Statistical Metadata Strategy

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AGENDA

• Background
• Current Situation
• The New Approach
• Metadata Implementation Strategy, Methodology & Plan
• Recommendations
CIO Vision

“Highest Standard of Living and Best Quality of Life for Citizens through Comprehensive, Secure, Accurate and Timely Information and Services”
1978
CIO as Statistics

1980
First online System

1990
Gov Strategic Information Systems Plan SISP

2000

2004
Smart card project

1979
1st Gov Computer Foreign Trade, statistical sys Census, statistics consumer Price index, Electricity Billing and HR & Payroll

1981
Centralized computing resources Approve HW, SW, Services & Census

1984
Central Population Register CPR

1994
Disaster Recovery Plan 24 hrs services to gov

2001
Semi Register Census

2002
Elections

2010
Registered Base Census
Current Situation
Current Situation

- **Infrastructure** is ready (GDN, NDS)
- High Level support (PM office)
- Metadata collected, processed, analyzed, disseminated and archived in many entities following different methodologies, definitions, classifications & Standards.
- Metadata exchange very difficult.
- Difficulty in liaise and **coordinate** with data producers and the Statistics office.
- Metadata reports not consistent
- No flexible report tools
The New Approach
National Data Set (NDS)

Gov Data Network (GDN)

Security

Elections

E-Gov

Smartcard

Metadata Warehouse

Census
Statistical Metadata New approach

Develop Electronic Statistical Data Warehouse that can be accessed thru Web services 24/7

- Standardize Definitions, Classifications, Processes, Methods, and Technology
- Reduce costs
- Increase service levels and
- Ease data exchange and interoperability
Metadata Implementation
Strategy, Methodology & Plan
Metadata Implementation Strategy

Build a framework for statistical metadata (sources, structure, quality, storage, standards, exchange, dissemination, and distribution).

- Provide accurate, timely information for decision makers
- Improve integration of data and collaboration on data collection and management between all data producers
- Solve inconsistency of data between data producers.
- Ensure data dissemination and availability when required.
- Contribute to more accurately reflecting Bahraini reality in international indicators/indexes through development of systems, capacities, and relations.
- Improve ranking in International indicators
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<th>Ser#</th>
<th>Item</th>
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<tbody>
<tr>
<td>1</td>
<td>Establish National Statistics P3O office (Coordinate, Document)</td>
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<td>2</td>
<td>Identify policies, processes and procedures in collection, analysis, and dissemination.</td>
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<td>3</td>
<td>Coding and Classifications standardization</td>
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<td>4</td>
<td>Data Mapping and integration for new classifications and codes</td>
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<td>5</td>
<td>Data exchange applications, tools and programs</td>
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<td>6</td>
<td>Identify hardware, software, products, and tools needed</td>
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<td>7</td>
<td>DWH &amp; Website development and Maintenance</td>
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<td>8</td>
<td>Build statistical skills and capacities.</td>
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<td>9</td>
<td>Ads, translation, printing and awareness Campaign</td>
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Planning Phase

- Define Scope of project, resources, deliverables and budget.
- Design and build metadata needed for indicators, indexes, and reports.
- Identify data stakeholders, beneficiaries and data producers.
- Gap analysis.
- Identify metadata data definition, standards, format and classifications.
- Identify hardware, software, products, and tools.
- Identify integration, and mapping areas
- Identify policies, processes and procedures in collection, analysis, and dissemination.
- Define training needs.
Design & Building Phase

- Design Statistical Data Base and storage
- Design Questionnaires, surveys, Website, and forms needed for data collection.
- Design data exchange process and mechanism.
- Create statistical data base
- Develop needed applications for data collection and reporting.
- Develop statistical website.
- Allocate resources for data collection process, auditing, analysis, and reporting.
- Schedule data collection methods
Deploy Phase

- Conduct surveys and researches to collect the needed data.
- Organize training on mechanism of data collection and processing.
- Audit entered data.
- Produce cross checking tables and reports.
- Produce indicators and reports.
Recommendations
Recommendations

• Build a shared services National statistics office and prepare legal framework (Laws, policies)
• Increase awareness of the value of metadata for getting better services and products
• Build a national framework for statistical metadata
• Enforce all data producers to apply the definitions, standards, and methodologies and encourage them to fill the gap for missing variables by conducting surveys and researches.
• Improve Regional and International cooperation and affiliation.
• Build competency via statistical training programs
Quality Assurance
Quality Assurance Framework

• Establish a formally agreed process for data definitions, classifications, and relations for all variables that will be needed to produce National indicators and reports.
• Provide Road map for project implementation and exchange awareness among government entities and NGO’s related
• Assign needed skill resources, budget, and sponsor to the project
• Ensure confidentiality of data through secure and appropriate storage of records.
• Put mechanism to encourage data producers to adopt and apply the data standards need to be followed.
• Put mechanism to encourage and assist data producers to conduct Surveys to generate the required needed data.
• Ensure any assessments will be done by professionals with appropriate competencies and training which match the needs of the project.
• Conduct appropriate assessment and evaluation to the data classifications, storage, and data exchange.
I Thank You All

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