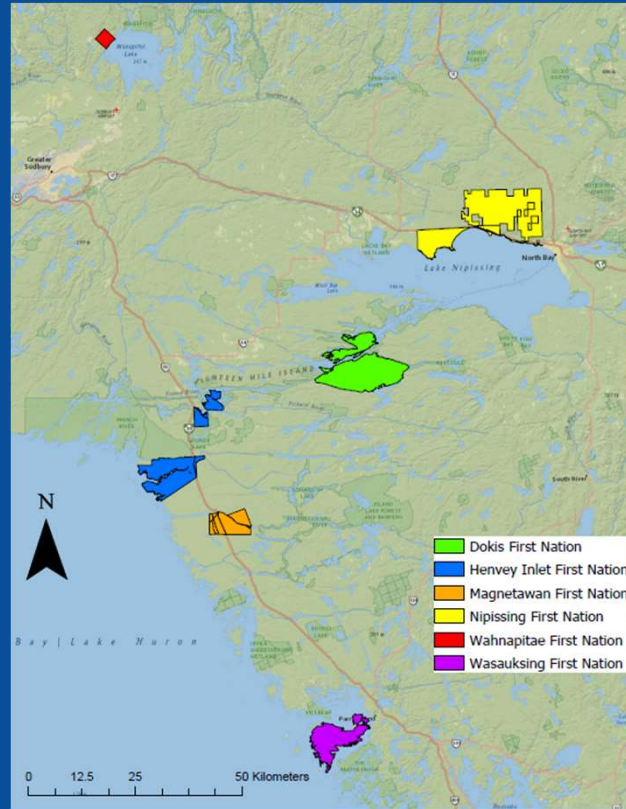
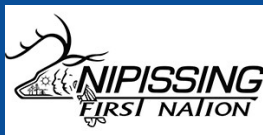




**Waabnoong Bemjiwang Association
of First Nations**

ONTARIO JOINT GATHERING
ASSET MANAGEMENT – SMART NATION APPROACH
May 14, 2019

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Working Together to Find a Solution

WBAFN Asset Management Strategy began August 2013

Research & Development

Incorporates ACRS, FNIIP, Housing, Roads, Buildings, Water/Wastewater,
Funded and Unfunded Assets



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ISC - Capital Facilities and Maintenance Program

- Maximize the life cycle of physical Assets
- Mitigate health and safety risks
- Ensure Assets meet applicable codes and standards
- Ensure assets are managed in a cost-efficient and efficient manner



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Finance Administration Law

Policy to manage First Nations capital assets

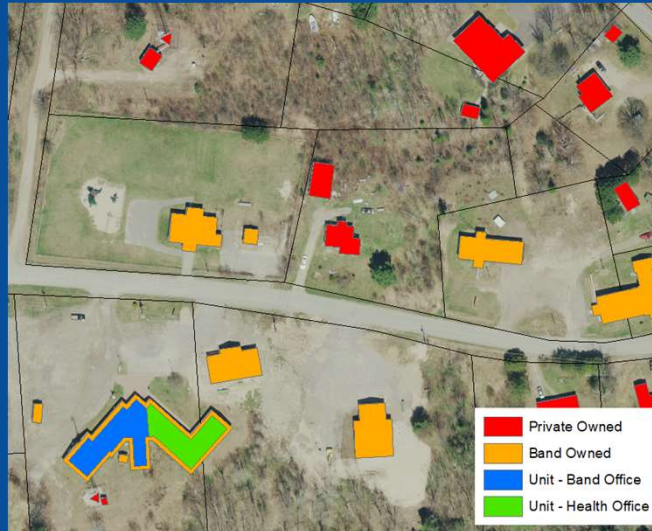
Life cycle planning of these capital assets

Savings fund



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What are Infrastructure Assets?



What is Asset Management?

Physical
Assets

Commissioning
Operating
Maintaining
Upgrading
Decommissioning



Four Fundamentals of Asset Management

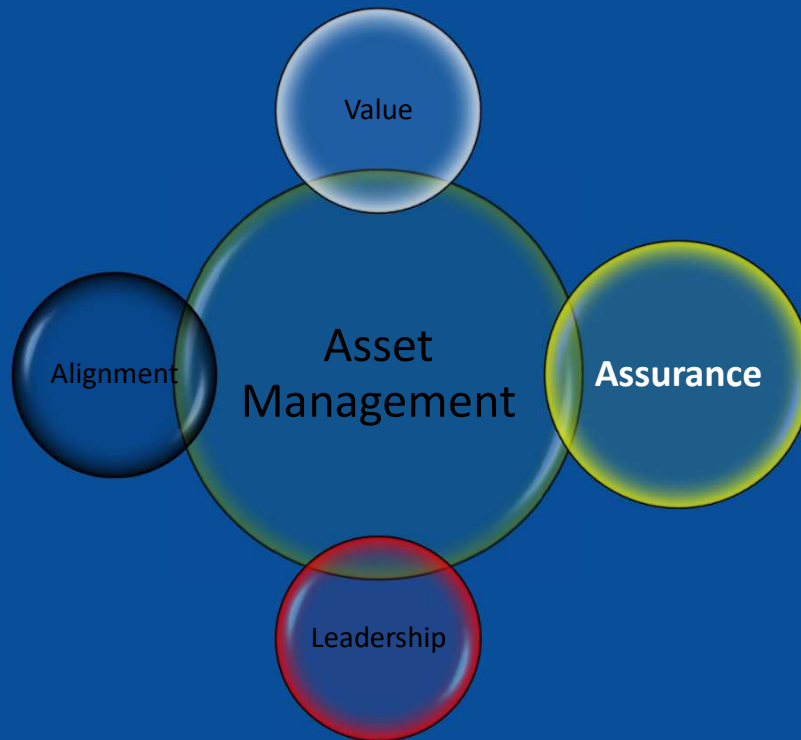


Four Fundamentals of Asset Management



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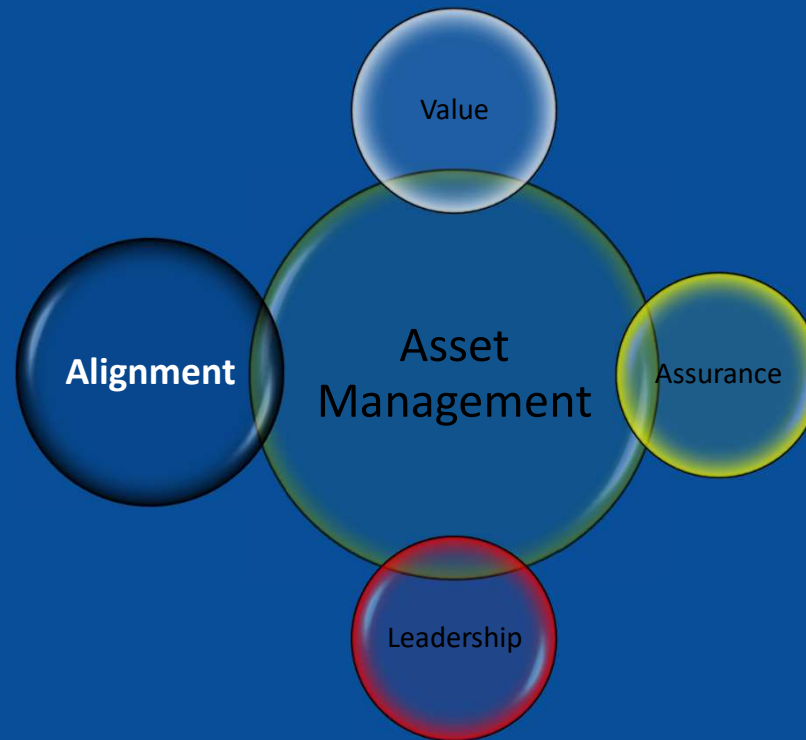
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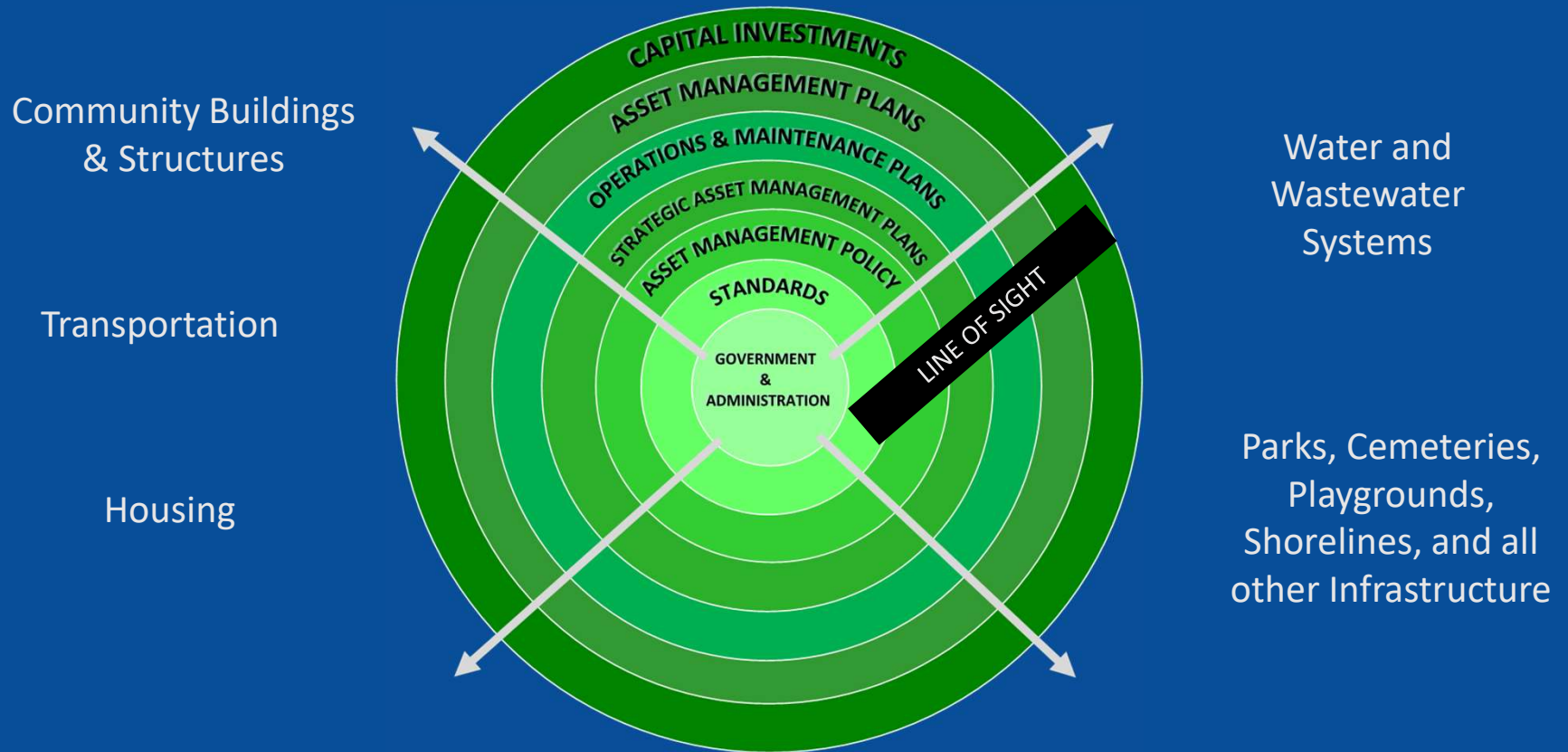
Four Fundamentals of Asset Management



Four Fundamentals of Asset Management



WHO IS INVOLVED IN ASSET MANAGEMENT?



PROJECT CHALLENGES

- Internet Access
- Level of Service Policies
- Accessing Asset Information
- Security and Privacy Issues
- Technology Infrastructure Capacity



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WHAT IS NEEDED FROM COMMUNITIES?

- Collaboration & Cooperation
- Support
- Laws, Regulations, By-Laws, Policies
- Standards
- Record Keeping
- Community Engagement



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WHY IS ASSET MANAGEMENT IMPORTANT?

Requirement for Better
Methods

Protecting Investment
in Assets

Maximize Asset
Life-cycle

Improve Quality of
Asset Data



WHY IS ASSET MANAGEMENT IMPORTANT?

Care and Control
of Data

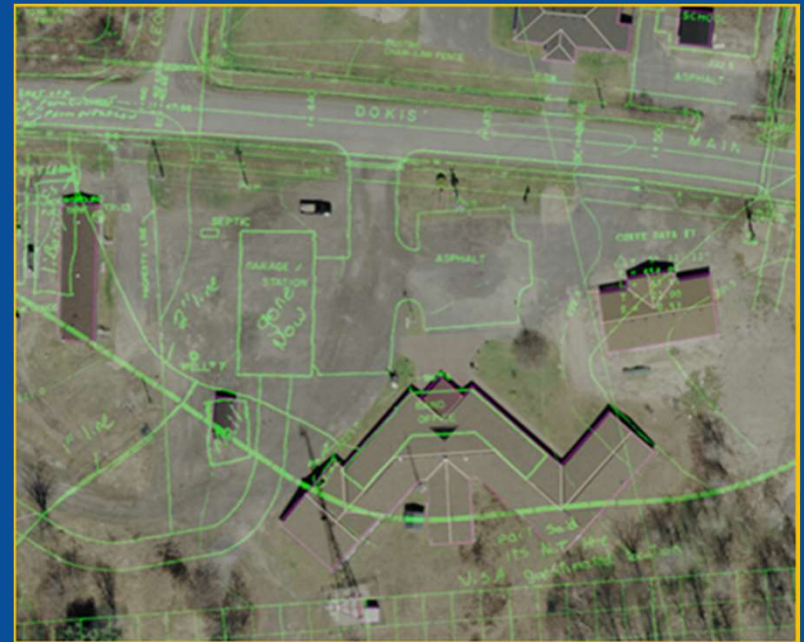
Determine Actual Operations
& Maintenance Costs

Ensuring healthy and
safe community living

First Nations
Led Approach



PHASE 1 - ASSET MANAGEMENT SYSTEM IMPLEMENTATION



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PHASE 1 – Project Funding



Indigenous and
Northern Affairs Canada



nohfc

An Agency of
the Government
of Ontario



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PHASE 1 - Asset Statistics

- 367 Band owned buildings
- 3774 privately owned buildings
- 91 km paved roads
- 104 km gravel and earth roads
- 28,247m water distribution mains
- 132 fire hydrants



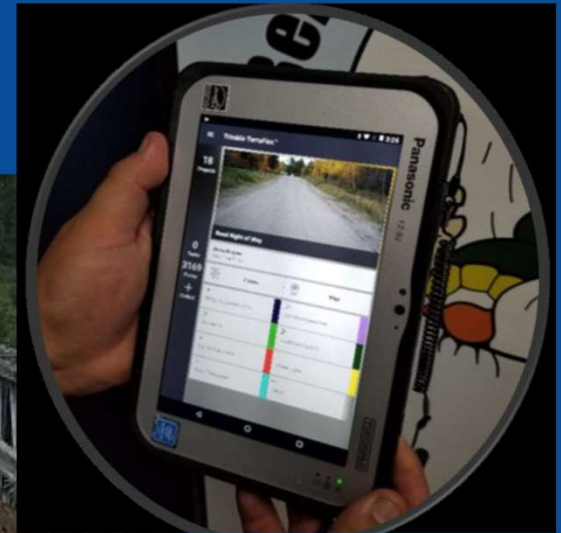
PHASE 1 – Technology Infrastructure

- Equipment
- Skills
- Information



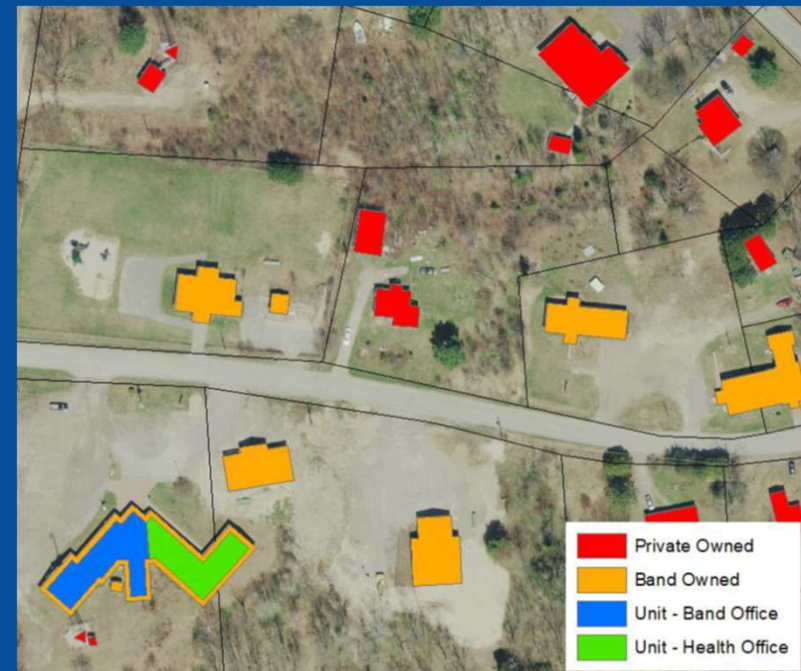
PHASE 1 – Field Data Collection

- Field Data Capture Asset Information (ACRS)
- Location of Assets
- Always Current Asset Information



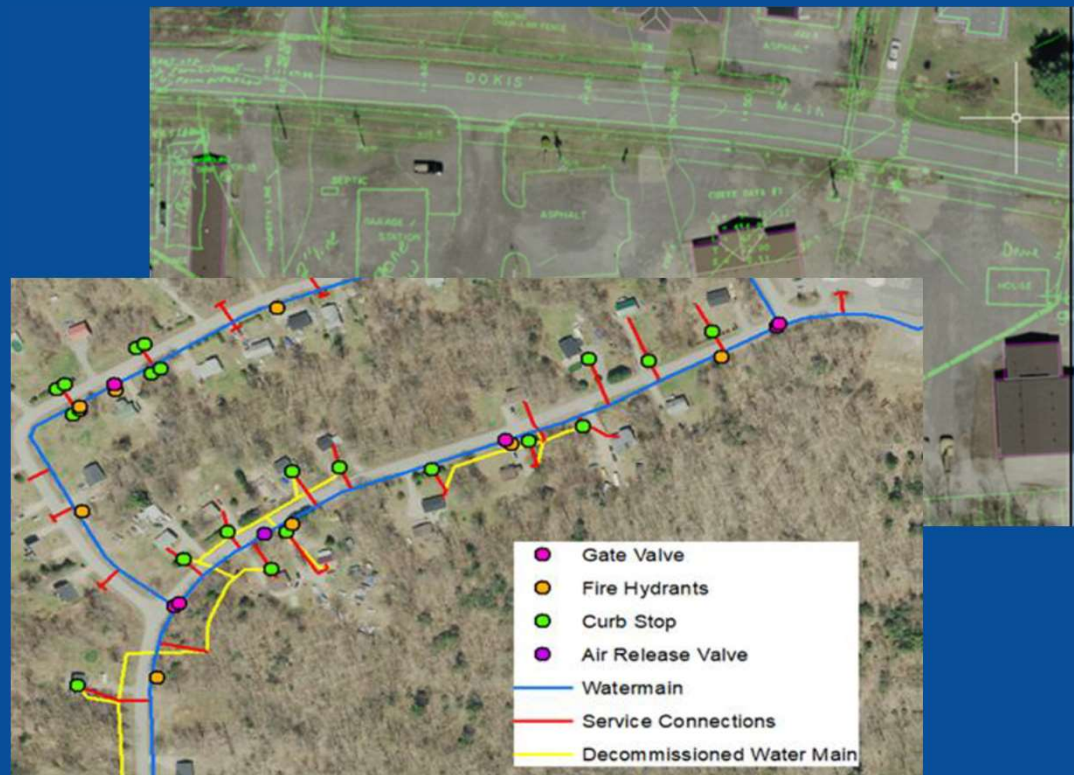
PHASE 1 – Building Data Capture

- Traced Rooflines of All Buildings
- Assigned Unique Identification Numbers to All Buildings
- Captured Asset Information



PHASE 1 – Water and Wastewater Data Capture

- As Built Engineering Drawings
- AutoCAD Drawing Files
- GPS Data Collection

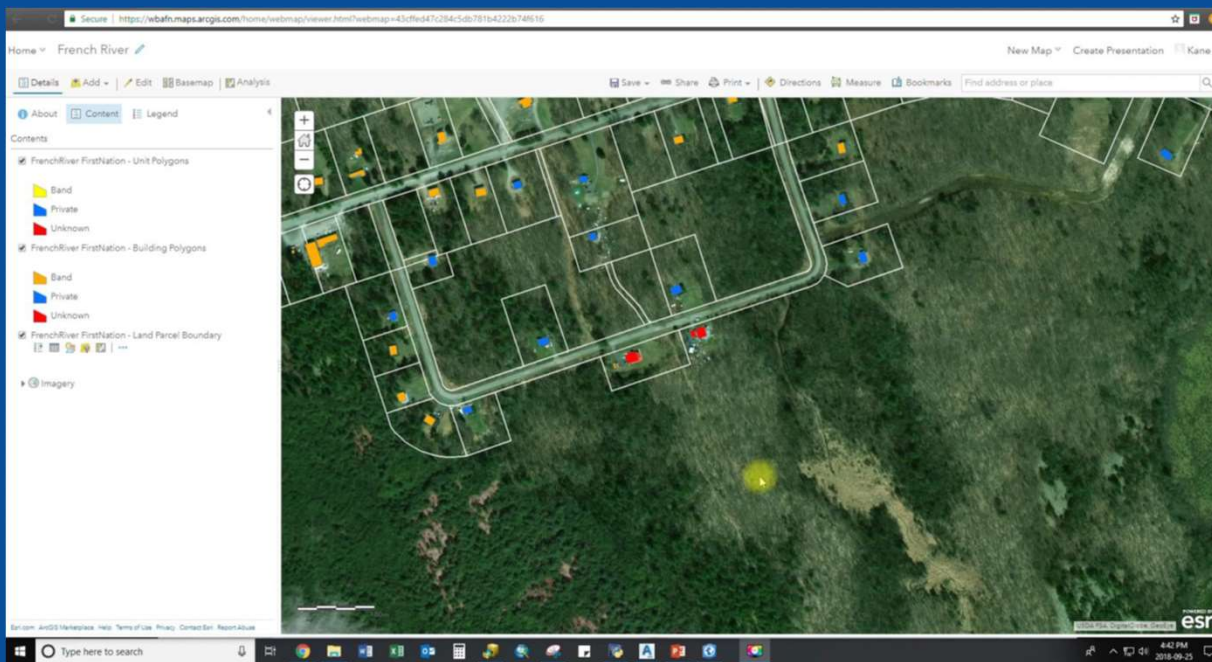


PHASE 1 – Road Data Capture

- Orthographic Photography
- Global Positioning System
- Field Data Collection tablets



PHASE 1 – Web GIS Tools

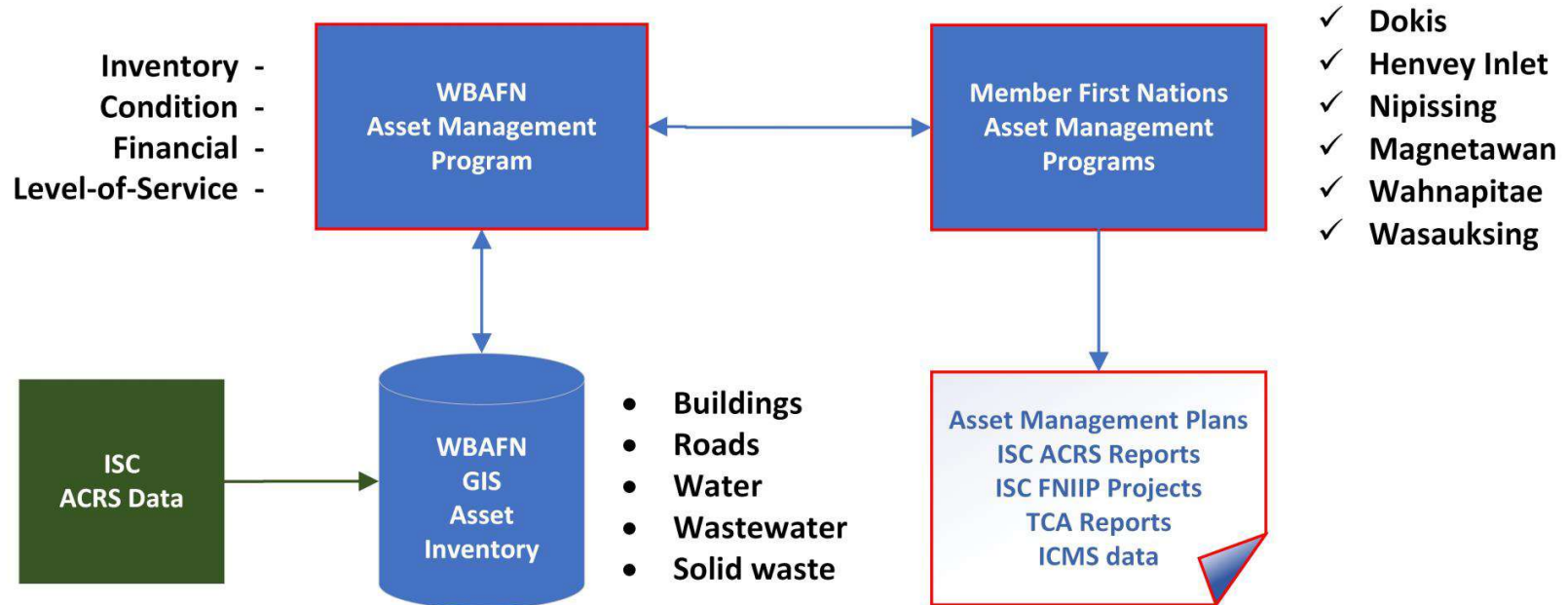


- GIS Web Tool
- Password Protected
- Integrated




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PHASE 1 – ACRS Integration




PHASE 1 – ACRS Integration



Road Information
 Waabnoong Bemjiwang Association of First Nation
 Pickering River Rd
 Pickering, Ont. P0G 1J0
 Ph: 1-705-857-5442

Waabnoong Bemjiwang
 Disclaimer: These digital mapping products have been produced on the Waabnoong Bemjiwang Association Of First Nations Information System. Data sources with varying levels of accuracy. This is not a survey product. Waabnoong Bemjiwang Association Of First Nations disclaims all responsibility for information contained herein. Waabnoong Bemjiwang Association Of First Nations assumes no responsibility for errors arising from use of these digital products.



ROAD_ID: 411218061106030101
 ROAD_NAME: MAIN ROAD
 YEAR_CONST_Y: 1996
 SITE: DOWNS_08
 SITE_NO: 95150
 ASSETNO: 600301-01
 REMARKS: This portion of the main road is paved with Asphalt, 1996

Page: 1
Report Generated by Marnak Simplicity
08/11/2019 2:28:59 PM

ASSET CONDITION REPORTING SYSTEM
PHOTOS

ACRS (Asset Version 1.0) - March 2012
 Page 4 of 5

BUILDINGS ROADS BRIDGES WATER WASTEWATER SOLID WASTE VEHICLES

Region Name:

Site No.:

Site Name (Reserve):

F.N. No.:

First Nation Name:

Asset No.:

Ext. No.:

Asset Code:

Asset Name:

Inspected By:

Inspection Date: Y Y M M D D

Year of Construction:

Est. Remaining Life (years):

Overall Condition Rating (0 - 10)
 0 = Closed
 1-3 = Poor
 4-6 = Fair
 7-9 = Good
 10 = New

0 & M Rating (0 - 3)
 0 = Non-existent
 1 = Substandard
 2 = Acceptable
 3 = Exemplary




Photo No.: 1
Description:
Beckanon Road looking East from Healey No.69






Photo No.: 2
Description:
Beckanon Road looking West from Healey No.69


Infra and Services
Infra Canada
Assets, solutions
with you Canada




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SMART NATION APPROACH

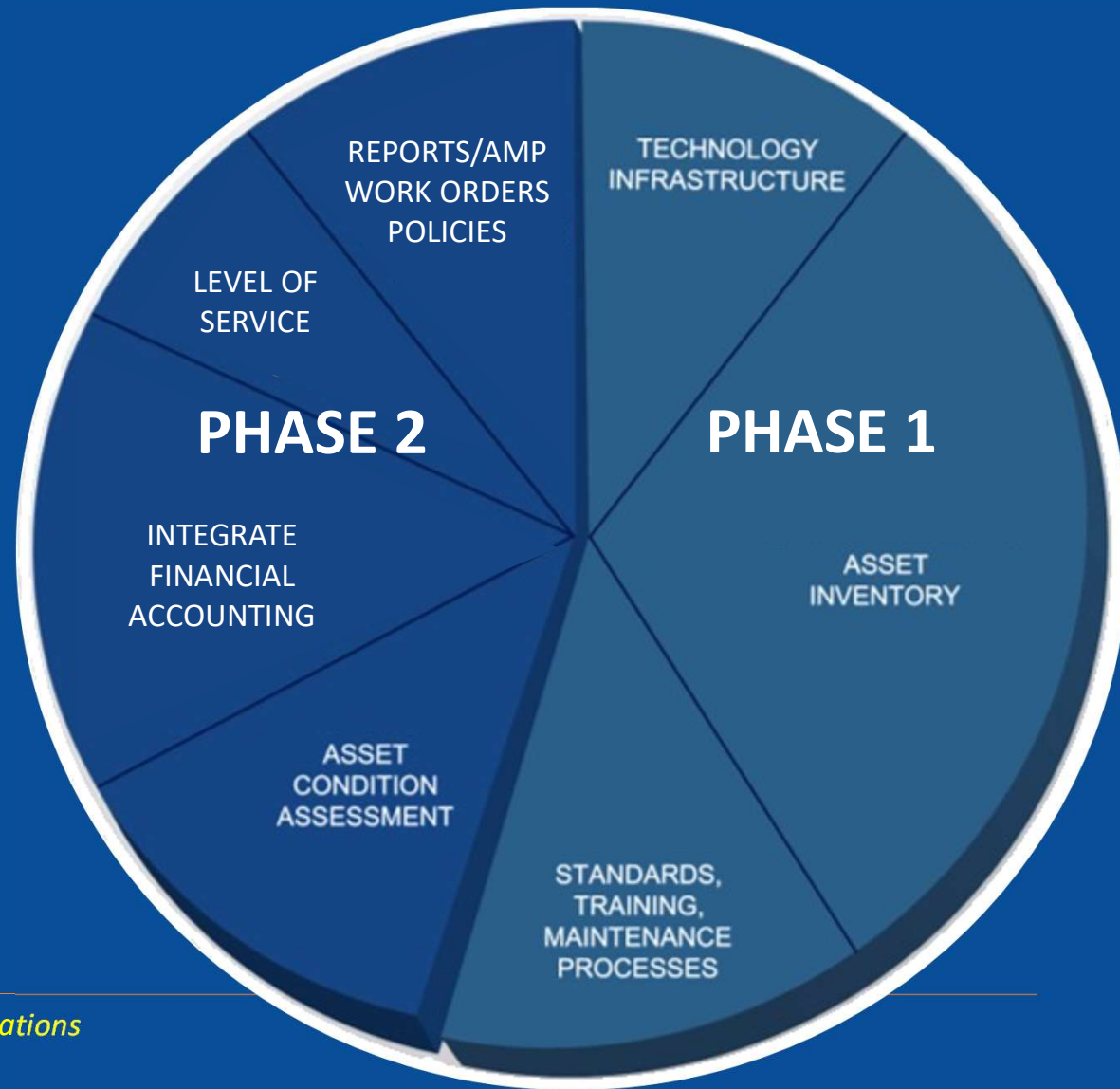


SMART NATION APPROACH



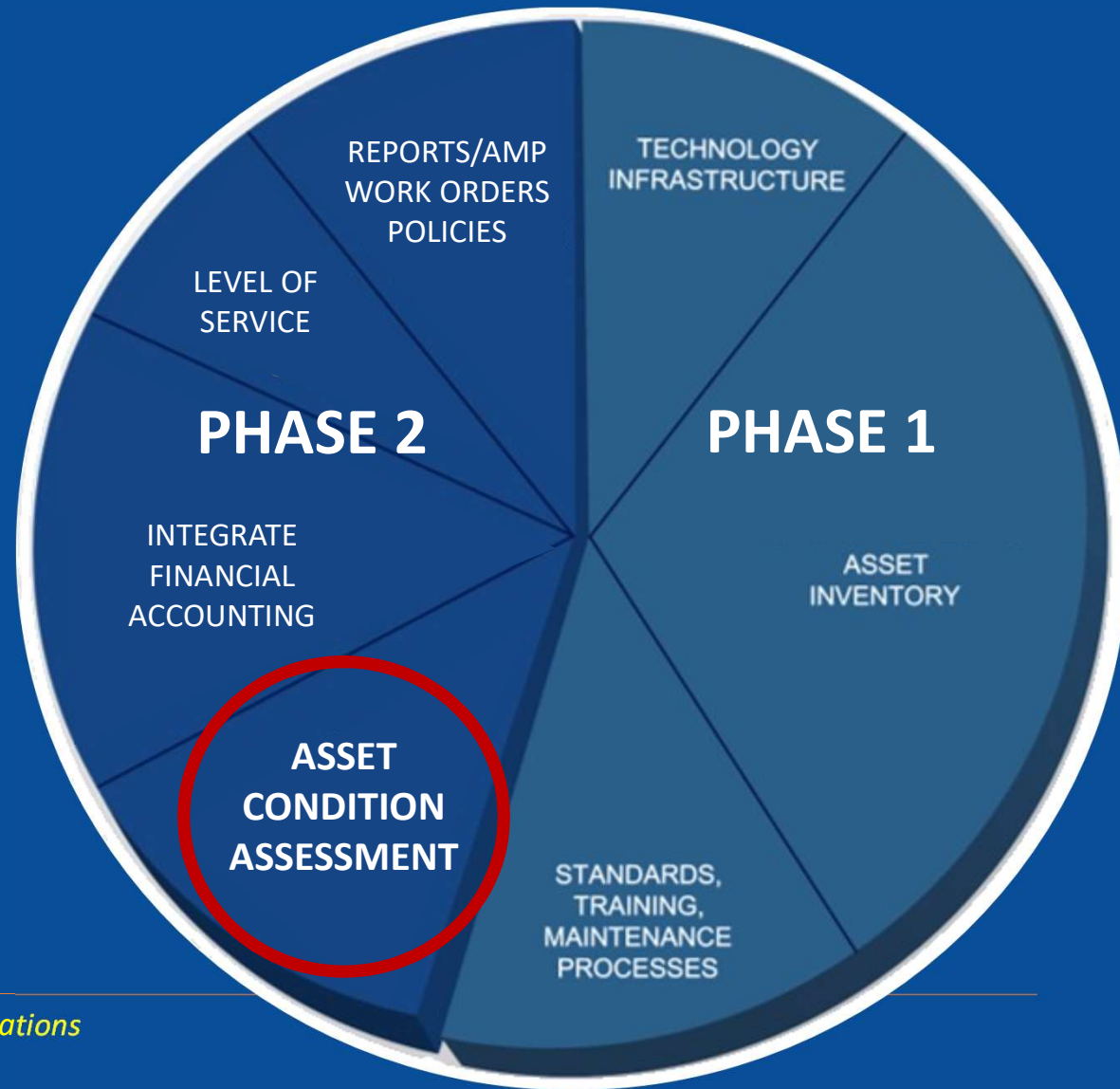
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Asset Management Implementation – Phase 2



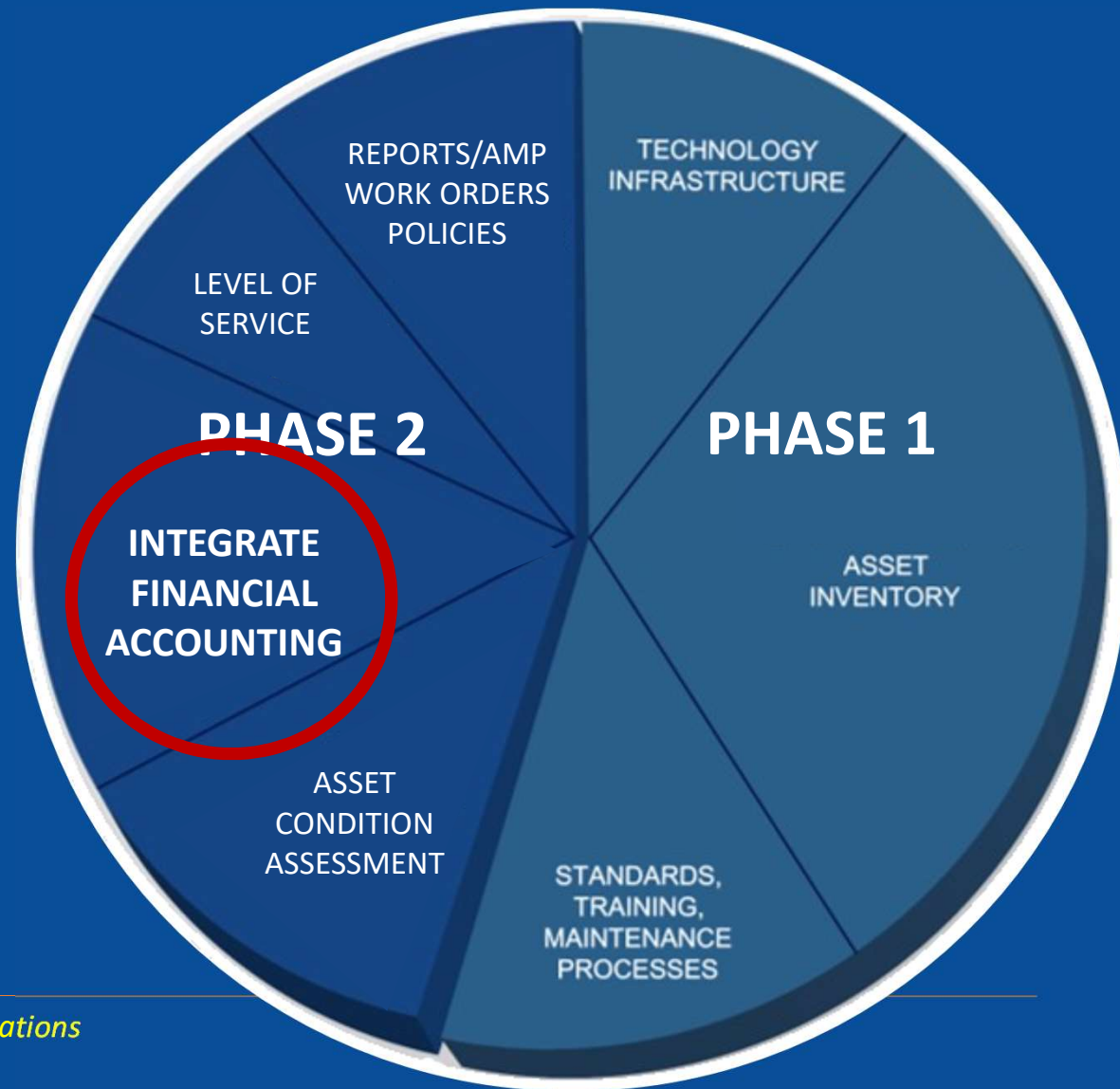
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Asset Management Implementation – Phase 2

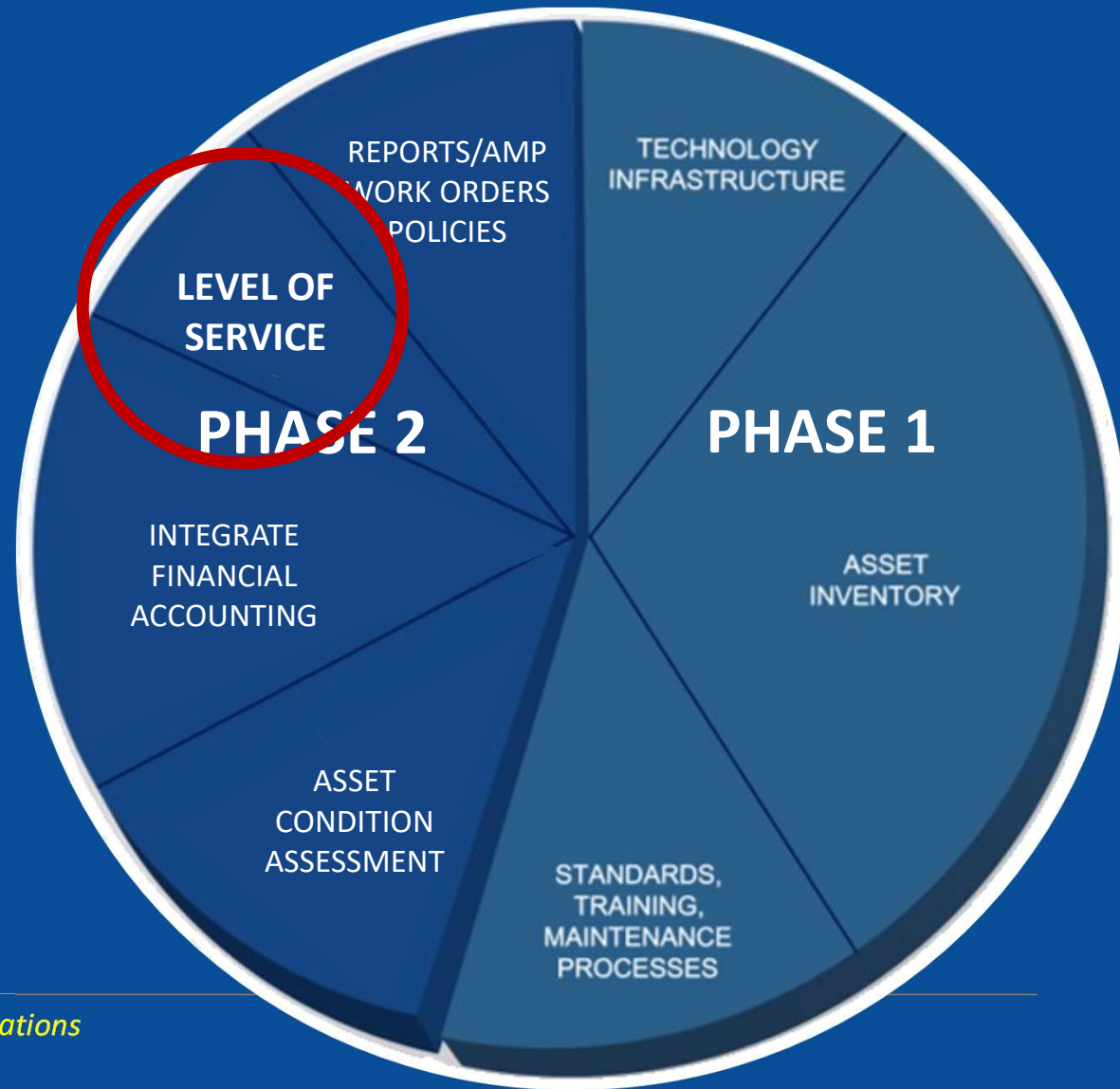


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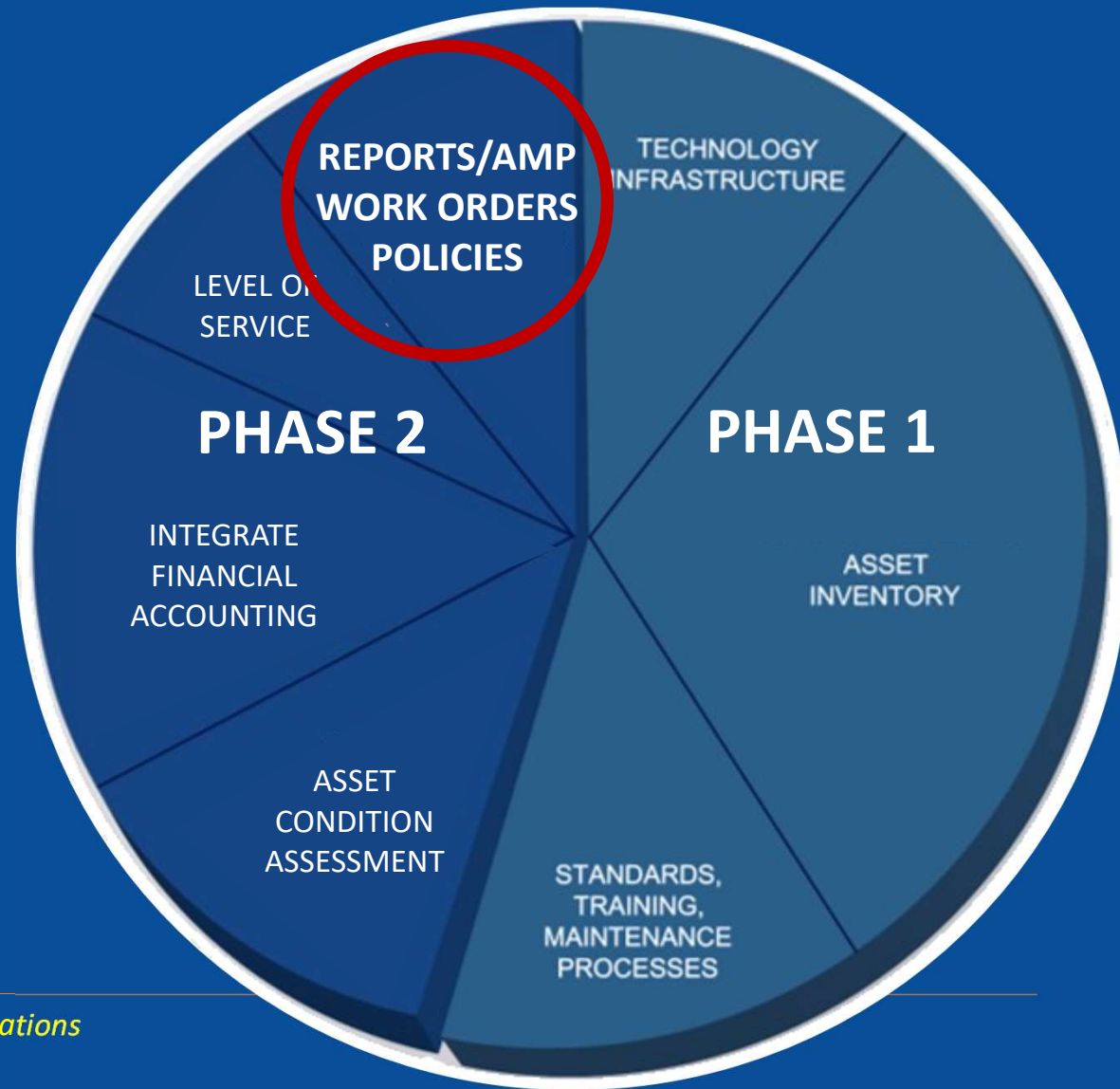
Asset Management Implementation – Phase 2



Asset Management Implementation – Phase 2



Asset Management Implementation – Phase 2



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Kchi Miigwech!

QUESTIONS?



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For more information, contact

Irvin George
WBAFN Executive Director
Irvin.George@wbafn.com
705-857-0442



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