



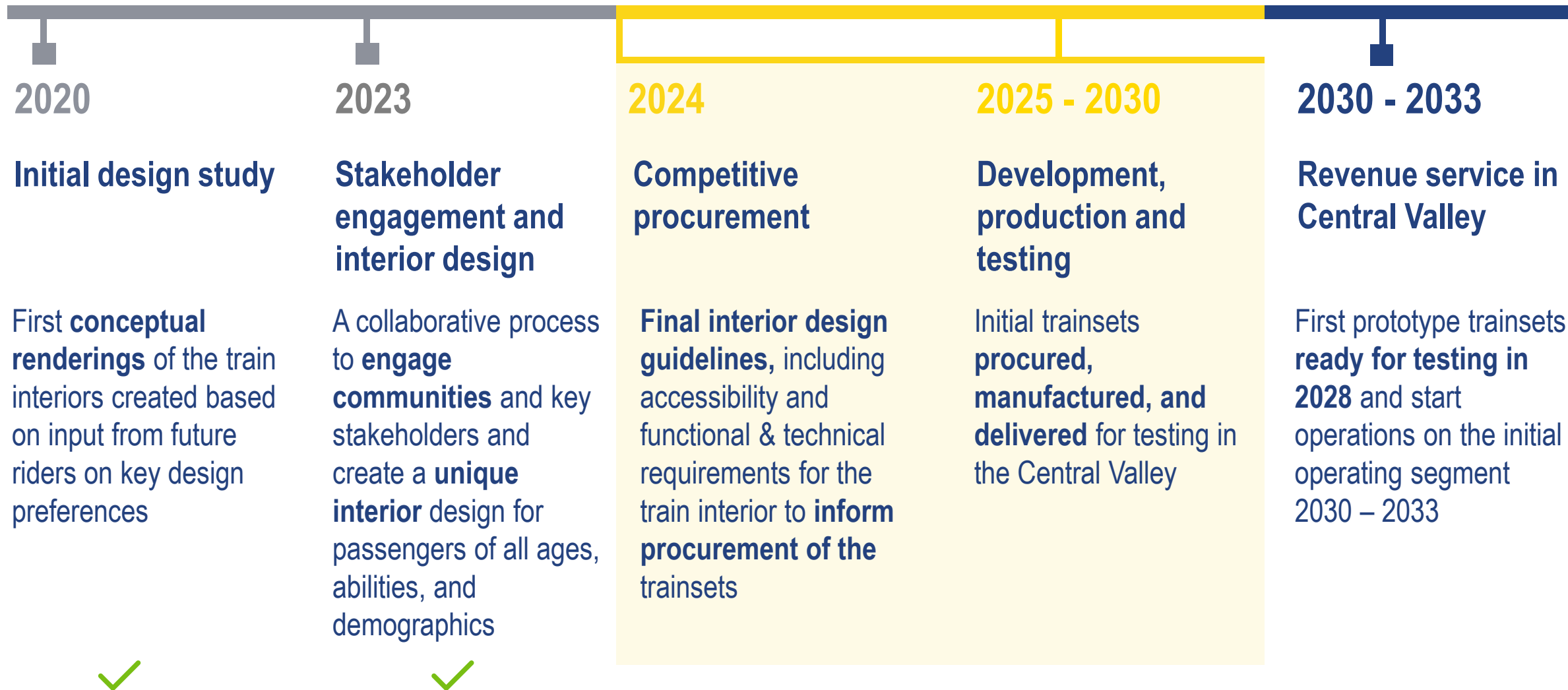
CALIFORNIA
High-Speed Rail Authority

Train Interior Design Outreach Update

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February 29th 2024

Transitioning trainset interiors from vision to reality

The Authority is finalizing interior design requirements in preparation of the procurement process



Design process followed a user-centric approach

Throughout 2023, the Authority collaborated with communities across California to develop and test design concepts

Research, public outreach, and community & stakeholder interviews



First concepts for layout and design

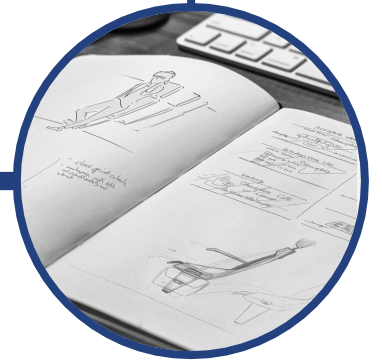
Virtual reality tours, renderings, and public events



White mockup user testing & feedback

Update

Final design requirements



Initial public outreach directed design foundations

In depth research, benchmarking, and stakeholder interviews shaped the product vision



Research and benchmarking



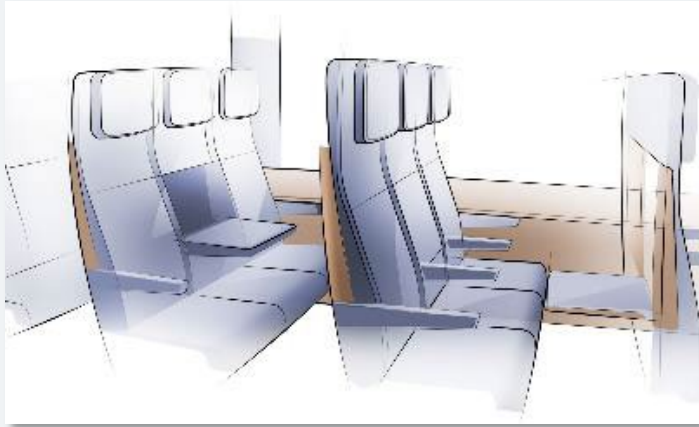
Ideation and design Workshops



Stakeholder interviews

First design concepts were met with great interest

Feedback was gathered throughout California at various conferences, public events, and on social media



First sketches



Refined designs



VR Deep Dive



Public and user engagement

Innovative tools generated excitement

Public feedback from virtual reality tours was utilized to further refine initial design concepts



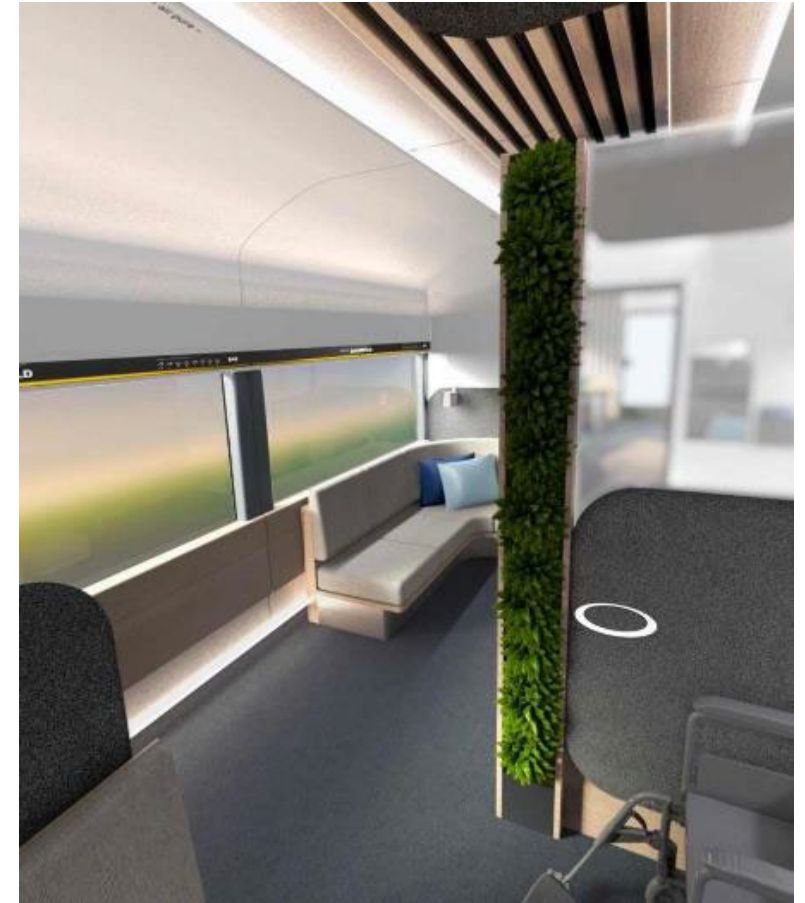
Actual VR screenshots of early concepts



Family area



Lounge area



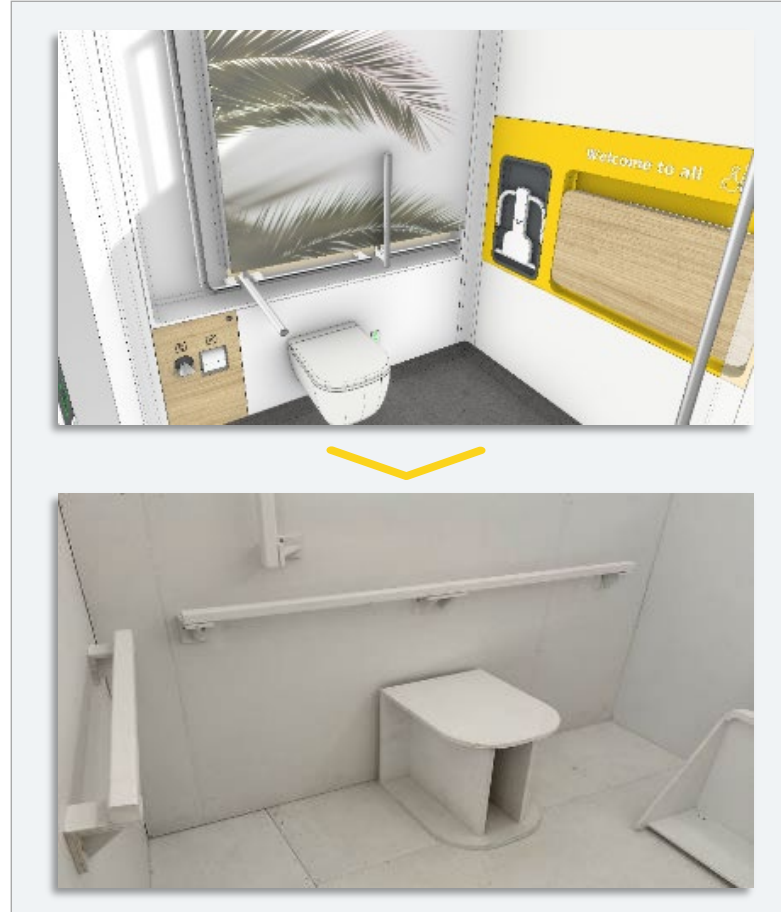
Event area including ADA space

A white mockup brought the designs to life

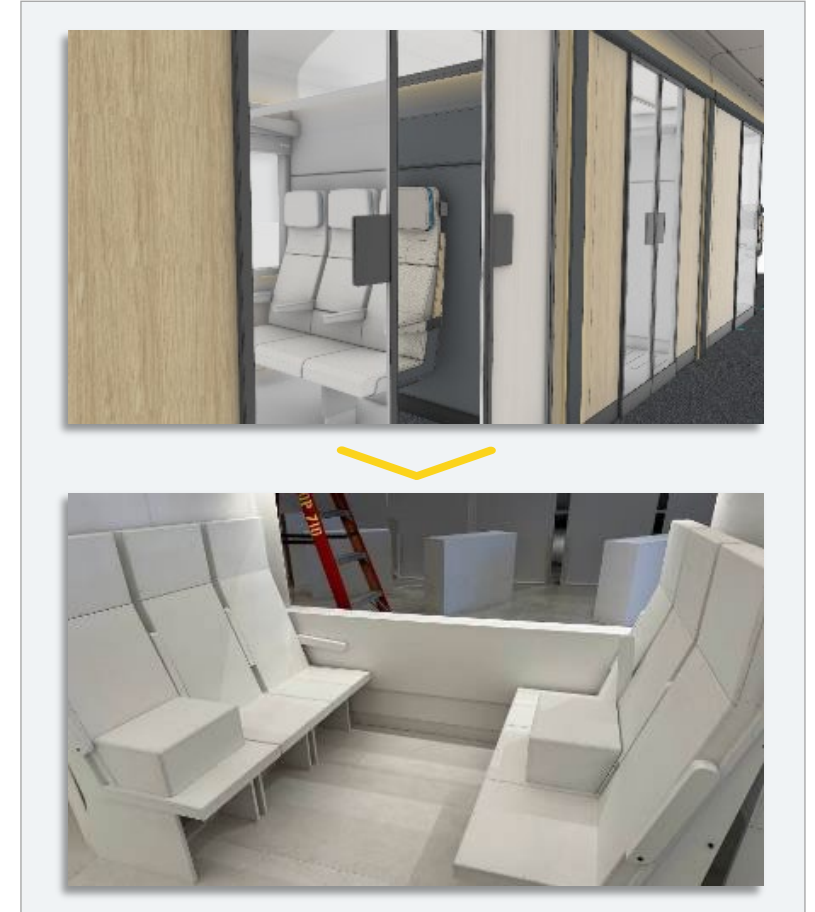
Selected concepts were realized in 1:1 scale wood mockups to assess ergonomics, accessibility, and functionality



Family area



Restroom



Seating options

User testing with potential future riders was successful

Regardless of affiliation, mockup visitors had positive and valuable feedback on the various design concepts



“As a taxpayer, I feel like my money is being put to good use - I’m impressed with how much **progress** has been made, and how **forward-thinking** the design is.”



- The seating options were well liked with the novel cocoon seat gathering the most positive commentary.

*“I wouldn’t rule the 3x2 out as a seating concept for **families and friends.**”*



- The restroom was incredibly well received by all participants, who appreciated how spacious and inclusive the design was.

*“I was **most impressed by the restroom** and how **thoughtfully** it was designed.”*



- Visitors thought the family playground concept was highly innovative and practical.

*“The family area could be a **lifesaver for parents.**”*

Source: Mockup testing focus groups.

Extensive stakeholder engagement raised awareness

A diverse variety of federal, state and local stakeholders as well as ADA and passenger advocates toured the mockup



CalSTA



FRA



Authority Senior Management



Disability Rights Advocates



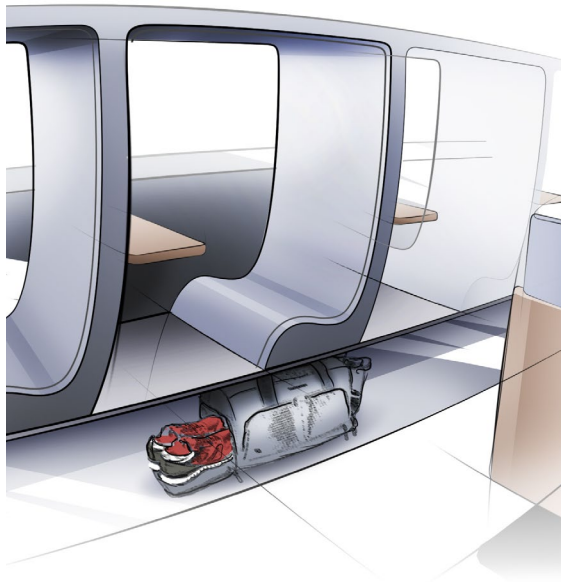
State Agencies and Stakeholders



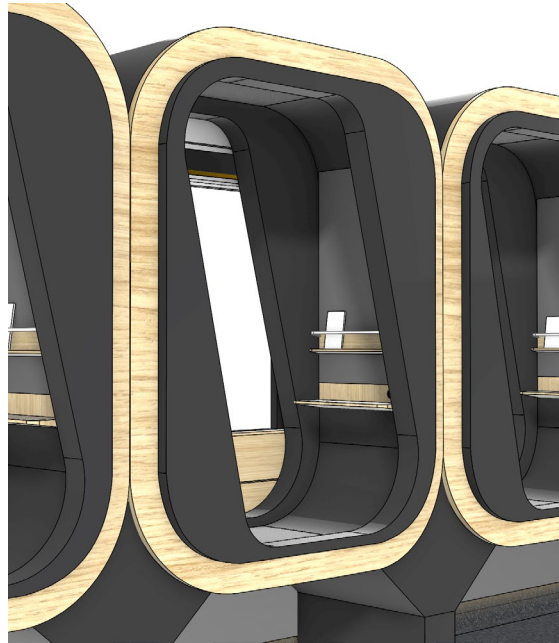
Students

Feedback drove the evolution of the design concepts

Inputs from stakeholders, user testing, and public outreach were incorporated through iterative design sprints



First sketches



Refined designs



Enhanced concepts



High-quality renderings

Next steps for 2024

The design process will result in guidance for the trainset manufacturers and opportunities for the public to see & touch

2024

Q1

RFP Package completed

The interior design input for the trainset Request for Proposal outlines and illustrates the Authority's vision for a best-in-class trainset interior, providing design guidelines in alignment with essential requirements.

Q2

Procurement begins

The objective is to seek approval for release of the Request for Proposal for the trainsets at the April 11 Board meeting. With Board approval, the Request for Proposal is planned to be issued to the shortlisted proposers in Q2 2024.

Q3

California State Fair Exhibition

A joint venture at Cal Expo will tell the story of the train interior and station development to the general public and generate excitement about future high-speed rail service.

Q4

High-fidelity mockup

A full-scale mockup of a train car showcasing selected interior elements will provide a preview of the onboard experience to stakeholders and future riders in California and beyond.

Setting benchmarks beyond High-Speed Rail

Takeaways from the Authority's design process can inform an integrated customer experience for rail passengers in CA



Designed by Californians, for Californians

Using collaborative stakeholder engagement and public outreach and develop a vision for the onboard experience and design



Community-driven, expert-led

Involving subject matter experts for rolling stock design, operations, and maintenance as well as regulatory requirements



Test, iterate, repeat

Applying tools like VR and mockups early on to visualize and gather feedback on evolving concepts



Inclusive designs that welcome everyone

Prioritizing an accessibility-first design for passengers of all ages, abilities, and backgrounds



The best option for every trip length and travel purpose

Including a range of seating concepts and amenities that serve the various needs of diverse user groups

Sustainable and equitable mobility for all Californians



Modern interiors and a consistent high-quality onboard experience for riders on high-speed, intercity, and regional rail

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