical Information*



Framework for Assessing Country Capacity to Produce Agricultural and Rural Statistics

- Questions??