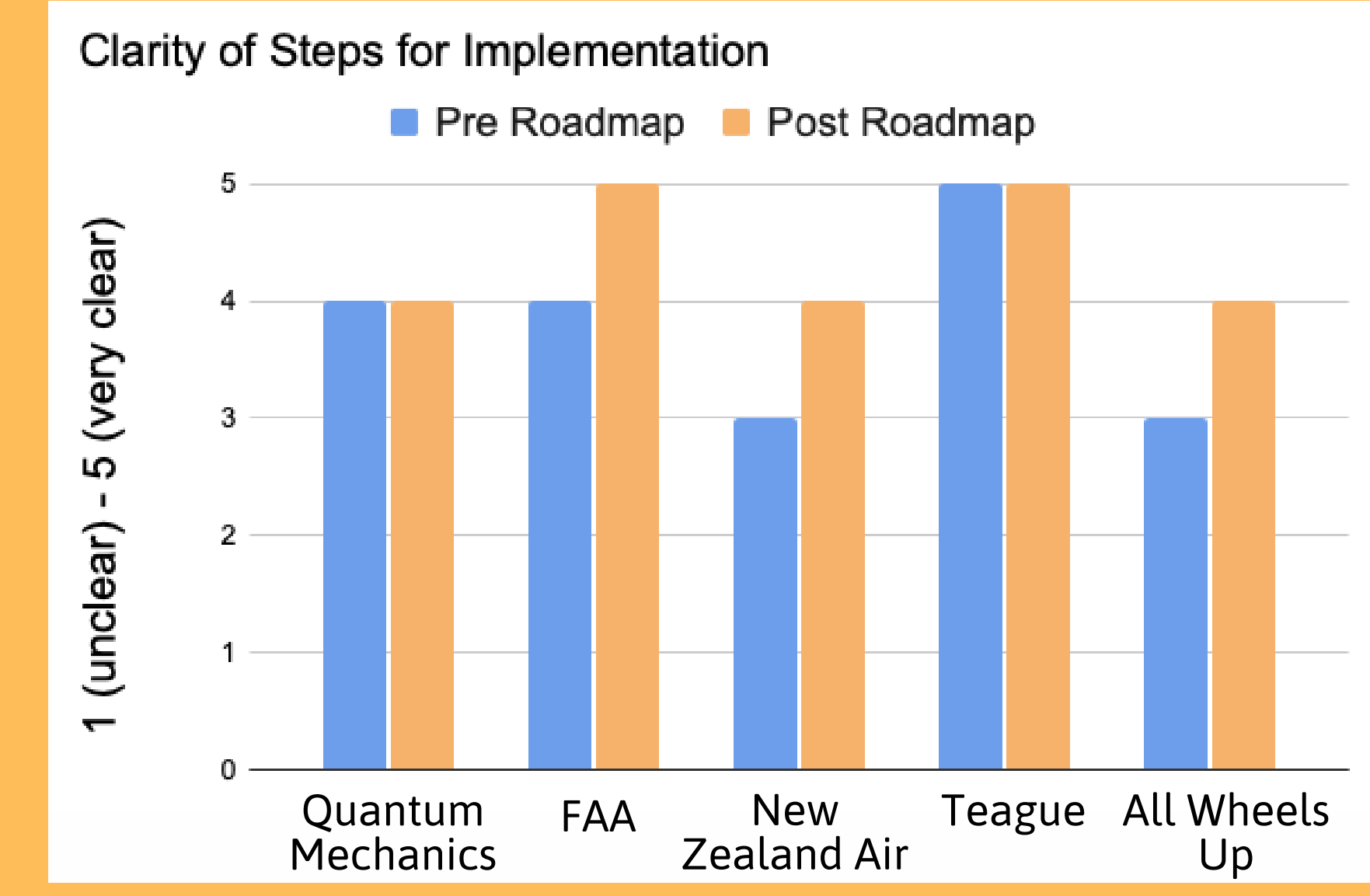
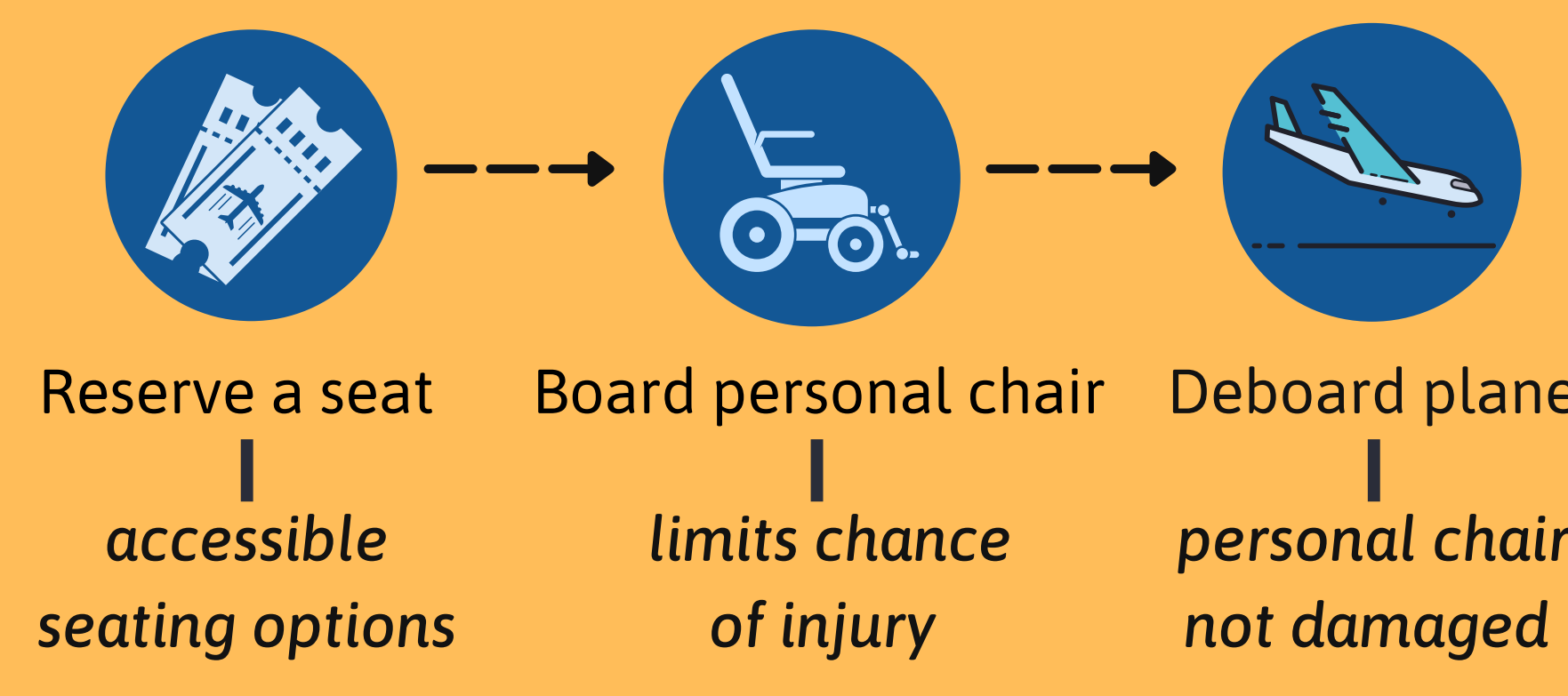




SUCCESS OF ROADMAP



IMPACT



LOOKING FORWARD

- Advocate for Federal Funding
- Begin Crash Testing Efforts
- Evacuation Procedures; A Disabled Passenger Transfer Sling (ADAPTS)
- Fly Your Wheels Suite; Crystal Cabin Design Challenge Finalist

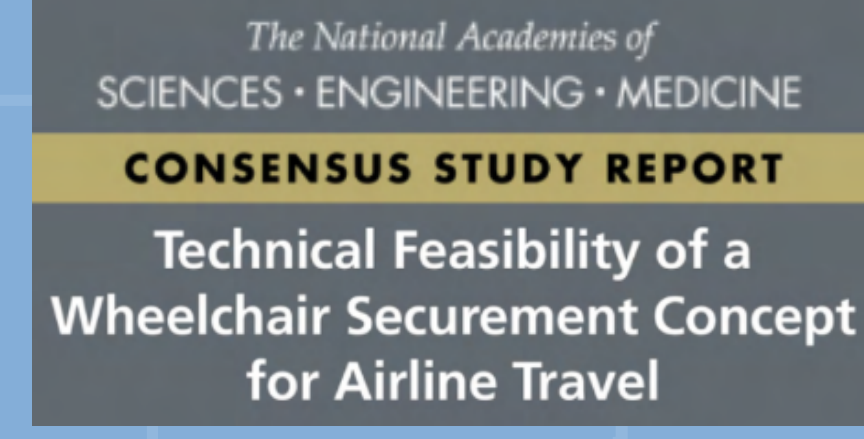
MISSION REACH

ROADMAP TO ACCESSIBLE AIR TRAVEL

Anna Shah, Dawsyn Martinez, Joel Angkico, Elizabeth Mellor

SCOPE: Design a high-level roadmap to lay out the series of tasks and decisions required to implement a wheelchair tiedown and occupant restraint system (WTORS) on aircrafts.*
*Time and financial constraints are out of the scope.

STEP 1. Review literature & determine assumptions



- ASSUMPTIONS**
1. Feasibility
 2. Funding
 3. Involvement
 4. Adaptability

STEP 2. Identify & meet stakeholders



STEP 3. Identify steps

- DESIGN**
1. Start
 2. Connect
 3. Contact
 4. Assess

STEP 4. Organize steps

- CERTIFICATION**
1. Iterate
 2. Test
 3. Certify

STEP 5. Finalize roadmap

- IMPLEMENTATION**
1. Methodology
 2. Training & Manufacturing
 3. Application

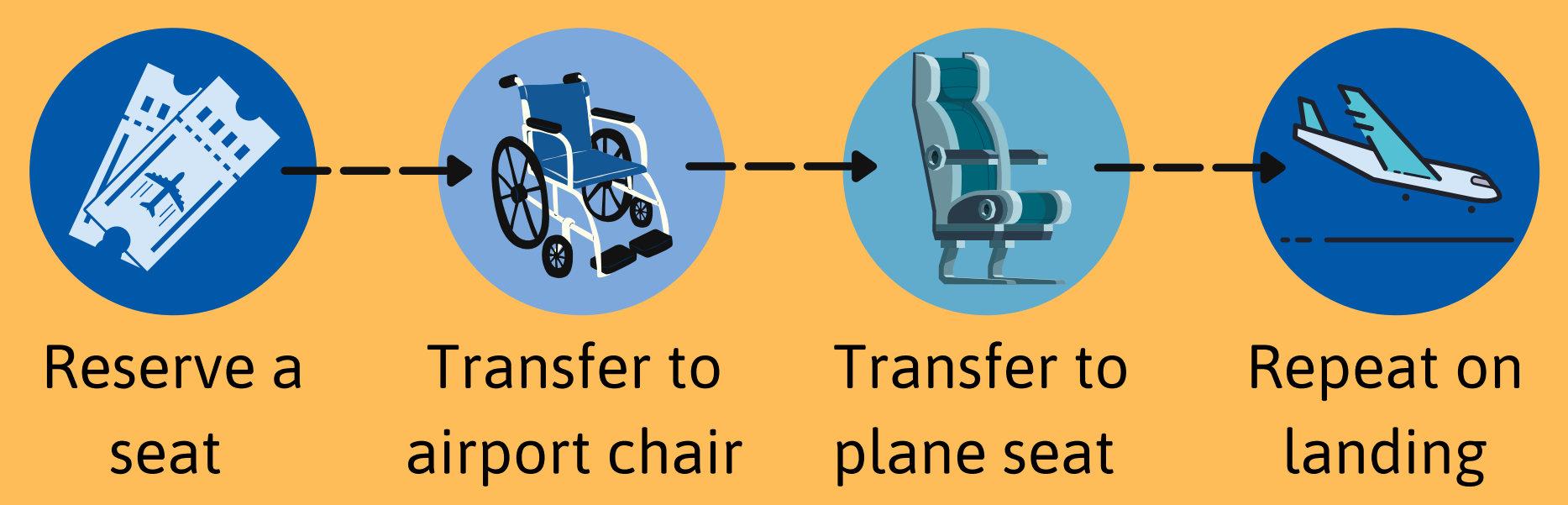
ALL WHEELS UP

All Wheels Up is a nonprofit dedicated to accessible air travel as the only organization crash testing wheelchair tie downs and wheelchairs for commercial flight.

PROBLEM STATEMENT

According to the DOT, airlines reported 32,445 disability-related complaints in 2019, a 7.5% increase from the previous year. There is no clear path to design and certify WTORS for implementation.

CURRENT BOARDING PROCESS



DESIGN COMPONENTS



Special thanks to our project sponsor, Michele Erwin, and the All Wheels Up Board members.