

# Update on NGENC Accessibility Working Group

Presented  
To  
PRIIA Next Generation Equipment Committee  
Annual Meeting  
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# Overview

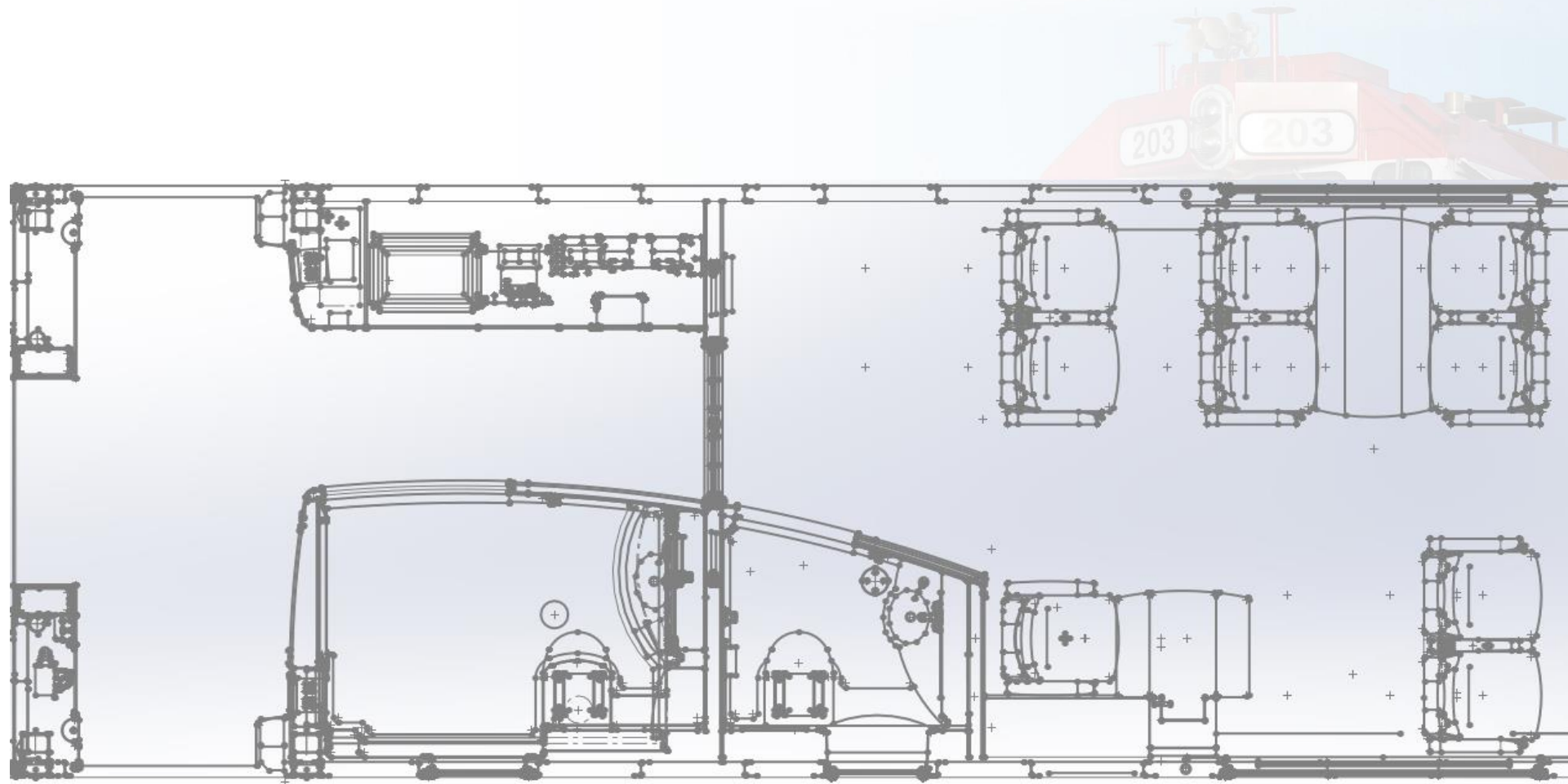
- Accessibility Working Group Progress Update
- Future Work
- RVAAC Update
- Summary
- Open Discussion/Questions



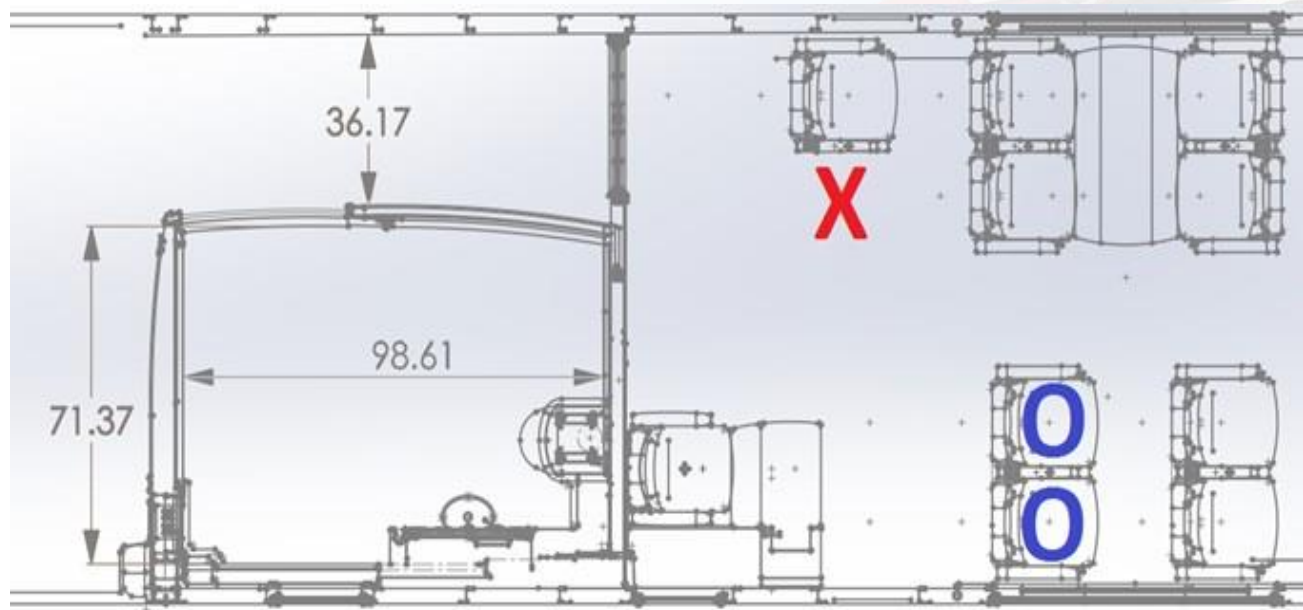
# NGEC Accessibility Working Group Update

- Accessible restroom layout with key accessibility features were developed and presented to the Accessibility Working Group (AWG)
- Various seating layouts to accommodate 2 wheeled mobility devices (WhMD) were also developed and presented to the AWG
  - Issues related to containment of WhMD at accessible locations were identified
  - Manueverability of scooters using mock-up to access seating location was recommended
  - Issues with stowage of scooters were identified

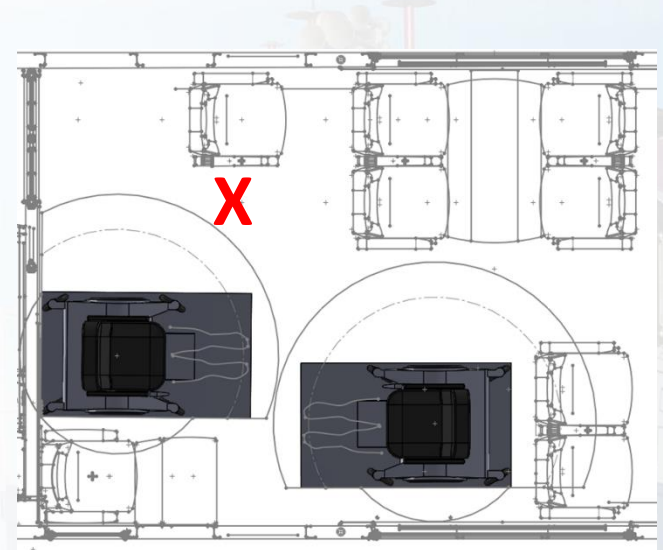
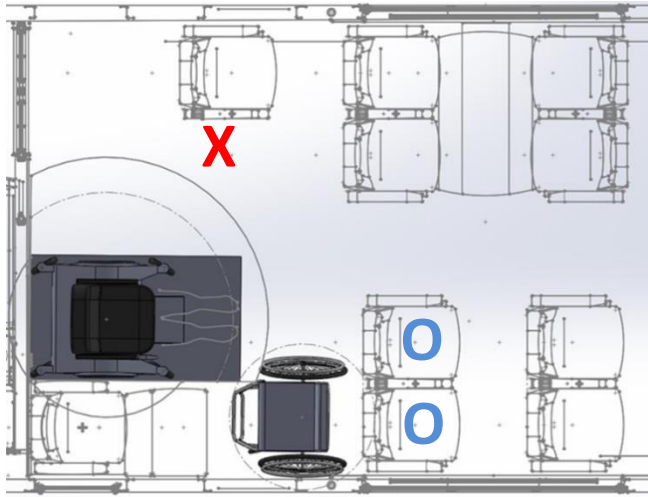
# Base Layout – Acela Business Car



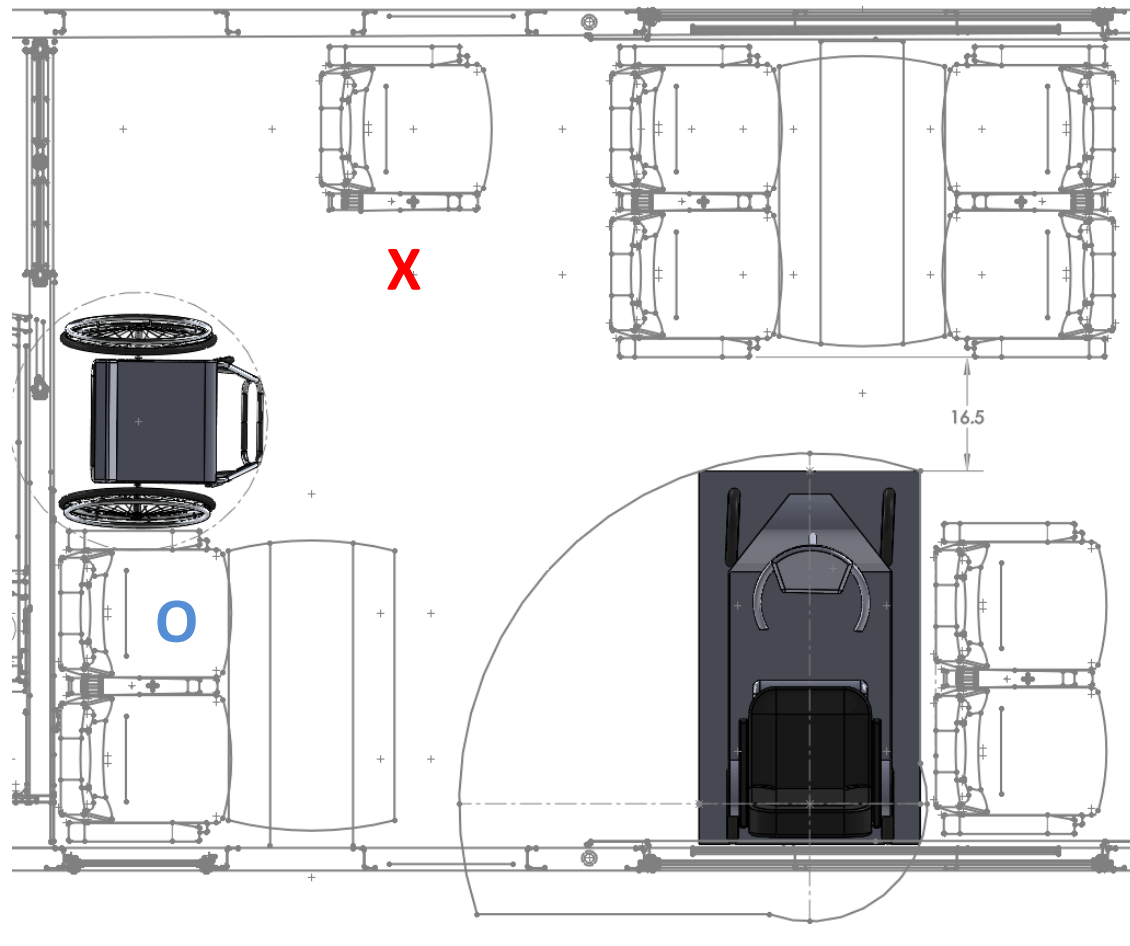
# Accessible Restroom and Seating Location



# Scenarios showing 2 WhMDs

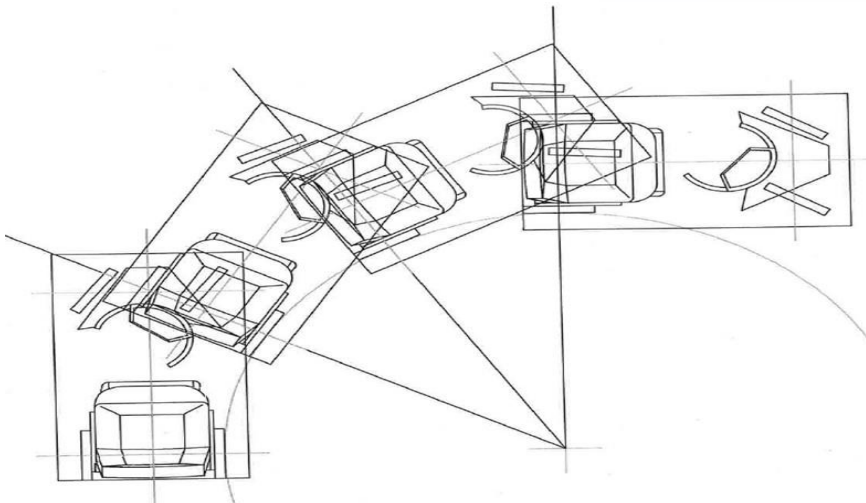


# Storage of Scooter



# Draft Final Report to TSC for Review

- Draft Final Report was developed and sent to TSC for review and comments.
- Comments on the following were received
  - Suggestion for physical mock-up to truly assess maneuverability of scooters.
    - Clarification was made in the report to state that the actual turning radius of scooters depends on the design of the scooter, but all scooters have turning radii that are much larger than power wheelchairs.
    - Schematic provided by industry member was included for illustration purposes with the permission of the commenter.



Turning radius diagram showing scooter rotating on outside wheels



# Draft Final Report Review – Con't

- Concerns over the recommendations of including a sharps container in the accessible restroom
  - May become a target of vandalism by people looking for needles for illicit drug use.
  - Additional maintenance for service providers
- Evacuation chair recommended in report was identified as possibly having maneuverability issues due to aisle width.

# Future Work

- FRA intends to work with Volpe Center and Oregon State University to test the containment issues identified in some of the seating layout scenarios
  - Normal operations loading
  - Passenger rail equipment 8g longitudinal loading for accident scenarios
  - Possible over the road relative motion measurement
    - Require cooperation from passenger rail service provider
  - Use result to inform the disability community and US Access Board about containment and possible securement of WhMDs.

# RVAAC Background And Update

- US Access Board established the Rail Vehicle Access Advisory Committee in 2013
  - Develop consensus recommendations for the US Access Board's use in updating sections of the ADA guidelines related to passenger rail vehicles.
  - Some recommendations were based on the work of the AWG
  - Final report submitted on July 29, 2015 to US Access Board for Consideration
  - Report is on the agenda of the US Access Board
  - Report is available at the link below
    - <https://www.access-board.gov/guidelines-and-standards/transportation/vehicles/rail-vehicles-access-advisory-committee/final-report>

# Summary

- Recommendations for accessibility are being finalized.
- Investigation of dynamic motion of WhMDs under normal and accident loading scenarios to be undertaken
  - Results will be used to refine seating arrangement recommendations and to inform the industry as the US Access Board considers the recommendations from the RVAAC
  - RVAAC recommendations for improved accessibility on rail vehicles report is on the agenda of the US Access Board

# Questions?

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