



# VTrans2040

VTrans Multimodal Transportation Plan (VMTP)

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March 15, 2016

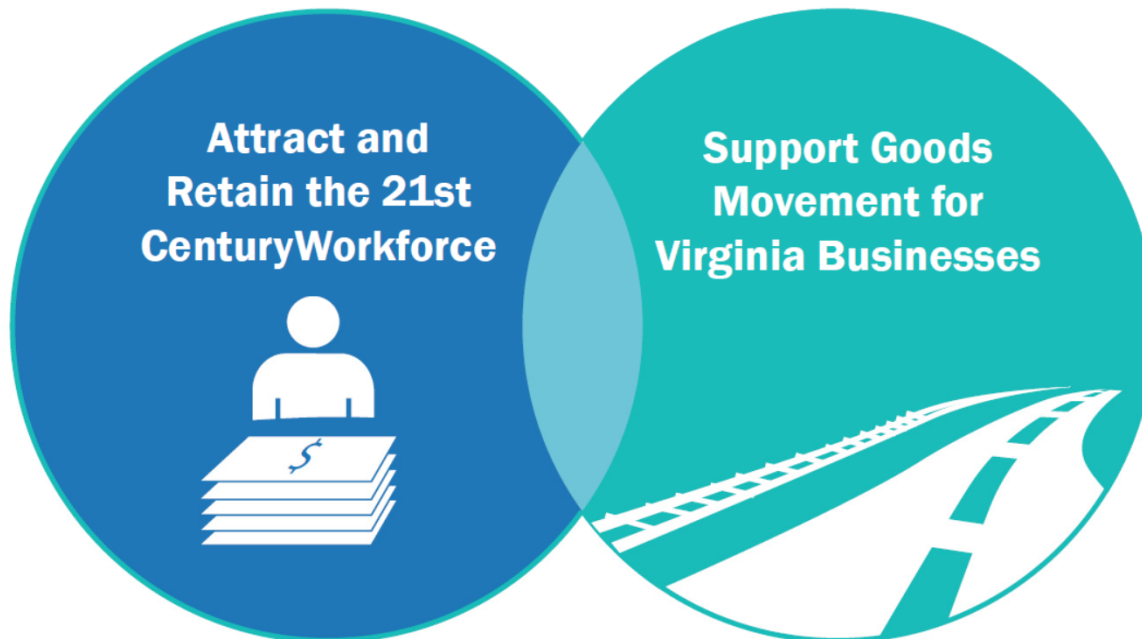




# VTrans & VMTP Framework

“Demographic and market studies consistently show that workers in the 21<sup>st</sup> century economy prefer walkable communities that are served by rail and public transit, as well as roads. If we want to cultivate this work force, which we need to do, we need to get ahead of these trends.”

Governor McAuliffe  
June 18, 2014



# Past and Present Elements of VTrans2040

## VTrans Vision Document

- Vision
- Guiding Principles
- Goals
- Objectives
- Trends

[www.vtrans.org/vtrans2040.asp](http://www.vtrans.org/vtrans2040.asp)

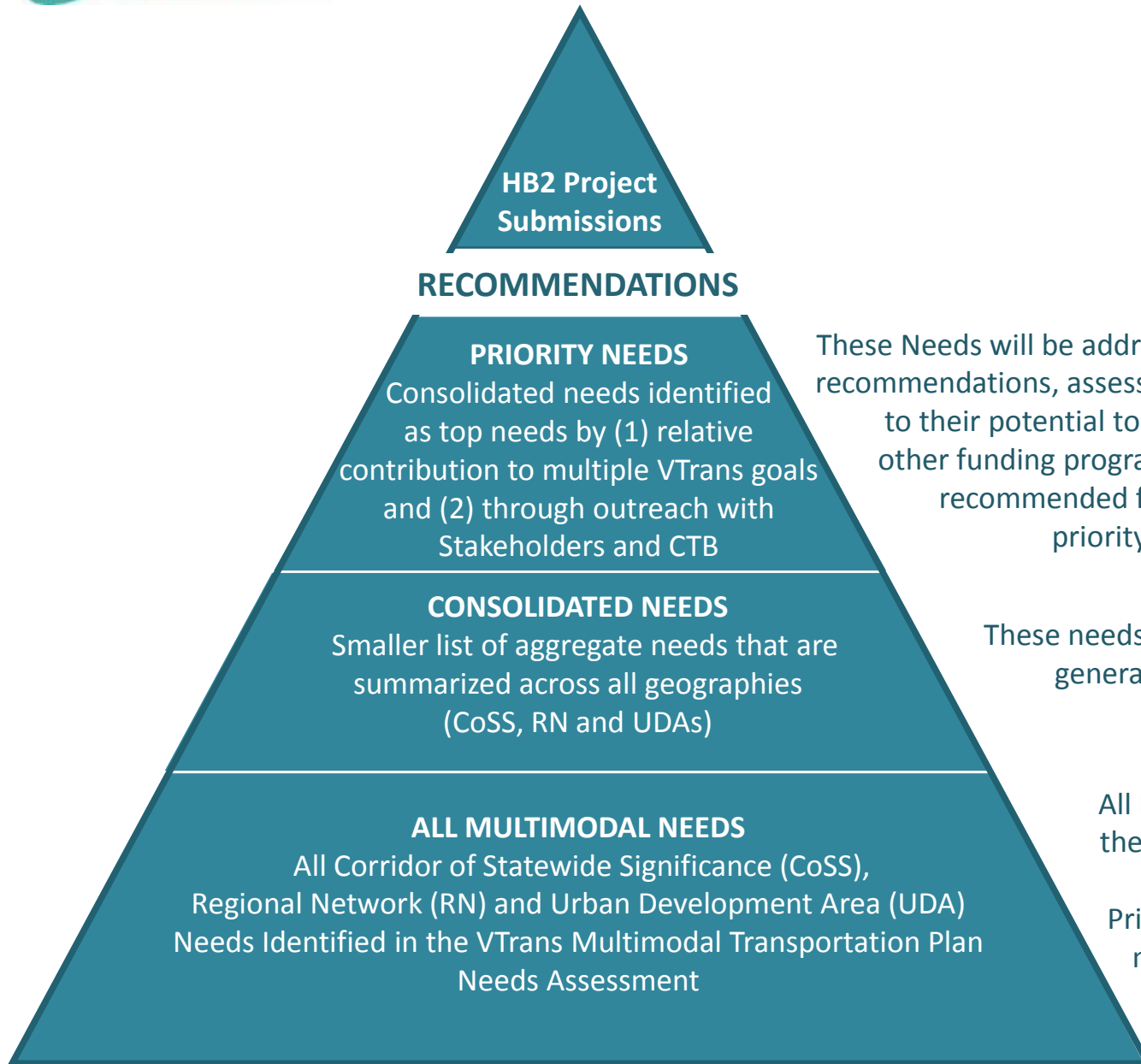
Completed  
&  
Adopted by CTB

## VTrans Multimodal Transportation Plan

- 2025 Needs Assessment
- 2025 Recommendations
- 2040 Scenario Analysis
- 2040 FAST Compliant Freight Element

Completed & Adopted by CTB





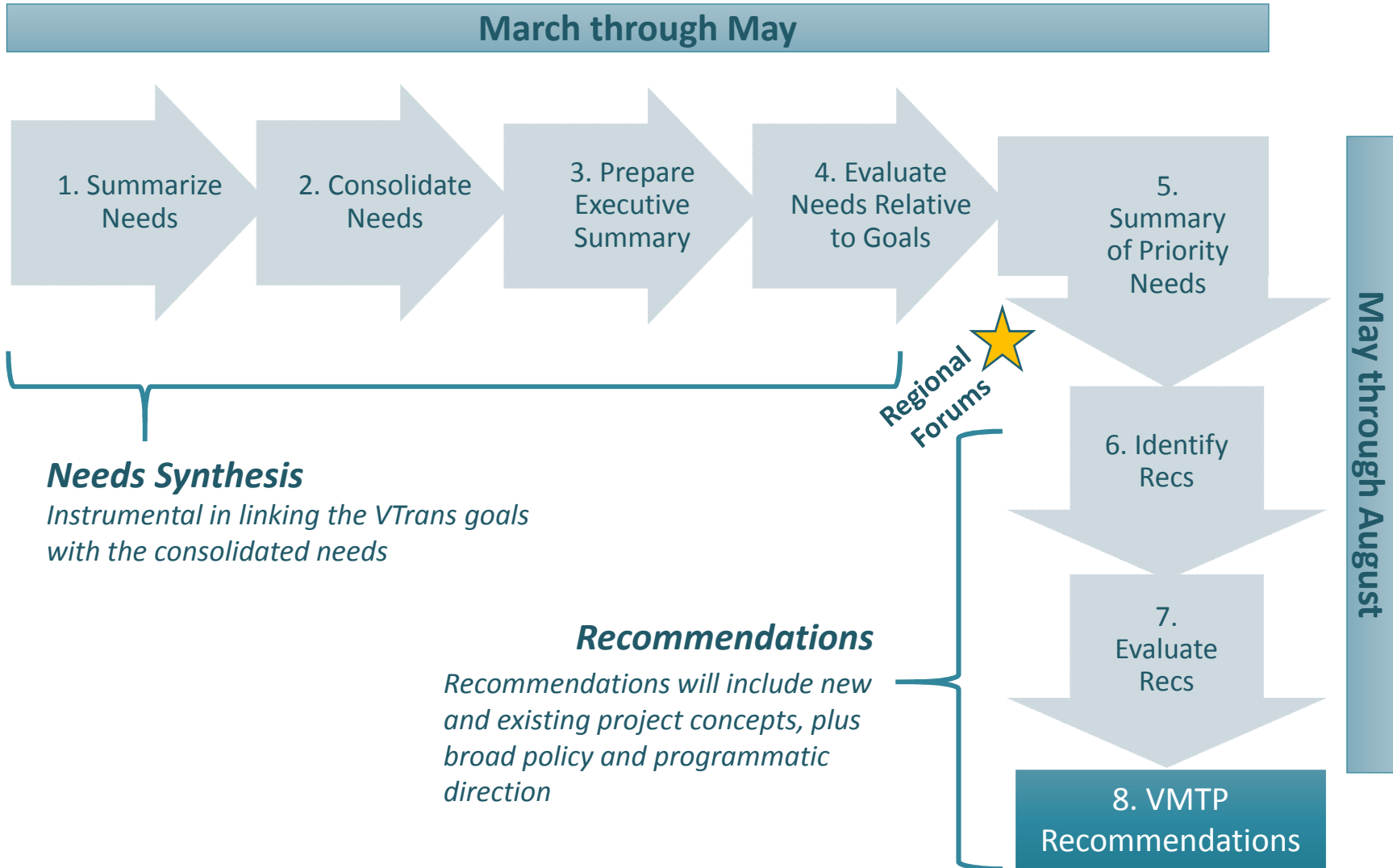
These Needs will be addressed with project specific recommendations, assessed qualitatively in regards to their potential to score well within HB2 and other funding programs' criteria. Some may be recommended for further study and given priority for study/planning funds.

These needs will all be addressed with general recommendations in this phase of VTrans

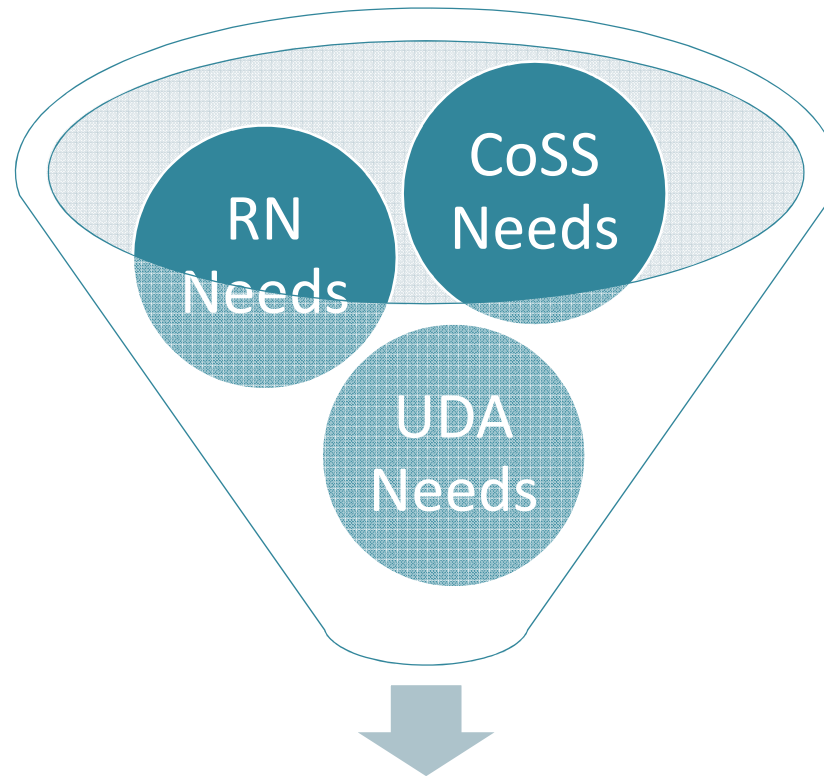
All Projects addressing one of these needs are eligible to be screened into the HB2 Prioritization Process. Not all needs will be addressed by the recommendations development phase.



# Needs Synthesis & Recommendations Process



# Needs Synthesis Overview



**Consolidated Cross-Geography Needs**



# Summarize & Consolidate Needs

- Create packages of aggregate, multimodal regional specific needs

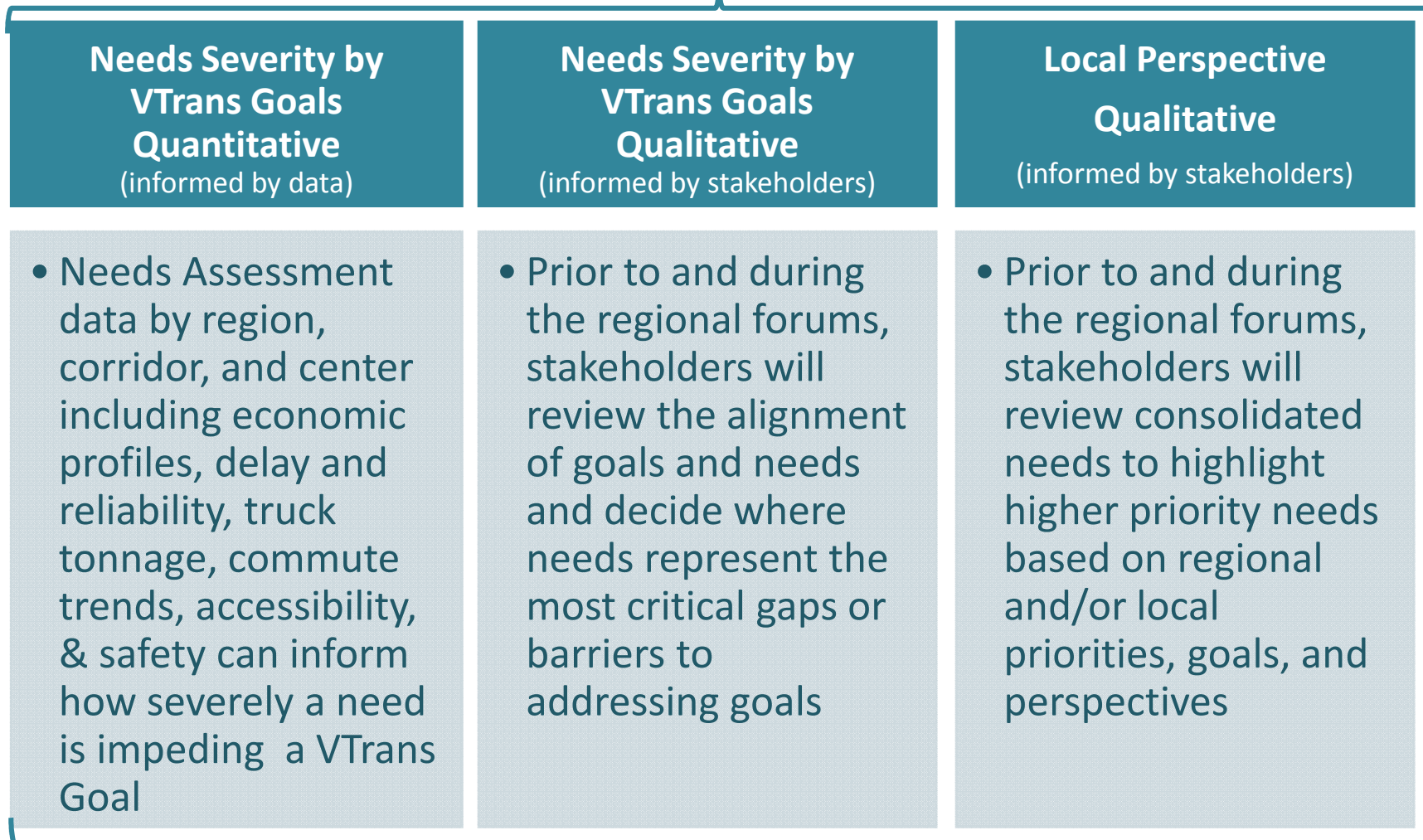
Market	Summarized Needs
Regional Network	<b>I-81 corridor reliability</b>
	Arterial network reliability
	Roadway operations and management
CoSS	Walkability in activity centers
	Safety related to inadequate climbing lanes and merge areas
	Rail capacity bottlenecks
	<b>US 11 speed and capacity limitations to serve as a I-81 reliever</b>
UDAs	<b>Limited transit connections between regional centers</b>
	<b>Transit amenities and connected bicycle and pedestrian systems</b>
	Intersection design, complete streets, and bicycle and pedestrian systems

Consolidated Needs
<b>I-81 corridor reliability and ability for US 11 to serve as a parallel highway</b>
Arterial network reliability, capacity, and operations
Walkability, improved intersection design, complete streets, and bicycle and pedestrian systems in activity centers
Safety related to inadequate climbing lanes and merge areas
Rail capacity bottlenecks
<b>Limited transit connections between regional centers and transit amenities within centers</b>



# Prioritize Needs

## Consolidated Needs



## Prioritized "Tiered" Needs





# Align Needs Relative to VTrans Goals



**Economic Competitiveness & Prosperity**



**Accessible & Connected Places**



**Safety for All Users**



**Proactive System Management**



**Healthy & Sustainable Communities**



# Align Needs Relative to VTrans Goals

- Summarize evaluation of consolidated needs relative to VTrans goals
  - Objective – Through stakeholder input, characterize the strength of the relationship between needs and goals.

Summary of Needs in Relation to VTrans Goals				
Consolidated Needs	Economic Competitiveness & Prosperity	Accessible & Connected Places	Safety for All Users	Healthy and Sustainable Communities
I-81 corridor reliability and ability for US 11 to serve as a parallel highway	Freight accessibility to/from I-81; Interstate reliability	Reliability in main street areas; commuter access to regional employment centers	Increased safety through more reliable flow through corridor	Reduced idling and emissions
Limited transit connections between regional centers and transit amenities within centers	Placemaking and mode choice in knowledge activity centers	Full multimodal access in activity centers and UDAs; commuter access to regional employment centers	Pedestrian safety in walkable downtown areas	Walkability in areas served by transit; focus on promoting TND to improve jobs/housing balance



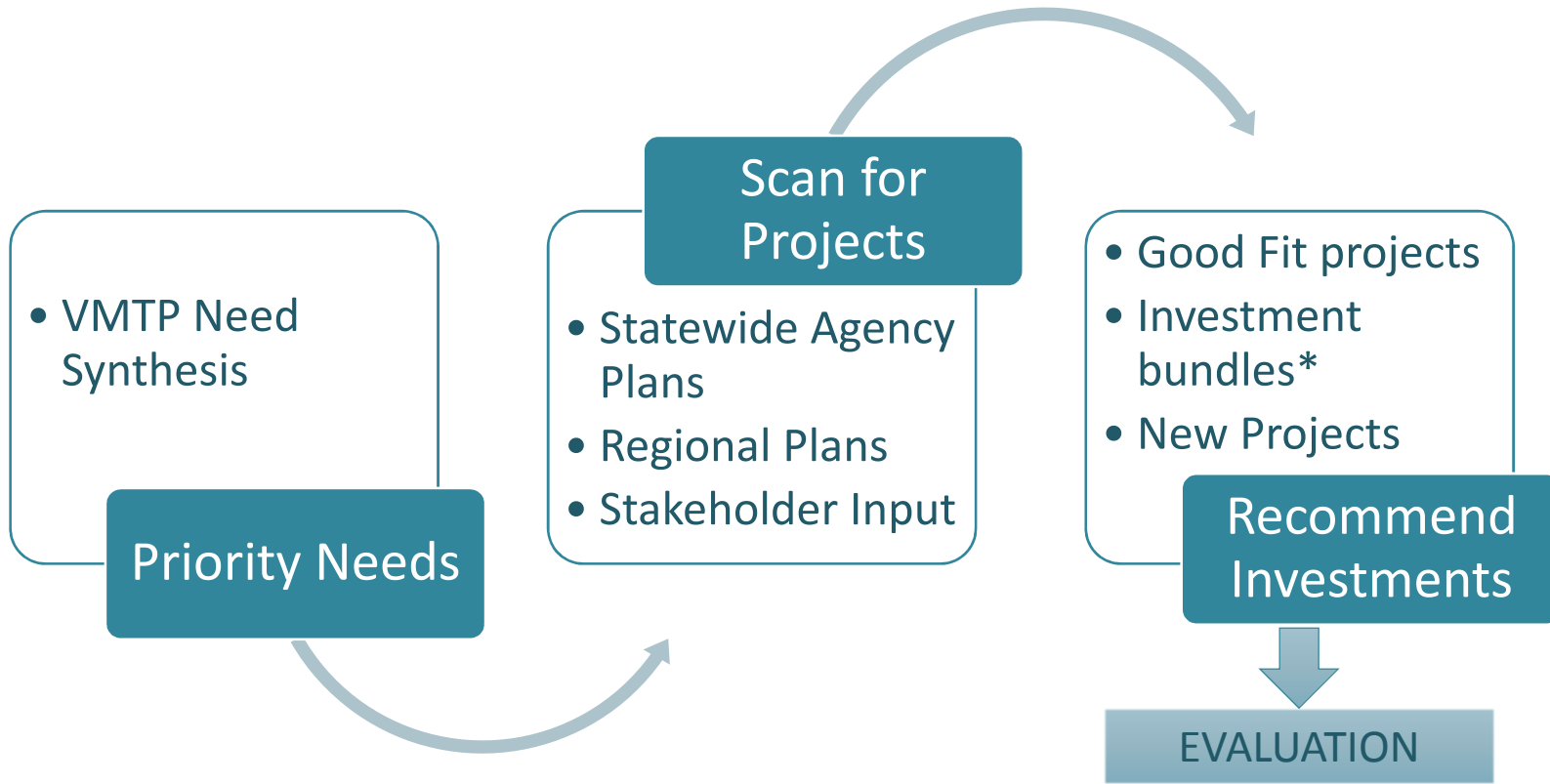
# Regional Forums

- Mid-point of effort – link consolidated needs to priority needs to recommendations
- Five unique locations, with sessions occurring simultaneously (targeting mid-May)
  - OIPI, Agency, and consultant staff providing a plenary presentation via webinar, followed by breakout forums in each of the five regional locations
- Seek input on priority needs
  - Interactive workshop approach to “rank” needs
- Gather initial input on specific recommendations to address the priority needs
  - Project and program level input



# Identify Recommendations

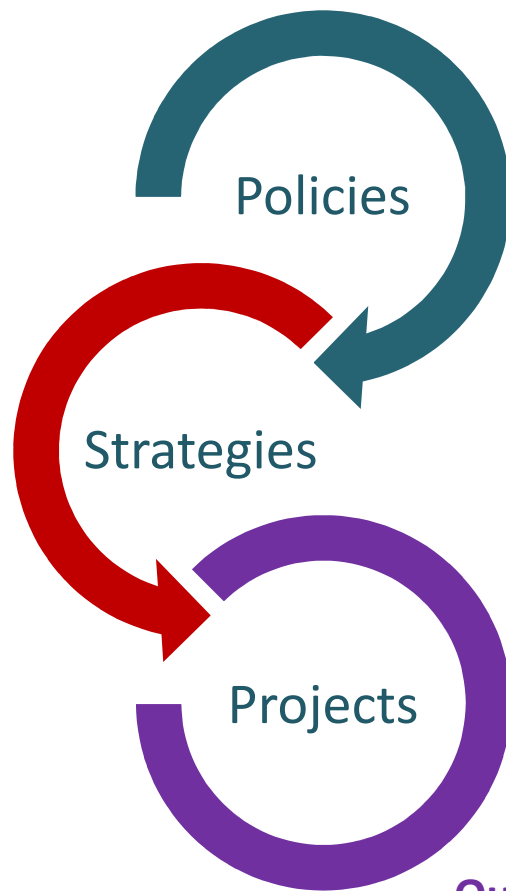
## Focus on Priority Needs



\*Types of projects that may apply in multiple areas AND packages of complementary investments in a given area.



# Identify Recommendations Three Related Components



Described in VMTP Final Document and, as appropriate, VTrans Action Plan

Programmatic strategies will be discussed in the VMTP final document; investment strategies will be evaluated along with projects

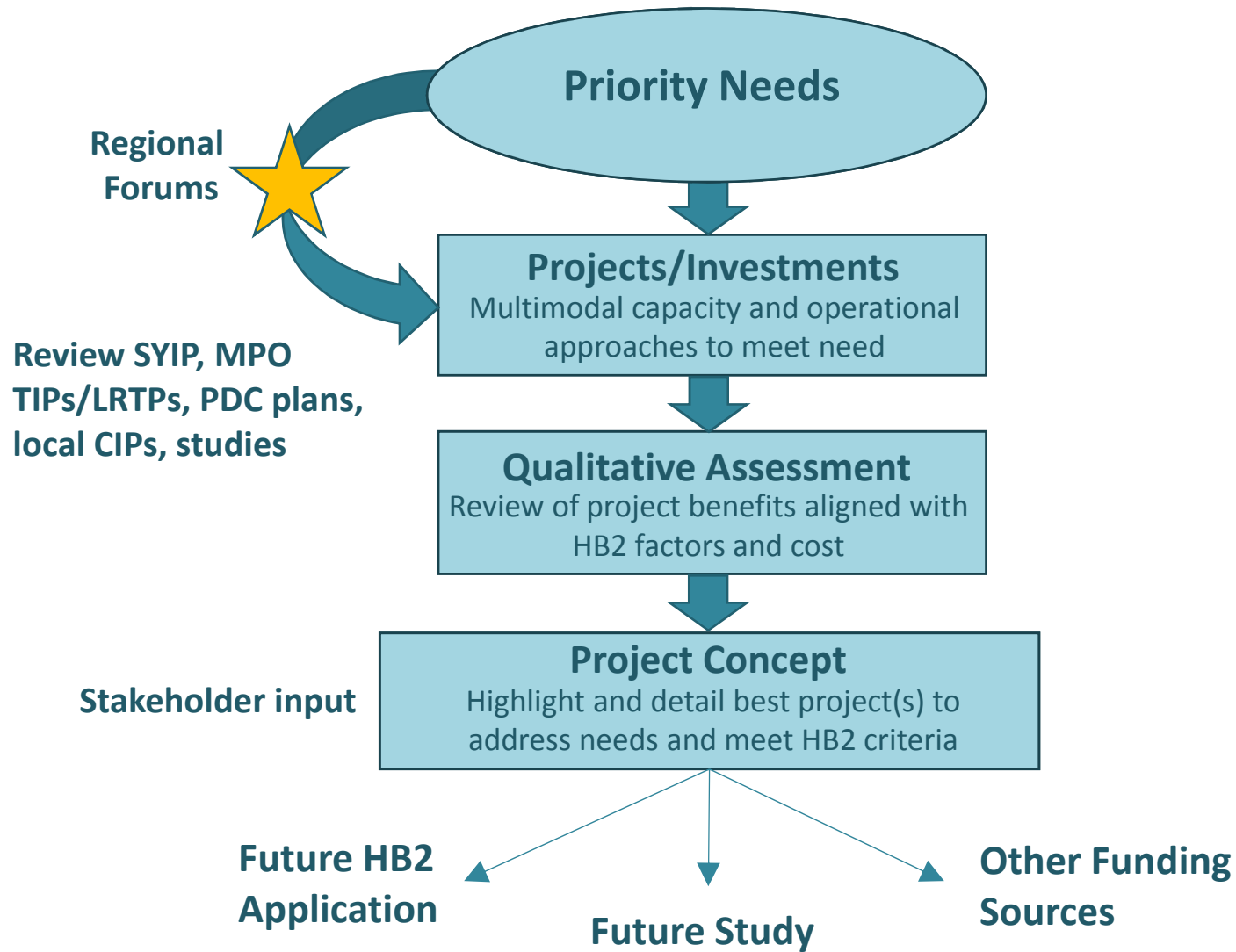
Projects analyzed (qualitatively) consistent with HB2 factors, other program criteria, and cost effectiveness



Outcomes could inform future HB2 project submissions, six-year improvement program projects, other capital improvement program projects, and evolving transportation policy in the Commonwealth.



# Evaluate Recommendations



# Evaluate Recommendations

## Qualitative Assessment

- Intent to link recommendations to the potential to create sustainable benefits consistent with VTrans goals and HB2 factors

Qualitative Assessment									
Priority Needs	Project Concepts	HB2 Cong.	HB2 Acc.	HB2 Safety	HB2 Econ.	HB2 Env.	HB2 LU	VTrans	Cost
Strategic capacity and operational improvements to I-81 and US 11	• Integrated Corridor Management	++	+	+	++	++	-	Describe support of goals	\$\$\$
	• Adaptive signals on US 11	+	+	+	++	+	-		\$\$
	• I-81 climbing lanes	++	+	+++	+++	+	-		\$\$
	• I-81 interchange improvements	+++	++	+++	+++	-	++		\$
New and enhanced park-and-ride lot locations connected to local, regional, and intercity service	• New PNR lots or lot expansion	++	+	+	+	++	+	Describe support of goals	\$\$
	• TDM program expansion	++	+	+	++	+++	+++		\$\$\$
	• New commuter bus service	+	++	++	++	++	++		\$\$
	• Intercity bus service	+	++	++	++	++	++		\$\$
	• Activity center circulator	+	+	++	+	++	+++		\$\$





# VMTP Recommendations

## Project Concepts

- Project concept details to include:
  - Summary of priority need being addressed
  - Location, detailed description
  - Source (including reference to recent studies)
  - Planning-level cost estimate
  - Qualitative assessment of HB2 factor benefits
- Details developed in coordination with VDOT and/or DRPT and local partners

**Outcome: Inform future HB2 applications and other funding program applications, or identify funding need for further planning or PE**



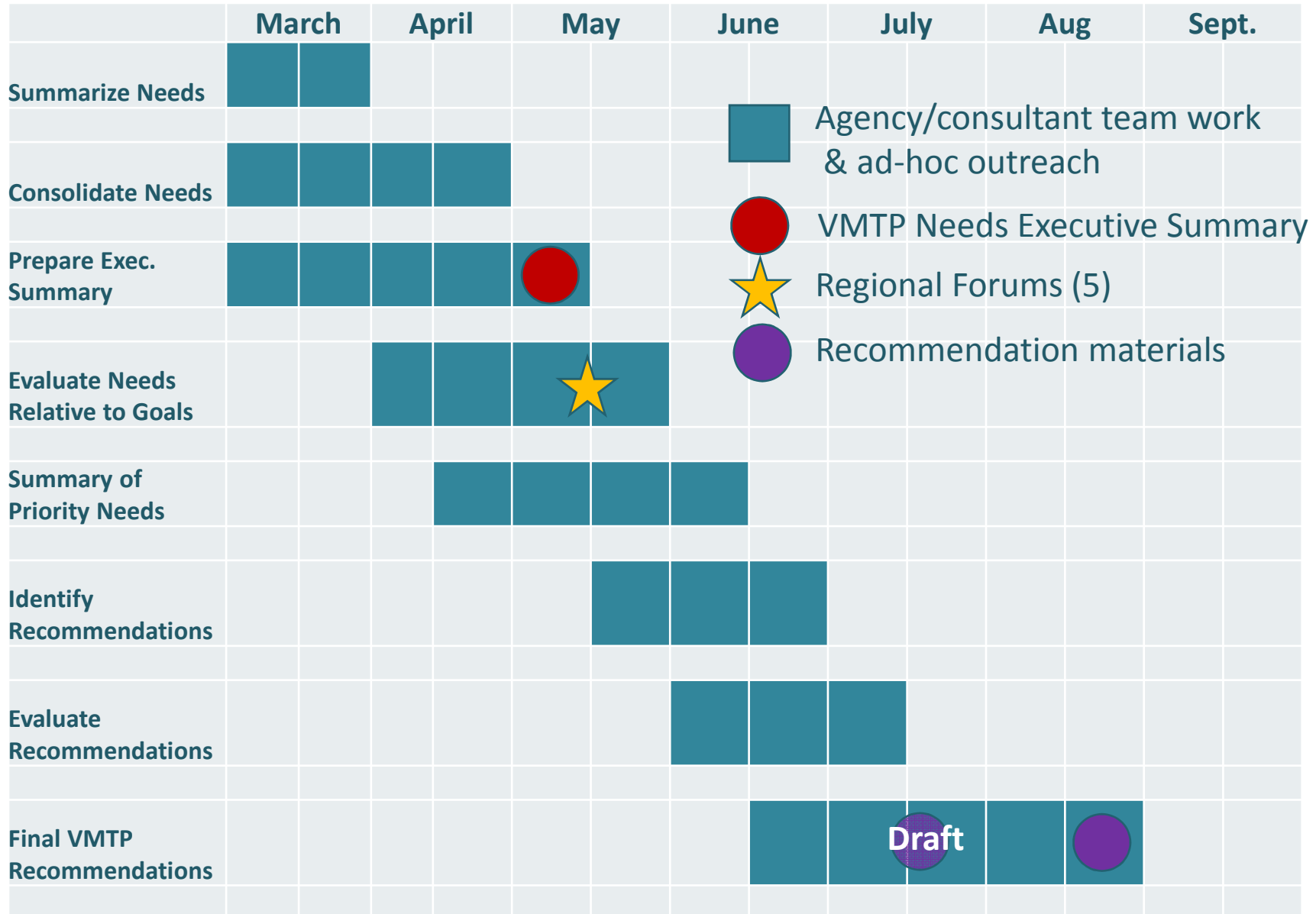


# Participation and Stakeholders Role

- Regular status updates
- Brief surveys to maintain involvement
  - Gather information and perspectives prior to regional forums
- Regional forums
- CTB briefings post regional forums
  - CTB input critical to defining highest priority needs for detailed project recommendations
- Recommendations review & comment
  - Coordination with local planners and engineers, and CTB members, particularly when defining new projects



# Schedule



Thank You

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[www.vtrans.org](http://www.vtrans.org)

