**Date:**      **Participating Members:**      **Assessment Context:**

## B-Collect Data
### 1-Inventory, Condition, and Performance

# B.1.b – Inventory, Condition, and Performance Automation

| **Element Description** | Efficient and effective use of technology for asset data collection (such as sensing technology, video, LiDAR, field collection tools) |
|---|---|

| Benchmark Level 0 | Benchmark Level 1 | Benchmark Level 2 | Benchmark Level 3 | Benchmark Level 4 |
|---|---|---|---|---|
| Primarily pen/paper collection. | Collection in digital form but through largely manual processes that could be further automated (e.g. stand-alone, electronic forms or spreadsheets). | Data collection using primarily automated/semi-automated techniques. (e.g. custom applications with GPS location detection, voice recognition, bar codes / QR codes) | Data collection using primarily automated / semi-automated techniques with capabilities to efficiently adapt tools to meet varied data collection requirements across multiple data collection business processes or asset types. | Application of state-of-the-art computer vision and change-detection techniques for data extraction and efficient updating. |
| Current: ☐   Desired: ☐ | Current: ☐   Desired: ☐ | Current: ☐   Desired: ☐ | Current: ☐   Desired: ☐ | Current: ☐   Desired: ☐ |
| ☐ Document business cases for automation through internal practice, peer agency, and best practice reviews. | ☐ Pilot and implement a vehicle-based data collection solution for individual assets (e.g. video imagery extraction) | ☐ Pilot and implement vehicle-based data collection solutions for multiple assets (e.g. video image collection / LiDAR) | ☐ Use change detection to automate and/or focus collection. Leverage changes in base inventory, work accomplishments, condition forecasting, and other techniques to eliminate or reduce collection in low value areas. | |
| ☐ Implement simple solutions to move away from pen & paper collection (e.g. digital forms or spreadsheet tools) | ☐ Pilot and implement semi-automated field collection tools (e.g. mobile data collection applications) | ☐ Pilot and implement field collection tools useful for multiple data collections (e.g. standardized apps or enterprise asset management system tools) | ☐ Conduct periodic evaluation and pilot testing of cutting-edge applications or capabilities to asset data collection programs. Implement identified collection solutions as appropriate. | |
| ☐ Other: | ☐ Other: | ☐ Other: | ☐ Other: | |

**Assessment Notes:**

**Improvement Notes:**