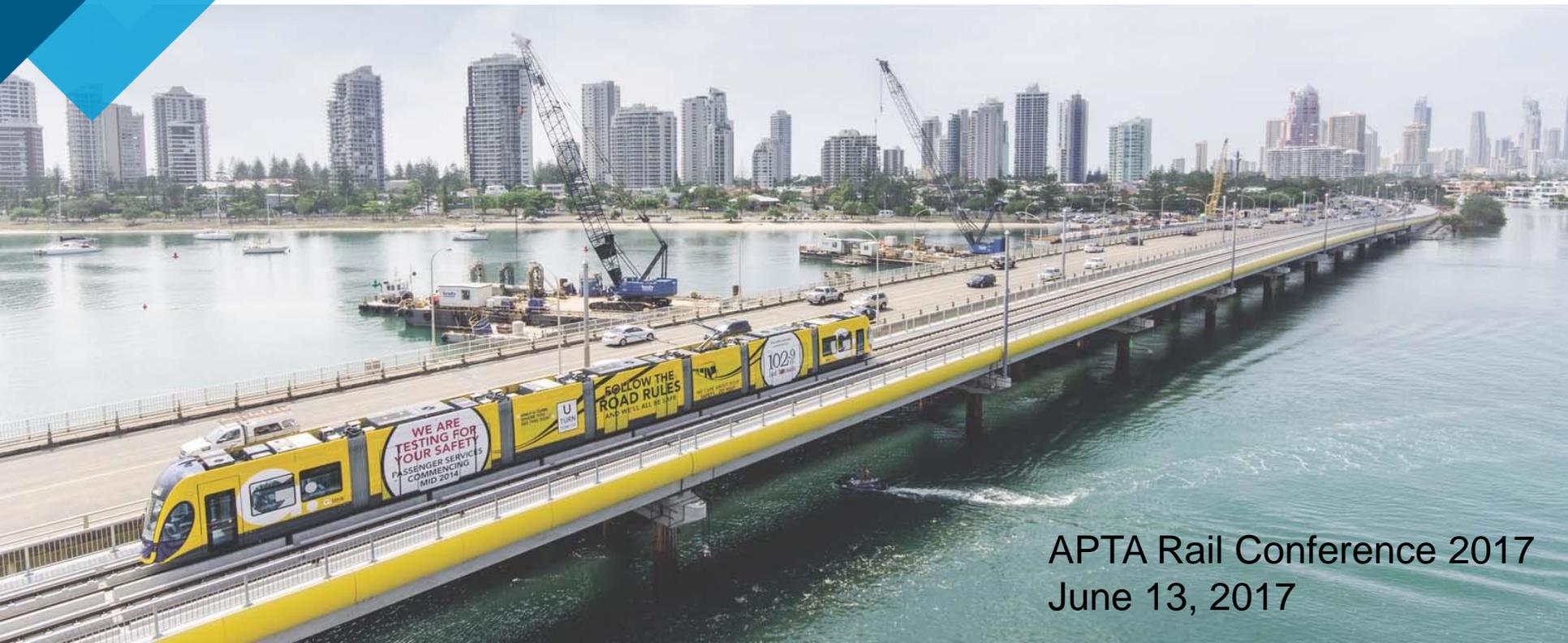




SNC • LAVALIN

FTA Safety and Security Certification Practical Solutions to a Complex Process

Timothy Borchers
Yolanda Favors



APTA Rail Conference 2017
June 13, 2017

What is Safety and Security Certification (“SSC”)?

49 CFR 659

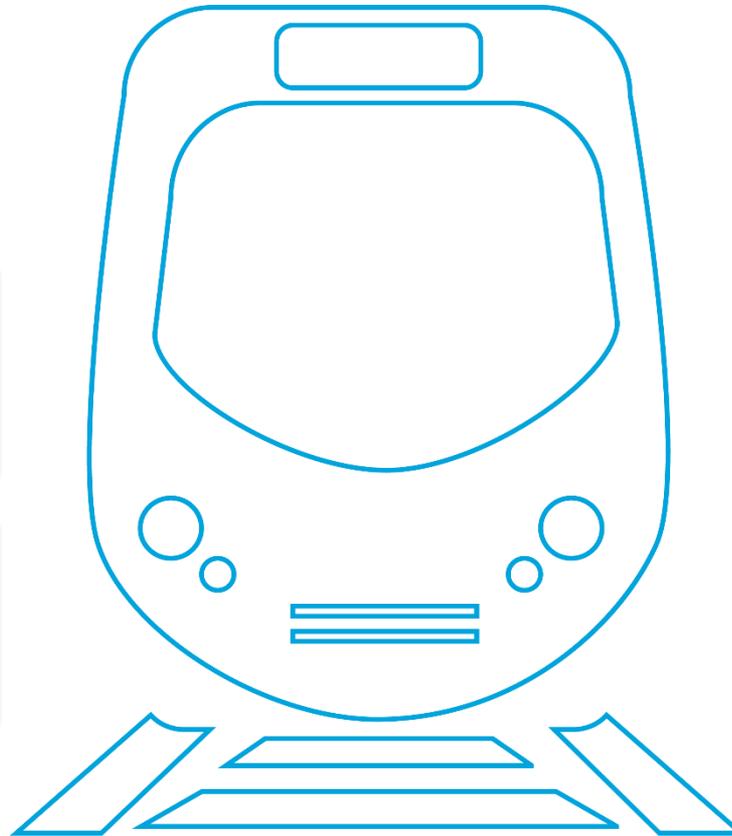


Developing Regulations

Public Transportation
Safety Program
49 CFR Part 670

National Public
Transportation Safety
Plan 49 CFR Part 673

Public Transportation
Agency Safety Plans
49 CFR Part 673



State Safety Oversight
Program
49 CFR Part 674

Public Transportation
Safety Certification
Training Program
49 CFR Part 672

Understanding the SSC Process



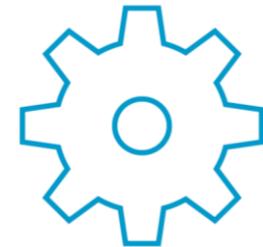
Design
Phase



Construction
Phase



Testing
Phase



Pre-revenue
Operations



Tactical Methods to Facilitate an Effective/Timely SSC Process

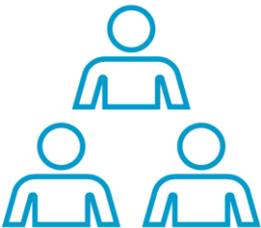
Political Environment/Strategic Plan



› Know Supporters and Opponents



› Understand Legislative Environment and Process



› Know Real Decision Makers

Staff Technical Capacity to Navigate SSC

- › Evaluate Personnel Resources and Necessary Training



Face-to-Face Discussions with Agency Key Personnel

- › Develop a Rapport
- › Understand Agency's Operational and Financial Limitations
- › Develop Immediate and Long Term Objectives
- › Understand Available vs. Required Resources



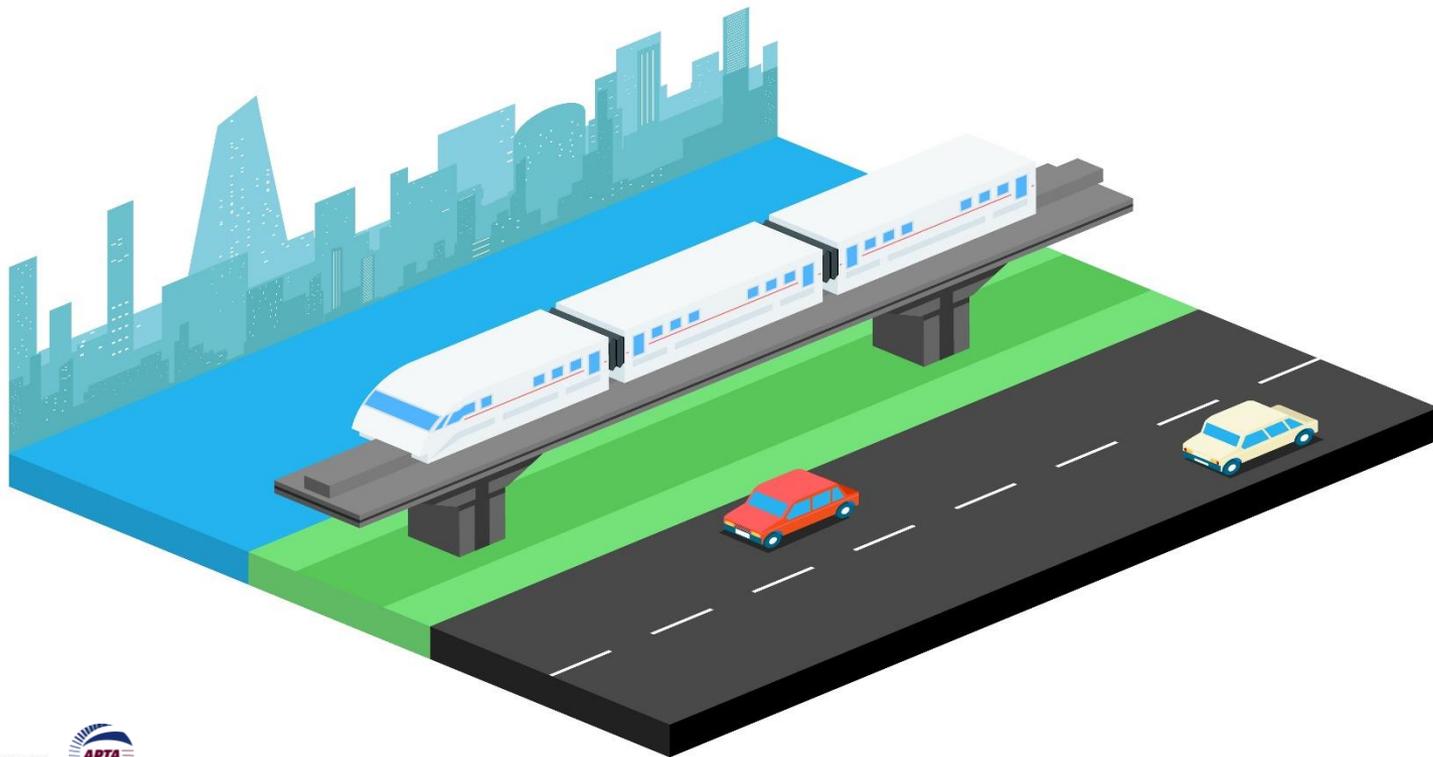
Evaluate Current Status of SSC Process

- › Know Stage in SSC Process and Required Tasks for Revenue Service



Physical Inspection of System's Infrastructure and Vehicles

- › Know Actual State of Infrastructure and Required Repairs, Updates, and Certifications for Revenue Service

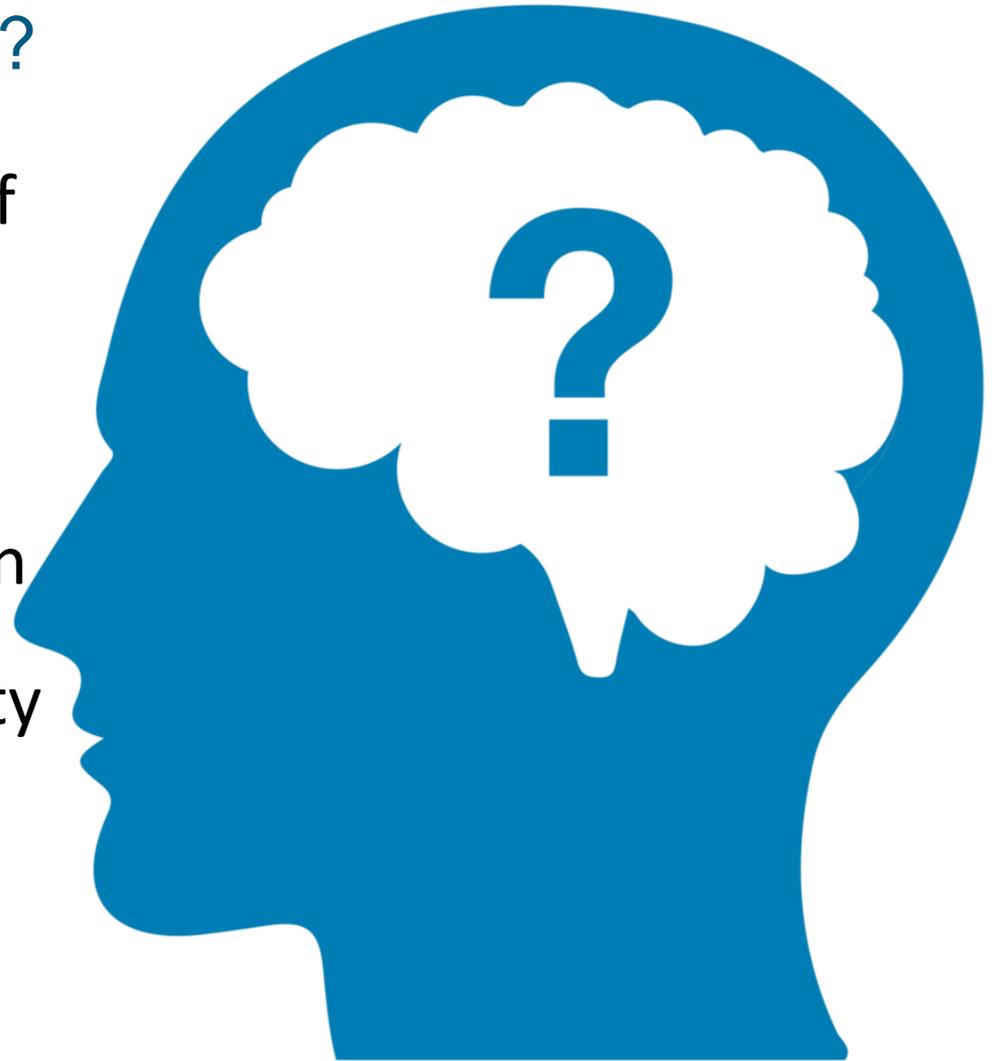




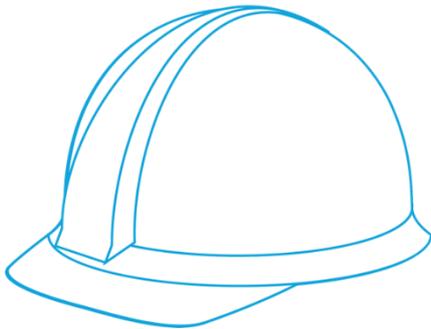
Are You Selecting the
Right SSC Project Team?

What Considerations are You Taking in Account?

- › Size and Complexity of the System
- › Agency Resources
- › New Start or Extension
- › Staff Technical Capacity



Are Your Team Members Wearing the Right Hat?



Executive
Management



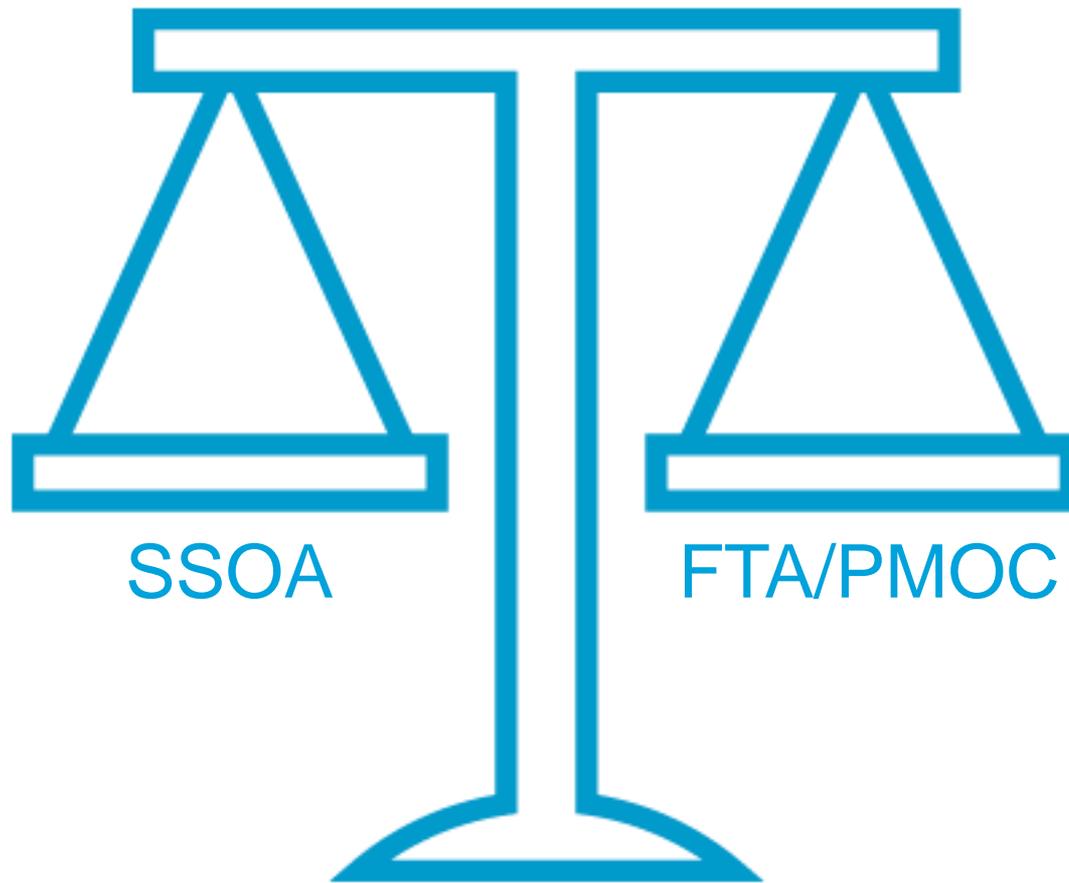
First
Responders



Regulators



Are You Considering the Regulators?



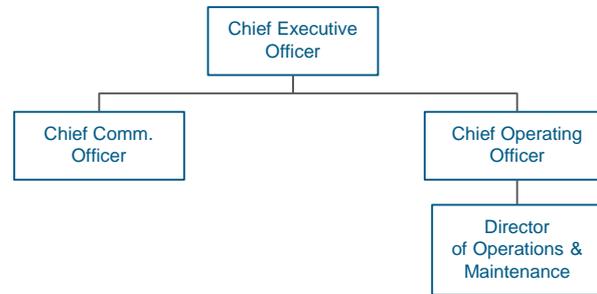
Recommended Project Team Members



- › Launch Manager
- › Compliance Attorney
- › Chief Engineer
- › Prominent FTA Attorney
- › Security Specialist
- › Scheduler
- › Frontline Personnel
- › Document Control Manager/Technical Writer (QA/QC)

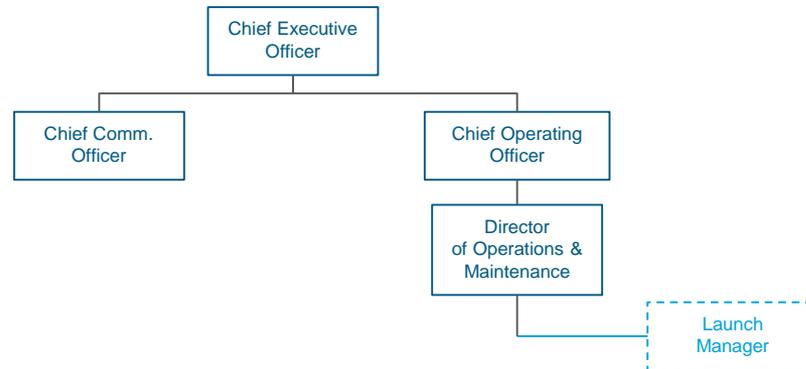
Effects of Adding Key Positions

Pre-Revenue Organizational Chart



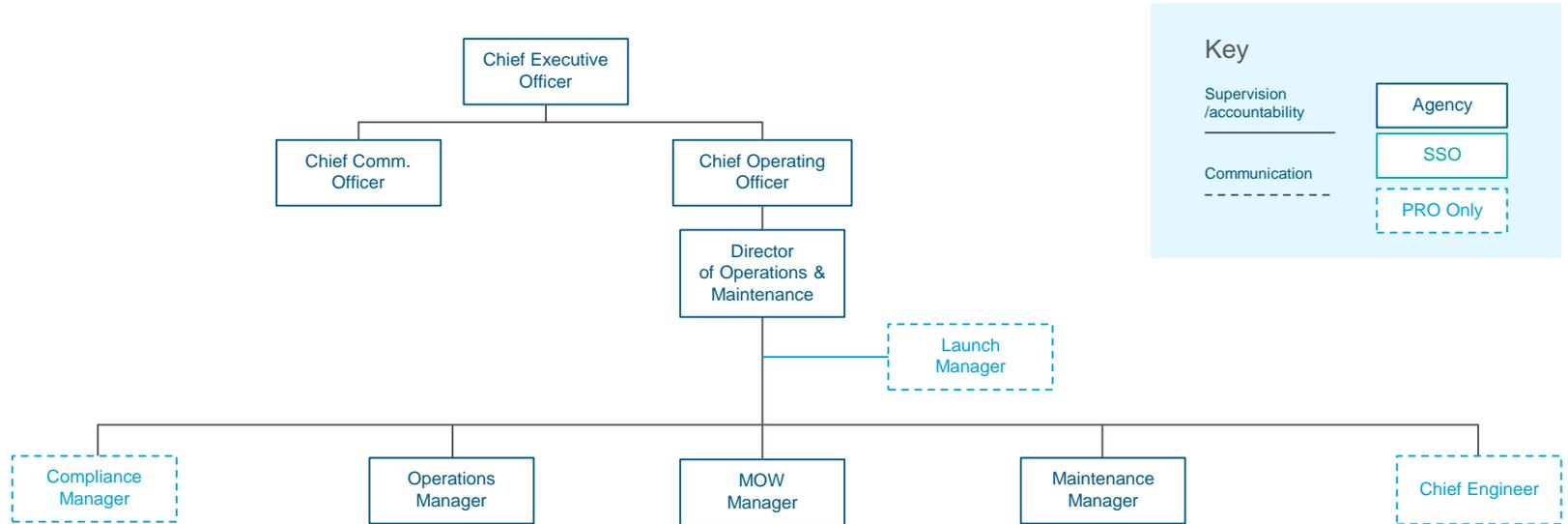
Effects of Adding Key Positions

Pre-Revenue Organizational Chart



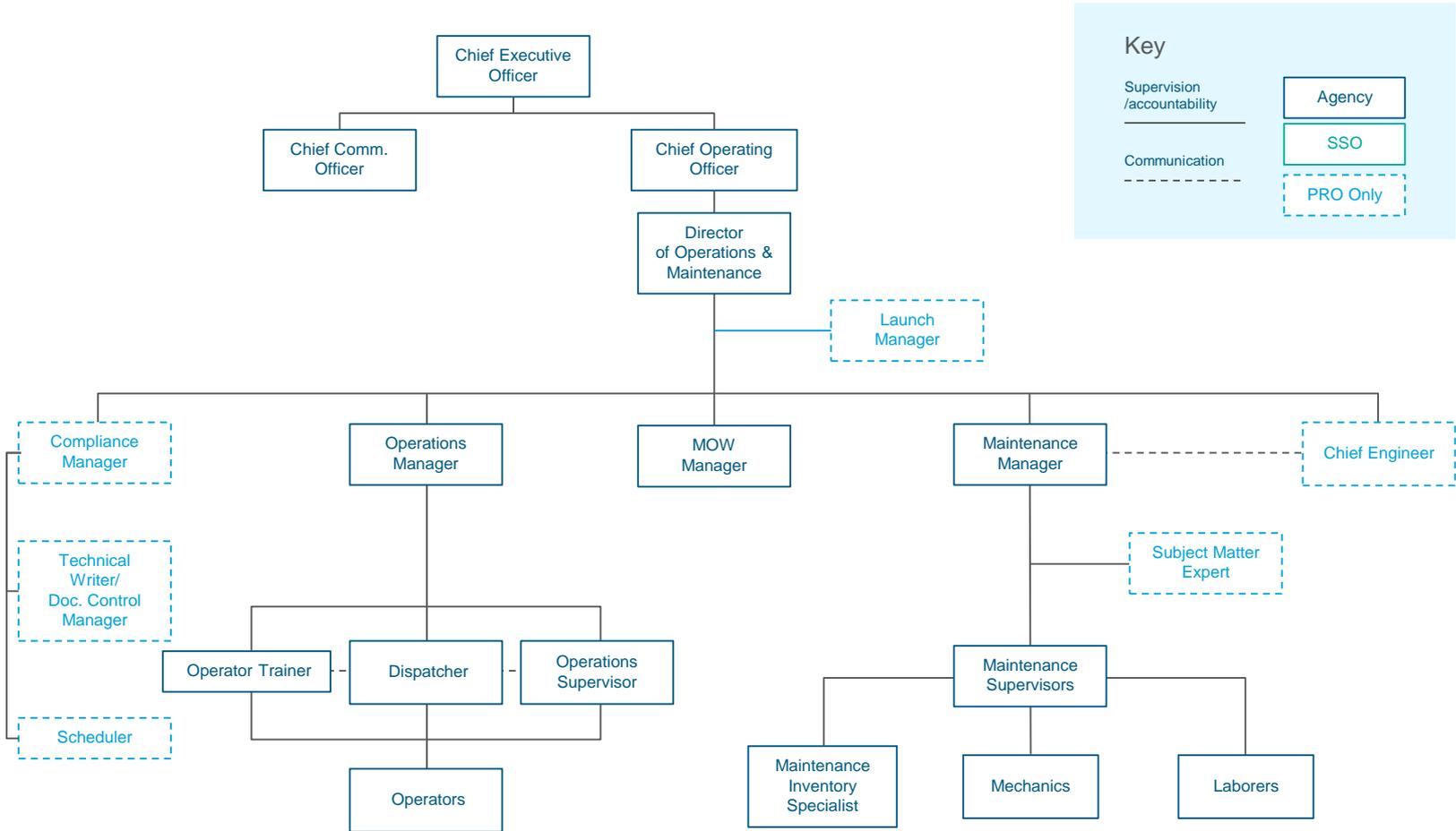
Effects of Adding Key Positions

Pre-Revenue Organizational Chart



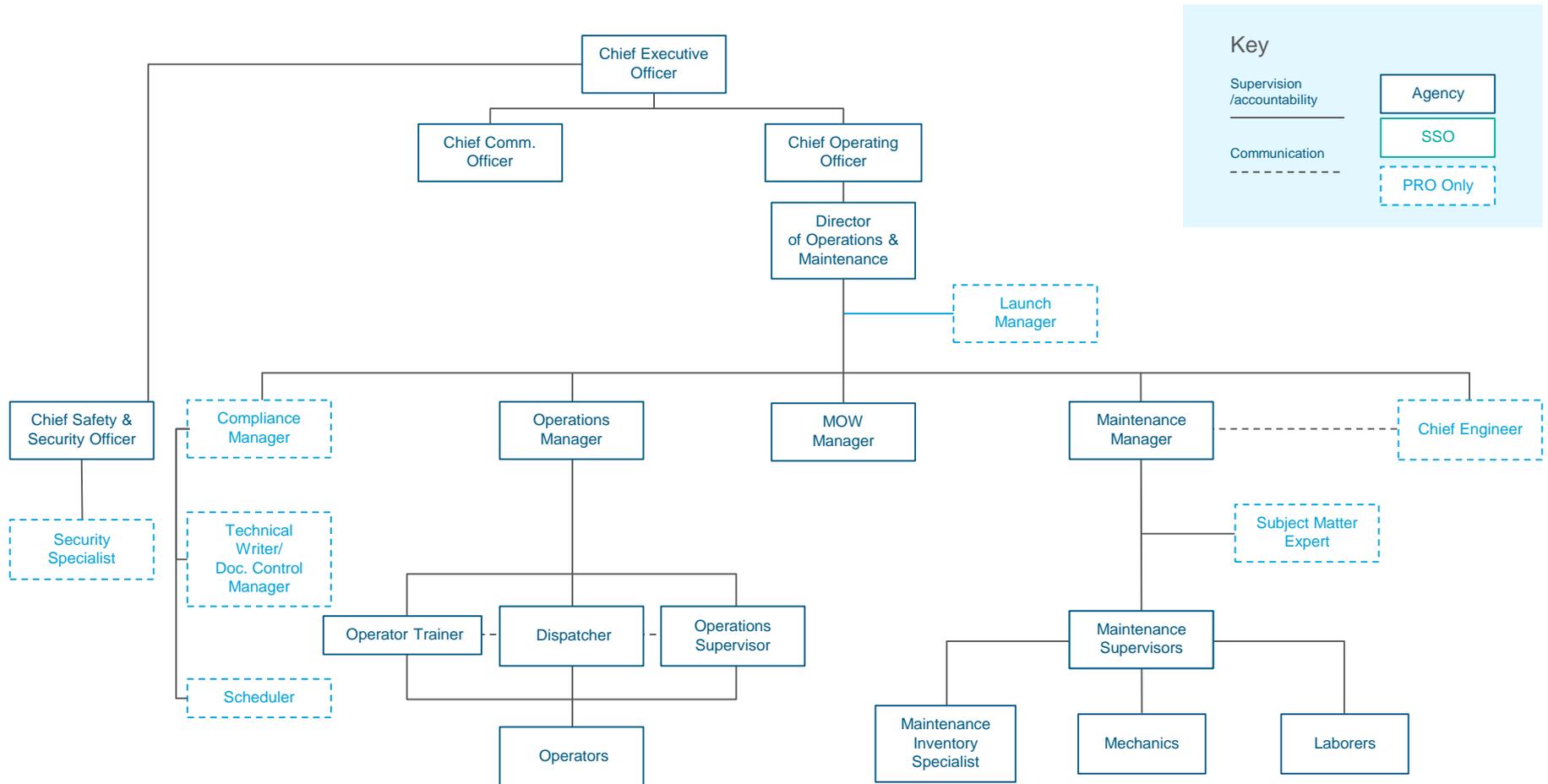
Effects of Adding Key Positions

Pre-Revenue Organizational Chart



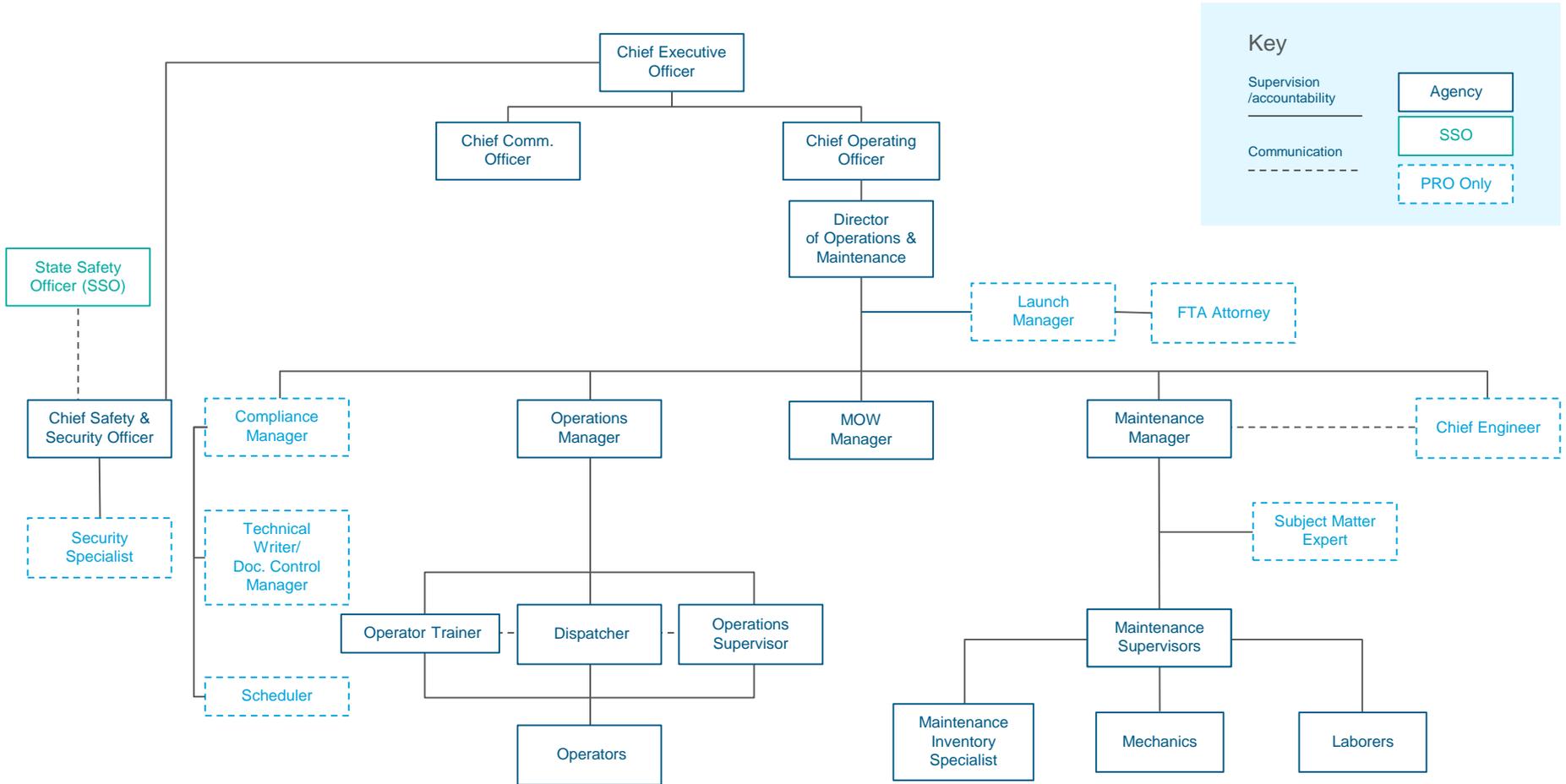
Effects of Adding Key Positions

Pre-Revenue Organizational Chart



Effects of Adding Key Positions

Pre-Revenue Organizational Chart





How Do You Structure Your Committees?

Committee Checklist

Development

- ✓ Did you develop committees pursuant to the SSMP?
- ✓ Did you develop committees unique to your system?
- ✓ Do have the essential committee members?
- ✓ Do your committee members have technical capacity?
- ✓ Did you develop an efficient meeting schedule?

Procedures

- ✓ Did you create a charter and bylaws?
- ✓ Do you have detailed agendas and minutes?
- ✓ Do committee members understand the approval process?
- ✓ Do your committee members understand their duties and responsibilities?
- ✓ Did you train your committee members on the SSC process?

Committee Structure

Rail Activation Committee	Safety and Security Review Committee	Fire Life Safety Committee	SSO Safety Coordination Committee
Launch Manager (Chair) CSSO Rail Director Compliance Manager Chief Engineer SME	Launch Manager CSSO (Chair) Rail Director Compliance Manager Chief Engineer SME	Launch Manager CSSO (Chair) Rail Director Compliance Manager Chief Engineer SME	Launch Manager (Chair) CSSO Rail Director Compliance Manager Chief Engineer SME
Operations Manager Maintenance Manager MOW Manager	Operations Manager Maintenance Manager MOW Manager Security Specialist		
		Police Fire Alignment Hospitals	SSO

* Document Control Manager and Scheduler attend all meetings.

Benefits of Meeting Recordings



Benefits of Meeting Recordings

ON THE MOVE RAIL PROJECT

MEETING GROUP: _____
 DATE: _____
 TIME: _____
 FACILITATOR: _____
 LOCATION: _____

MINUTES

Participants:					
	Name	Company	Title	Phone	Email

	Agenda Item	Presenter
1.		
	.	
	.	
2.		
	.	
	.	

Action Items

(Items in red are new entries)

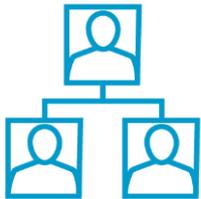
Item No.	Task Description	BIC	Start Date	Due Date	Status/Comments
1					
2					
3					

Tips for Utilizing a Successful Document Matrix and Control System



SSC Documentation

- › Comprehensive record that hazards and vulnerabilities have been identified/addressed



Flowcharts

- › Denotes and manages document approval procedures (QA/QC)



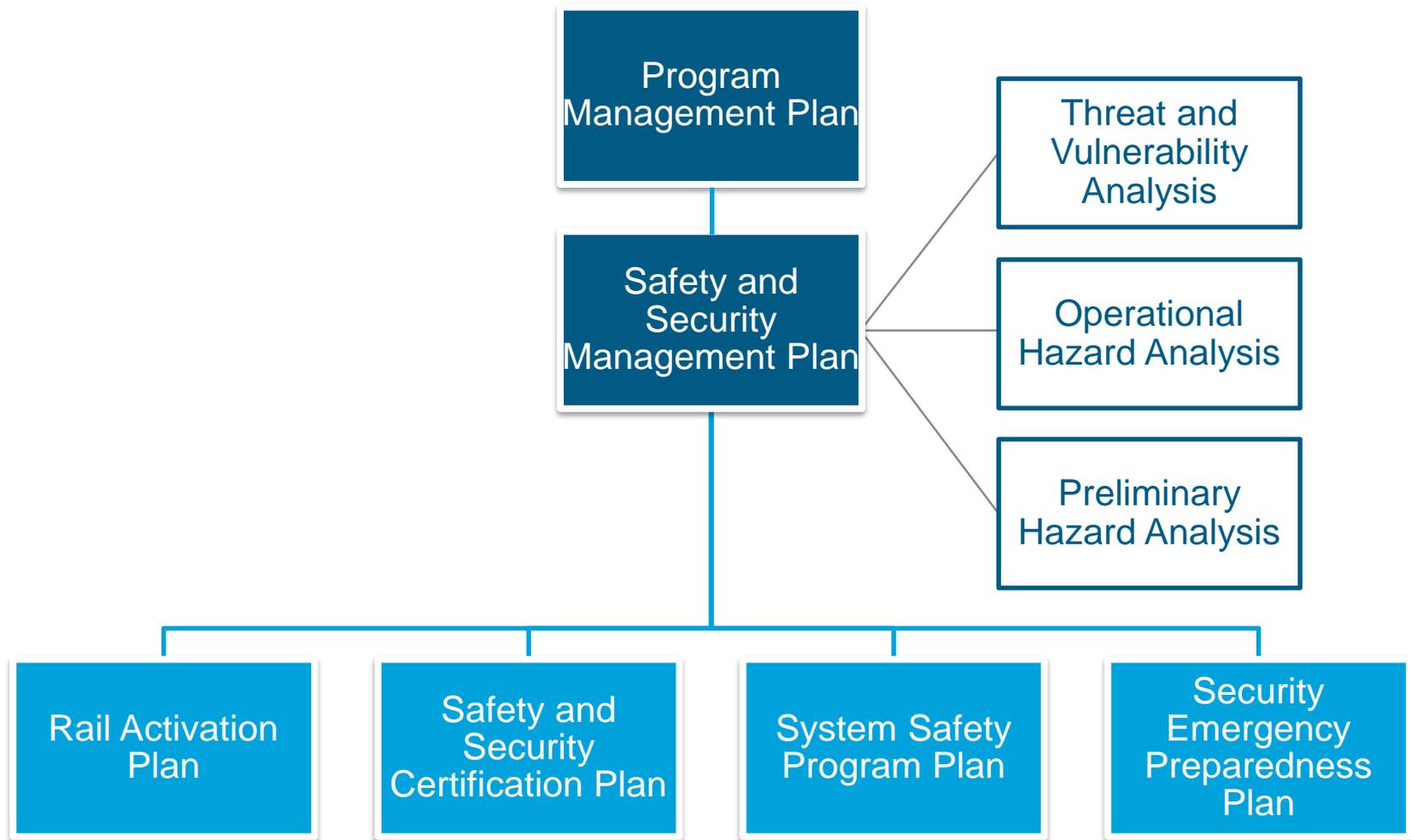
SSO Meetings

- › Encourages full cooperation and coordination with SSO

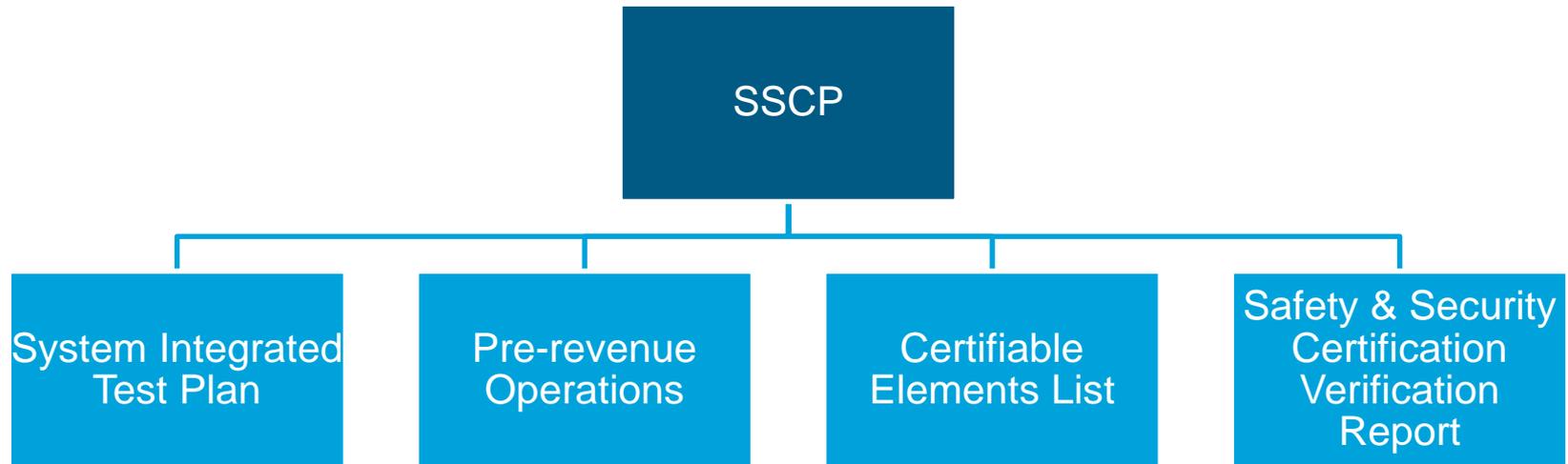
Nine Column Ideas for the Document Matrix



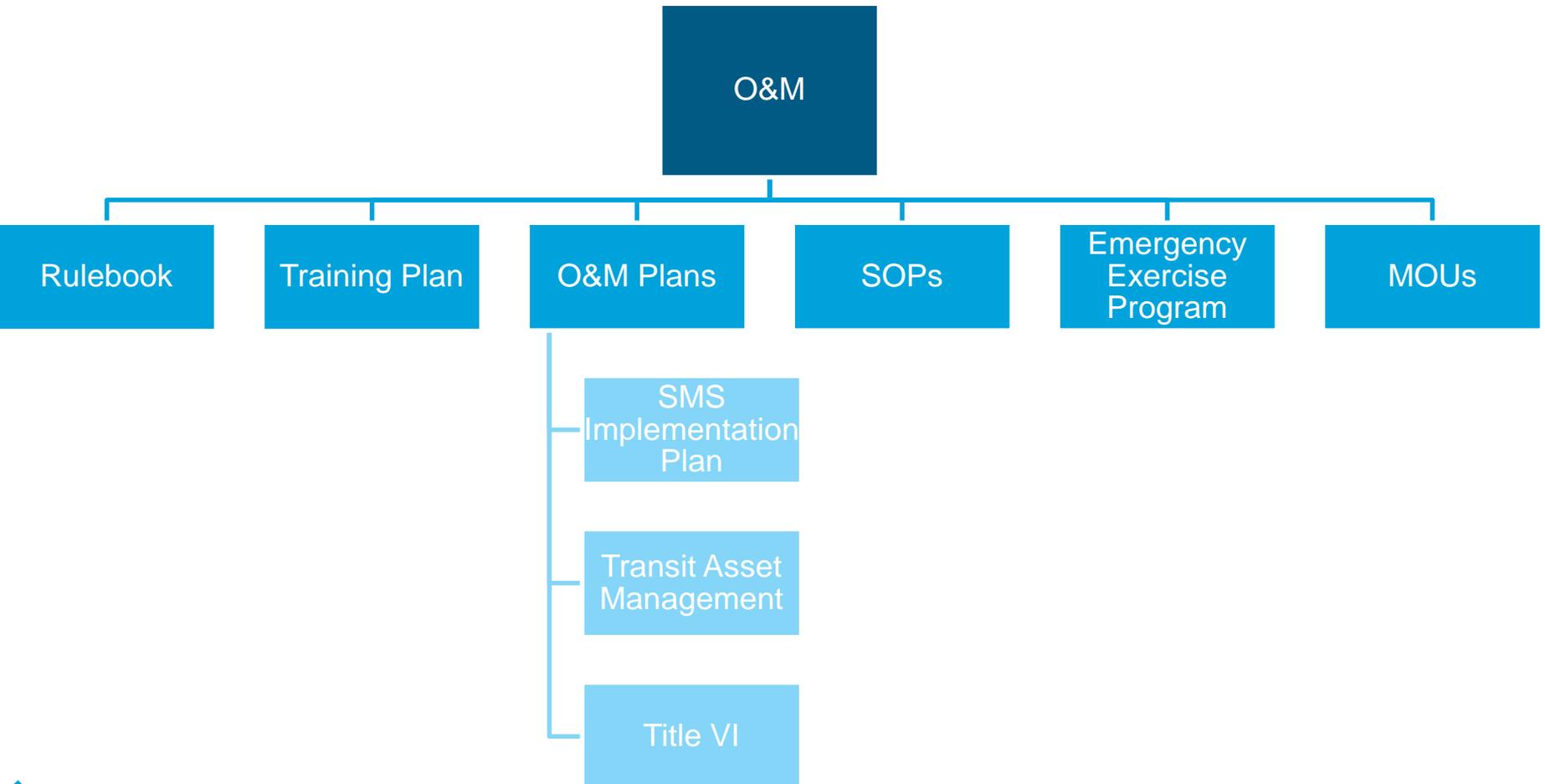
Document Flowcharts Simplify Connections and Relationships



Document Flowcharts Simplify Connections and Relationships

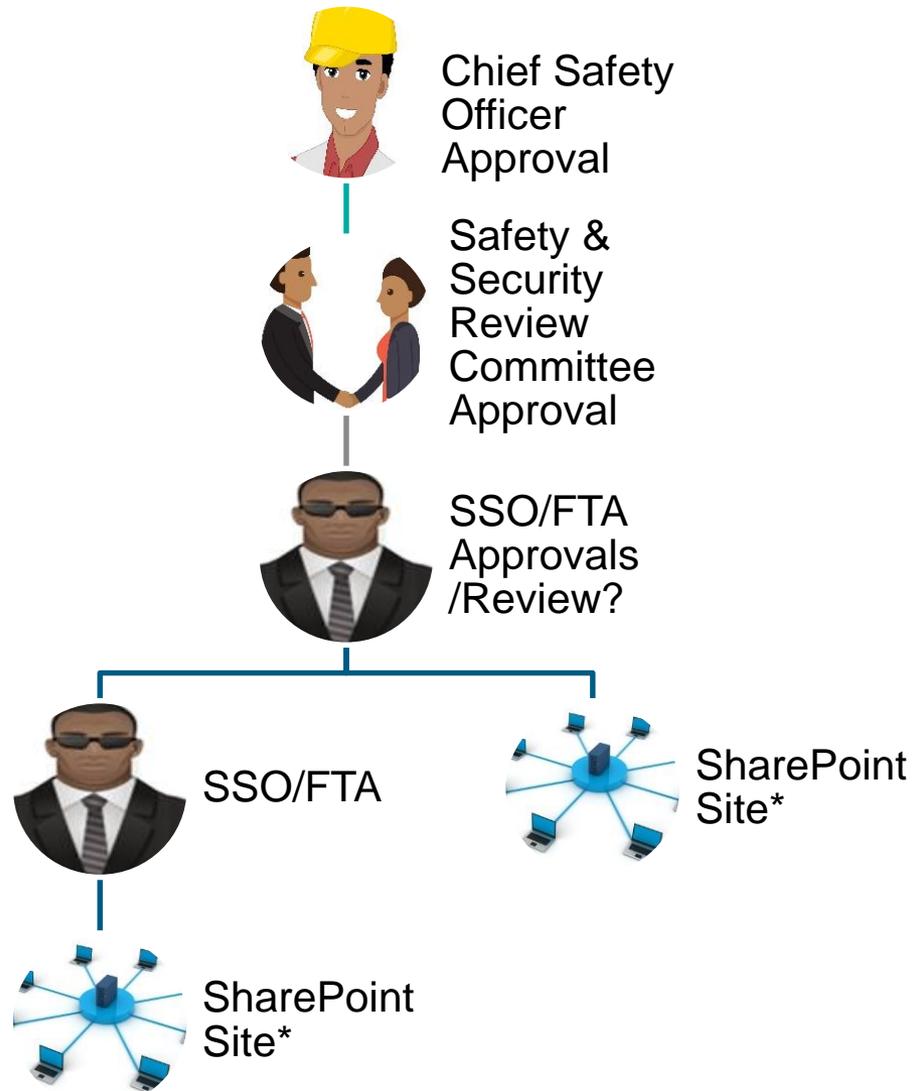


Document Flowcharts Simplify Connections and Relationships

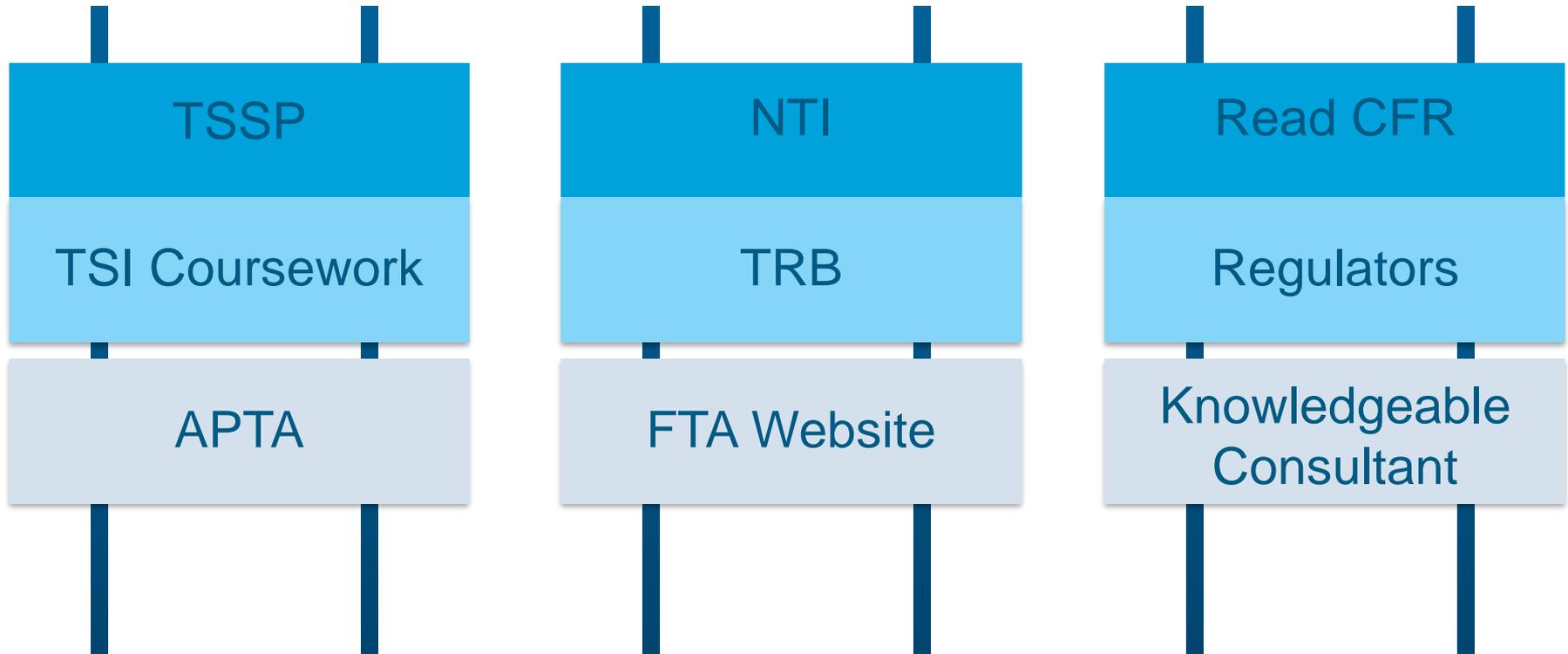


Document Approval Flowcharts

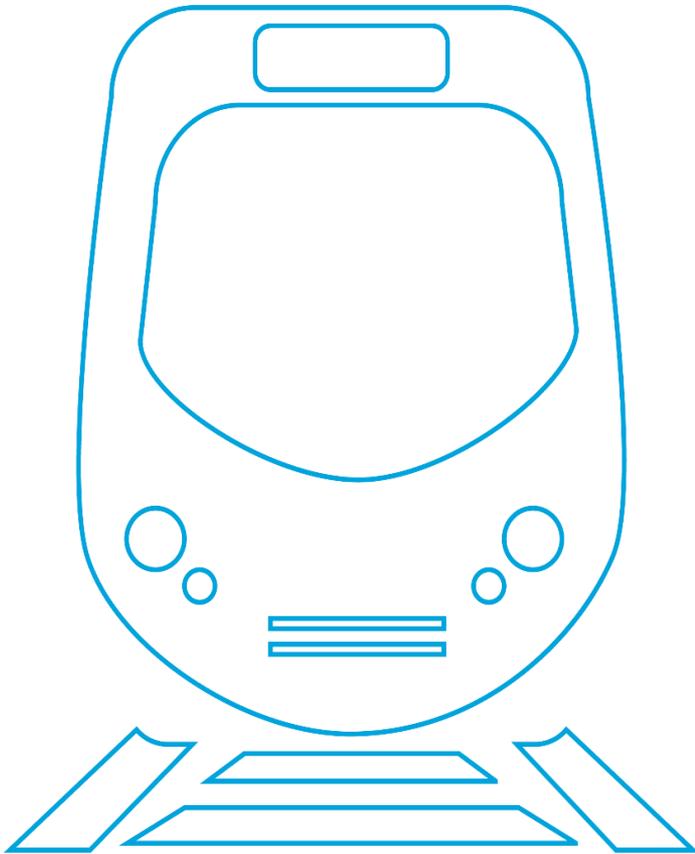
Clarify the Approval Process



How To Become Experts Like Us!!



Feel Free to Contact Us



Timothy Borchers

Principal Consultant

SNC-Lavalin Rail & Transit Inc.

Rail & Transit Engineering

Infrastructure

Phone: +1 813-422-2683

Email: Timothy.Borchers@snclavalin.com

Yolanda Favors, Esq., TSSP

Compliance Manager

SNC-Lavalin Rail & Transit Inc.

Rail & Transit Engineering

Infrastructure

Phone: +1 404-640-2488

Email: Yolanda.Favors@snclavalin.com