UN Task Team on Training, Competencies and Capacity Development

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Overview

• Institutional Readiness for Big Data in Official Statistics

• NSO Big Data Maturity Matrix – *in development*

• Big Data Competency Framework

• Big Data Training Provision – *in development*
Institutional Readiness for Big data in Official Statistics

• UN Survey of “NSO readiness for Big Data in Official Statistics”

• Global Capacity Assessment
  • Strategic Data Science Coordination – plans for big data analytics
  • Legal Framework – for data access and sharing
  • IT Infrastructure – capacity for big data storage and analytics
  • Human Resources – big data / data science posts, skills, recruitment

• Issued globally to 160 NSOs; 63% response rate
Institutional Readiness for Big data in Official Statistics

Some of the main Challenges:

• Obtaining big data sources outside of Government

• Many Legal Frameworks need to be updated to regulate for big data applications

• Data storage (offsite or onsite) and processing power; few NSOs considering secure Cloud

• Upskilling of analysts: Most NSOs lack a competency framework to develop new skills to cope with big data and new methodologies
Institutional Readiness for Big data in Official Statistics

• So what now?
  • **NSO Big Data Maturity Matrix** or *Big Data Capacity Assessment* – establish NSO strengths and weaknesses -> roadmap development, strategic plans, training programmes (in progress)

  • **Big Data Competency Framework** – general guidance for NSOs’ Big Data competency building -> for use when hiring, assessing knowledge gaps, and training staff

  • **Training provision** – work in progress: on-line training to be developed by the UN GWG Task Teams
NSO Maturity Matrix

• Self-assessment tool for the NSO to determine where it is now and where it wants to be -> help inform a plan
• The NSO will set its own target
• Through answering a set of questions, the NSO will be provided with a picture of where it currently is on its big data journey
• Any gaps will be identified and should inform an NSO strategic plan

• We will require NSOs to test our Maturity Matrix before it goes live
## NSO Maturity Matrix

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<tr>
<th>Dimension</th>
<th>Pre-Foundation Level</th>
<th>Foundation Level</th>
<th>Intermediate</th>
<th>Advanced</th>
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<tbody>
<tr>
<td>Legal Framework</td>
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NSO Target