



# TRANSPORTATION ASSET MANAGEMENT PLAN (TAMP)

VERMONT AGENCY OF TRANSPORTATION



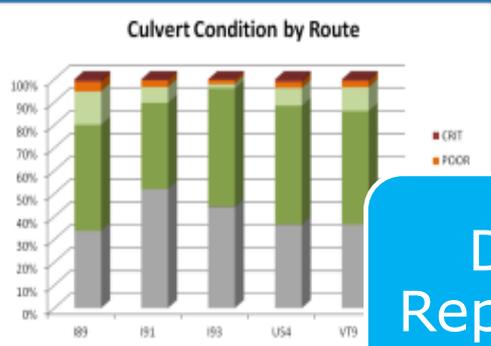
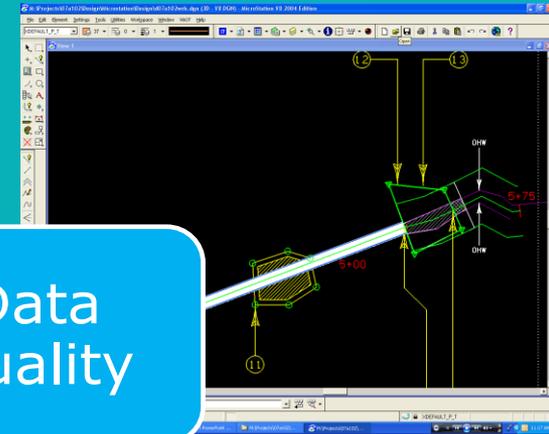
# WHAT IS ASSET MANAGEMENT?

**MAP 21 Definition:** Asset management is a strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on engineering and economic analysis based upon quality information, to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the lifecycle of the assets at minimum practicable cost. (23 U.S.C. 101(a)(2), [MAP-21 § 1103](#))

# Planning & Programming

# Design

Data Inventory



Data Reporting

Data Quality

# AM Lifecycle

Data Systems

Data Efficiency



# Maintenance

# Construction

# WHY IS THE AGENCY DEVELOPING A TAMP?

- The purpose of Asset Management is to meet a **required level of service**, in the most **cost effective manner** through the management of assets for **present** and **future** customers.
- Each State is federally required to develop a **risk-based and performance based asset management plan** for the National Highway System (NHS) to improve or preserve the condition of the assets and the performance of the system.

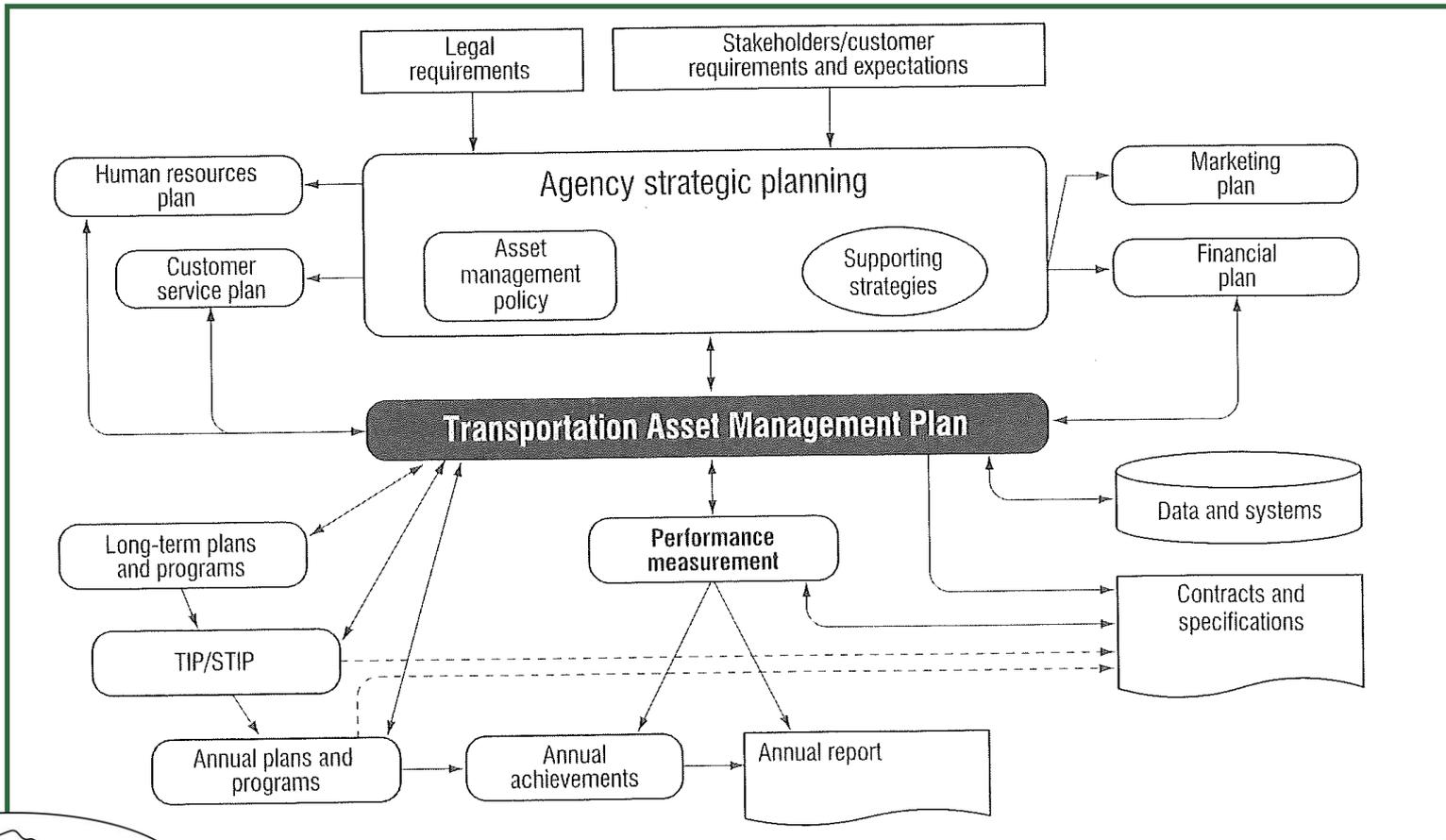
# PLAN ALIGNMENT

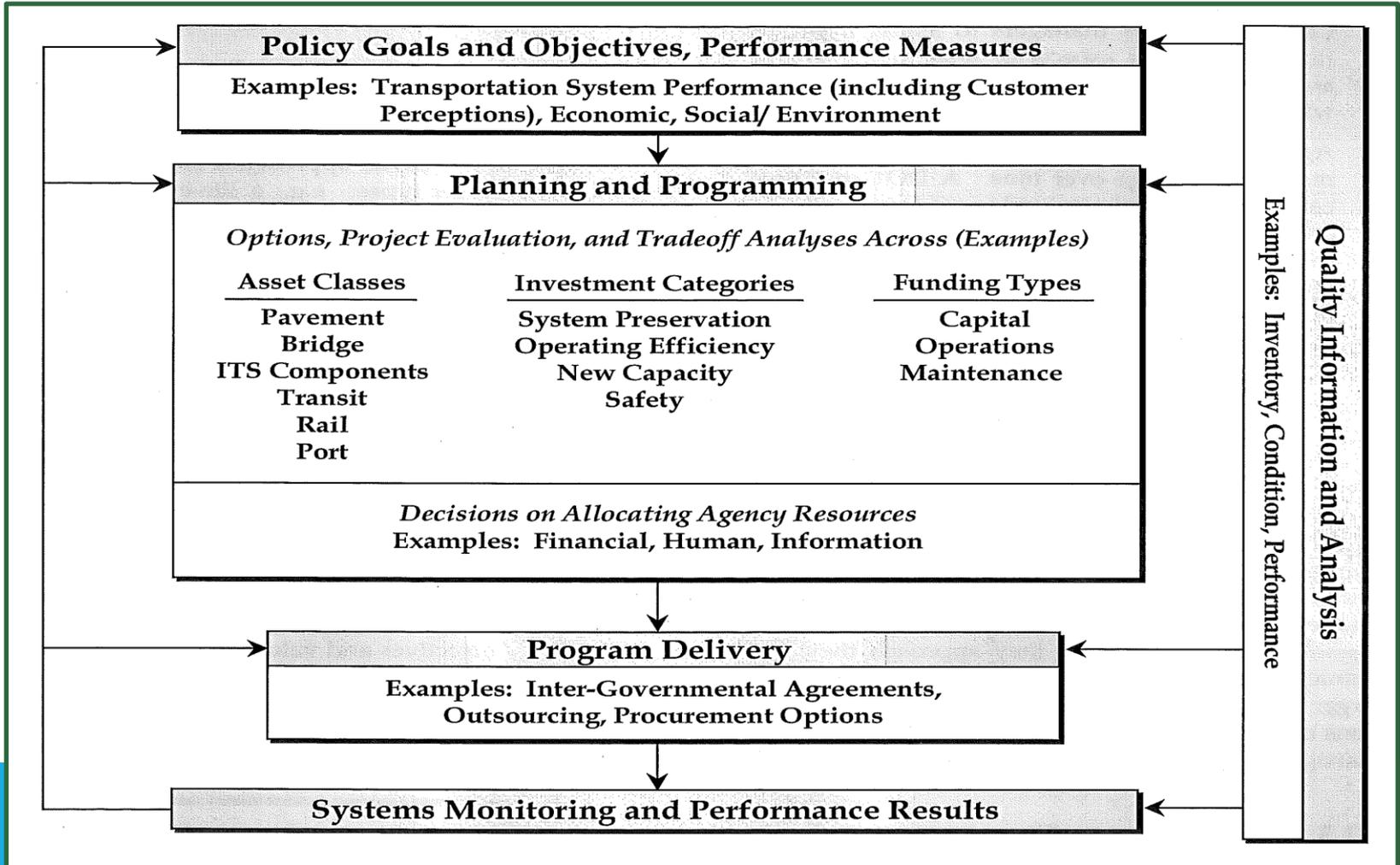
Long Range Transportation Plan  
25 yr Plan

Strategic Plan  
5 to 10 yr plan

TAMP  
5 yr plan

# TAMP SCHEMATICS





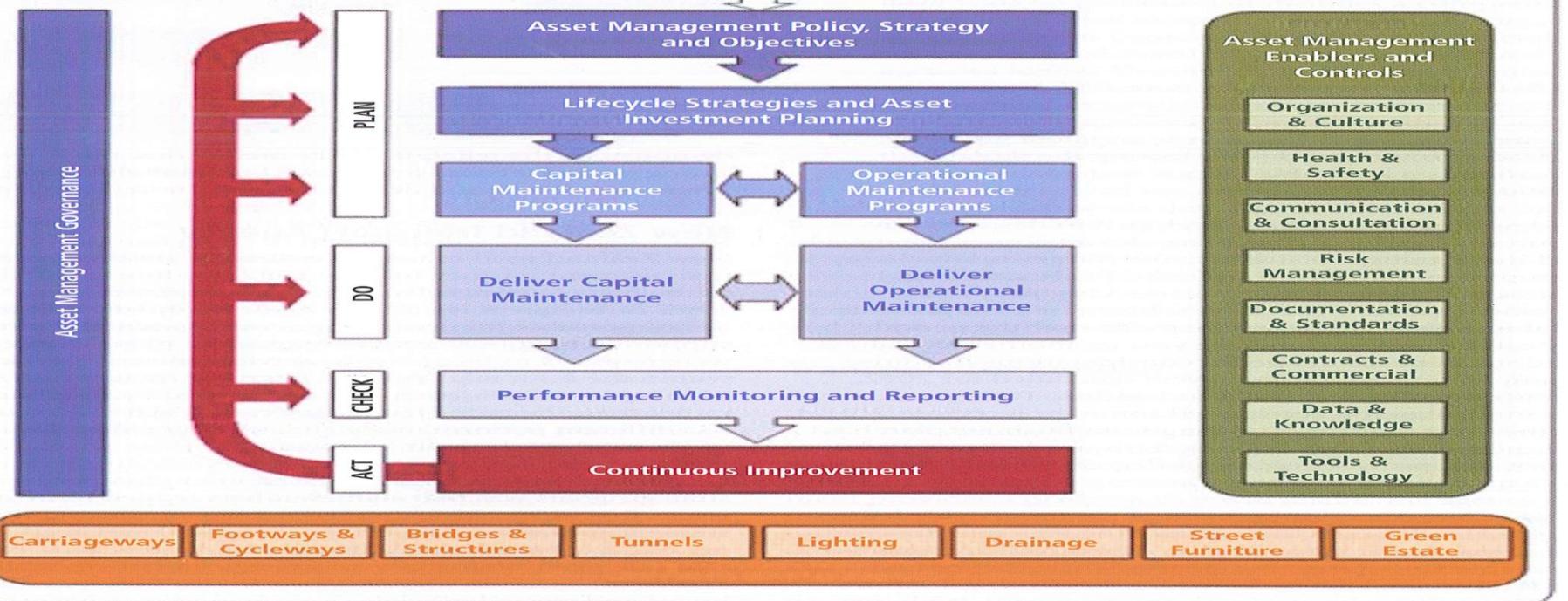
Source: 2011 AASHTO TAMG



## Business Management



## Highway Asset Management



# TAMP DEVELOPMENT

## PLACING THE WHO BEFORE THE WHAT

- TAMP Work Group
  - Initiated December 12, 2013, meeting every 2 weeks thru 2016 and about 1x month since then.
  - 27 members from across the Agency
    - Asset Stewards
    - Program Managers
    - Directors
    - IT, Data, Environmental, Financial focus areas
    - Modal Representatives (Rail, Air, Public Transit)
    - Deputy Chief Engineer
    - FHWA – Vermont Division



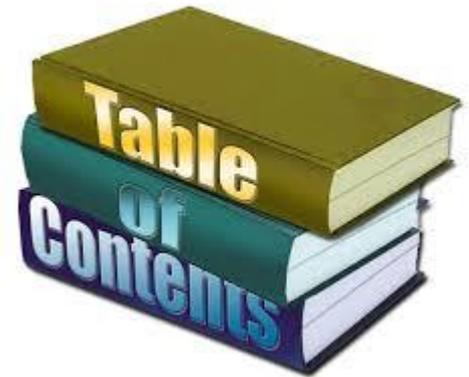
# TAMP DEVELOPMENT

- 8 Task Forces led by different personnel
  - AM Processes/Business Model
  - Communication, Outreach, Training & Education
  - Customer Service Level
  - Data Management
  - Financial Plan (includes Investment Strategies)
  - Lifecycle Cost Analyses (LCCA)
  - Performance
  - Risk Management I0



# TAMP - TABLE OF CONTENTS

- Executive Summary
- Regulatory & Legislative Requirements
- Asset Mmgt Goals & Objectives
- Asset Inventory & Conditions
- Data Management



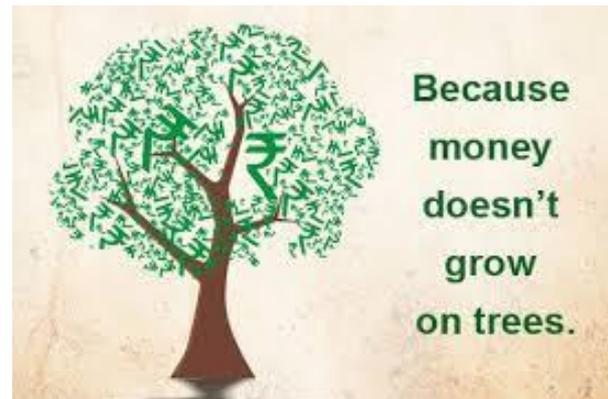
# TAMP - TABLE OF CONTENTS

- Customer Service Levels
- Performance Gap Analysis Discussion
- Performance Measures & Targets
- Future Demand
- Life Cycle Cost Planning



# TAMP - TABLE OF CONTENTS

- Current AM Methods & Tools
- Risk Management Analysis
- Description of Key TAM Business Processes
- TAM Financial Plan
- Investment Strategies



# TAMP - TABLE OF CONTENTS

- Continuous Improvement Plan
- Communication, Outreach, Training & Education
- Appendices



# STATUS REPORT

- TAMP - 60% complete
- TIMP – Gap Analysis / Implementation Plan – complete
- Customer Service Level (CSL) Map developed in consultation with with MOB's SIC service levels.
- TAM Financial Plan - 90% complete – FHWA Case Study complete

# STATUS REPORT - WHAT'S LEFT ???

- Task Force Items / Initiatives / Projects
  - Pavement Customer Service Project
    - ✓ How long should a pavement stay in poor condition before it its treated.
  - AMP – Development of Bridge Mgmt System
  - Asset Sustainability Index Analyses – 20 yr plan
  - Communication & Outreach Plan - TBD

# STATUS REPORT - WHAT'S LEFT ???

- Task Force Documentation – (majority of the work)
- Connection of recommendations to business processes
- Development of Bridge Mgmt System
- Data Governance Models / Direction
- Asset Information Sheets



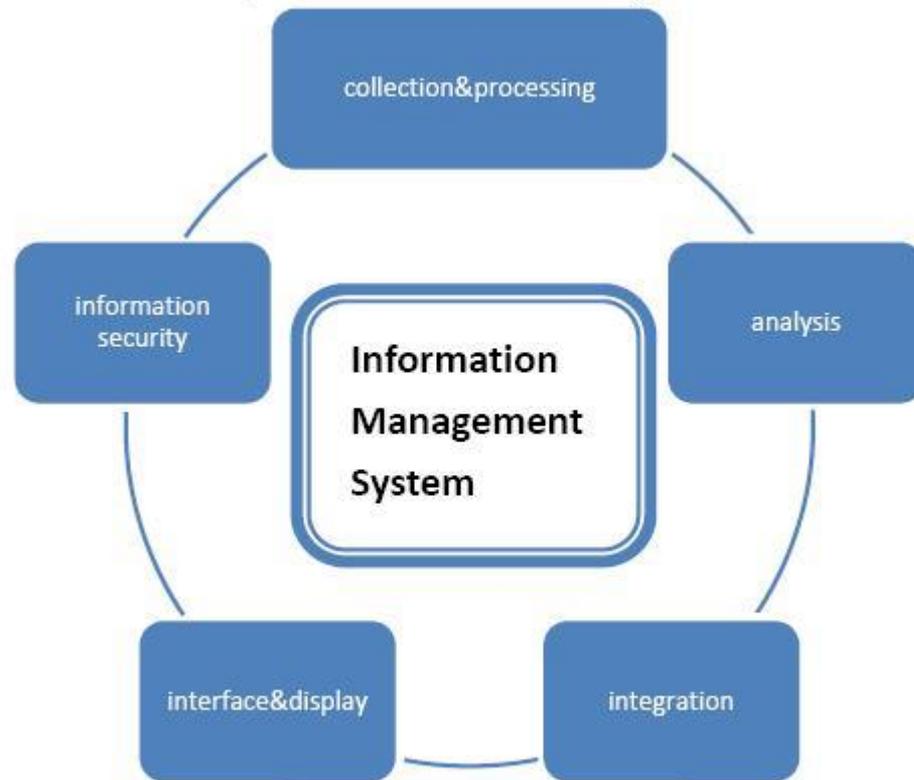
# STATUS REPORT - WHAT'S LEFT ???

- Develop AMP Bureau Plan – short term execution of TAMP
  - Communication of short & long term vision
  - Identification & coordination of resources
  - Alignment of key initiatives
  - Promote risk & performance management and integration into Agency culture
- Link \$ to future performance targets

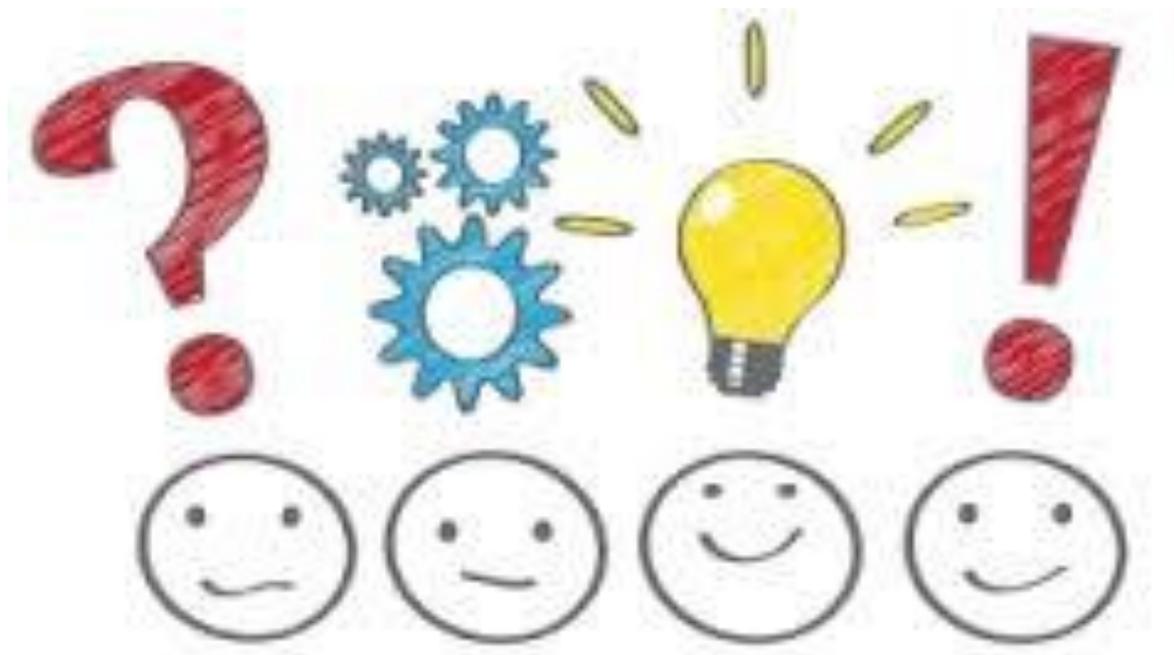


# STATUS REPORT - WHAT'S LEFT ???

- Develop TAMIS



# QUESTIONS



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