

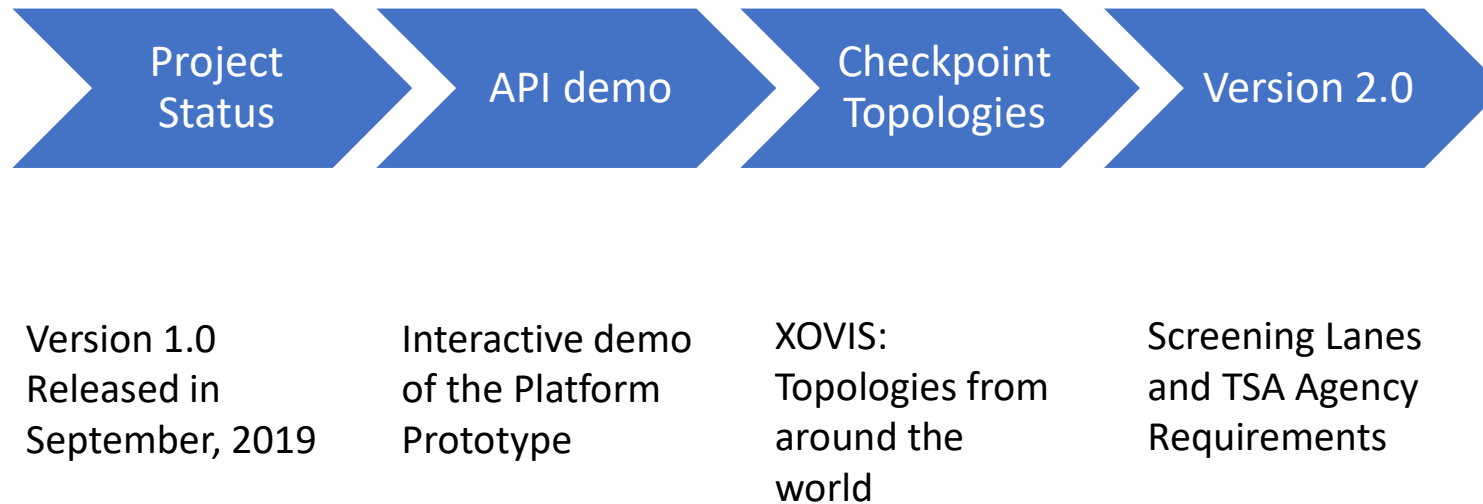
Security Checkpoint Wait Times API

ACI ACRIS, London, February 26, 2020, Session #13

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What We Will Cover



ACI CHECKPOINTS API

Overview

PATHS

► /airports/{Airport ICAO Code}/...

COMPONENTS

▼ Schemas

AirportElevation
AirportElevationUnitOfMeasurement
AirportFacility
AirportLocation
CheckpointAreaLocation
CheckpointFacility
CheckpointFacilityOperatorParty
CheckpointFacilityType
ConcourseFacility
CurrentWaitTime
MeasurementDevice
MeasurementDeviceLocation
MeasurementTimePeriod
OperationTimePeriod
PassengerProcess
PassengerProcessType

CurrentWaitTime

Schema

CurrentWaitTime

EndTime	string
End of measurement, in ISO 8601 format: (e.g. 2001-12-31T23:59:59Z)	
Occupancy	integer
The count of people in the queue. The unit of measure is number of people. This metric is updated every five minutes.	
Projected Wait Time	integer
The estimated time that a person entering the queue can expect to wait. The unit of measure is seconds. Estimates are required to be updated every five minutes.	
Throughput	integer
The average number of passengers processed over the past hour. The unit of measure is passengers per hour. This metric is updated every five minutes.	
Wait Time	integer
The duration that a person exiting the queue has experienced. The unit of measure is seconds. The amount represents the average number of seconds experienced by people exiting the queue in the last five minutes. The amounts are required to be updated every five minutes.	

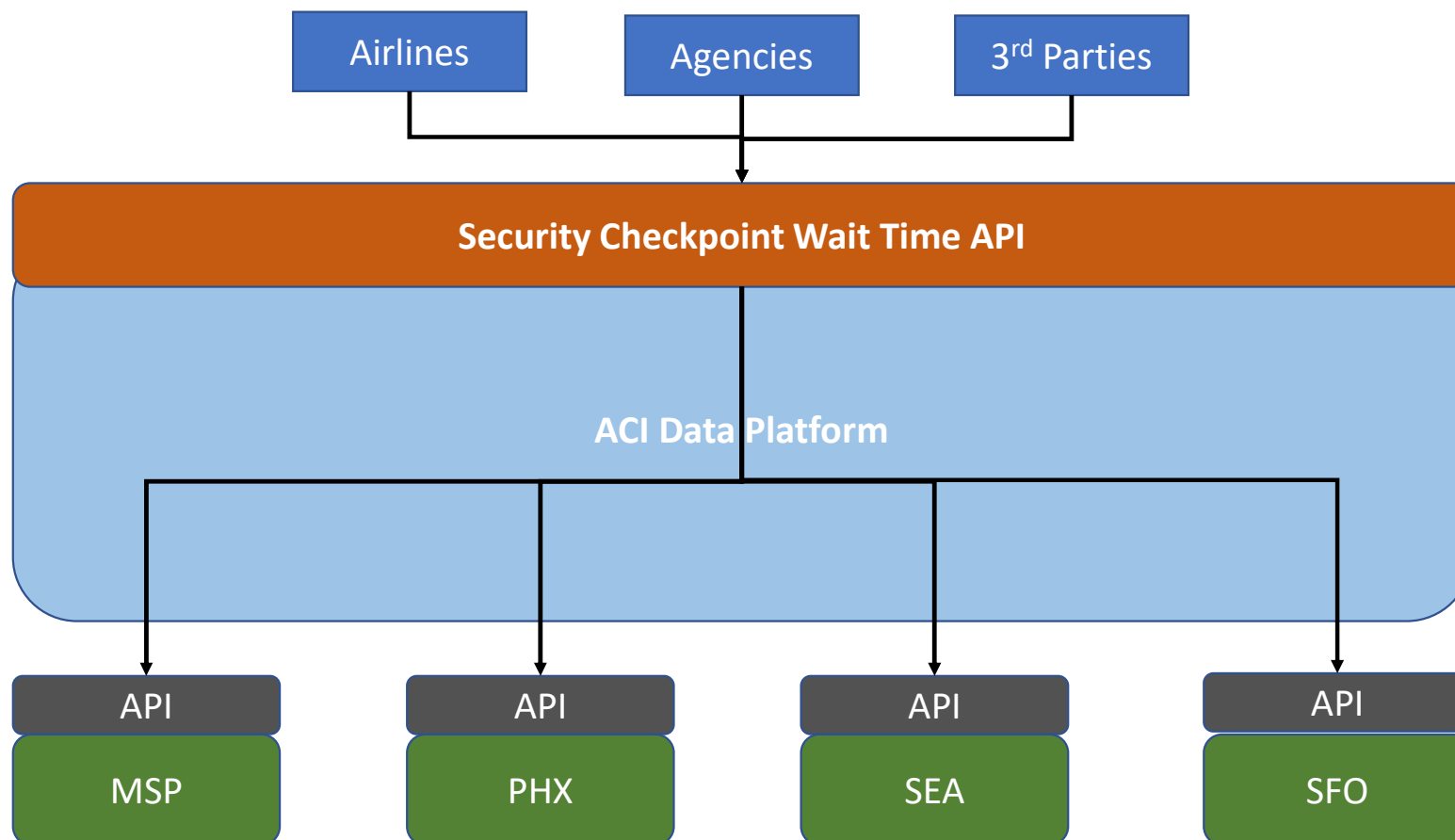
Four Metrics

5 minute
frequency

Removed
forecasting

Queue
Focus

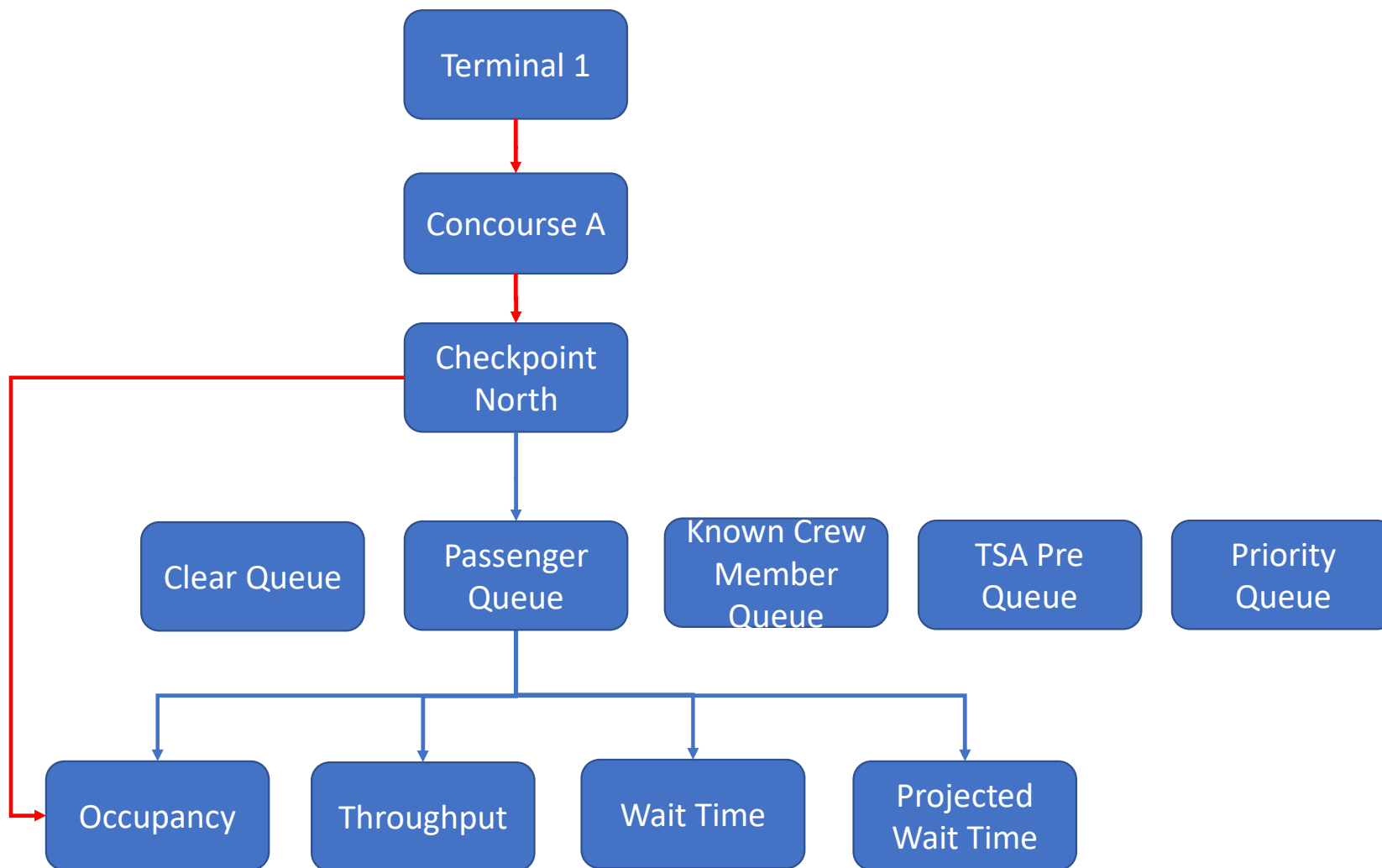
ACI Portal Integration with Airports



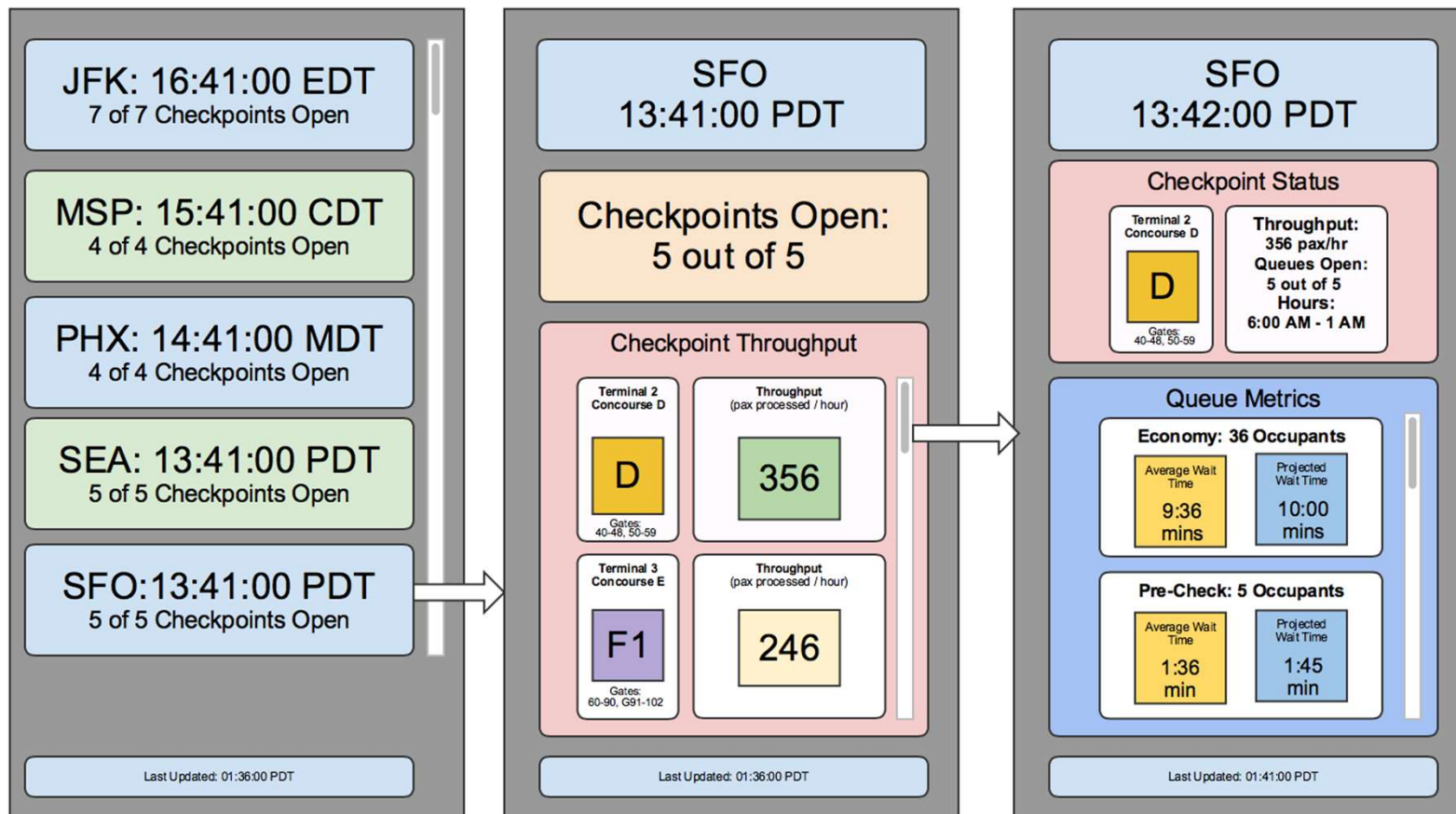
API Demonstration



MSP



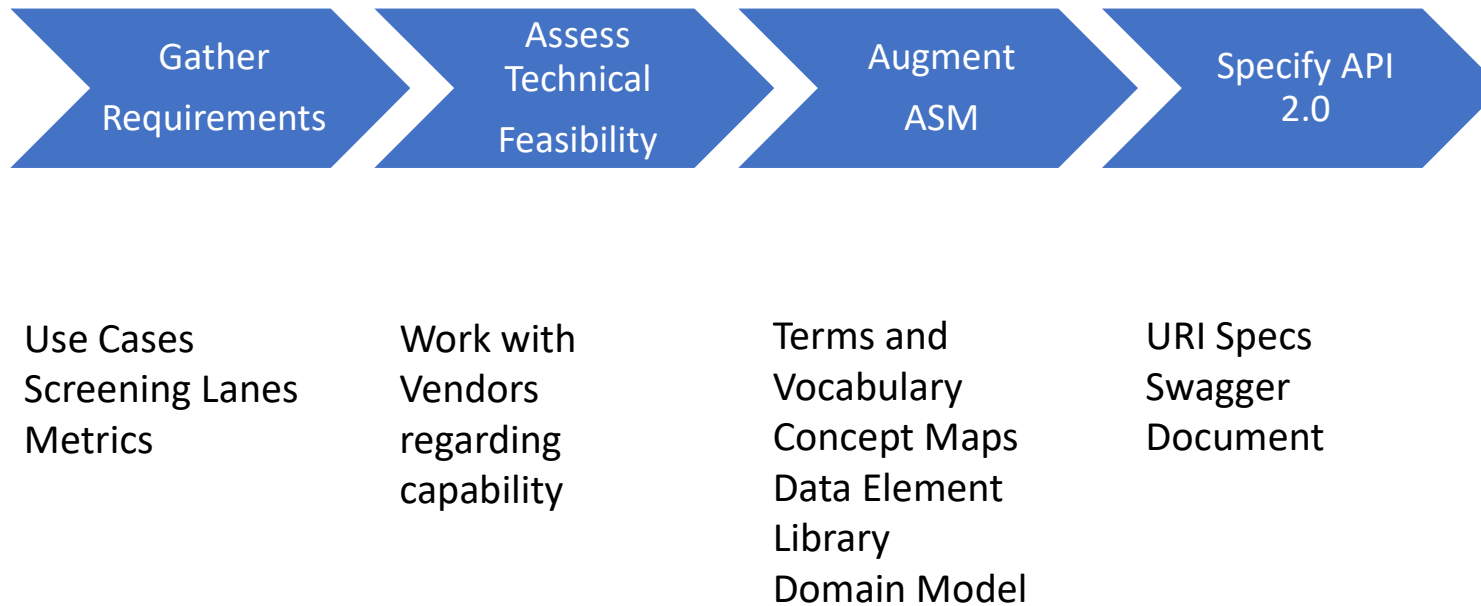
Possible Visualization



XOVIS, Florian Eggenshwiler

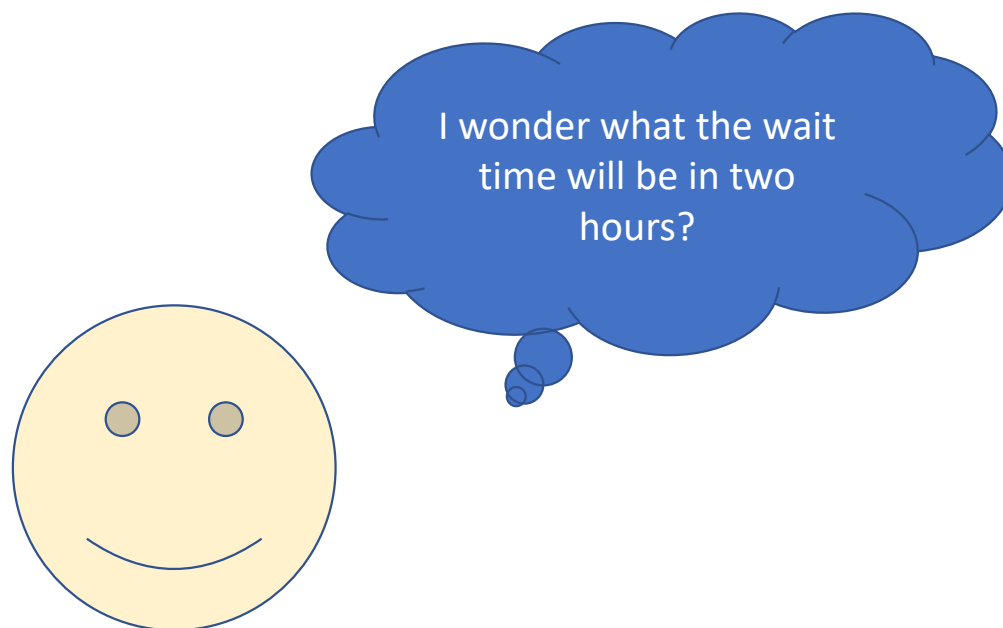
- Checkpoint Topologies around the World
- Dynamic Changes at Checkpoints
- Granularity of metrics in the screening lane

Version 2.0 Requirements



Passenger Use Case

- Forecasted wait time may be more important than the actual wait time.



Airline Use Case

- Operational efficiencies.



Can the flight leave on time
given the current wait time
and three passengers still need
to be screened?

Agency Use Case (TSA)

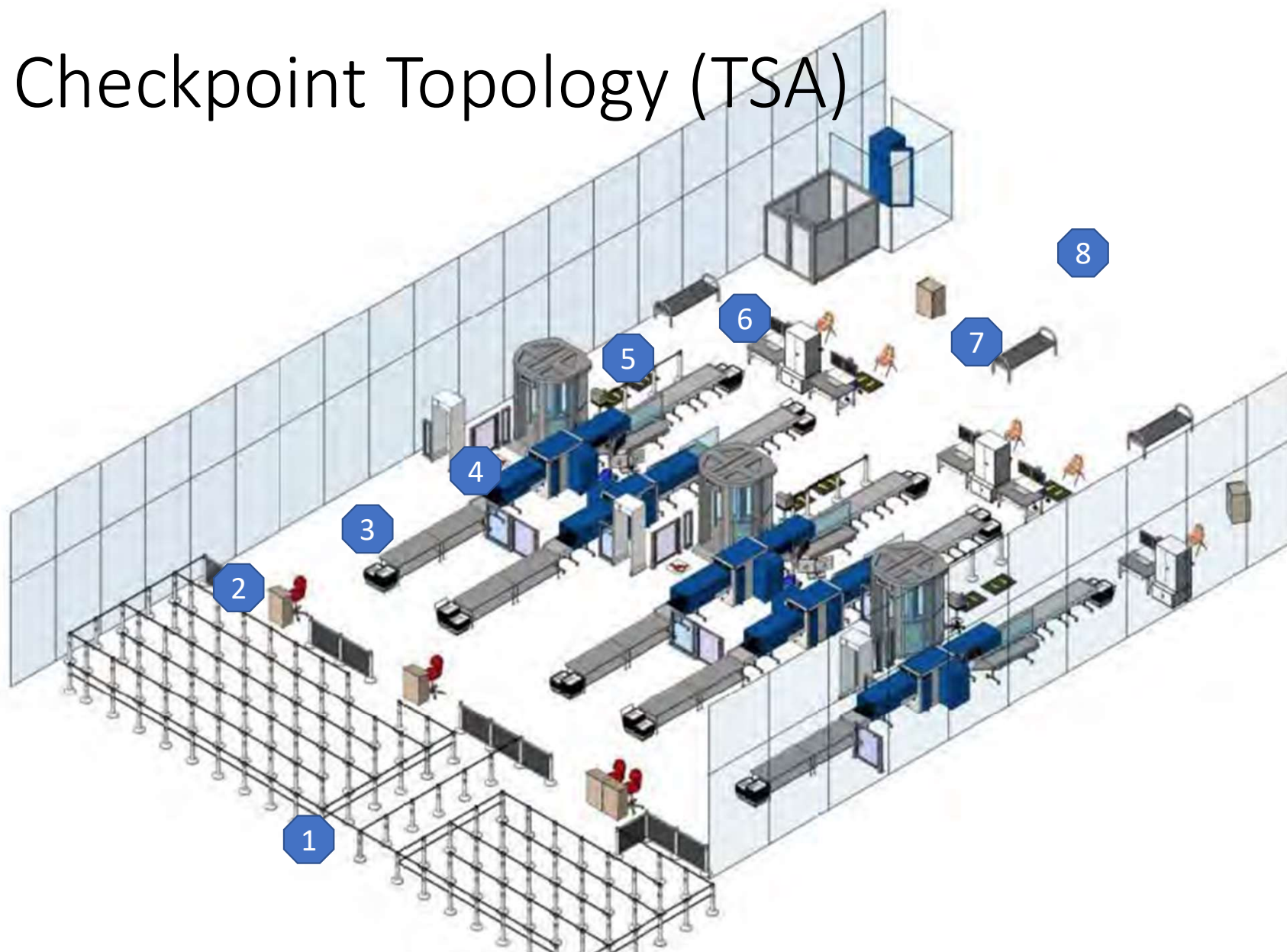
- **FAA/TSA Reauthorization Bill**
- *SEC. 1922. REAL-TIME SECURITY CHECKPOINT WAIT TIMES.*
- *(a) IN GENERAL.—Not later than 18 months after the date of enactment of this Act, the Administrator shall make available to the public information on wait times at each airport security checkpoint at which security screening operations are conducted or overseen by the TSA.*
- *(b) REQUIREMENTS.—The information described in subsection (a) shall be provided in real time via technology and published— (1) online; and (2) in physical locations at applicable airport terminals.*
- *(c) CONSIDERATIONS.—The Administrator shall only make the information described in subsection (a) available to the public if it can do so in a manner that does not increase public area security risks.*
- *(d) DEFINITION OF WAIT TIME.—In this section, the term “wait time” means the period beginning when a passenger enters a queue for a screening checkpoint and ending when that passenger exits the checkpoint.*

Publish Real-
Time Data

Enforce
Governance

Expand the
Specification

Checkpoint Topology (TSA)





Questions?

