TEAM KENTUCKY
TRANSPORTATION CABINET

Keep Kentuckians moving through life...safely.

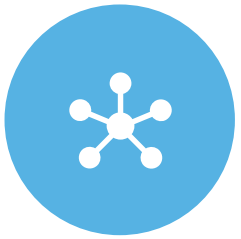
Transportation Systems Management and Operations

Purpose

The goal of TSMO is to promote the safe mobility of people by compiling a toolbox of strategies.

What is TSMO?

Performance



Technology

Network

Partnership

Safe Mobility

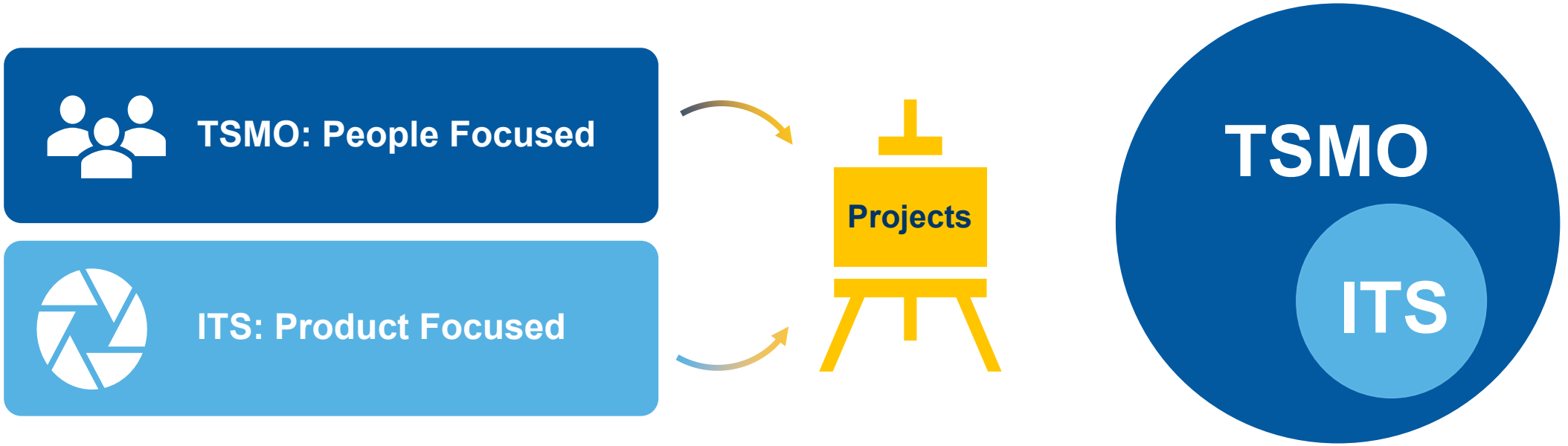
For **All** Road Users

What is TSMO?

TSMO is not new. You've seen it everywhere!

TSMO vs ITS

I thought these things were ITS…

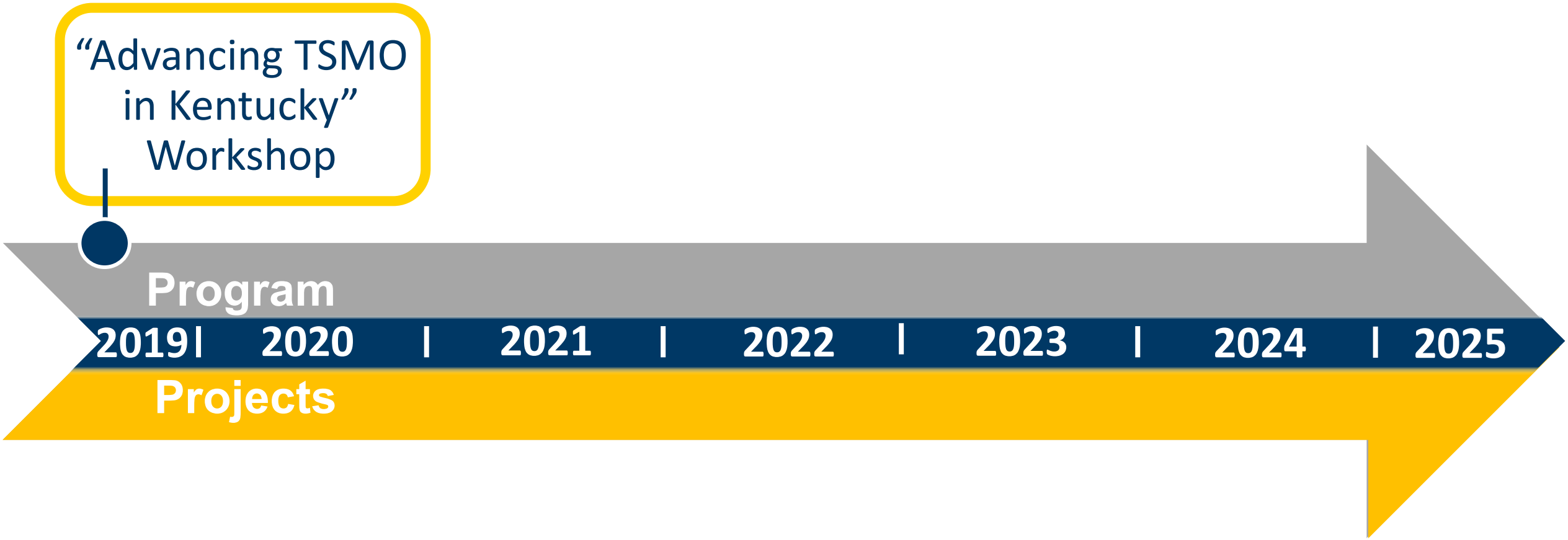


Safety

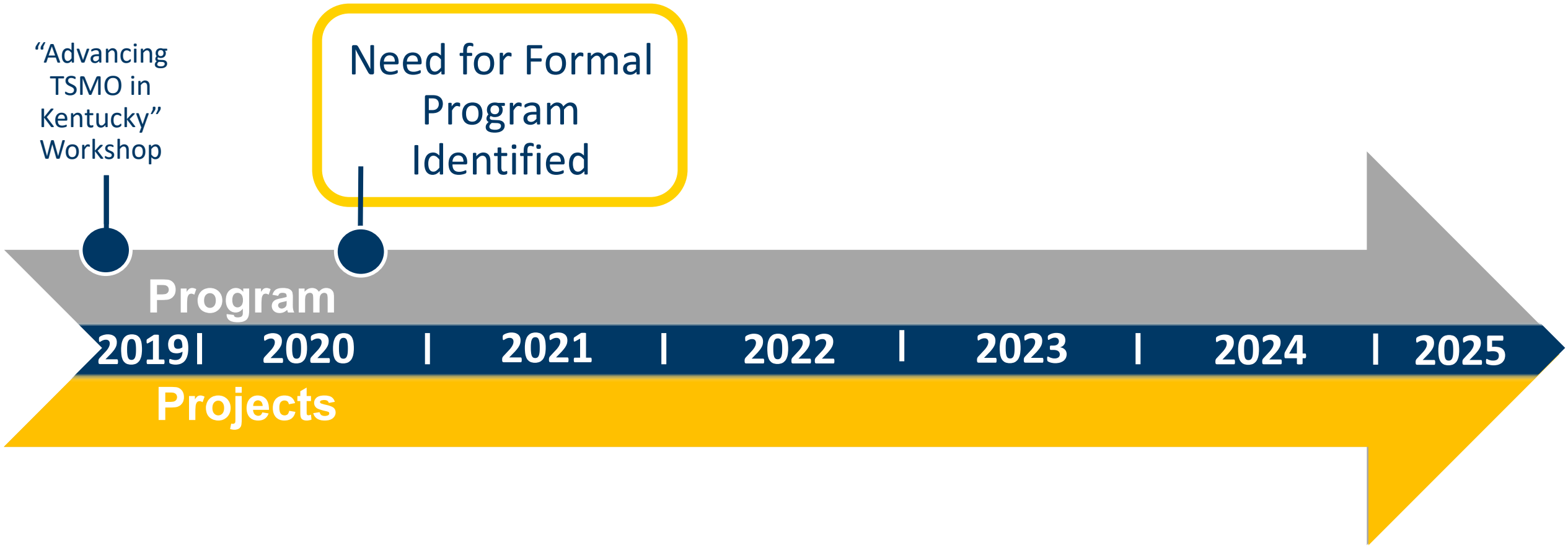
Safe Systems Approach

Where does TSMO fit into KYTC?

KYTC TSMO Program and Project Timeline



KYTC TSMO Program and Project Timeline



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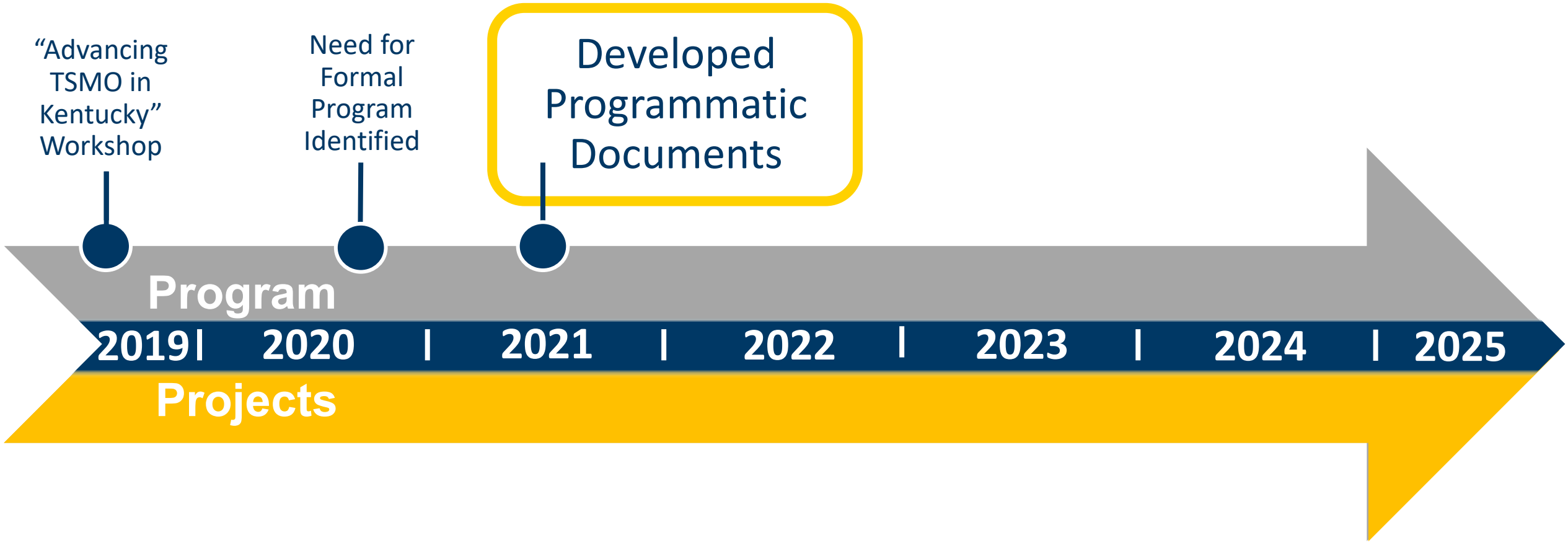

KYTC TSMO Program and Project Timeline

"Advancing TSMO in Kentucky" Workshop

Need for Formal Program Identified

Developed Programmatic Documents

Program

2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025

Projects

KYTC TSMO Program and Project Timeline

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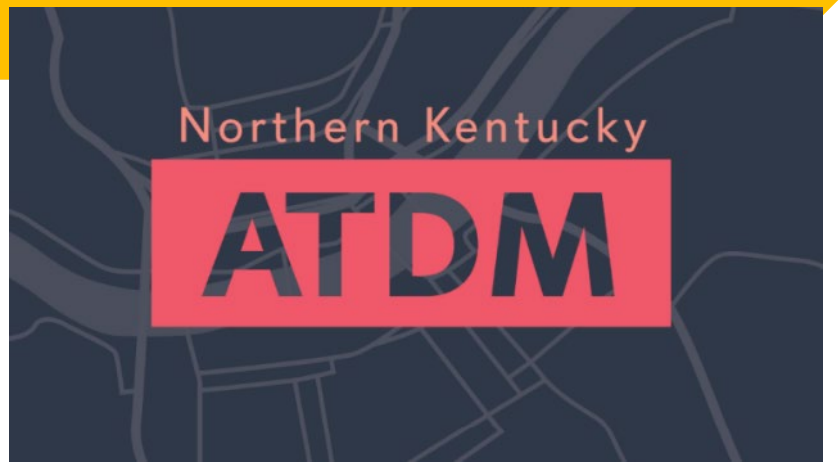
Projects

"TSMO" Branded Planning Studies



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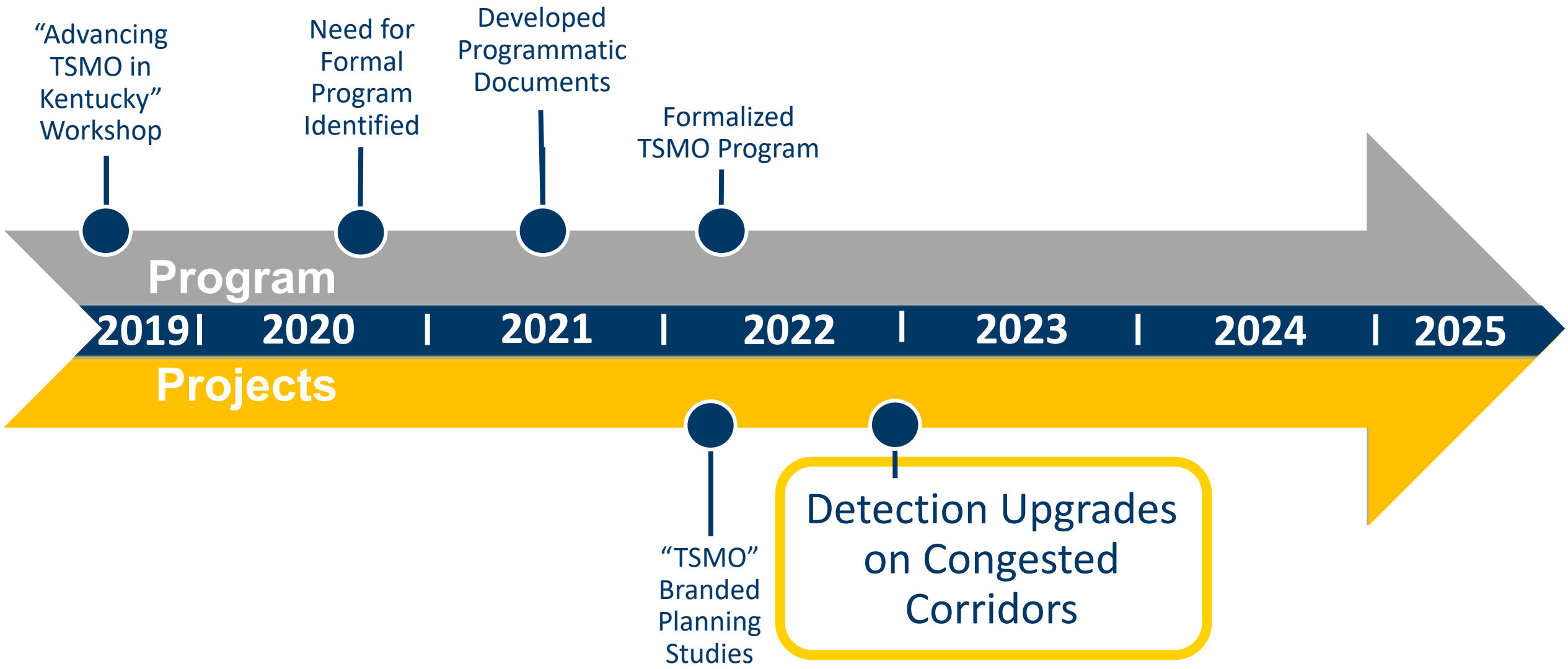
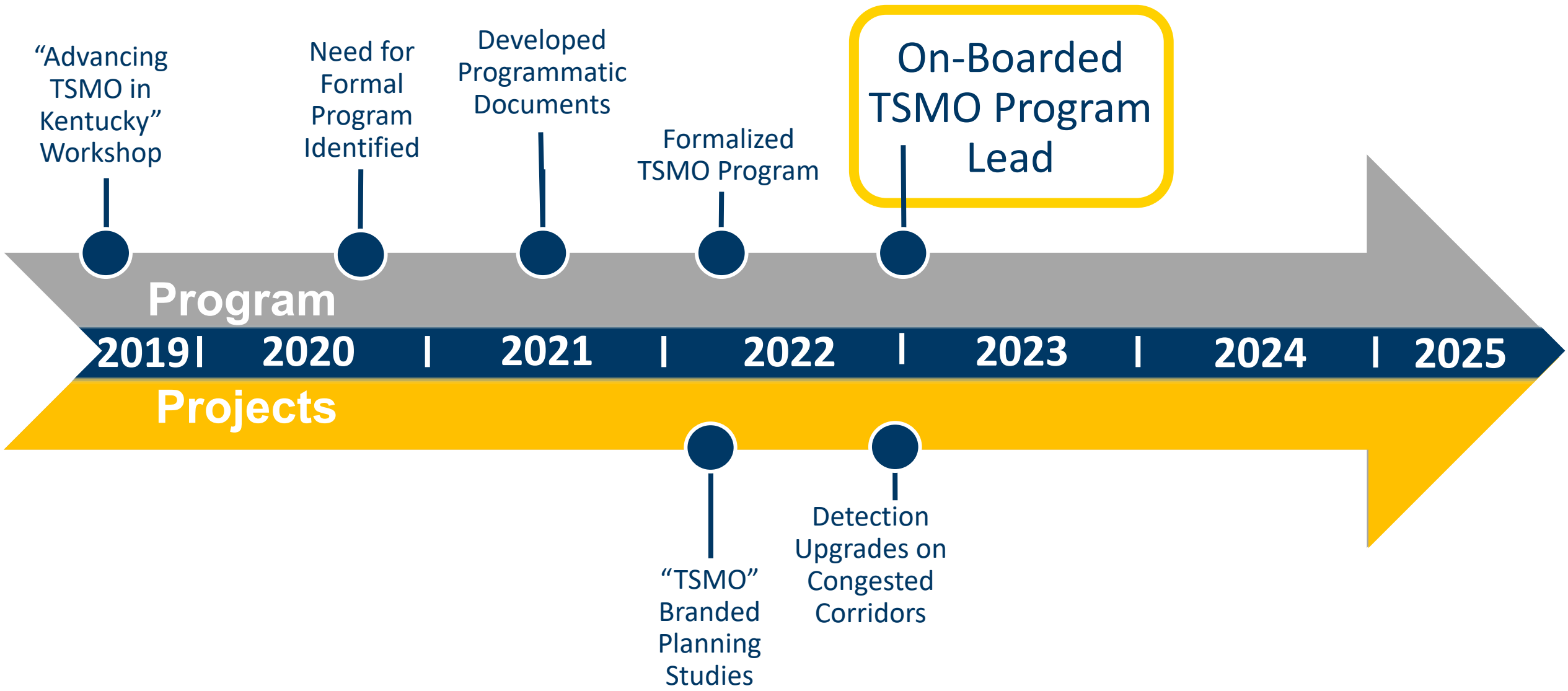


KYTC TSMO Program and Project Timeline



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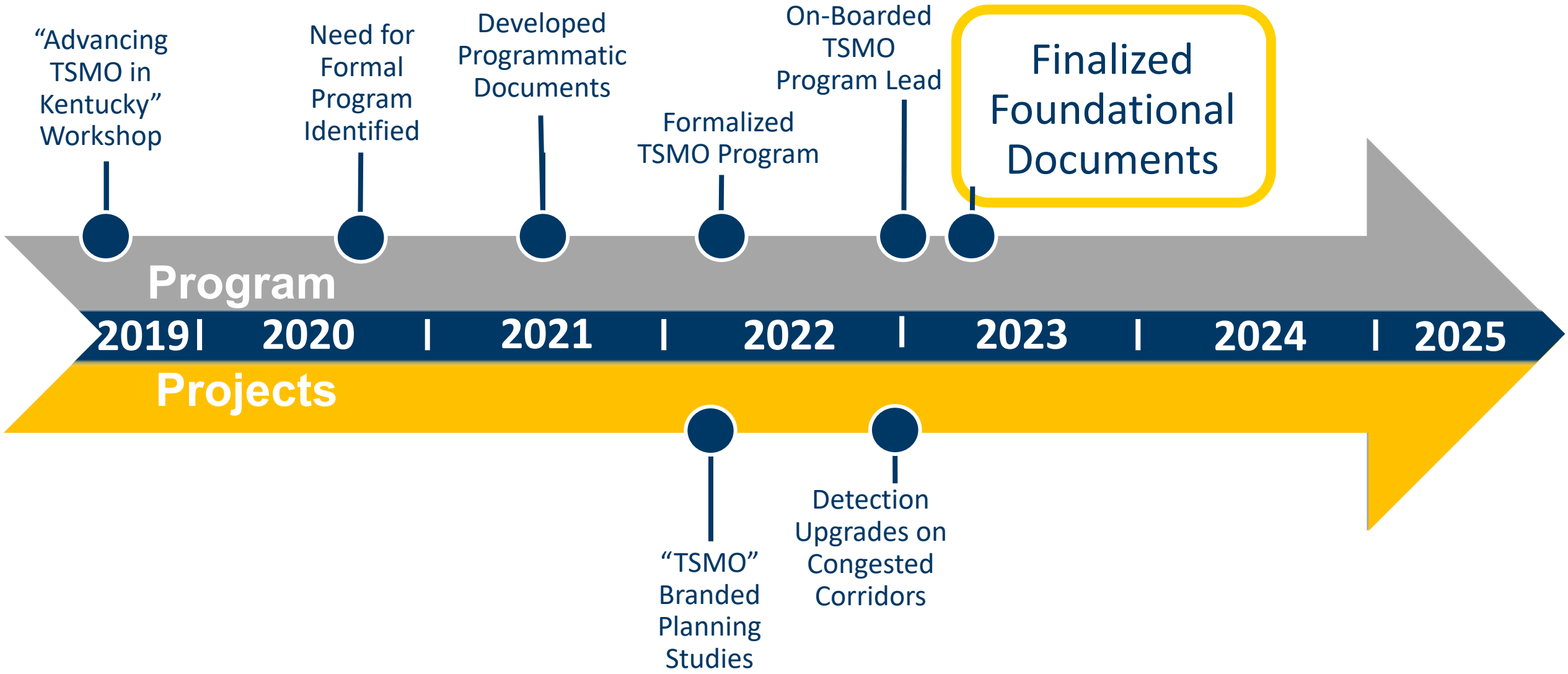

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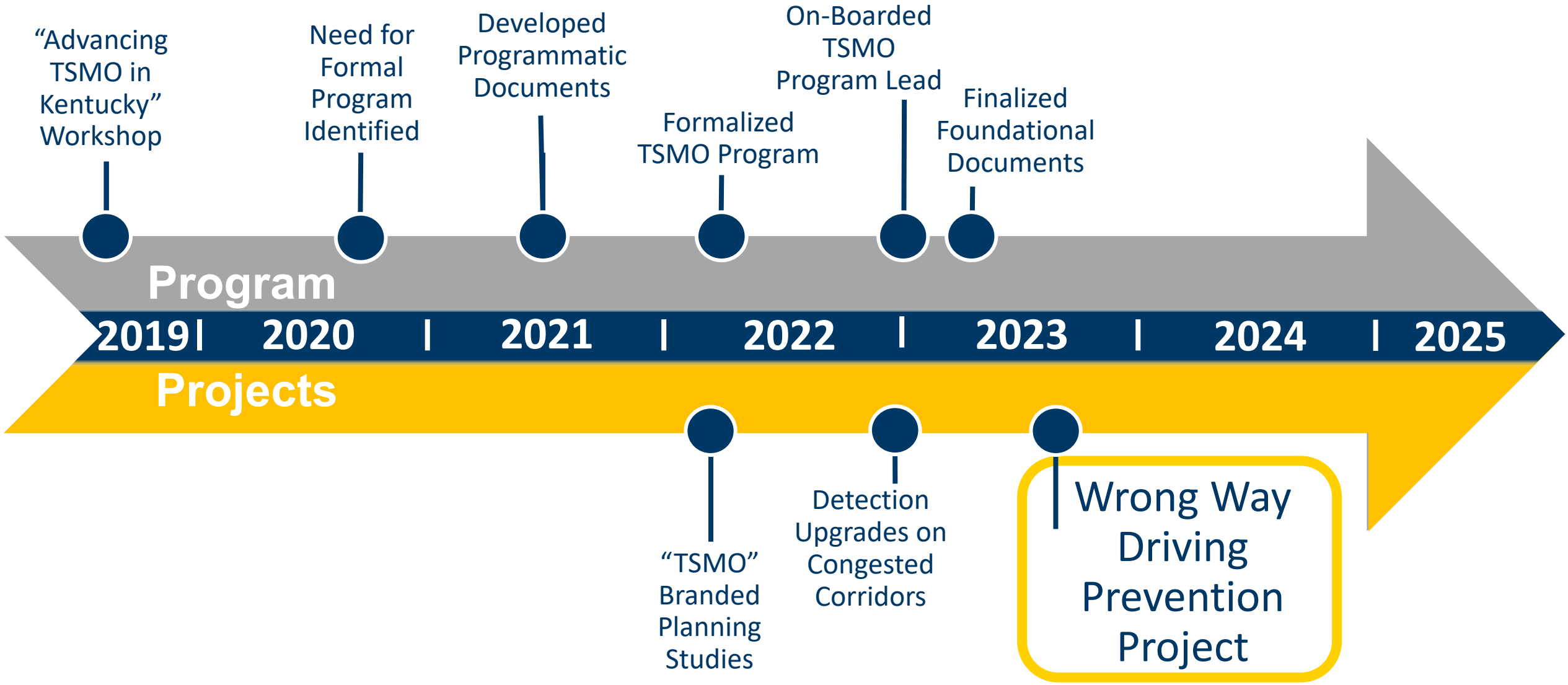

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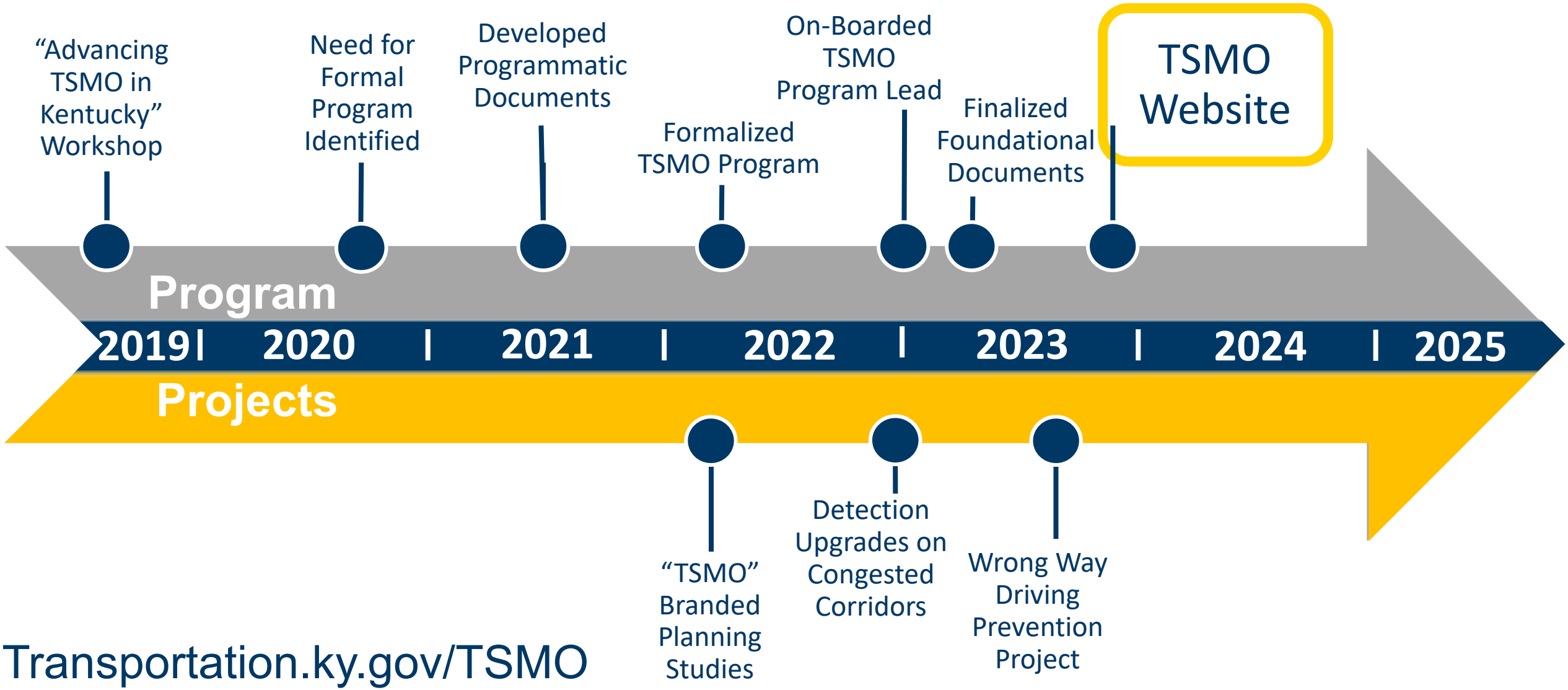

Transportation.ky.gov/TSMO

Transportation.ky.gov/TSMO

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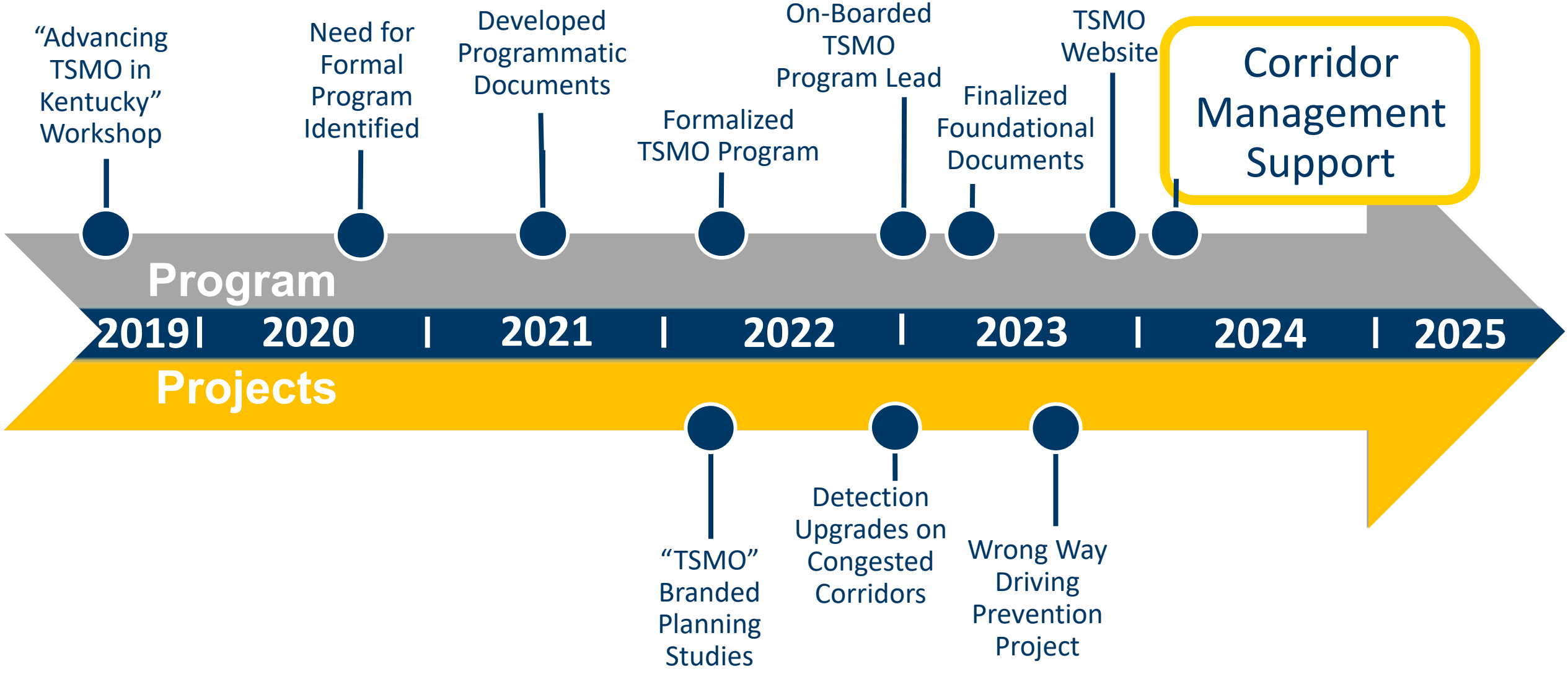

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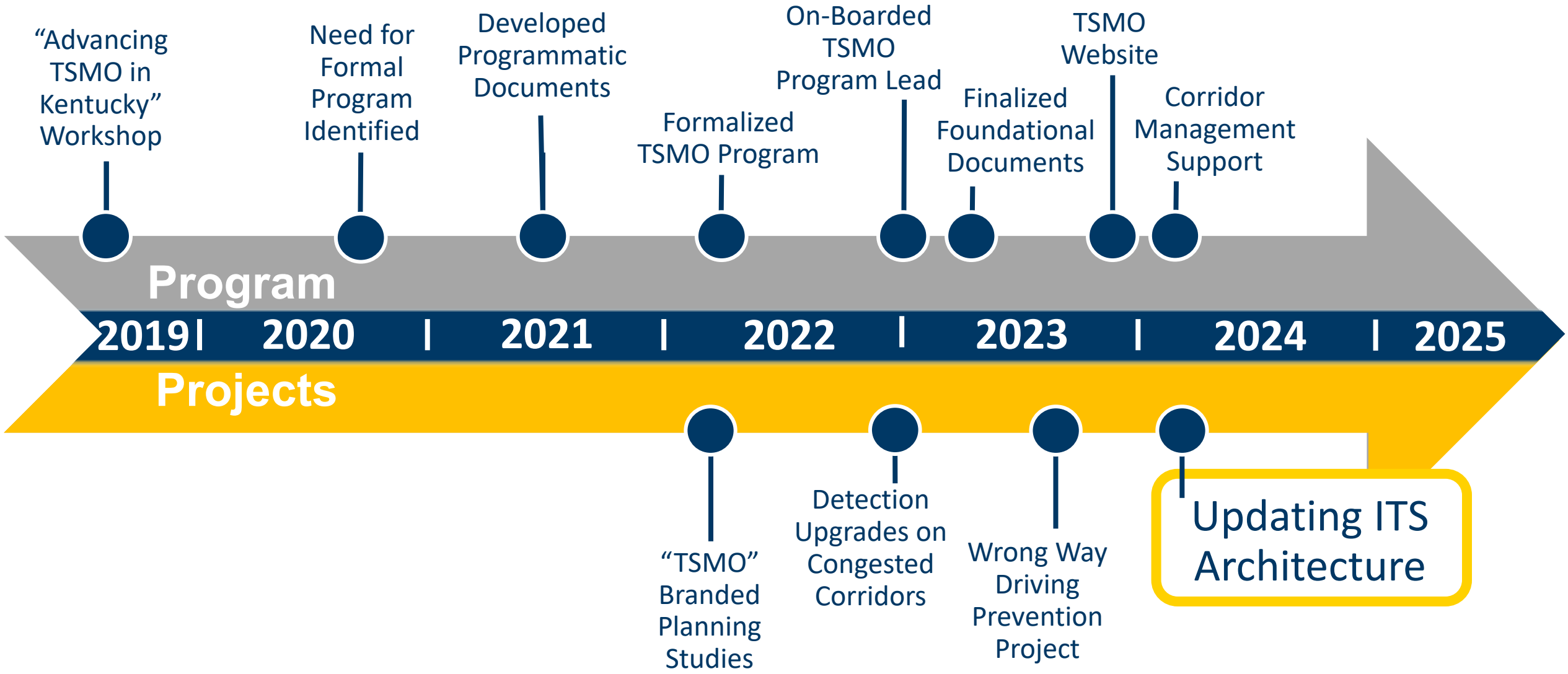

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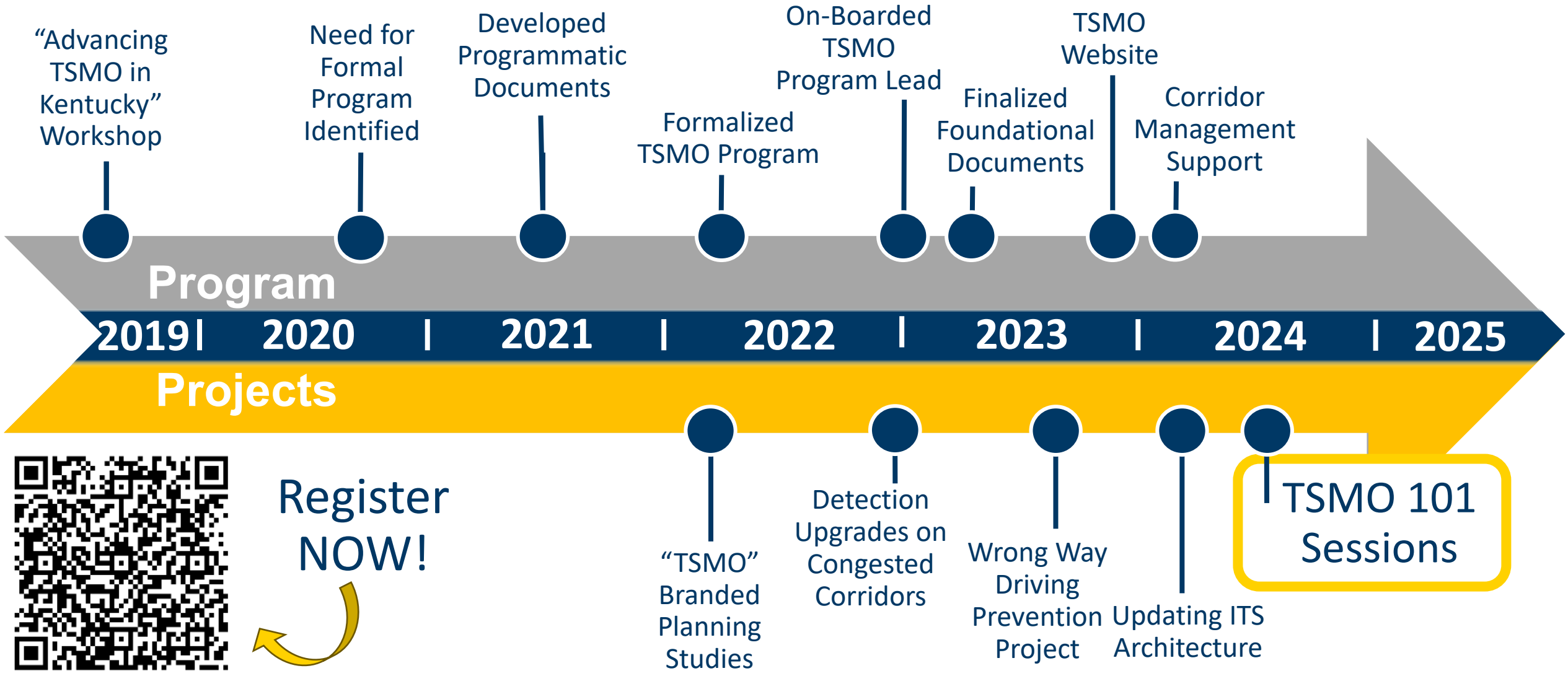
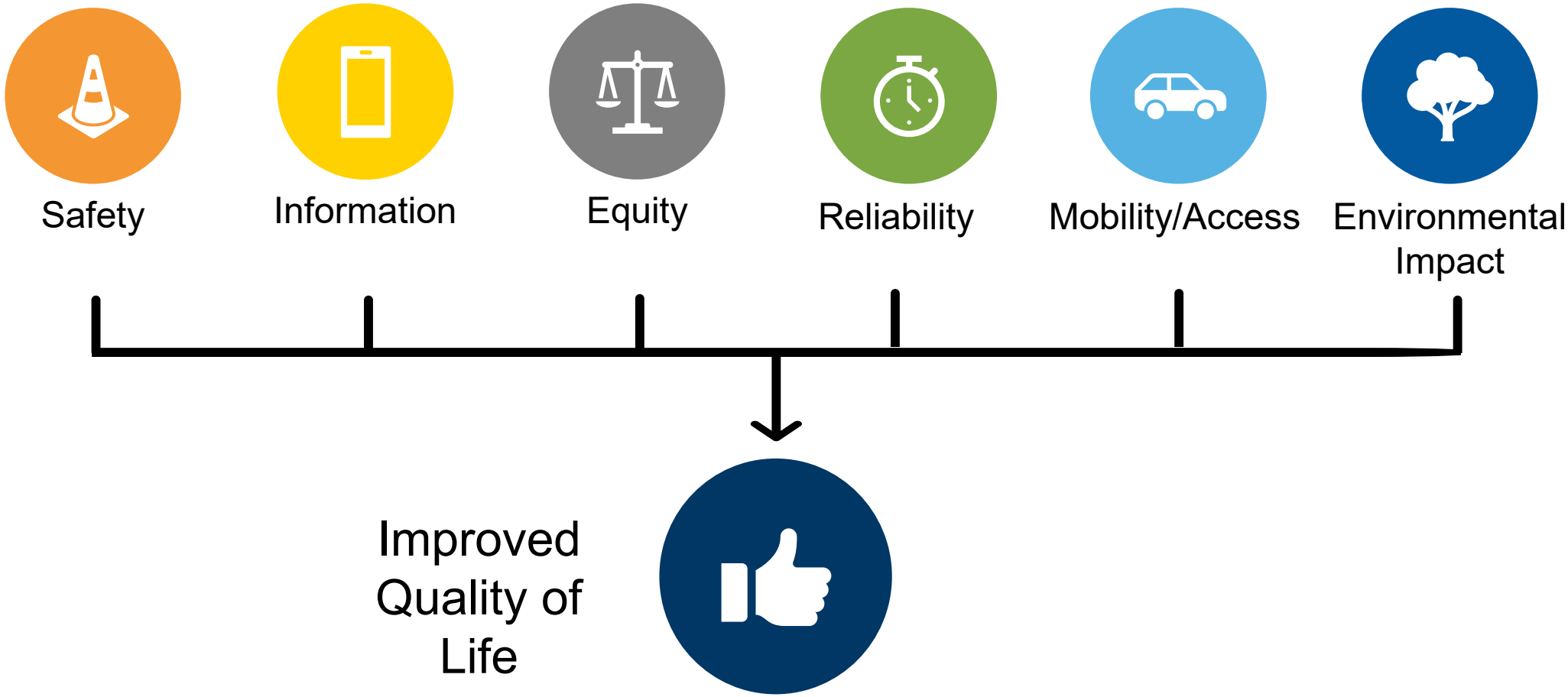


Why TSMO?

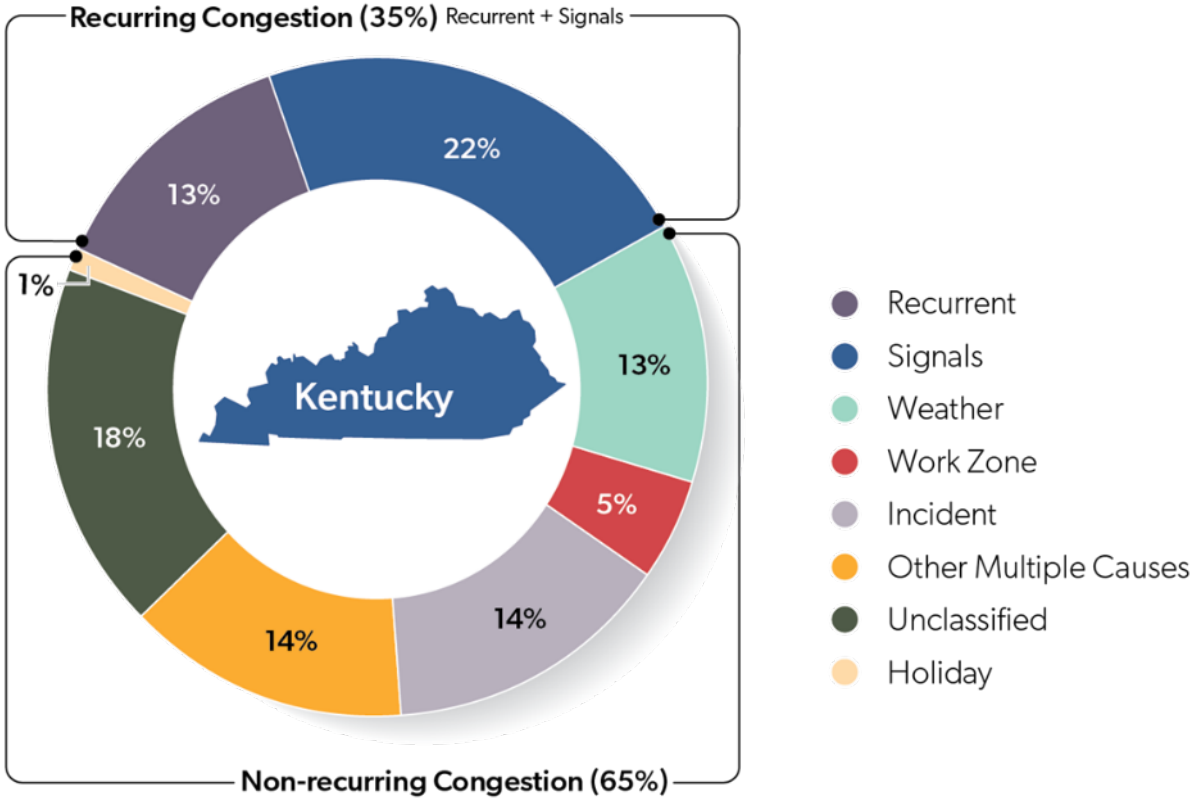

Safety
Information
Equity
Reliability
Mobility/Access
Environmental Impact
Improved Quality of Life

Equity

Equity is not merely balancing users and modes but going above and beyond for those who have previously been underserved.

Balance isn't providing equal services, but equally providing opportunities for all to use.

Reliability



Source: RITIS

Targeted solutions to congestion causes.

Helps users understand what to expect more often in their trips and commutes.

Recurring Congestion: Occurs repeatedly and predictably.

Non-recurring Congestion: Occurs unpredictably and/or unexpectedly.

TSMO is for **Everyone**

Personal Vehicles

Freight

Emergency Vehicles

Vulnerable Road Users

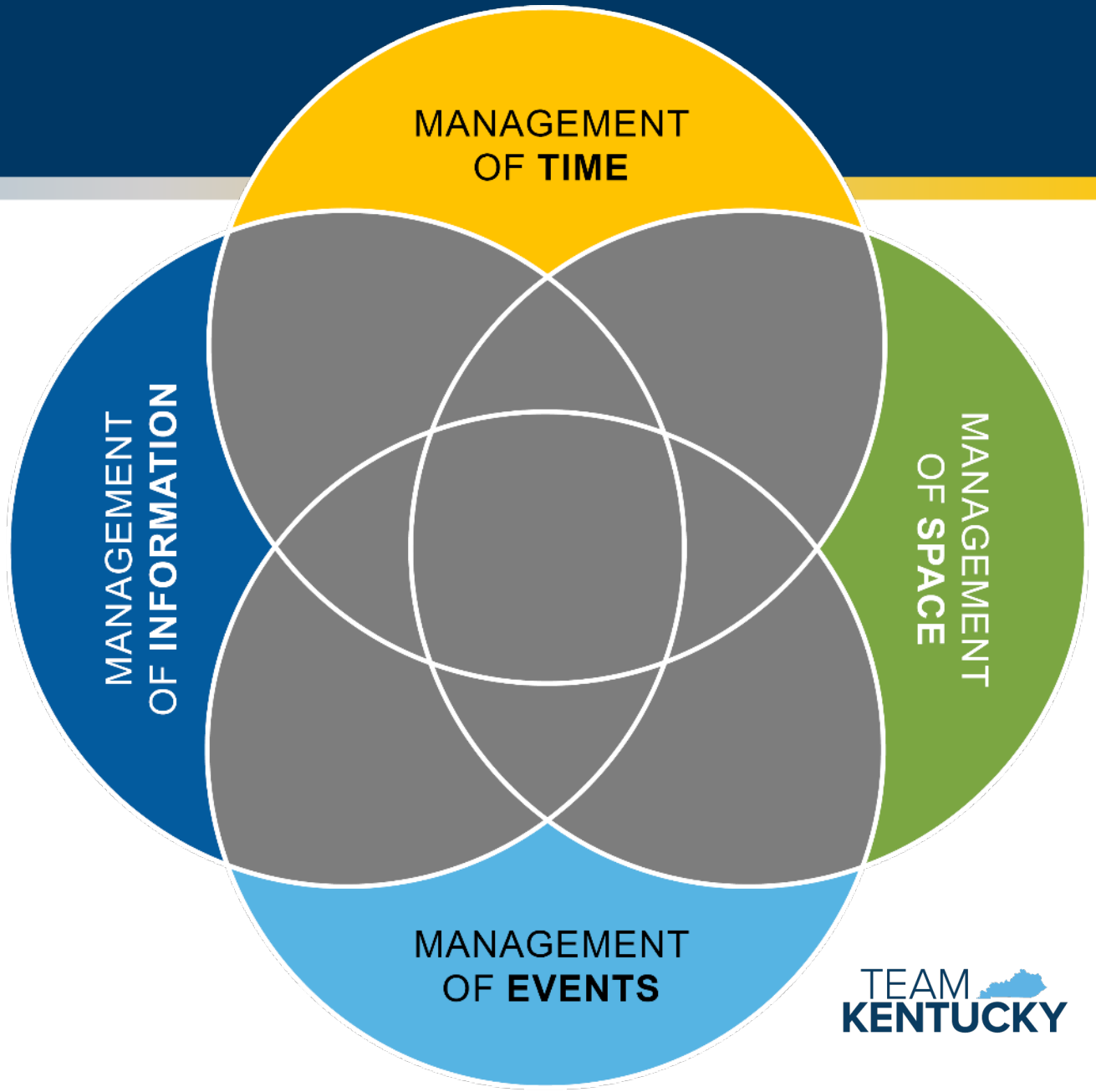
Transit

Roadway Workers

Implementation

How?

Using one or more strategies for the management of **S**pace, **I**nformation, **T**ime, and **E**vents (SITE).



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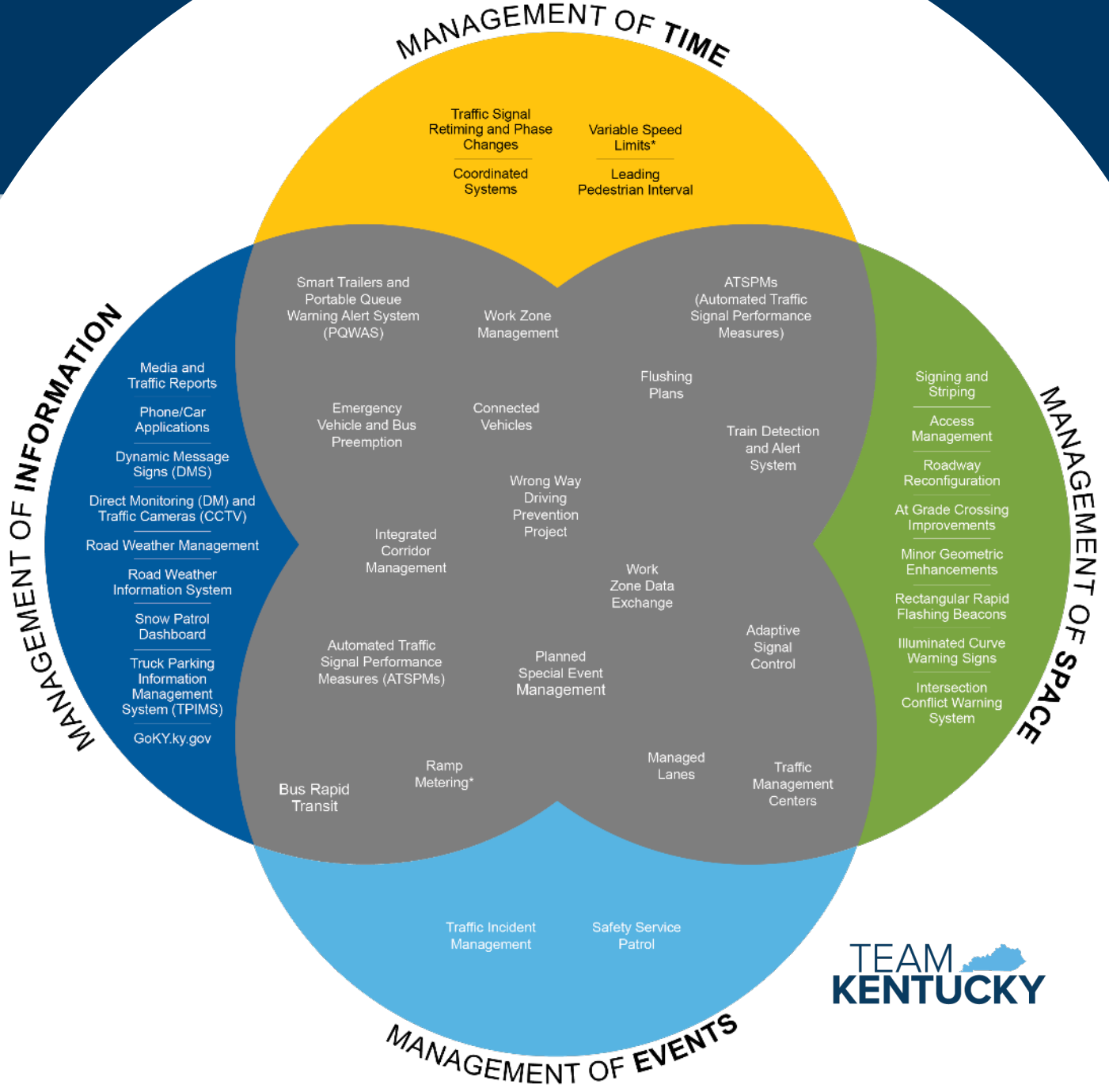

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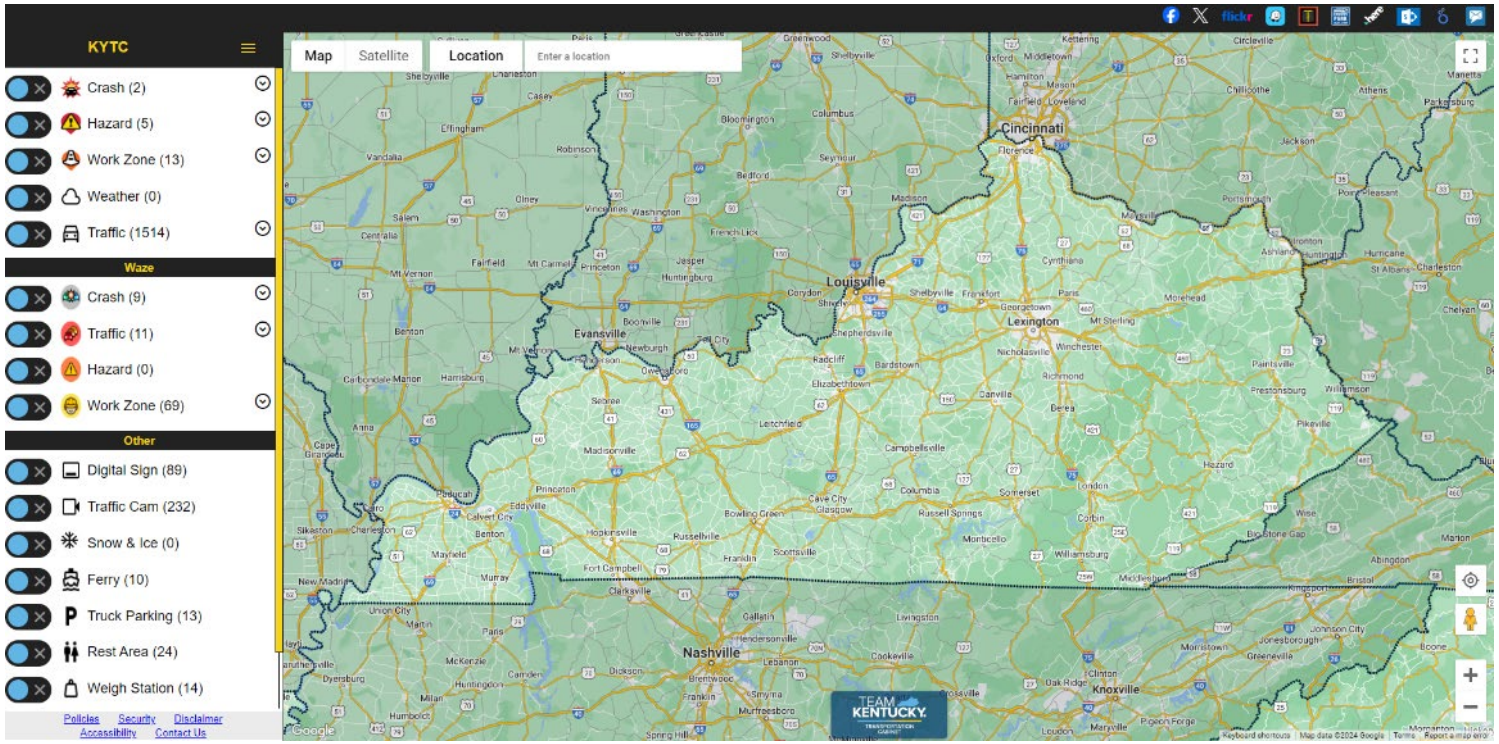
Management of Space

Roadway Reconfiguration

Management of Information



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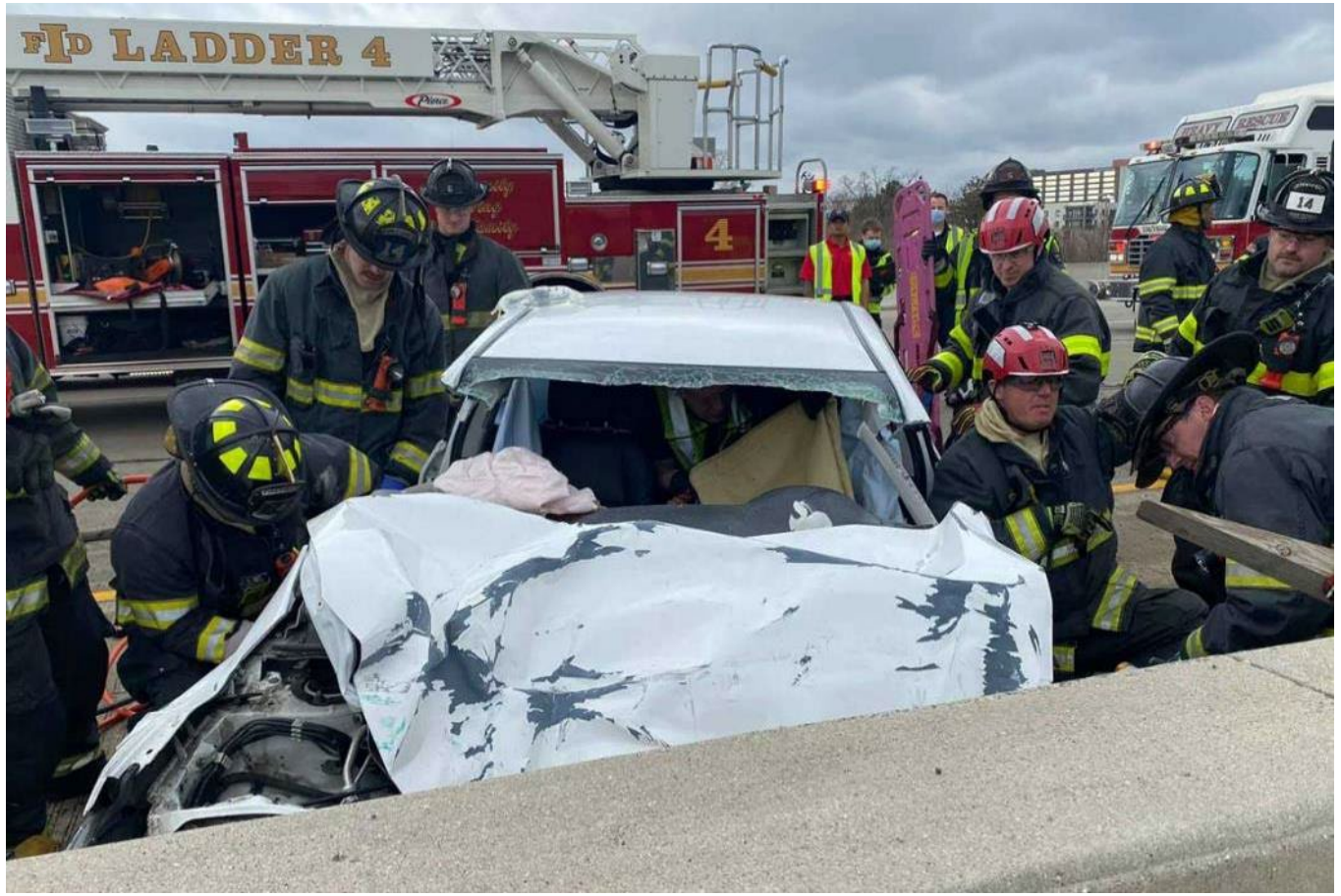
Management of Time

Leading Pedestrian Interval

Management of Events

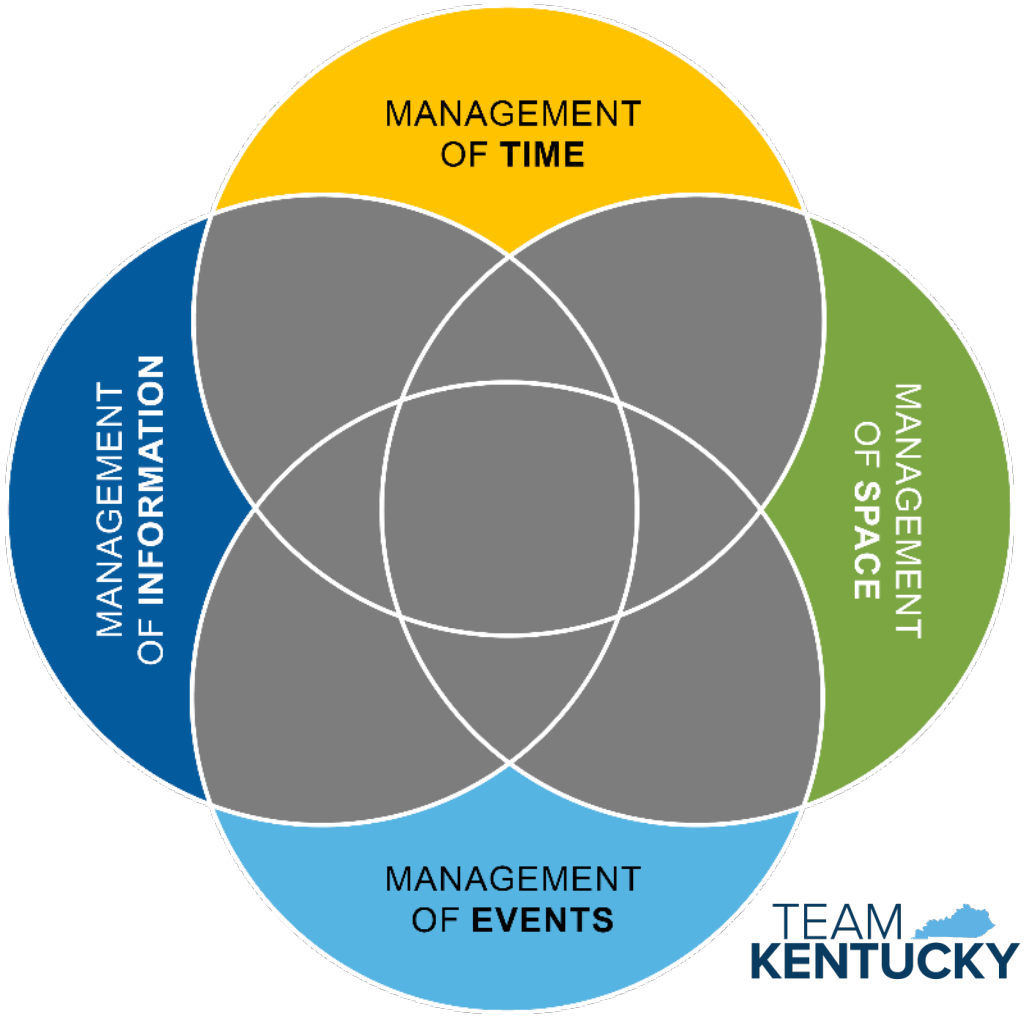
Traffic Incident Management



Implementation

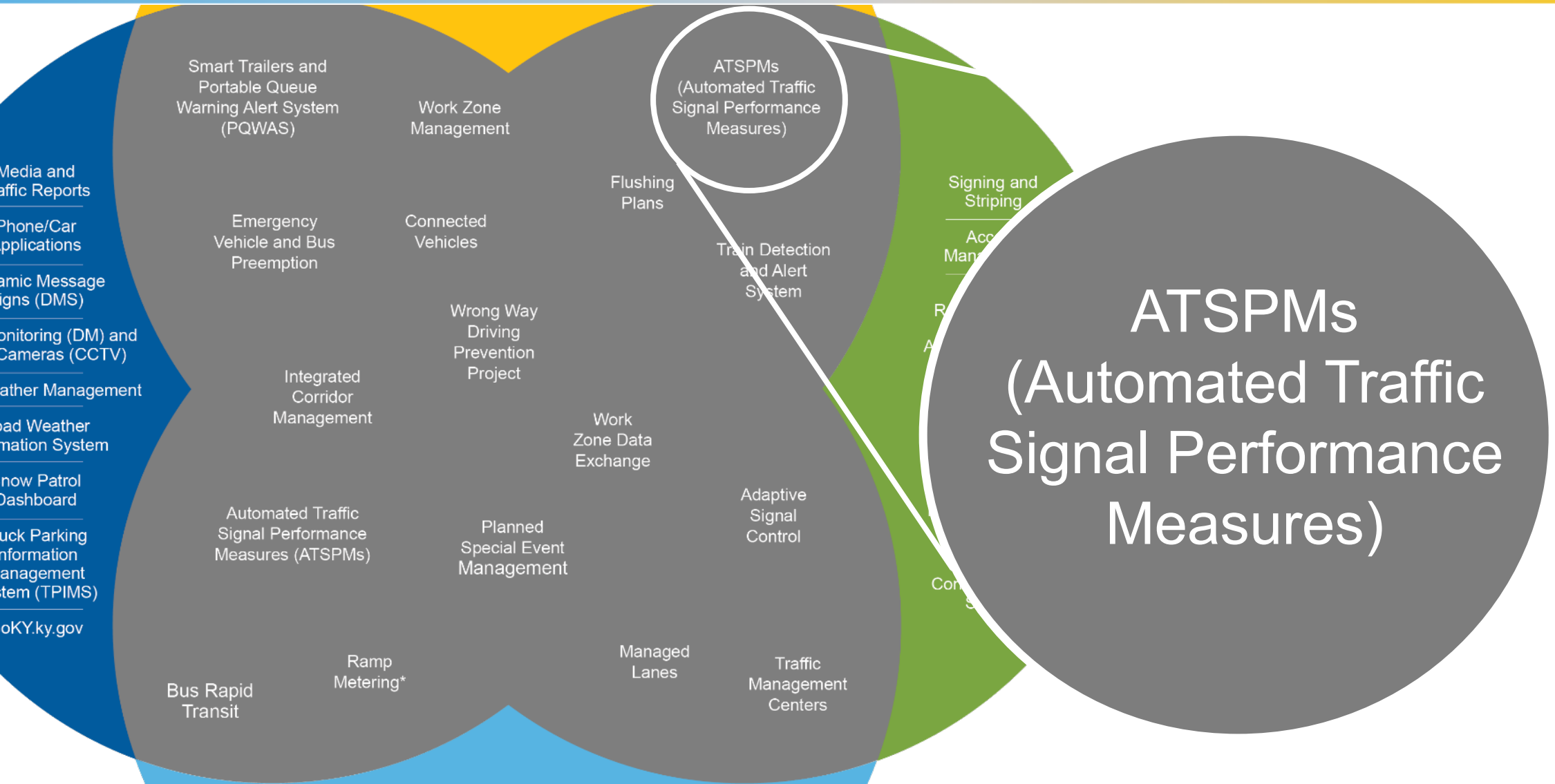
Strategies that center on a combination of the management of space, information, time, and events

Strategies Overlapping in SITE



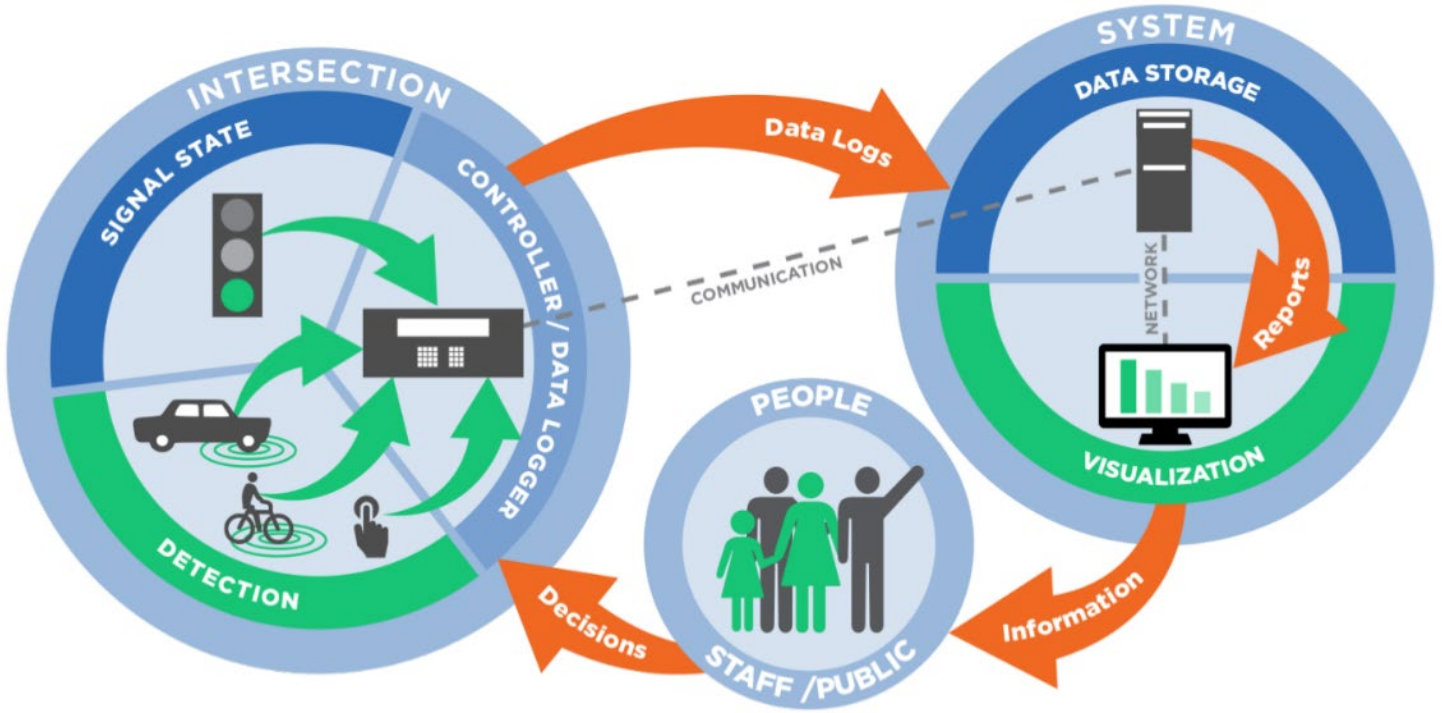
- Collect Data
- Analyze Data
- Optimize Operations
- Inform Public

Implementation

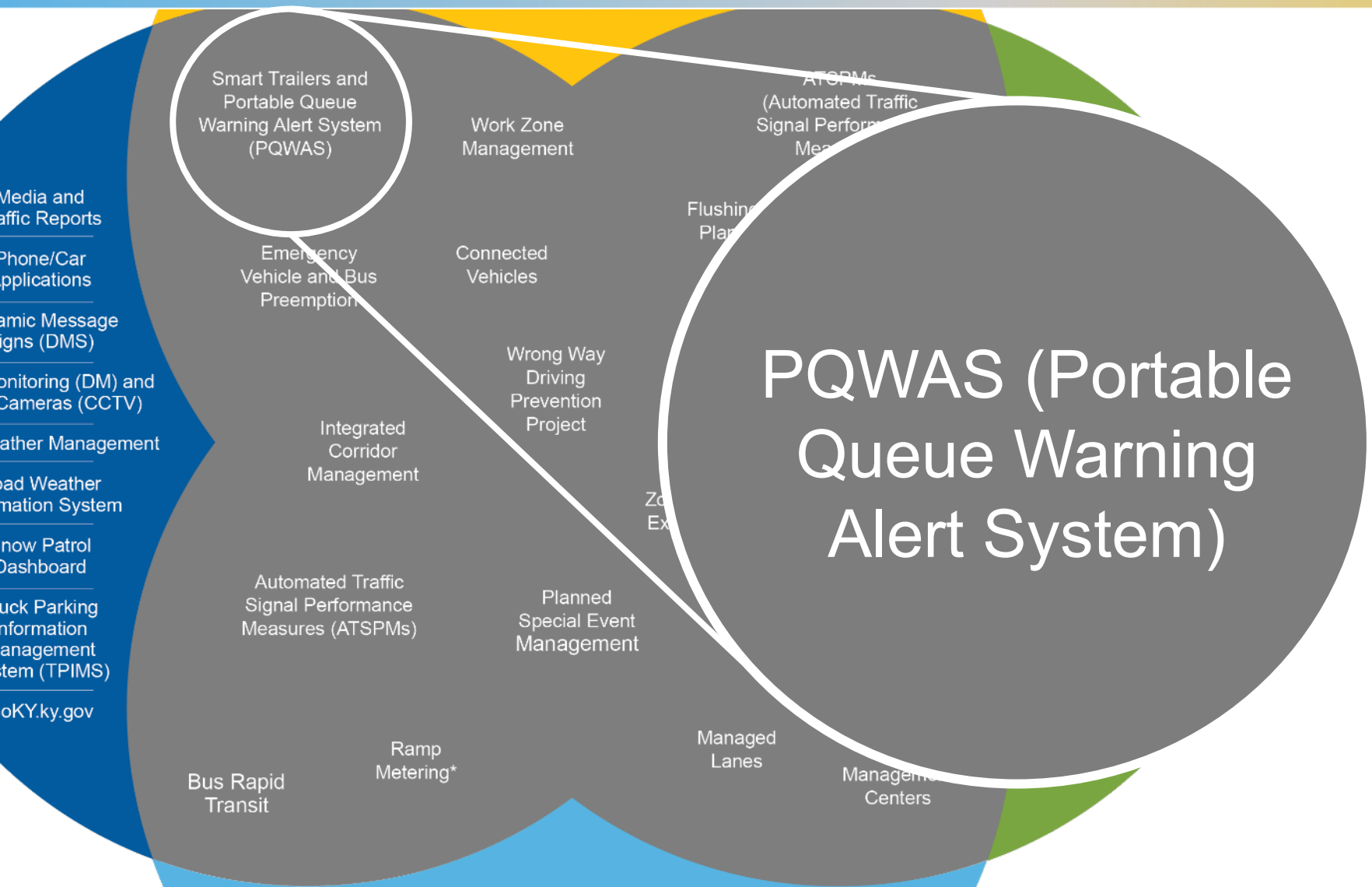


Strategies Overlapping in SITE

Automated Traffic Signal Performance Measures (ATSPMs)



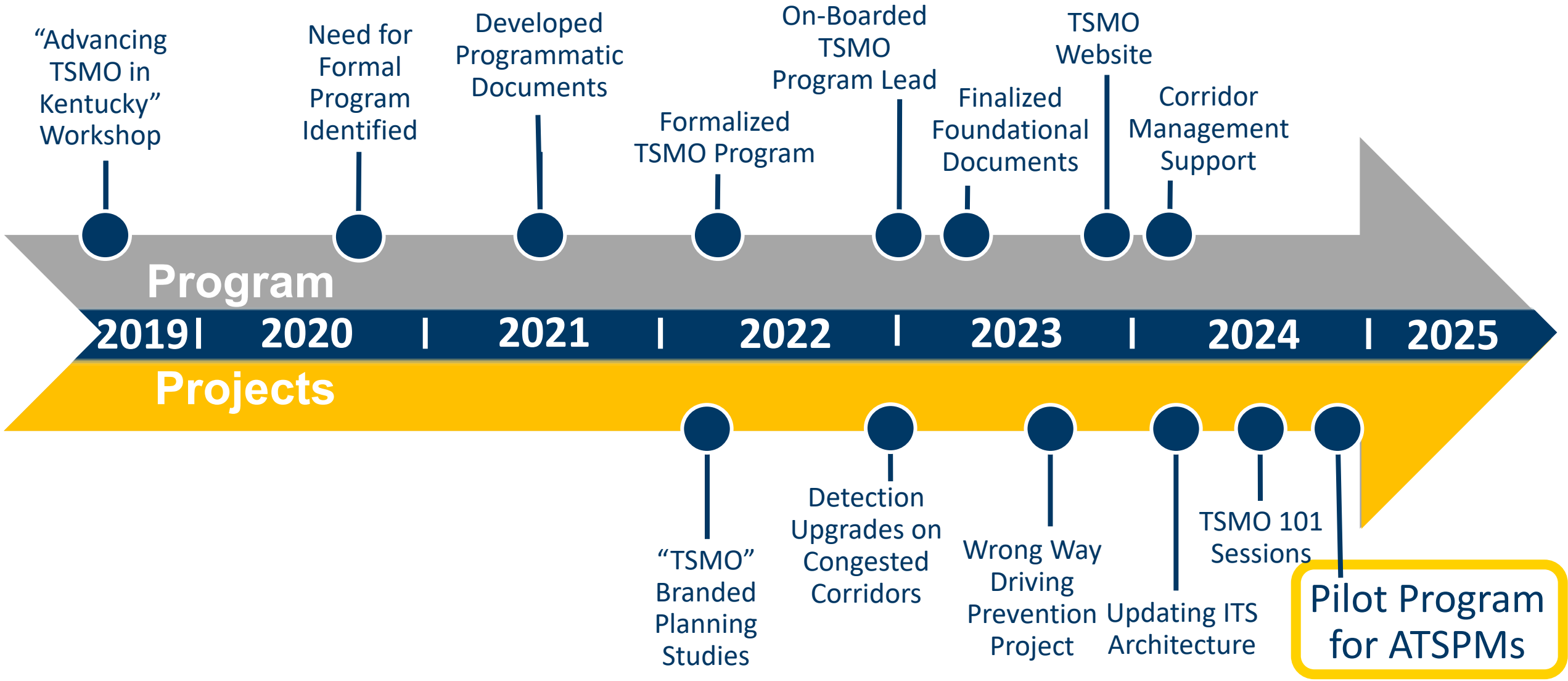
Implementation



Strategies Overlapping in SITE

Work Zone Management Strategies

KYTC TSMO Program and Project Timeline



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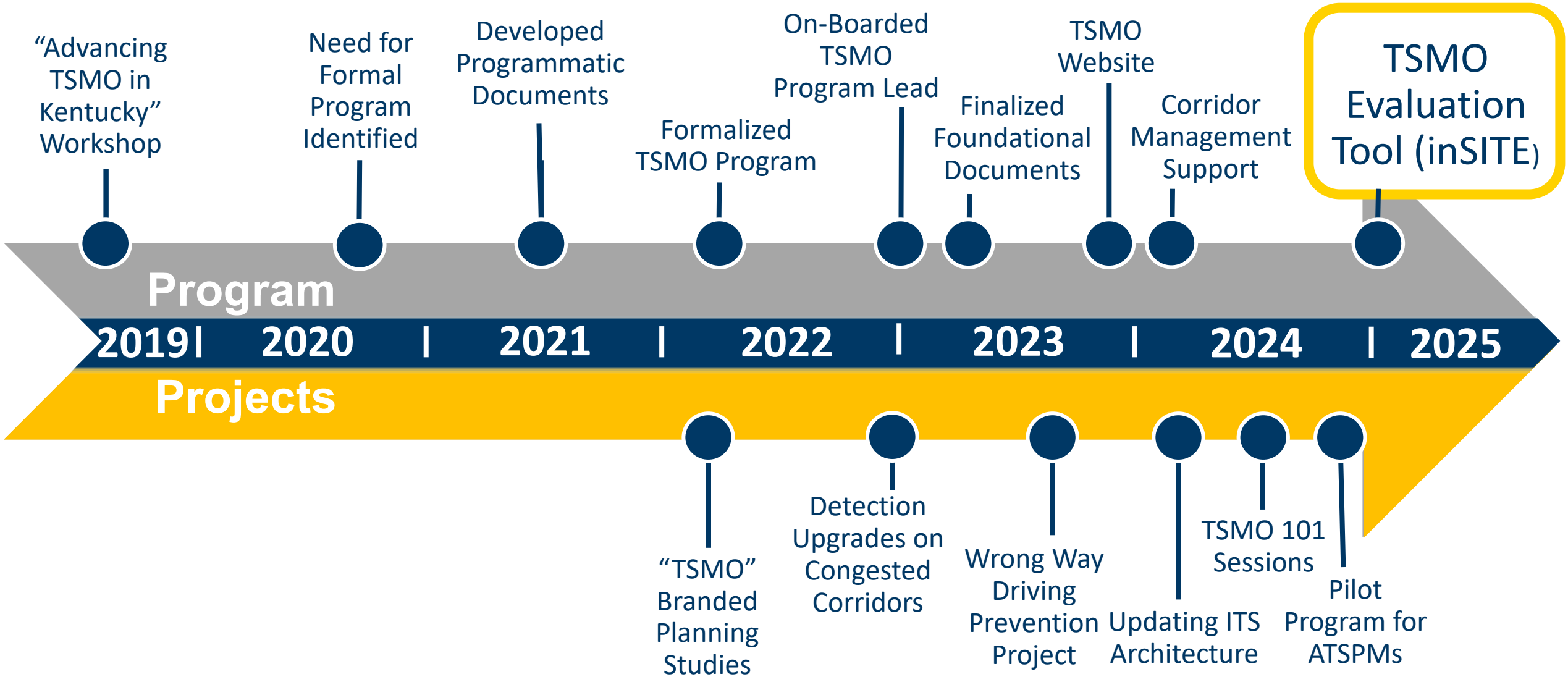

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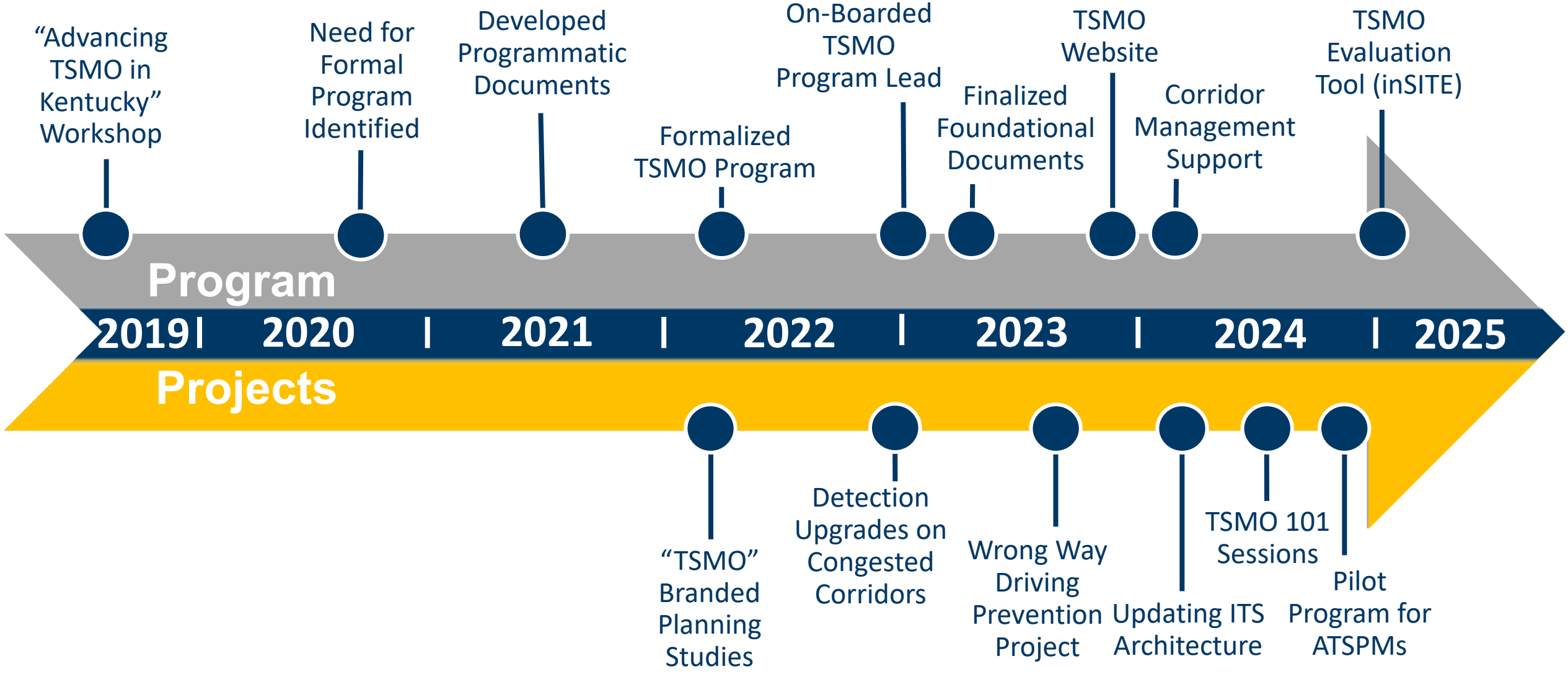

The TSMO “Takeaway”

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TSMO 101 Registration

When? Now!

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KYTC TSMO Program Lead

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(502) 764-0526

TSMO: Leveraging Technology to Support People

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10:50 am