



Project Delivery Academy

July 9, 2025

Module 1 Project Planning and
Programming

The background of the slide is a photograph of a two-lane asphalt road covered in a layer of snow. The road has bright yellow double lane markings that recede into the distance. On either side of the road, there are trees heavily laden with snow, creating a winter scene. The sky is overcast and grey.

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Module 1 Project Planning and Programming

What does ADOT PDO do?

- 28,000 Lane Miles
- 51 Maintenance Camps
- 7 Districts
- **Programs**, Designs, and Constructs
ADOT Statewide Projects
- Designs and Constructs MAG/PAG and
Local Projects



Semi Crash – 2023

US 191 near Clifton

Lengthy Road Closure

Load: Ammonium Nitrate

ANFO used for blasting
(mining)

ADOT is **not** Incident
Command - (Media
thinks we are)

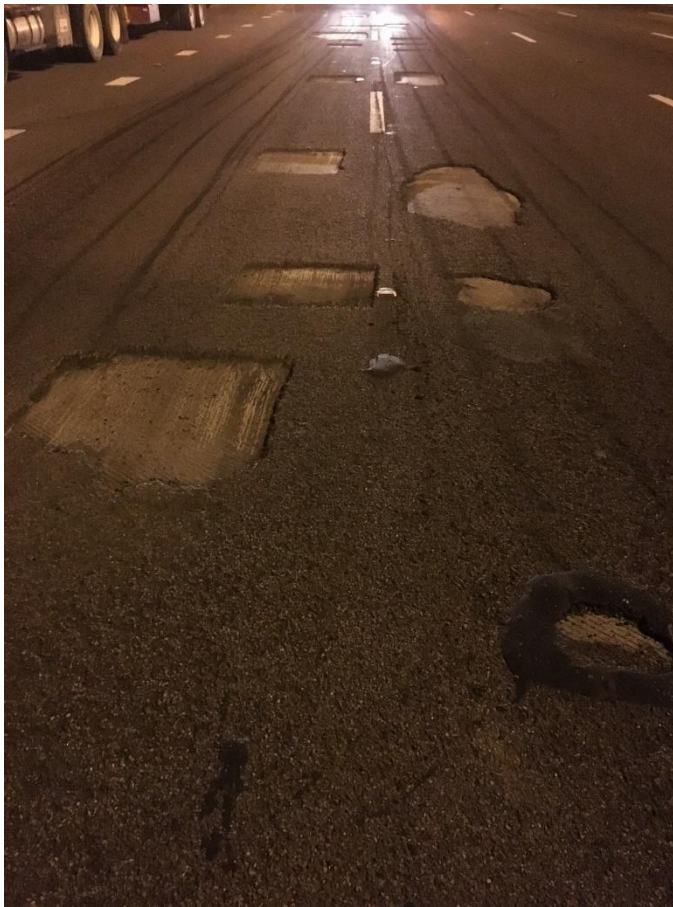
Fog (Preservation)



Pump Stations



Potholes and Repair

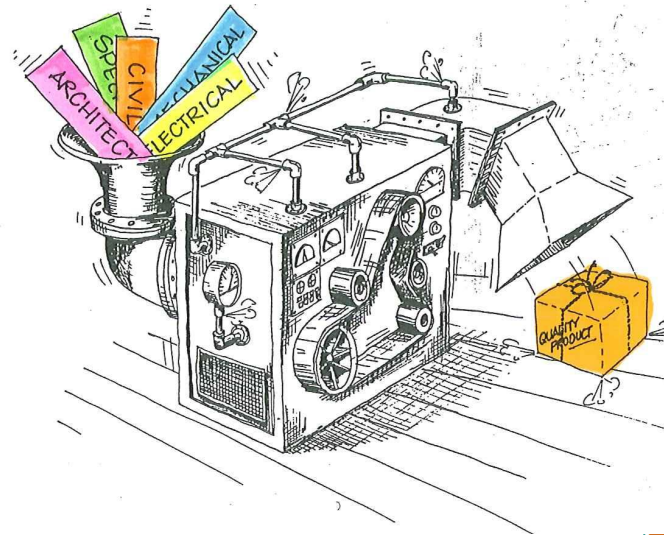


- **5-Year Construction Program is a CIP**
- **Capital Improvement Plan** – Usually means **investing** in **existing** assets and **some** new assets.
- **Maintenance** vs 5-year Program confusion
- **Wait What? – New Tires** on your car is a **major investment** (It is not maintenance), *Rotating your tires and changing your oil is maintenance.*



Project Delivery Objectives

- **20-30-30-20 Delivery** (No Hockey Sticks)
- **Quality Product** – Right Scope – On Time – On Budget
- **Act like the Owner (All)**
making sausage together





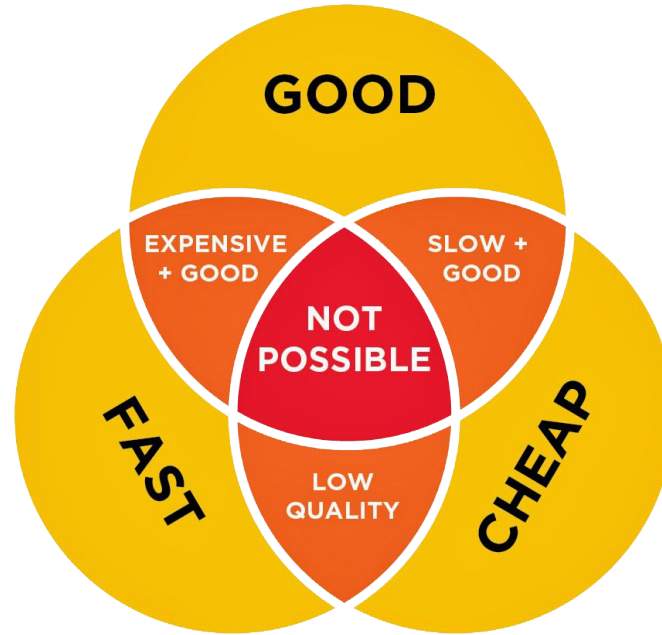
Managing Project Lifecycle

- What is SSB?
- Does SSB really work?
- SSB is sometimes called the **“Triple Constraint”**
- What usually happens when Scope increases? (Schedule and Budget may get off track)





Managing Project Lifecycle



- Another way to look at Project Delivery



Managing Project Lifecycle

WE OFFER 3 KINDS OF SERVICES
GOOD-CHEAP-FAST
BUT YOU CAN PICK ONLY TWO

GOOD & CHEAP WON'T BE **FAST**

FAST & GOOD WON'T BE **CHEAP**

CHEAP & FAST WON'T BE **GOOD**

- Again- another way to look at Project Delivery
- **In-N-Out Burger** may be the only exception

Managing Project Lifecycle



- Triple(SSB) vs Six Constraints?
- With Six Constraints, **Resources, Risk, and Quality** are also considered with SSB

Minimize Email

(Rule of 3)

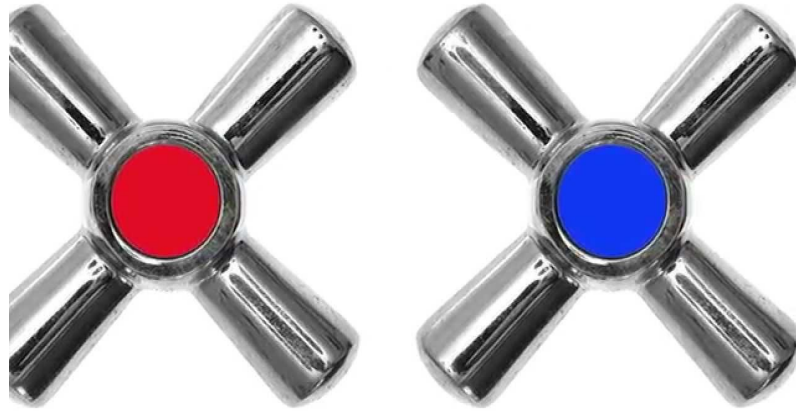
Communicate Clearly

Year of Expenditure (YOE)

Parametric Estimates *(with Inflation)*



Communicate Clearly



Hot & Cold

Red is Hot – Blue is Cold

Communicate Clearly



Parents of Teenager

Max RPM is 2500 – Max Speed is 65 MPH

Communicate Clearly



Simple Message

Banger Beam (Steel) have been used here in Arizona



Very Clear

What data is conveyed ?

1. All pressures good (green)
2. Actual pressure
3. Location (Left Front, Right Rear, etc)

What is Ahead?

1. **Digital Delivery** – Model as Legal Document (No more Plans) for 3-D projects
2. **Emphasis on Local Project Delivery** 20-30-30-20
3. **Pavement Condition** - 29% Good Statewide



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