

The Leading Global Provider of
Integrated Infrastructure Asset Management
Software Solutions



### Integrated Strategic Planning in Indonesia

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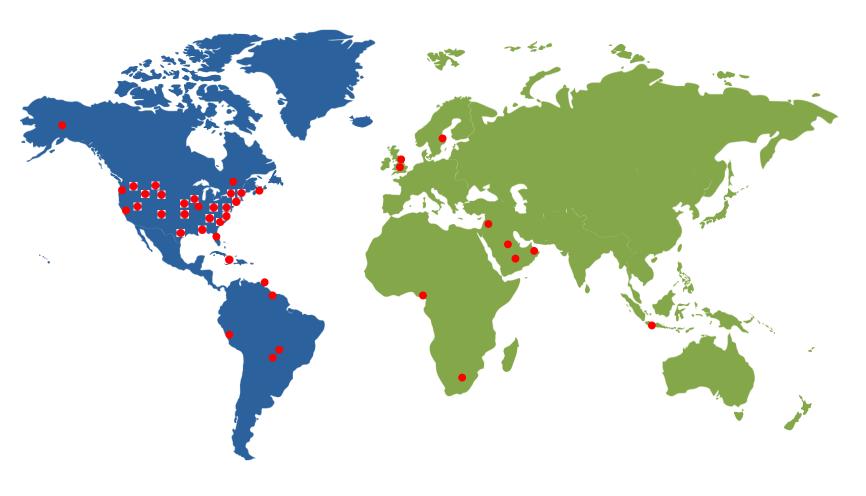
# 26

**15** 

# **Projects and Clients**

20

Partner Network







#### **Indonesia - Quick Facts**

- 14<sup>th</sup> Largest country (area) in the world (1,910,931 sq. km)
- 4<sup>th</sup> Largest Country (population): 261 million
- 17,508 Islands
- Second longest coast line in the world (over 54,000 km)
- 15<sup>th</sup> Largest Road Network 517,663 km





#### Indonesia Bina Marga – Public Works



47,017 km (centerline) –
 National Roads

Paved: 45,071 km

Unpaved: 1,946 km

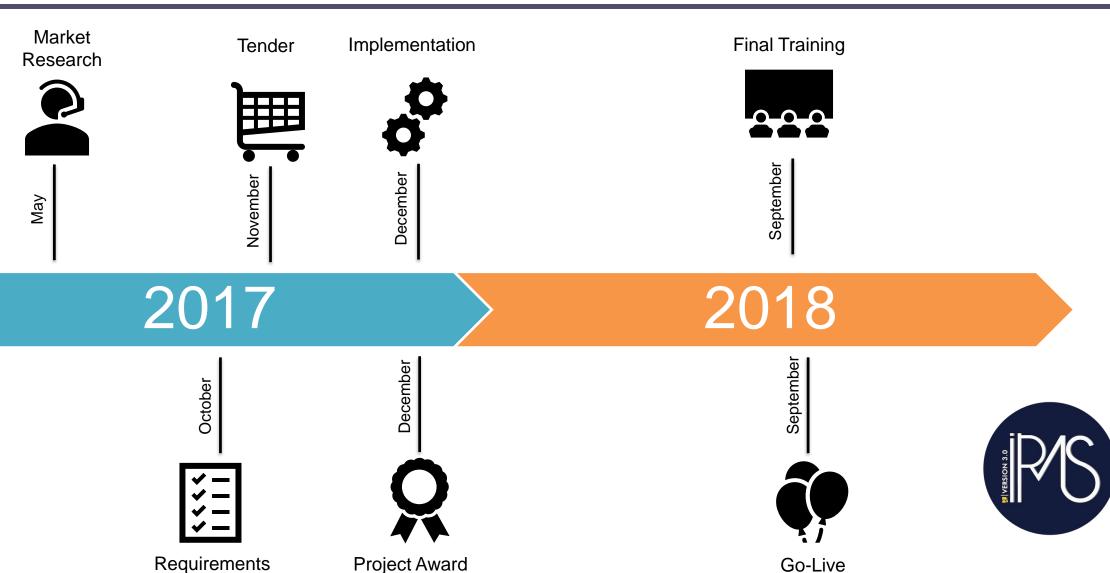
- Number of Roads:
  - -3,194
- Bridges
  - -27,328





#### Indonesia Bina Marga – IRMS Project Timeline





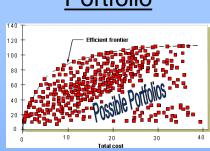


#### **IRMS Project**



AgileAssets Integrated Asset Management System









Pavement
Management
System



Bridge Management System



Safety
Management
System







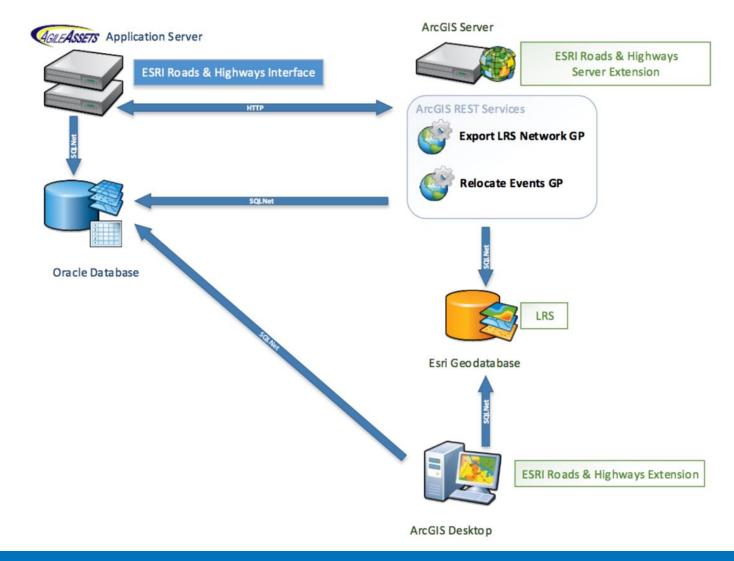
#### Integration Between AgileAssets & ESRI - LRS



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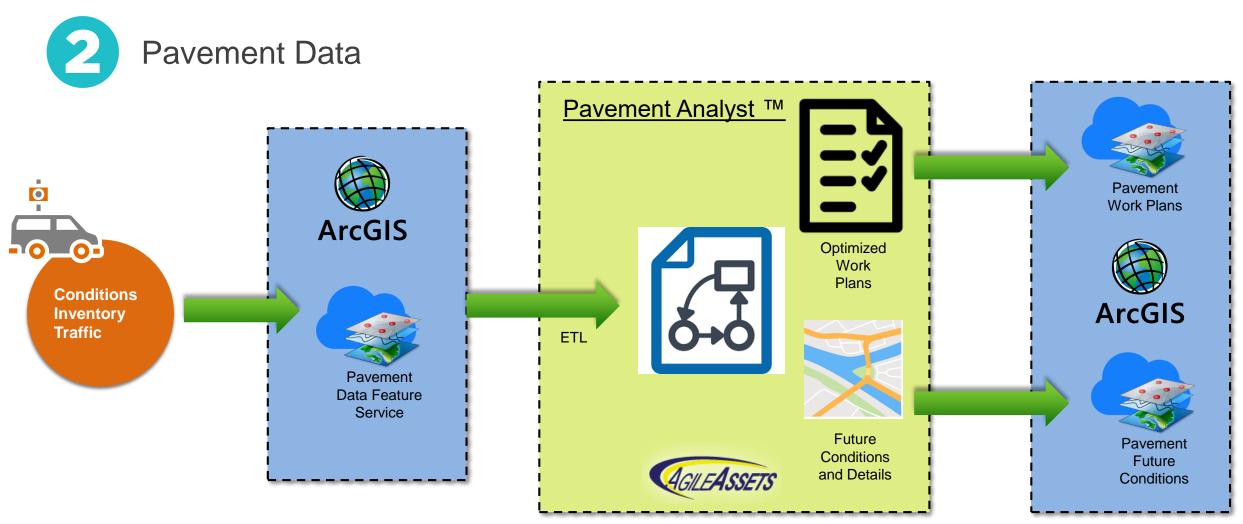
#### Linear Referencing System





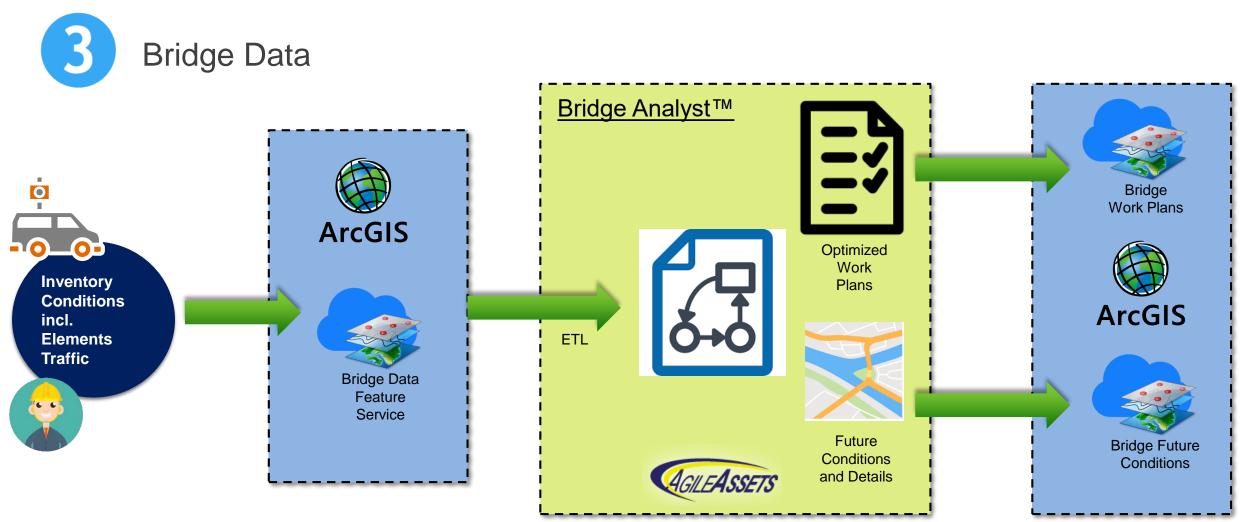
#### Integration Between AgileAssets & ESRI - Pavements





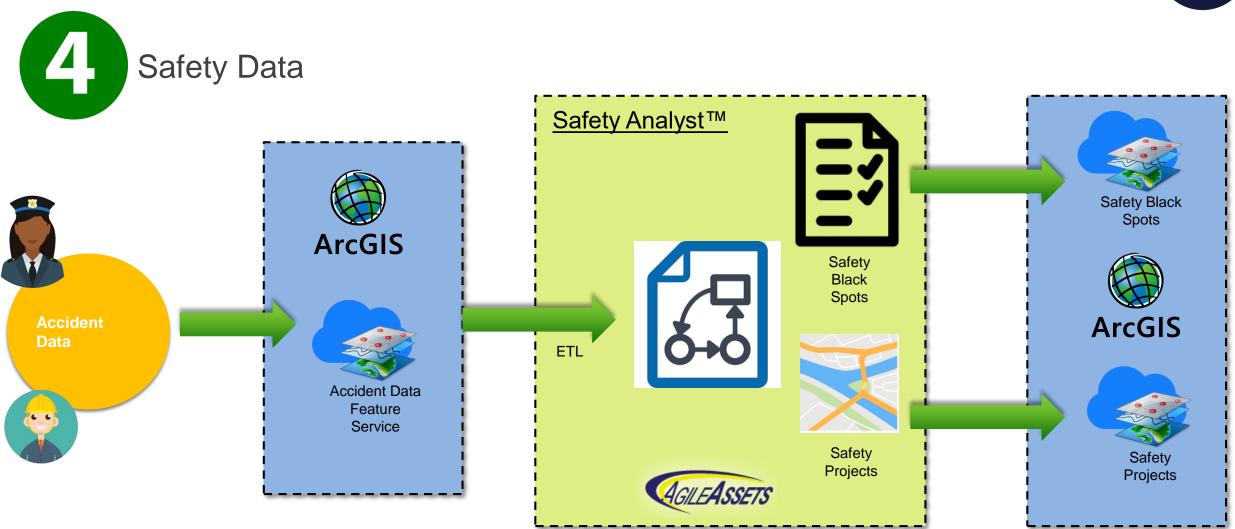
#### Integration Between AgileAssets & ESRI - Bridges





#### Integration Between AgileAssets & ESRI - Safety



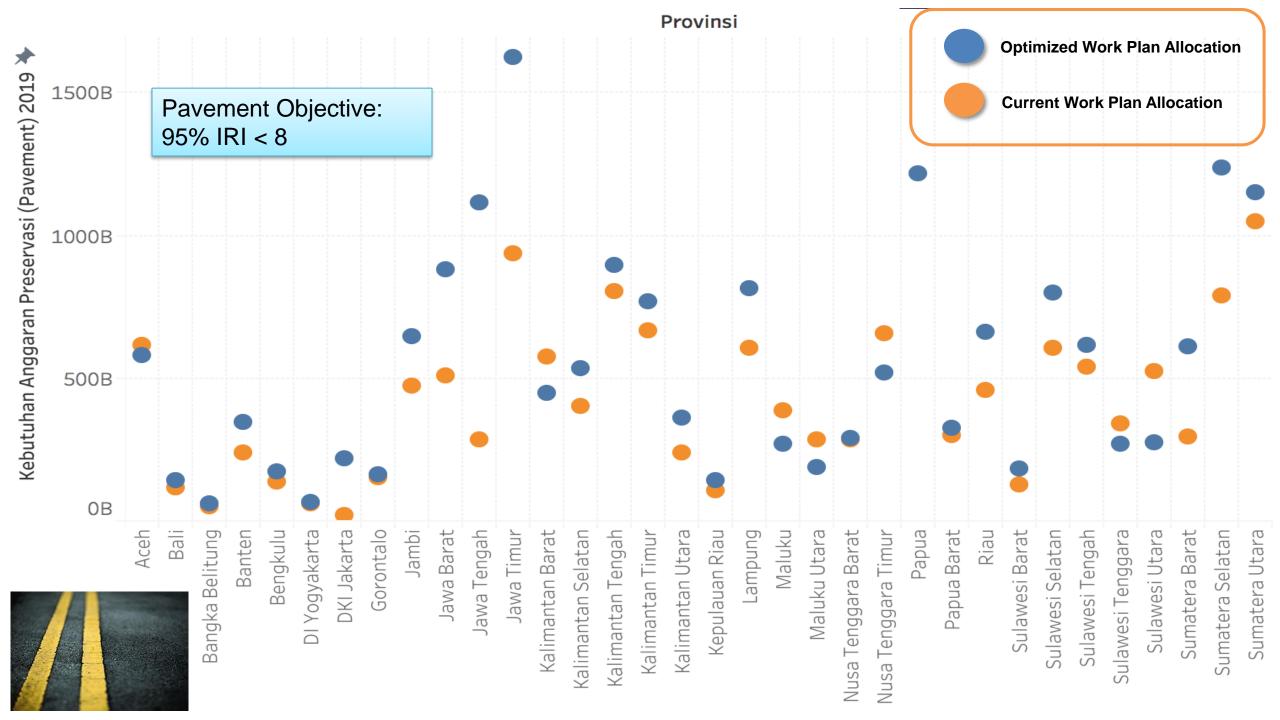


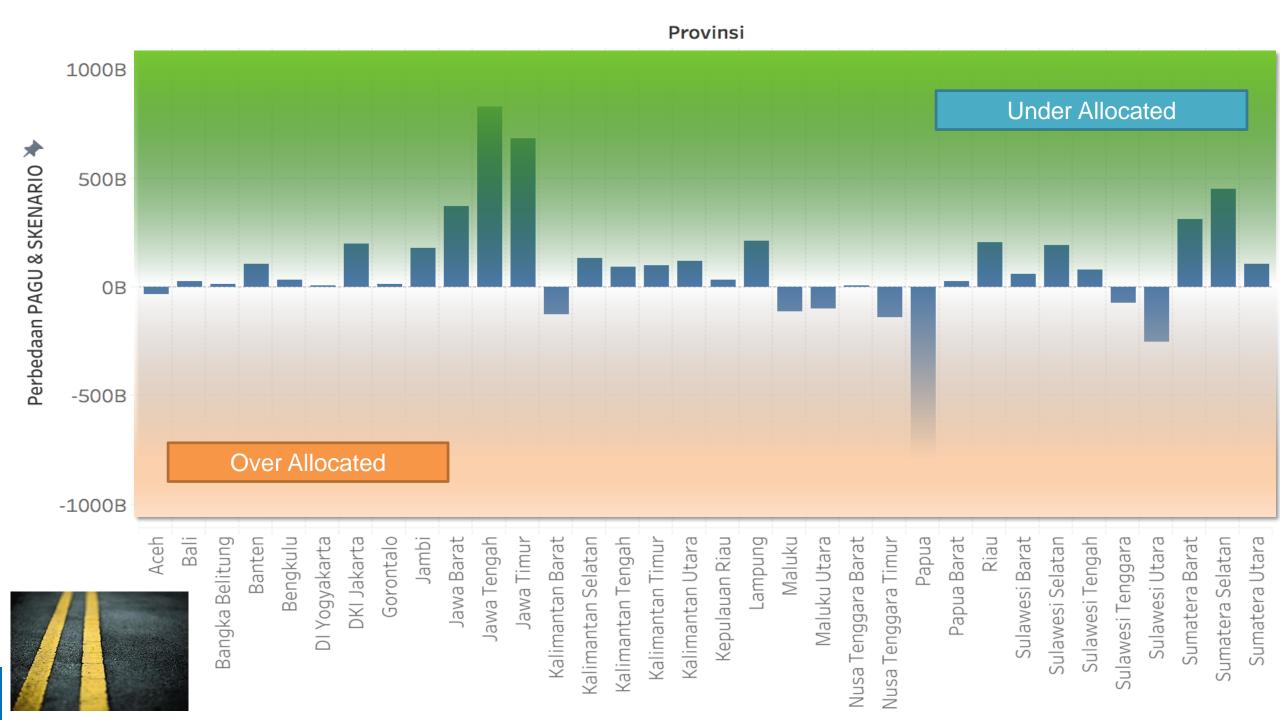
#### **Benefits to the Organization**

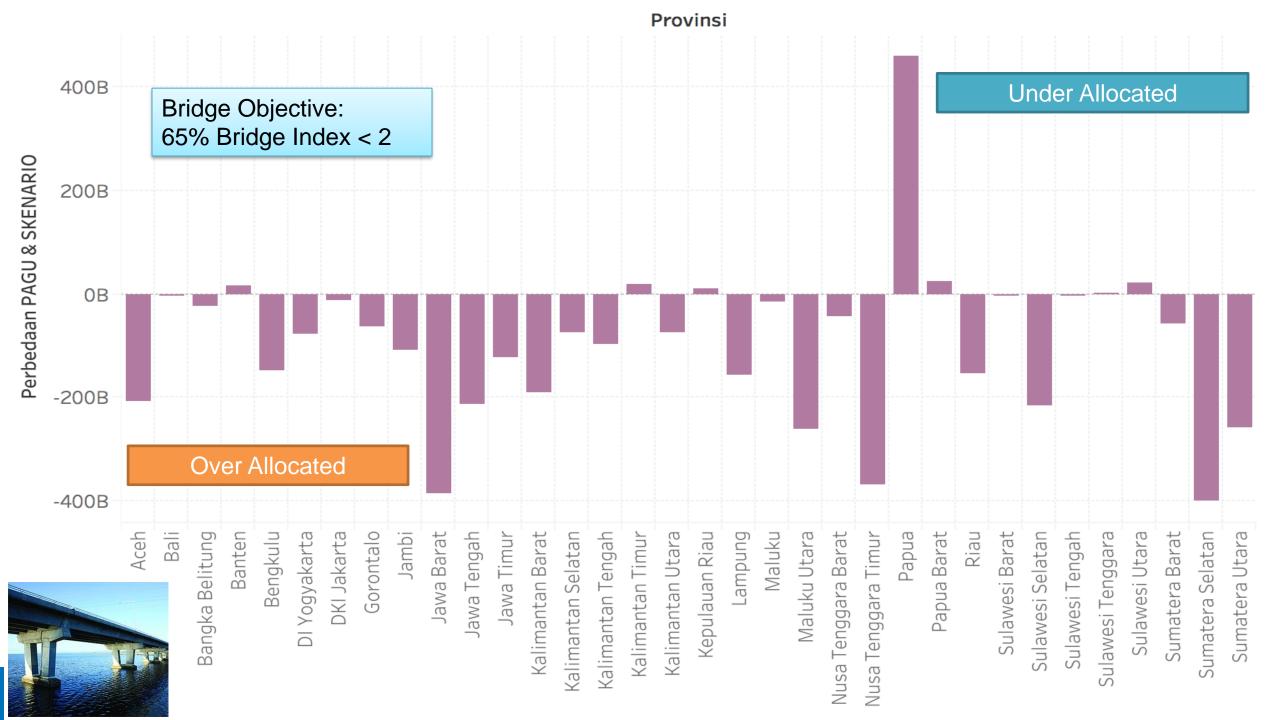


Data Centric Approach – comparison of Current Work Plans versus
 Optimized Work Plan









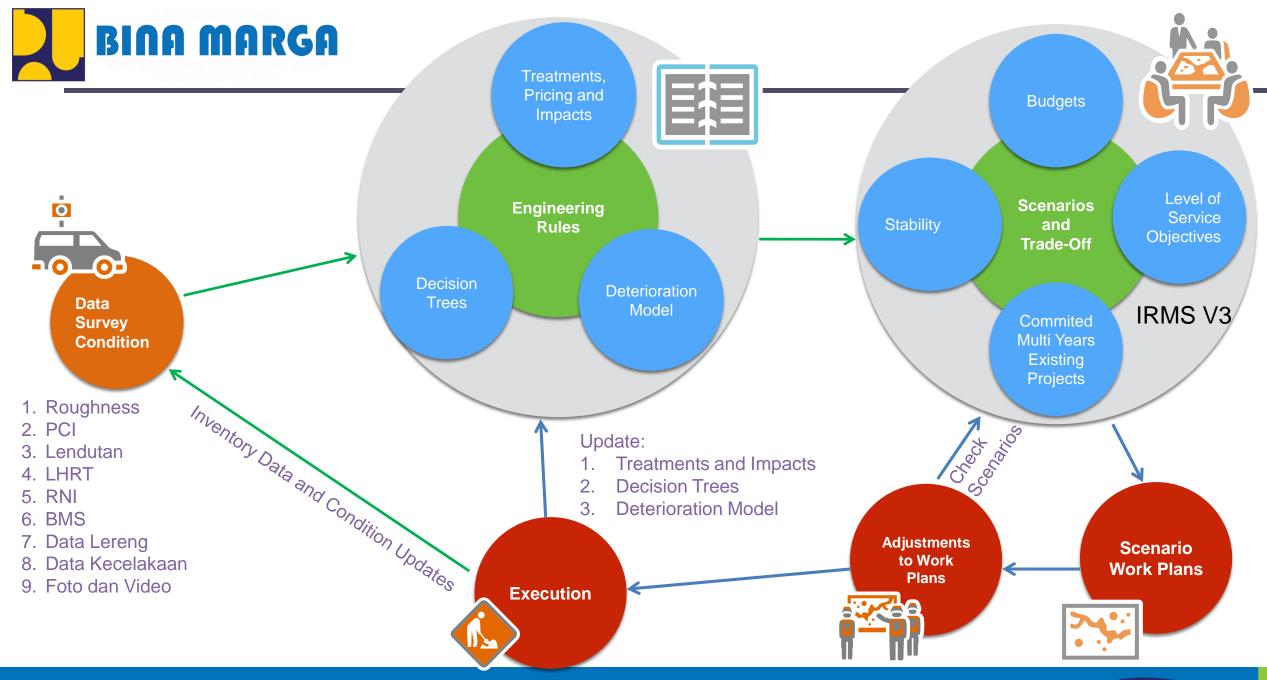
#### **Benefits to the Organization**



 Data Centric Approach – comparison of Current Work Plans versus Optimized Work Plan

 Systematic Approach – Established Processes and Engineering Rules with Feedback Loops







#### **Benefits to the Organization**



 Data Centric Approach – comparison of Current Work Plans versus Optimized Work Plan

Systematic Approach – Established Process and Engineering Rules

Better Decisions through Better Analytics



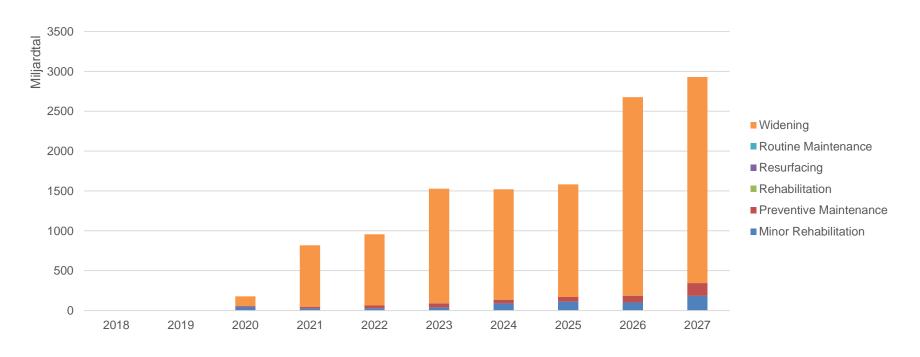
#### **Better Decisions**



- Ability to run Level of Service optimization:
  - Minimum Budget (and work plan) to maintain 90% of Network IRI below 8 for 10 years



Worst First Impossible



Multi-Constraint Optimization



## Questions



