Train Interior Design Outreach Update

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## Transitioning trainset interiors from vision to reality

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
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<tbody>
<tr>
<td>2020</td>
<td>Initial design study</td>
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<td>First conceptual renderings of the train interiors created based on input from future riders on key design preferences</td>
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<td>2023</td>
<td>Stakeholder engagement and interior design</td>
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<td>A collaborative process to engage communities and key stakeholders and create a unique interior design for passengers of all ages, abilities, and demographics</td>
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<td>2024</td>
<td>Competitive procurement</td>
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<td>Final interior design guidelines, including accessibility and functional &amp; technical requirements for the train interior to inform procurement of the trainsets</td>
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<td>2025-2030</td>
<td>Development, production and testing</td>
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<td>Initial trainsets procured, manufactured, and delivered for testing in the Central Valley</td>
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<td>2030-2033</td>
<td>Revenue service in Central Valley</td>
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<td>First prototype trainsets ready for testing in 2028 and start operations on the initial operating segment 2030 – 2033</td>
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**CALIFORNIA High-Speed Rail Authority**

2/29/2024
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
- 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
- Public and user engagement

VR Deep Dive
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.
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.
- The restroom was incredibly well received by all participants, who appreciated how spacious and inclusive the design was.
- Visitors thought the family playground concept was highly innovative and practical.

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

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

“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.
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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