

# IMPROVING STATISTICS RESPONSIVENESS

## TO FULFIL THE INCREASE OF DATA DEMAND



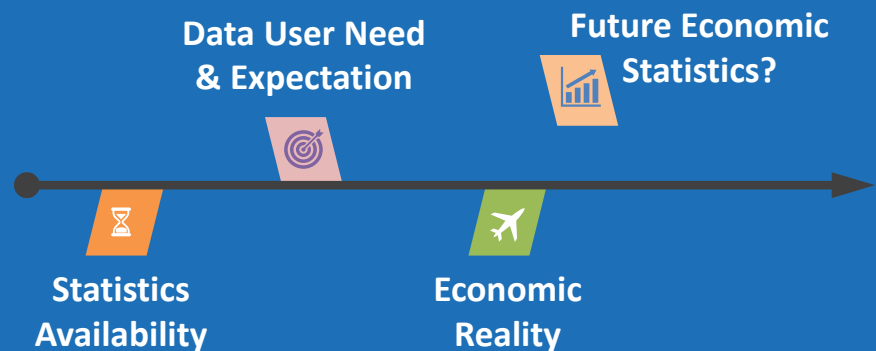
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### Timeline Style

## STATISTICS CHALLENGES



✓ Frequently, statistics availability is behind the economic reality and data user need & expectation

✓ Understanding future economic statistics could help statistics agencies to plan what they should do in playing their roles and delivering their services

## INCREASING RESPONSIVENESS

### 1A STATISTICAL OPERATION



#### Implementing SBFA (statistical business framework architecture):

[1] specify need – [2] design – [3] build – [4] collect – [5] process – [6] analyse – [7] disseminate – [8] evaluate



#### Placing National Accounts Framework as locomotive of statistics improvement

- SUT (supply and use table) and FSA (full sequence of accounts) used as national accounts framework supported by subject matter statistics results



#### Moving from silo to integrated statistical objectives and activities (gradually)

- Integrating and reducing surveys



#### Increasing coordination to improve availability and quality of sectoral statistics

- Improving registrations and administrations as primary sources of data



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## INCREASING RESPONSIVENESS

### 1A STATISTICAL OPERATION(2)



#### Implementing Indonesia One Data (Satu Data Indonesia, SDI)

- Currently still in early stage
- Based on Perpres No 39 2019, BPS is one of national data coaches
- One data principles: [1] comply with data standard, [2] equipped with metadata, [3] using data reference, [4] interoperability



#### Adopting new techniques

- Using IT in collecting (CAPI: computer-assisted personal interviewing, CAWI: computer aided web interviewing), processing, analysing, disseminating, and distributing data
- Using small area estimation method to estimate statistics in smaller area



#### Using new data sources

- Exploring and using big data either for experimental statistics or replacing, completing, or confronting official statistics



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## INCREASING RESPONSIVENESS

1B

### STATISTICAL INFRASTRUCTURE



Updated statistics classifications that align with international recommendation and national purpose



Adaptive manual compilations

- ✓ Integrated, link and match each other
- ✓ align with international recommendation



Updated statistics frame

- ✓ Business register
- ✓ Household frame
- ✓ Area frame



Capable IT Infrastructure

- ✓ Hardware
- ✓ Software
- ✓ Network



Statistics regulation



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Should be supported  
by human resources

- Quantity
- Quality
- Balance distribution

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## INCREASING RESPONSIVENESS

2A

### COLLABORATION



Increase in-country collaboration

- ✓ Recognition the important of data
- ✓ Spirit of efficiency in using the resources, effectiveness and accuracy in achieving the target (avoiding duplication and overlapping activities and use of resources)
- ✓ Clear and strong regulation
- ✓ Institutional relationship and government support
- ✓ Collaboration culture & dynamic arrangement



Increase bilateral and multi-country collaboration

- ✓ Agreed international initiatives and statistics priorities
- ✓ Well managed coordination
- ✓ Availability of support: technical assistance, funding



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## INCREASING RESPONSIVENESS

2B

### EXPERIMENTATION



Urgent need from data users and internal use



Availability of international recommendation

- provide valid methodology and best practice,
- enable NSO to compare the experimental statistics result with other countries'



Good institutional relationship

- government institutions – NSO – academics – expert - international organizations



Readiness of IT infrastructure, particularly for

- compiling the experimental statistics
- managing the resources (for example, availability of portal that provide information of what, who, when, and how list of experimental statistics projects, priority programs, and improvement plans);



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## INCREASING RESPONSIVENESS

2B

### EXPERIMENTATION(2)



Availability of skilled staff



Funding sufficiency



Incentives for staff, either financial, career path, or recognition



Conducive work environment, Availability of research center and academic & competition forum, and Availability of knowledge and experience exchange forum (assembling the resources and idea from statisticians, data engineer, data scientists, economists, and other experts)



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#### NSO ROLES IN IMPROVING SYSTEM



Implementing established international recommendation in-country level



Contributing in system updating/improvement program in international level



Contributing in development of new system in international level



Learning and sharing experience with other countries



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BADAN PUSAT STATISTIK

# THANK YOU



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Penduduk  
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