METROLINK

MAKING USE OF DATA TOOLS

ASSET MANAGEMENT @ METROLINK

August 2017

SNAPSHOT OF THE METROLINK FIELD

Number of Routes47%	7
Route Miles	534
Trains Operated (Weekdays)	171
Average Ridership (Weekdays)	39,368
Stations in Service	59
Total Passenger Miles	100,351,867
Number of Locomotives	55
Number of Passenger Cars	258
Annual Budgeted Revenues	$102M
Annual Operating Budget	$244
Revenue Recovery Ratio	47%

Source: FY 2016-2017 Budget

PORTFOLIO OF METROLINK ASSETS

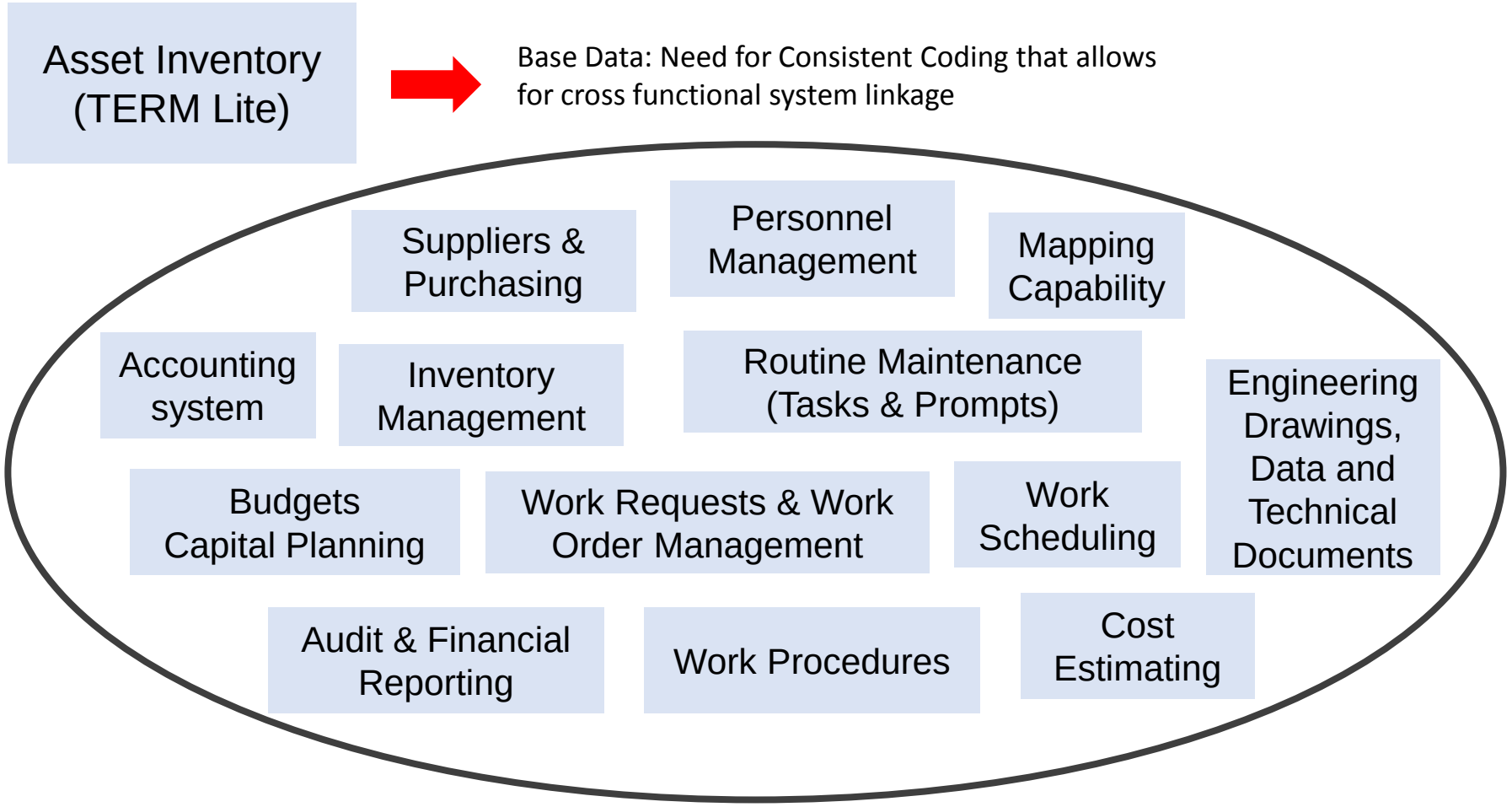
Asset Category	Valuation ($2015)	% of Asset Base
Track	$1,308,413,247	22.4%
Bridges/Culverts	$1,138,143,766	19.5%
Tunnels	$609,697,973	10.4%
Revenue Vehicles	$1,151,057,689	19.7%
Non-Revenue Vehicles	$15,968,218	0.3%
Signals & Train Control	$543,719,834	9.3%
Systems, Other	$101,440,210	1.7%
Stations	$508,185,000	8.7%
Facilities	$474,920,496	8.1%
Total	$5,851,516,433	100.0%

RECENT INVESTMENTS IN ASSET MANAGEMENT RELATED STUDIES

- Developed a TERM LITE Asset Inventory
- Confirmed Age Based Asset Life Cycles
- Geocoded Network Assets
- Adopted a TAM Plan & Performance Targets

Our BIG DATA Question:

How do we utilize data collected from all operational processes to show the health of our assets & investment costs, work performed and network usage?



Asset Condition

Traffic

Cost

Work Orders

Understand and Assess Process Objectives

- Study & Gather Process

Identify Processes to be Redesigned or Controlled (Define the Problem)

- Investigate Process Effects or Critical Bottlenecks

Understand & Measure Existing State

- Identify & Isolate the Dominating Causes, Set a Baseline

Implement Data Strategy Improvements

Identify IT or Data Controls/Levers

-Map our new process approaches

LESSONS LEARNED

1. **Process Data is Essential**
   Ask “why” on your shop floor or out in the *field*

2. **Normalized Datasets & Coding Enable Good Data Use**
   Ensure that your inventory fields are defined by the user

3. **Clarify the Function of IT and its Organizational Benefit or Impact**
   Transactional, automational, tracking, disintermediation, geographical, etc.

METROLINK MISSION

TO PROVIDE SAFE, EFFICIENT, DEPENDABLE AND ON-TIME TRANSPORTATION SERVICE THAT OFFERS OUTSTANDING CUSTOMER EXPERIENCE AND ENHANCES QUALITY OF LIFE.

SAFETY | PEOPLE | GROWTH | QUALITY | EFFICIENCY