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Research Question And Scope Of Study

• Research Question:
  How NEWSS Framework support the implementation of Monthly Manufacturing (MM) Online Survey

• Scope of Study
  i. NEWSS architecture, functions and features
  ii. The trend of online e-Survey for years 2013 -2016
Methodology

1. Generic Statistical Business Process Model (GSBPM)
2. Cut Off Sampling Method
3. Probability Sampling Method
4. System Development Life Cycle (SDLC)
Findings:

1. DOSM ICT Framework

**APPLICATION** - GSBPM

**SPECIFY NEEDS**
- Feasibility studies
- Edit Spec

**DESIGN**
- Design tools eg Ms Office

**BUILD**
- Freehand

**COLLECT**
- e-Survey
- Online Data
  - ICR
  - CAPI
  - CATI

**PROCESS**
- NEWSS
- Office Automation
- Mobile App
- Economic Sector
- Social Sector

**ANALYSE**
- SAS
- SPSS
- eView
- Stata
- MS Excel
- StatsBDA

**EVALUATE**
- Manual

**ARCHIVE** - StatsDW

**DATA CENTER (DC)**
- Head Quarter
- DC Myloca
- DC ILSM
- States Server Rooms
- Network Rooms & ICT Operation Office

**INFRA & SECURITY**

**1GOV*NET**
Findings:

2. NEWSS Framework

NEWSS ISSF Framework Components

**Sampling Frame**
- EB - 2 Stage Strata Sampling
- LQ - Random Selection

**LQ Type**
- IR Count
- Head Name
- Ethnic

**Pre-Collection**
- EE and HH Frame
- EE and HH Sampling Sample

**Collection**
- Case Assignment
- Operational Control Info
- Field Enumeration

**Processing**
- Offline Data Entry
- Online Data Entry
- eSurvey

**Analysis**
- Business Analysis

**Dissemination**
- e-Services

**Activities**
- Batch Processing
- Online Validation Report
- Report
- Publication
- Backup & Recovery

**Frame Management, Other Agency**
- Census Cut Off Probability (DH) Probability
- Visit Info Operation Status 5 Principal
- Batch Processing
- Online Validation Report
- Report
- Publication
- Backup & Recovery

**Archive**
Findings:

3. Number of e-Survey and Electronic Media Respondents for MM e-Survey

<table>
<thead>
<tr>
<th>Years</th>
<th>Total Samples</th>
<th>Registered e-Survey Respondent</th>
<th>New Registered e-Survey Respondent</th>
<th>Total Registered e-Survey Respondent</th>
<th>Electronic Medium (Email, Fax &amp; Telephone)</th>
<th>Total e-Survey &amp; Electronics</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>4,388</td>
<td>1,752</td>
<td>378</td>
<td>2,130</td>
<td>1,737</td>
<td>3,867</td>
<td>88.1</td>
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<tr>
<td>2014</td>
<td>5,217</td>
<td>1,570</td>
<td>241</td>
<td>2,371</td>
<td>1,742</td>
<td>4,113</td>
<td>78.8</td>
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<tr>
<td>2015</td>
<td>5,097</td>
<td>1,124</td>
<td>129</td>
<td>2,500</td>
<td>1,761</td>
<td>4,261</td>
<td>83.6</td>
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<tr>
<td>2016</td>
<td>5,044</td>
<td>1,599</td>
<td>113</td>
<td>2,613</td>
<td>2,330</td>
<td>4,943</td>
<td>98.0</td>
</tr>
</tbody>
</table>

✓ Total respondents for e-Survey and electronic media increase every year. However, new registered have decreased
Findings:
4. Growth Year on Year for Registered e-Survey Respondents

- Registered e-Survey respondent decreased in 2015 due to the changes of sample selection method

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<th>Growth YoY (%)</th>
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Findings:
5. Growth Year on Year for Electronic Media Respondents

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<tr>
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<td>2,330</td>
<td>46.2</td>
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Remaining issues/further research

1. Framework Scalability - Mobile Access

According to IDC, Nov 2015 – The top technology prediction for 2016 is mainly on Digital Transformation (DX) using technologies such as mobile, cloud, big data analytics, IoT, AI and robotics. By 2020, almost 50% of IT budgets will be tied into DX initiatives and by 2017, over 50% of IT spending will be for new technologies (mobile, cloud, big data, etc.).

2. Improve Visual Design - easier for respondents to complete the survey

3. Awareness to electronic media respondent to use e-Survey
Thank You!