Item No. 8c
Meeting Date: July 27, 2021

Communication Enhancement

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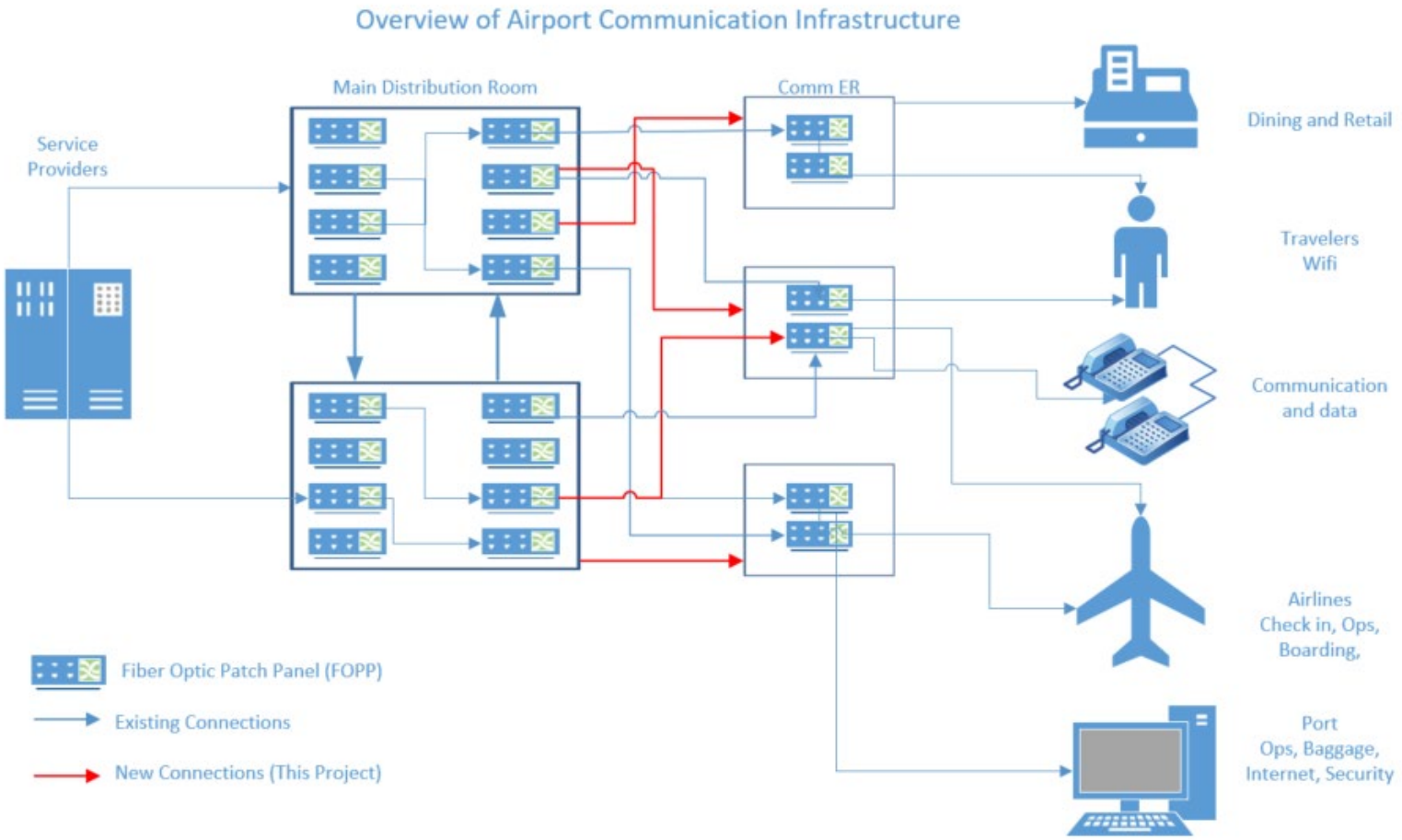
Port of Seattle®

Project Overview

- The Airport is expanding to support the returning travelers and prepare for the continued growth.
- New systems and services are being offered to improve the experience of the travelers, tenants, and port employees. Many of these systems require high speed and capacity data connections.
  - WIFI access points, People counter sensors for check points, airline check in and gate operations, security cameras, ADR business transactions.
- This project will add new connections to the airport to support the continued growth and improve the customer experience.

Background



In early 2000's, the port established the Communication Infrastructure Backbone System (CIBS). This created the Main Distribution Rooms (MDR) and the outlying communications equipment rooms (ER).

Dedicated cable trays were also installed between the MDR's and the ER that contain the Airport current fiber connections.

This system established a data network that connects service providers to users throughout the airport.

Project Scope

- Add connections to 35 comm rooms that are:
  - 23 Out of connections (100% full)
  - 12 Nearly full (85% or greater)
- Use existing cable tray for new fiber connection
- New fiber runs between the MDRs to equipment rooms located in:
  - Main Terminal
  - South Satellite
  - Administration building (AOB)
  - Concourse B

Budget and Authorizations

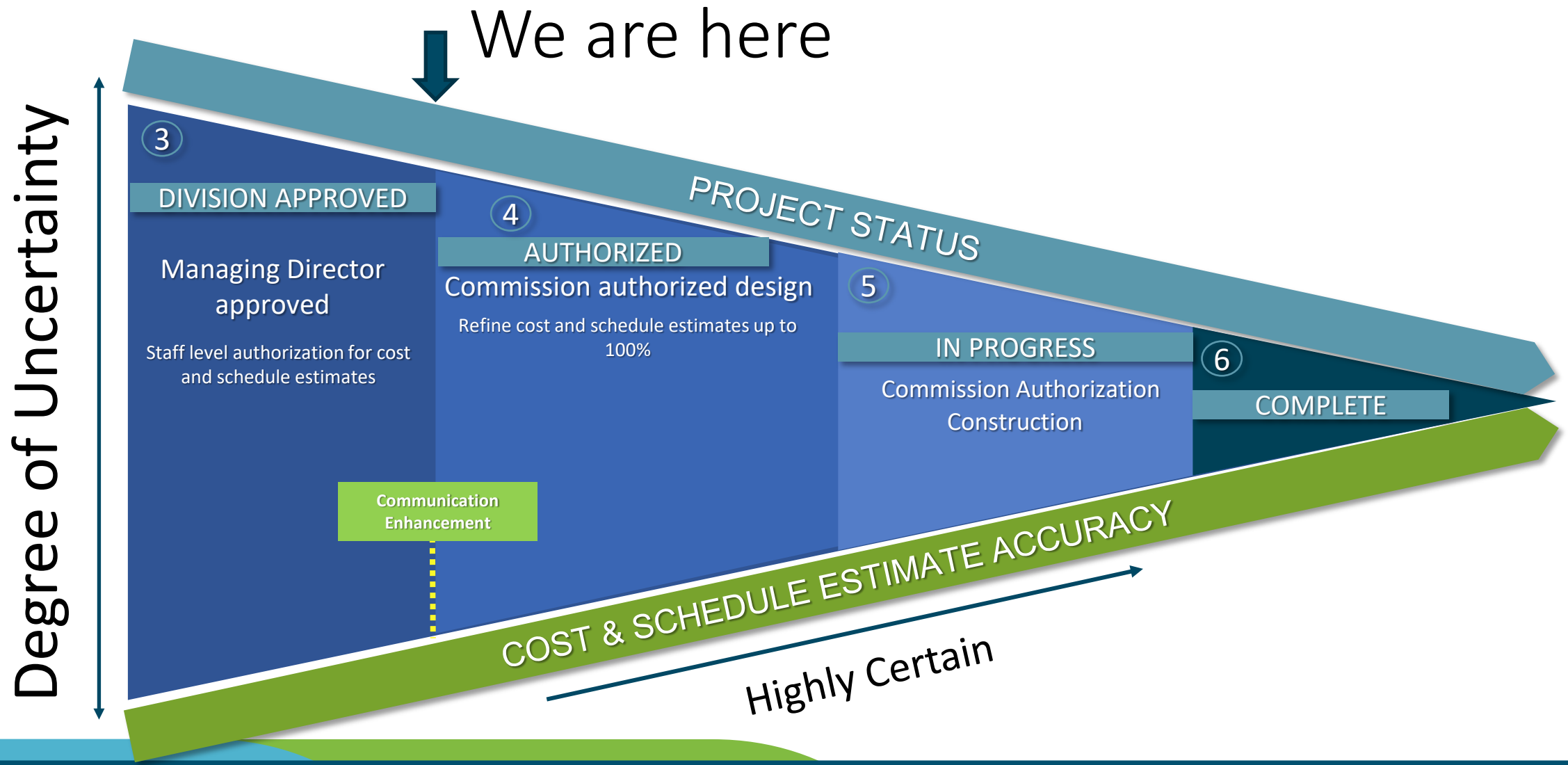
Budget	Project Budget
Design	$3,200,000
Construction	$7,800,000
Total	$11,000,000

Authorizations	Project Budget
Previous authorization	$200,000
This request	$3,000,000
Total authorized amount (Including this request)	$3,200,000
Remaining to be authorized	$7,800,000

Schedule

- Commission Authorization for Design: 3Q 2021
- Design Start: 3Q 2021
- Commission Authorization for Construction: 2Q 2023
- Issue Notice to Proceed: 4Q 2023
- Construction Complete: 3Q 2025

Cost and Schedule Project Estimating Certainty



Risks and Operational Impacts

RISK	DESCRITPITON	PROBABILITY	IMPACT	MITIGATION PLAN
CIBS Tray Space	Other projects have added fiber as needed and the spare tray space needs to be evaluated.	Medium	Medium	During the design phase additional time is being allocated to conduct field surveys of the existing tray space to verify fill percentages.
CIBS tray access	Most of the trays are run in the ceiling space of the bag well and can be difficult to access. Challenges: Tug operation, floor to ceiling access, working hours, social distancing requirements, and changing pathways.	High	Medium	The project team will identify the location where fiber installed from, evaluate the impact to operations, and provide access plan recommendations that can be shared with the construction team and operations.
Multiple project coordination	Project team will need to work closely with other projects and evaluate changing environments. Baggage optimization, Main Terminal projects, and Tenant projects	Medium	Medium	Critical reviewers are being identified from other surrounding projects to reduce the impact of the projects overlap.

Opportunities

- Multiple Fiber Pulls
  - Pull fiber strands in bundled cables (24-144 fibers per cable). Evaluate pathways to maximize innerduct pathways.
  - Optimizing connections by room for known future needs.

Questions?