

2017

FRA Rail Program Delivery

Meeting

Acela Express 2021

Mark Yachmetz

Melissa Biancardi

Agenda

01

ACELA EXPRESS 2021
OVERVIEW

02

PROGRAM HISTORY

03

WHERE ARE WE?

04

ROLE OF AMTRAK EPMO

05

ORGANIZING FOR SUCCESSFUL
OUTCOMES

06

CLOSING COMMENTS

Acela Express 2021 Overview

What is it?

Why is it important?

The program: trainsets and beyond

What is it?

A relaunch of Acela Express Service



- ❑ Premium service from Washington DC through to NYC to Boston
- ❑ Only high speed service in Western Hemisphere
- ❑ A financial success since its introduction in 2000

Acela Express 2021 Program (AE 2021)



- ❑ Designed to position Amtrak for continued success for the next generation

Why is it important?

Current State and Business Challenges

Details

A

Current demand outpacing capacity

20 trainsets
300 seats per set
Frequently sold out

B

First generation high speed technology

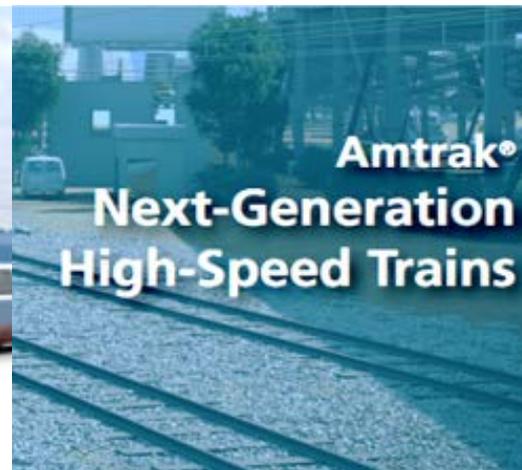
Becoming progressively more difficult and expensive to maintain

C

Equipment acquired during a period of financial stress

Leases coming due between 2021 and 2024

The Program: Trainsets



28 high-speed trainsets

Flexible seating configuration



30% Capacity Increase



Most energy efficient

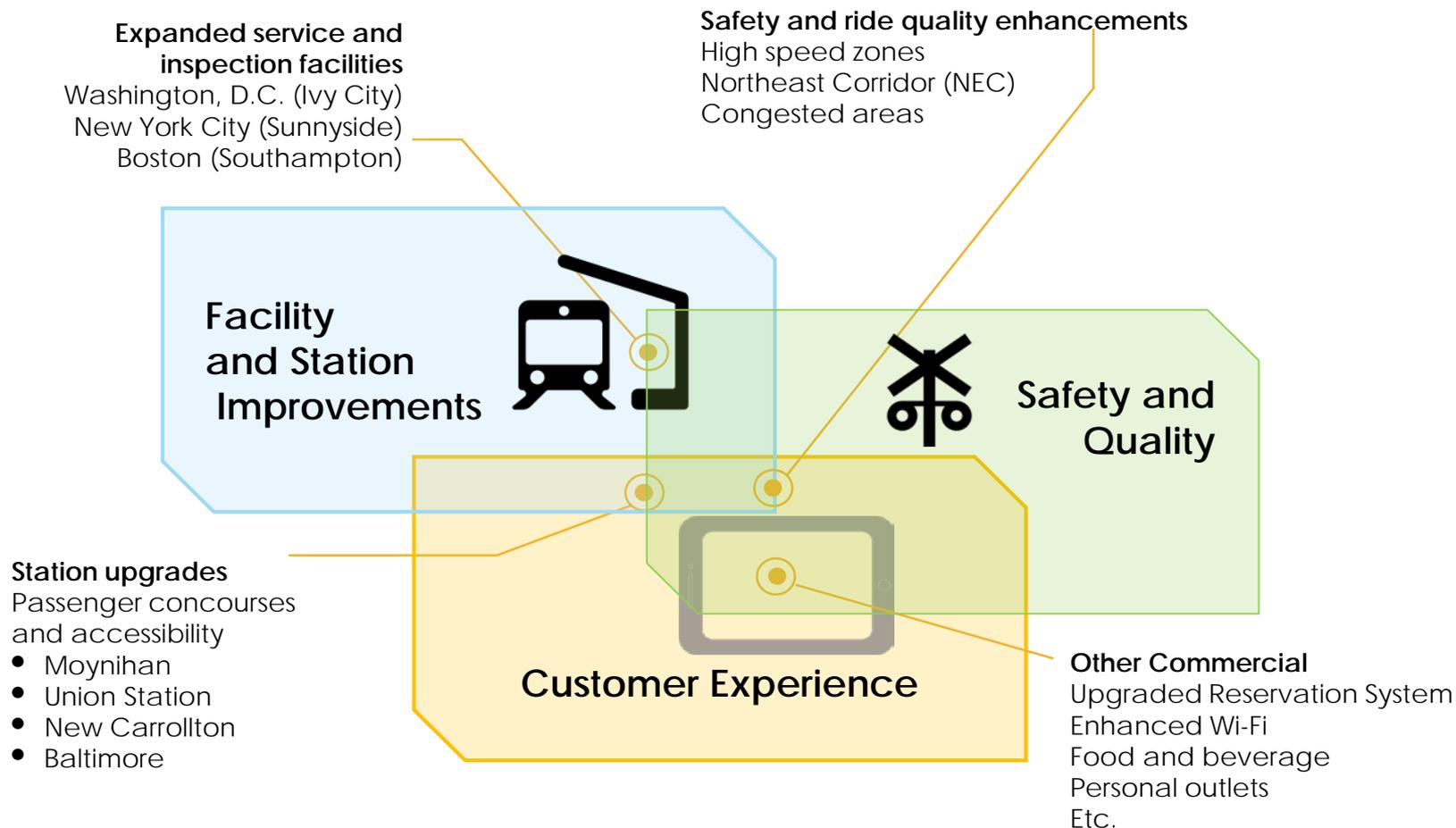


U.S. Manufacturing



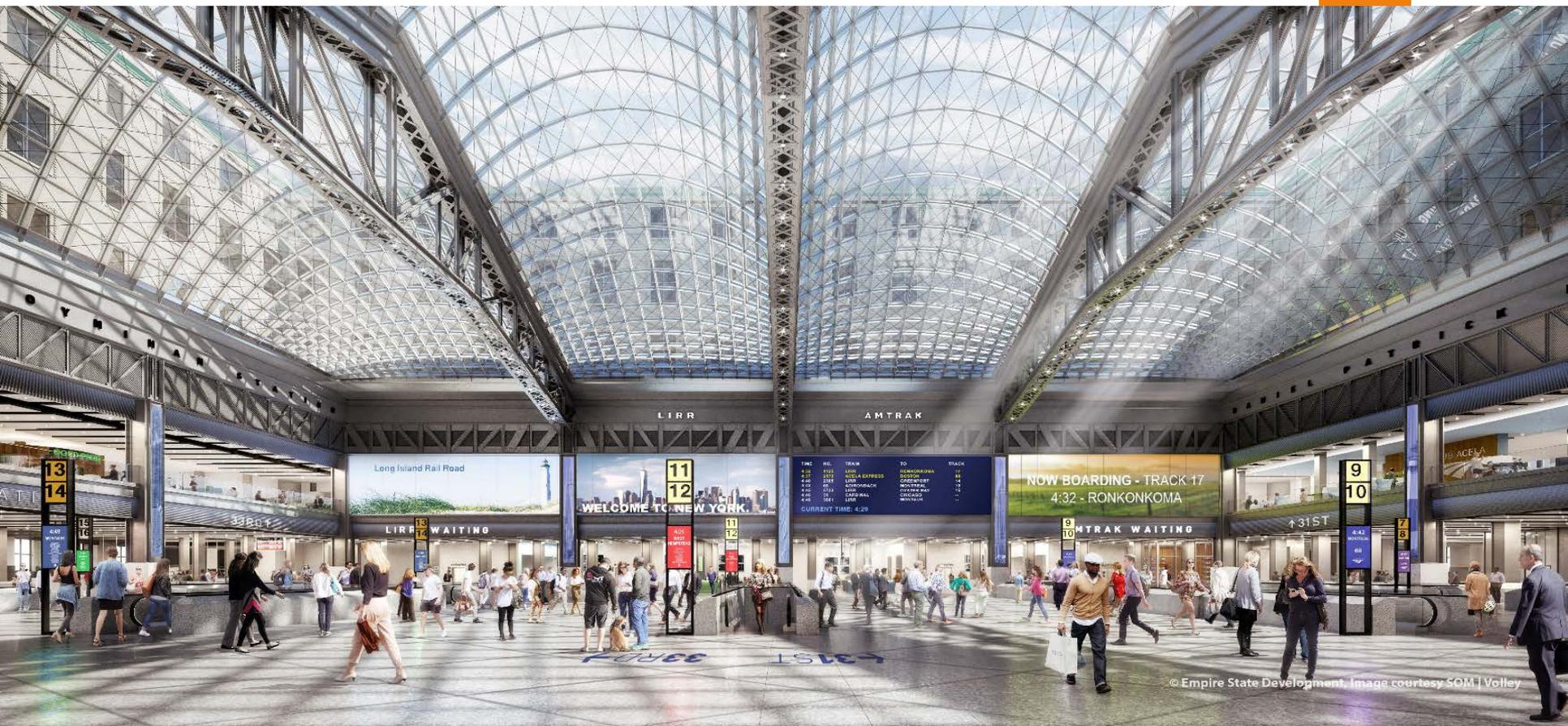
Technical support and spares supply agreement

The Program: Beyond Trainsets





Moynihan Station



Moynihan Station

Concourse Modernization Project: Conceptual Rendering



Washington Union Station Concourse Modernization Project Rendering: Passenger Concourse

Washington Union Station

Concourse Modernization Project: Conceptual Rendering

KGP design studio / GRIMSHAW

© Amtrak National Railroad Passenger Corporation



Washington Union Station Concourse Modernization Project Rendering: Club Acela

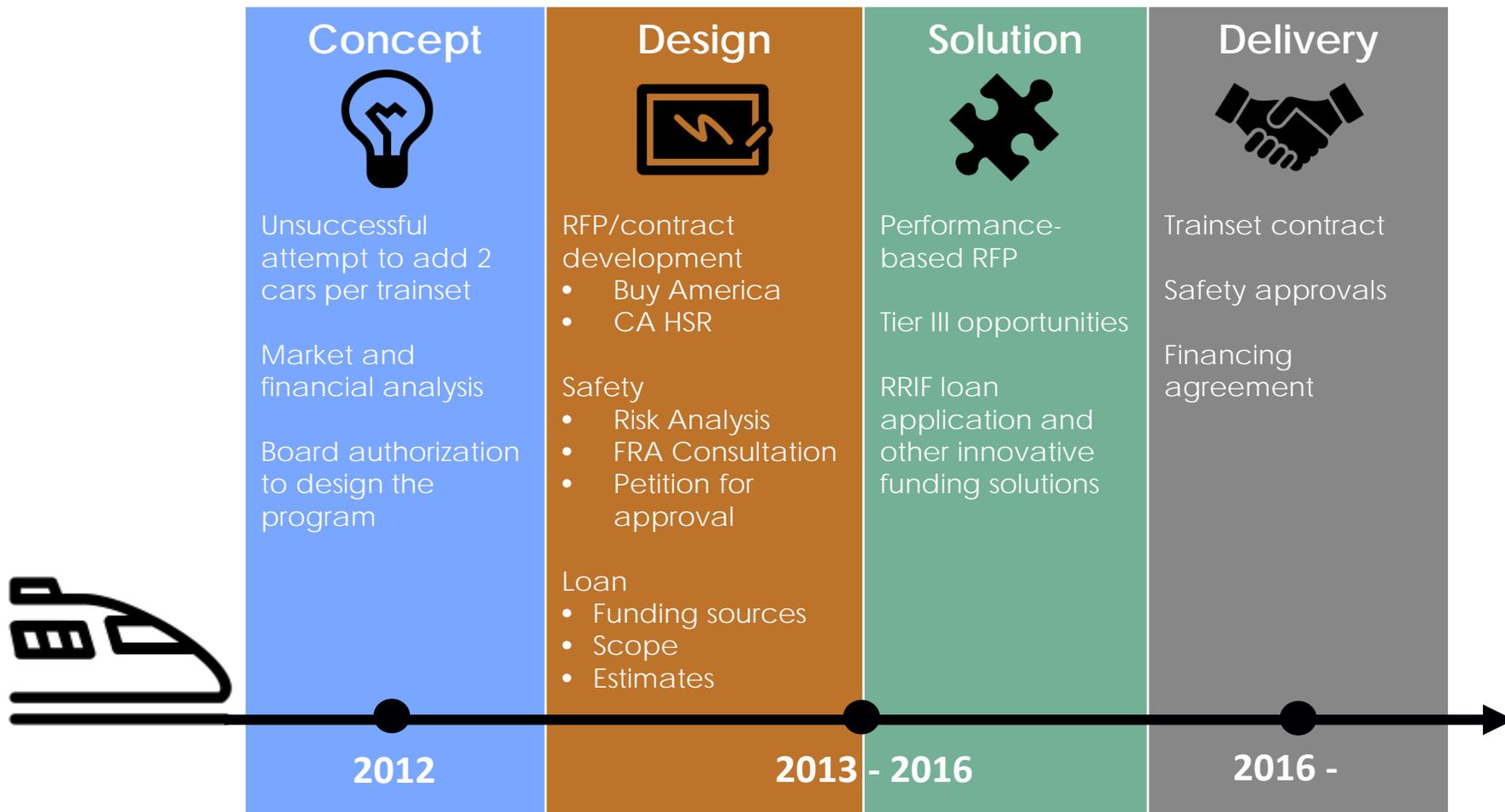
Washington Union Station

Program History

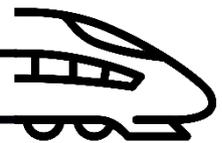
AE 2021 program history

Program superlatives

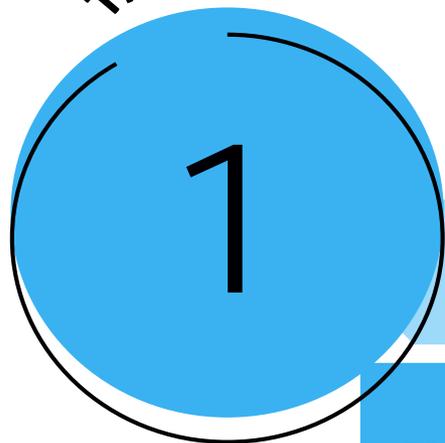
AE 2021 Program History



Program Superlatives

186+ mph **The Fastest** 

The **First**

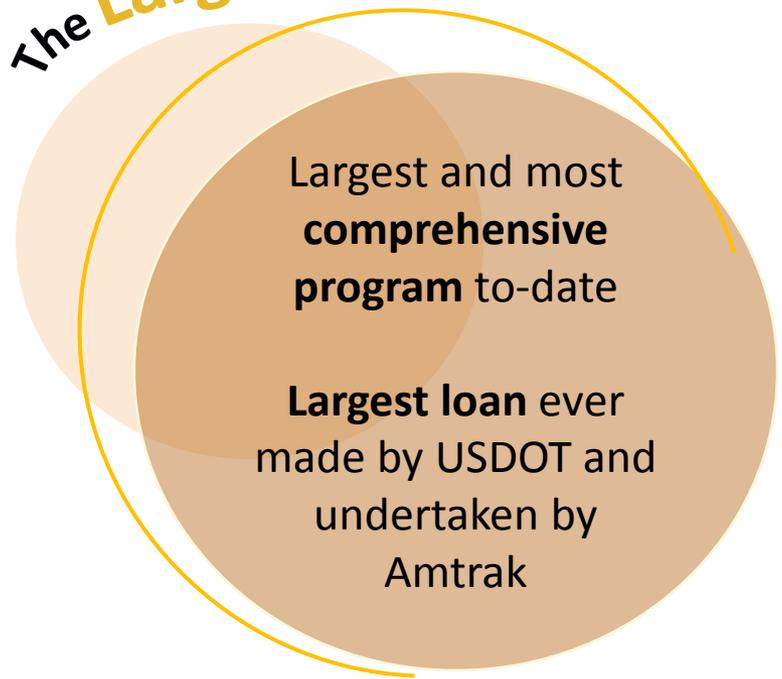


Application of Tier III safety standards

Major application of the PRIIA-Buy America standards

Use of performance-based specifications for a major project

The **Largest**



Largest and most **comprehensive program** to-date

Largest loan ever made by USDOT and undertaken by Amtrak

Where Are We?

Where are we today?

Bringing past lessons forward

Where Are We Today?

100%

Design level complete for improvements for stations serving NYC and DC

Service and inspection facility design

60%

Intermediate

Trainset design reviews are completed

Accessibility design of the trainset in progress

Trainset Manufacturing Initiated



Integrated Master Schedule

Bringing Past Lessons Forward

▶ Past lesson

- ❑ **Stakeholder communication:** No substitute for good and frequent communication with the lender and safety regulator (USDOT/FRA). The same applies to suppliers/contractors
- ❑ **RFP/contract strategy:** Performance-based specifications shift risk
- ❑ **Project management investment:** Complex projects require dedicated project management resources
- ❑ **Monitoring and controlling:** Project risks and schedules need to be identified and managed throughout the project until completion

▶ Bringing it forward

- ✓ **Better alignment:** The trainset contract and TSSSA are managed by a dedicated and co-located project management office (PMO)
- ✓ **Stronger project management standards and practices:** Enterprise Project Management Office (EPMO) established to bring a standard approach to project management to all Amtrak project delivery
- ✓ **Oversight and project monitoring:** EPMO established the AE 2021 PMO to lead the overall program implementation through the successful relaunch of Acela Express

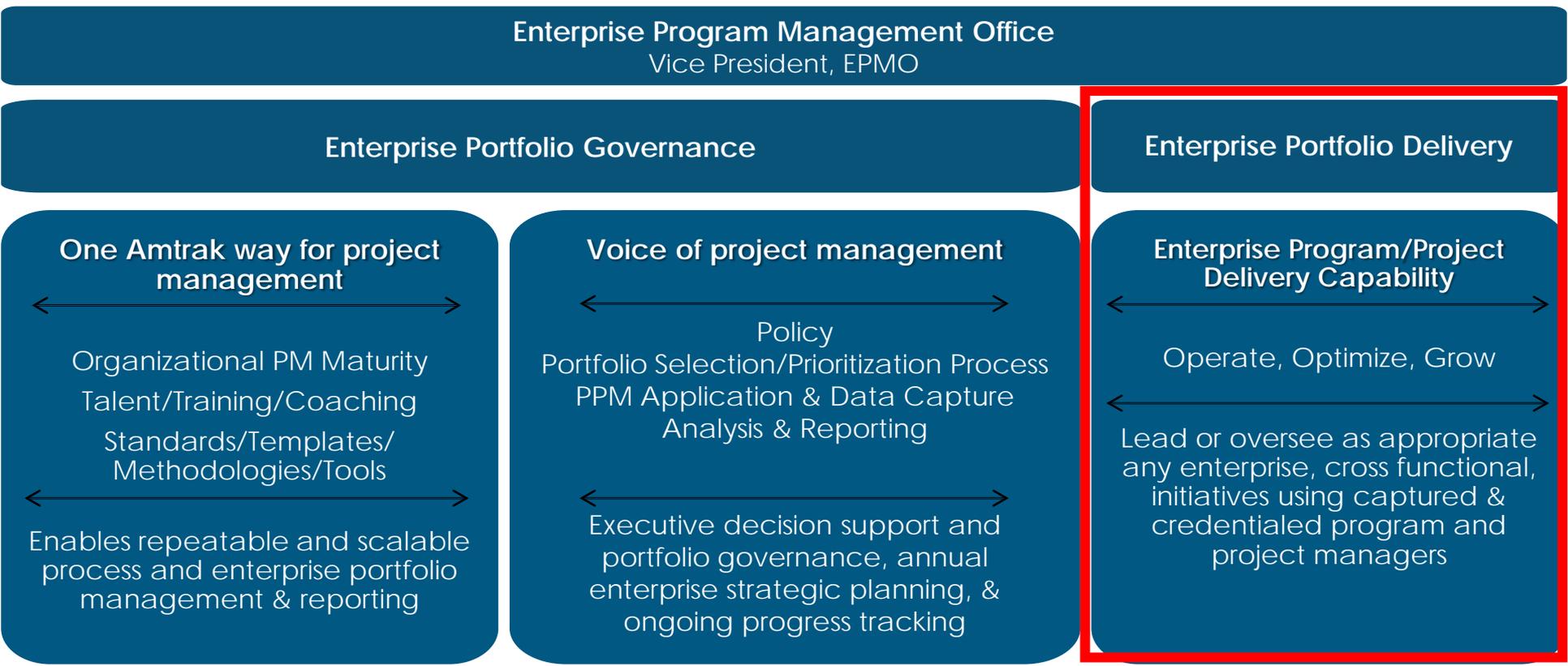
Role of Amtrak EPMO

What is it?

How does it work?

Enterprise governance

What is it?



AE2021 Program

How Does It Work?

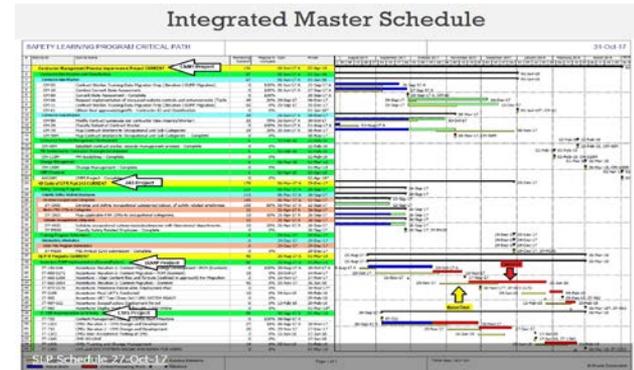
Enterprise Portfolio

Data-driven decision-making

One Amtrak Way

Training

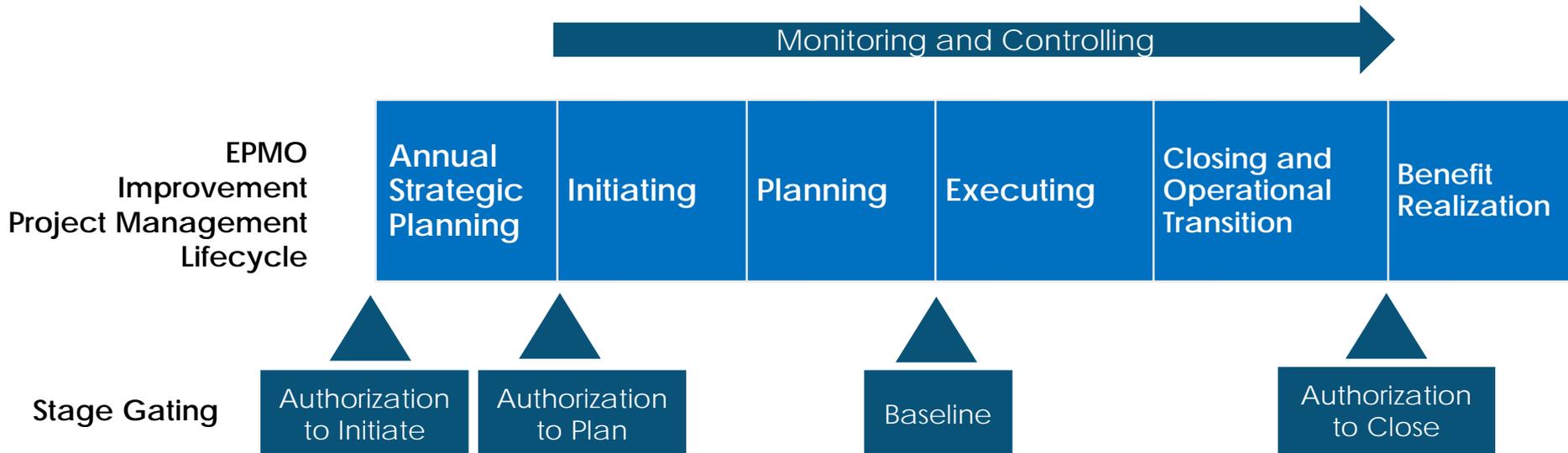
Organizational Alignment



Department	Project Name	% Comp	Finish	Key Performance Indicators				Variance		
				Project	Schedule	Work	Cost	Schedule	Work	Cost
Engineering	Network Optimization Design and Software Development	71%	12/5/13	●	●	●	●	0	0	\$0
	Develop a Ledger Tracking System for Nevada	68%	1/28/14	●	●	●	●	0	0	\$37
	Tacoma System Risk Design and Development	61%	2/14/14	●	●	●	●	-45	-155	-\$14,843
	Road-Only Controller	5%	3/20/14	●	●	●	●	22	117	\$10,775
	Business Impact-Expert Tracking System	0%	4/9/14	●	●	●	●	0	0	\$123,500
	Product Deployment and Installation	0%	6/13/14	●	●	●	●	0	0	\$36,000
Develop Saber Tooth Network	85%	2/13/15	●	●	●	●	307	-294	\$61,500	
TOTALS								324	226	\$216,064
IT	Realtime Report Server Usage Statistics	89%	5/9/13	●	●	●	●	0	0	\$105,000
	Storage Planning and Management System	100%	8/5/13	●	●	●	●	0	12	\$1,783
	IT Desktop OS Upgrade	52%	12/2/13	●	●	●	●	0	0	\$0
	Employee Health Care Database	64%	12/9/13	●	●	●	●	0	0	\$0
	Corporate Portal Migration	58%	12/30/13	●	●	●	●	0	0	\$0
	Asset Tracking System Upgrades	79%	1/3/14	●	●	●	●	0	0	\$0
	Tomato Infrastructure Development	70%	1/29/14	●	●	●	●	0	0	\$0
	Suburban API for Drone Flyer	79%	1/23/14	●	●	●	●	0	0	\$114,558
	Develop Homebased Interface	83%	2/5/14	●	●	●	●	36	230	\$17,030
	Tracking System for Finance	48%	2/20/14	●	●	●	●	54	-194	-\$24,350
	Capital Inventory Database	50%	3/11/14	●	●	●	●	-3	-48	\$9,277
	Network Firewall Redesign	7%	3/24/14	●	●	●	●	0	0	\$0
Corporate Network Architectural Design	17%	3/31/14	●	●	●	●	0	-19	-\$1,550	
TOTALS								87	78	\$218,188



Enterprise Governance



Project Types	Enterprise Definitions
Improvement	An Improvement Project / Program is a temporary endeavor with defined scope, that enhances the asset functionality or adds new asset or capacity.
Maintenance	A Maintenance Project / Program is a reoccurring effort that takes place in specific time intervals, which is required for continuous ongoing operation of an asset or capability

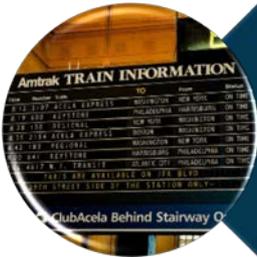
Organizing for Successful Outcomes

Program success criteria

Program complexity rating

Readying the organization for execution

Program Success Criteria



Increase net commercial benefit of Acela by increasing ridership capacity while also addressing growing obsolescence of current equipment



Create same or better customer experience (safety, reliability, onboard experience, etc.)



Eliminate opportunity for service disruption during commissioning period

Complexity Rating



Gray (Low)
Score < 8

Blue (Moderate)
Score 8 to 12

Purple (High)
Score 13 to 16

Orange (Mega)
Score 17 to 20



Total Project Cost:

<\$5M
\$5 - <\$50M
\$50 - <\$100M
≥\$100M



Scope & Schedule:

Deadlines and Impacts
Technical Difficulty
Scope Flexibility
Location and ROW Proximity



Organizational & Resource:

Involved departments
System/Data interfaces
Similarity to other projects
Procurement needs



Overall Project Risk:

Low
Moderate
High
Very High



Stakeholder Engagement:

Executive visibility
External Stakeholder Exposure
Impacted Amtrak Departments
Impacted Customers
Stakeholder Cohesion

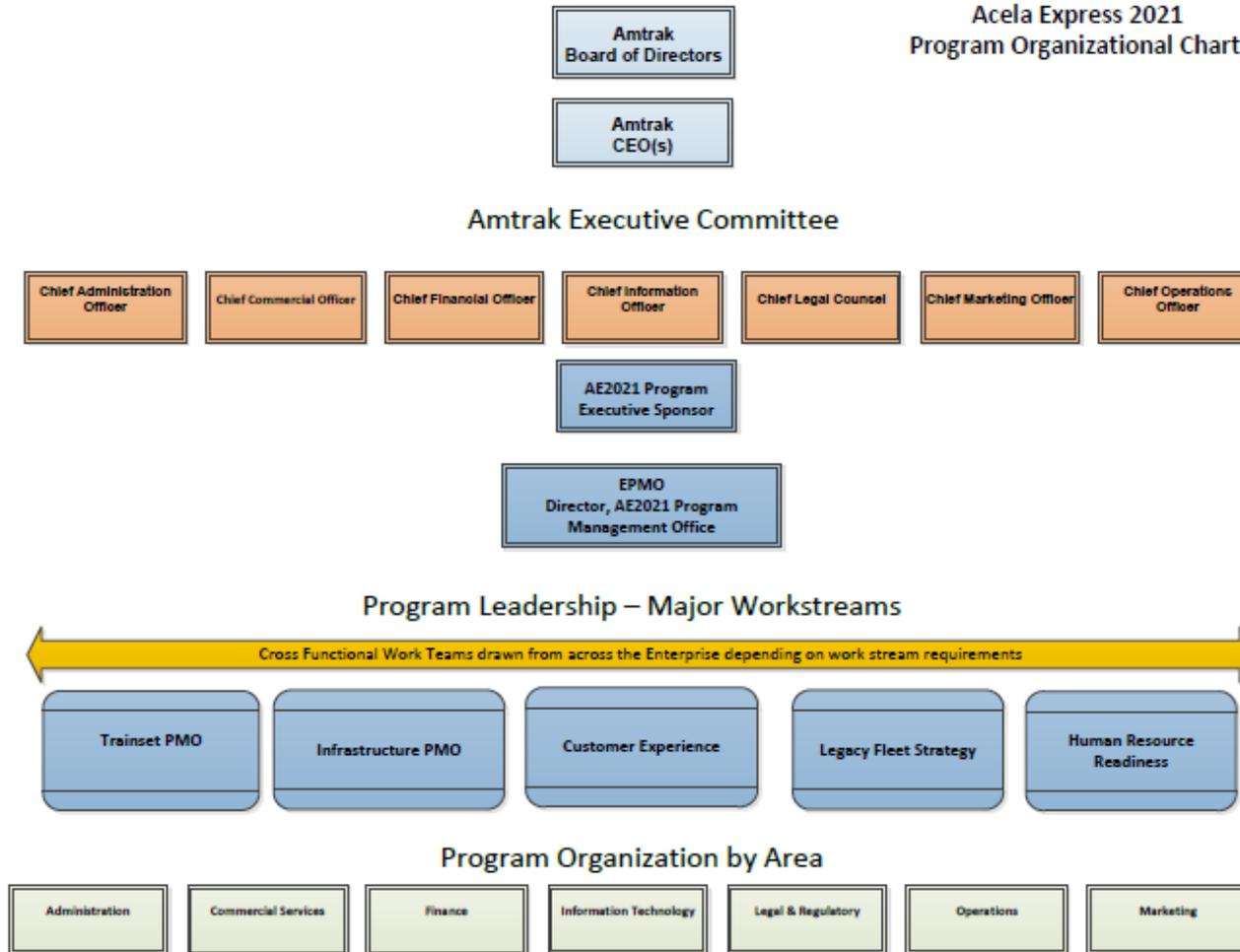
Complexity Score weights and adds each category rating to create score of 5 to 20

Readying the Organization for Execution

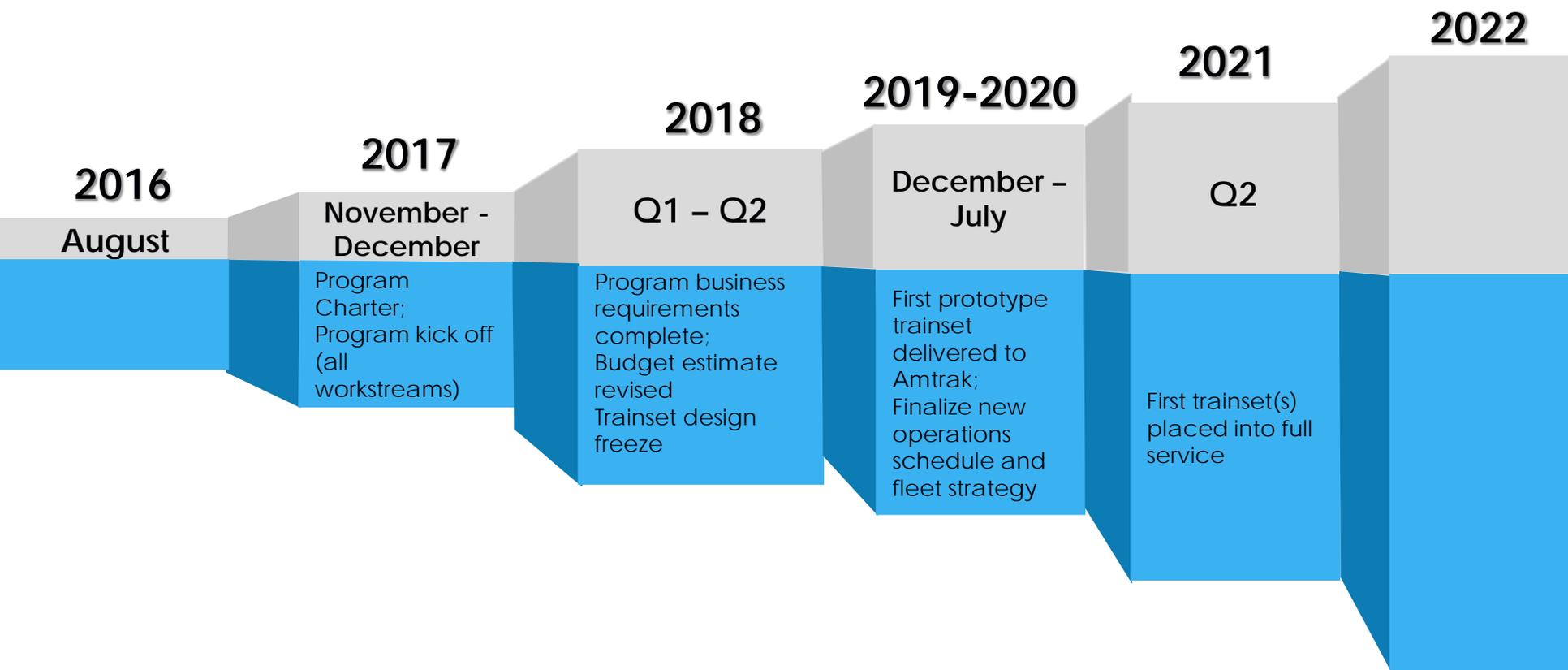
Unpack	Success criteria into deliverables and key performance indicators (KPIs)
Formalize	Program roles and governance in alignment with "One Amtrak Way"
Unite	Work-in-progress and new workstreams and bring together for enterprise mobilization
Assemble	The program implementation delivery team

AE 2021 Program Team

Acela Express 2021
Program Organizational Chart



Program Timeline



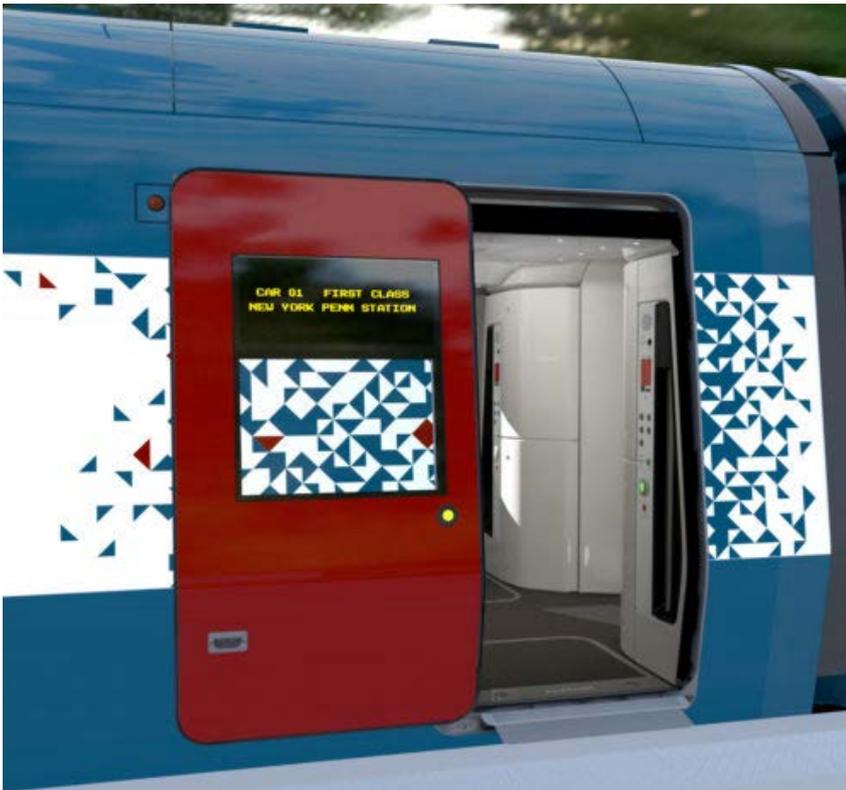
References to business quarters (Q) are tied to the Amtrak Fiscal Year (10/1 – 9/30)

Closing Comments

Questions & Answers

Securing our future

Questions and Answers



DO YOU
HAVE A
QUESTION?

Securing Our Future(Video)



2017

FRA Rail Program Delivery

Meeting

Thank you!

Mark Yachmetz

Vice President, NEC Business Development

Mark.Yachmetz@Amtrak.com

202-906-2730