

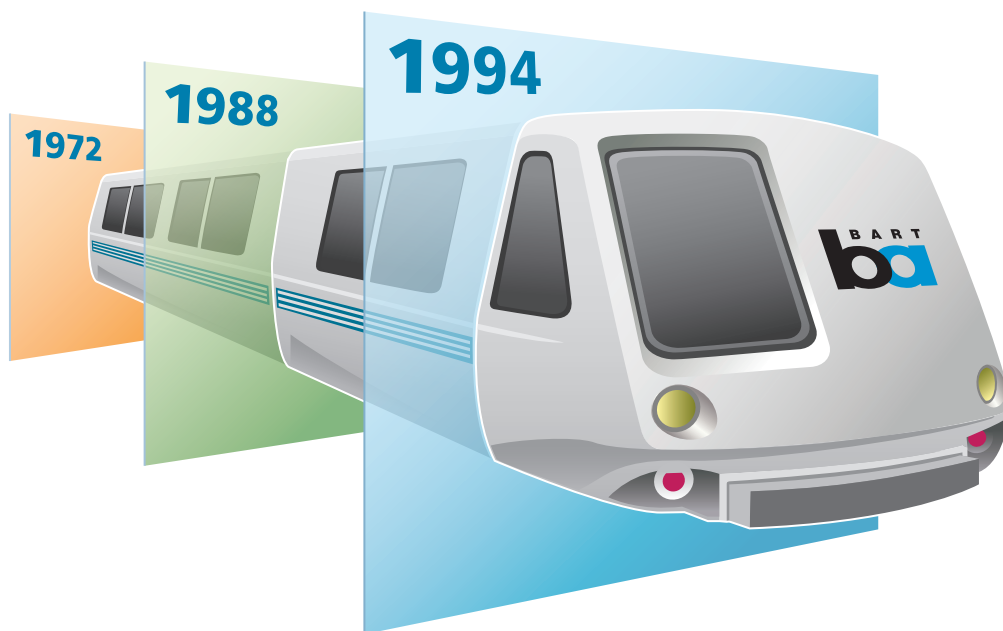
# Help BART Design the Fleet of the Future

## New BART Train Cars are Needed

BART has the oldest fleet of trains in the nation. New cars are needed to keep trains reliable and get customers where they need to go on time.

Increased ridership is straining the fleet—on average a single car currently runs 110,000 miles per year. BART train cars are nearing the end of their useful life and need to be replaced to avoid breakdowns and delays.

## Most BART Train Cars Have Been in Use Since BART Started Service in 1972



■ 1972

**A2/B2 train cars introduced**  
439 train cars

■ 1988

**C1 train cars introduced**  
150 train cars

■ 1994

**C2 train cars introduced**  
80 train cars

# You Spoke, We Listened

Your feedback helps guide the design of the new train cars. Thousands of you gave valuable input so far by attending a Seat Lab or connecting with us on our website. For full survey results, visit [www.bart.gov/cars](http://www.bart.gov/cars).

## You Spoke

## We Listened

### Adequate Number of Seats:

Many commuters expressed concern about having to stand if there are fewer seats.



All the preliminary train designs shown here today include 56-68 seats per car, the same as current trains. BART's goal is to increase the fleet size to 1,000 cars, which will increase the total number of seats by 48%.

### Seat and Aisle Width:

54% of surveyed customers preferred 18-20 inch wide seats, which would be 2-4 inches more narrow than BART's current 22 inch seats.



BART discarded the 18 and 19 inch options in favor of 20 inch wide seats. At 20 inches, the seats will still be among the widest in the nation, (comparison chart available at [www.bart.gov/cars](http://www.bart.gov/cars)), but with wider aisles to help riders quickly get to the doors to exit under crowded conditions.

### Seat Cleanliness:

Customers want cleaner, non-fabric seats.



These designs have wipeable, non-absorbent seating that will be easier to keep clean.

### Passenger Information:

Customers want digital displays that show the next stop and pictograms for non-English speakers.



Both of these will be included in the new trains.

### Legroom:

97% find 27 inches acceptable. That's 1.5-2.0 inches less than today's seats.



In order to fit enough seats on the train, legroom will be reduced to 27 inches; however, 25 and 26 inch options were discarded as too tight.

### Seat Height:

Customers want seats mounted higher off the floor for greater comfort. The most preferred height, 18 inches, is about 1.5 inches higher than today's seats.



18 inch high seats are included in the new train designs.

### Armrests:

Mixed feedback on armrests. 37% say yes, 39% say no, and the balance have no preference.



The designs include armrests between seats but not on seat ends. The between-seat armrests will help prevent people from laying down and taking up two seats.

### Handholds:

Customers want more places to grasp when standing.



Preliminary designs include new floor-to-ceiling poles in addition to seat back handholds and vertical stanchions.

### Bicycles:

Customers want accommodation of bicycles without interfering with wheelchair users and other riders.



Preliminary designs include various types of racks for bicycles on some train cars, with signs to identify these cars on the outside.

### Noise:

Customers want quieter trains.

The new cars themselves will not make less noise, but BART is working on ways to make the tracks quieter. BART noise is mostly dependent on the condition of the track.

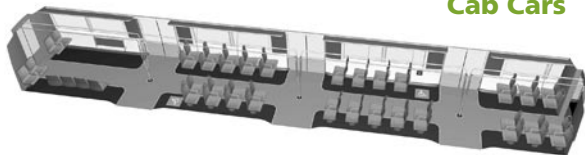
# Please Give Us Your Input on these Interior Concepts

# A

## Interior Concept A

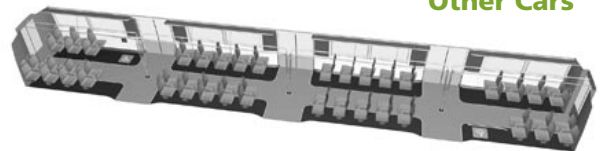


**Cab Cars**



- 56 seats on cab cars, and 68 seats on other cars, same as most BART cars today
- Easier to clean, wipeable seats
- Contoured seat design with center armrest
- Headrests on window seats
- Clean, durable, non-slip floors—no musty carpets

**Other Cars**



- Digital destination, next stop, and transfer information in the window areas
- Handholds and poles mounted on seat backs
- Multi-branch floor-to-ceiling poles near the doors
- Bike racks on some train cars (not shown)

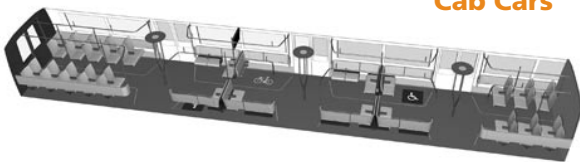
# Please Give Us Your Input on these Interior Concepts

## B

## Interior Concept B

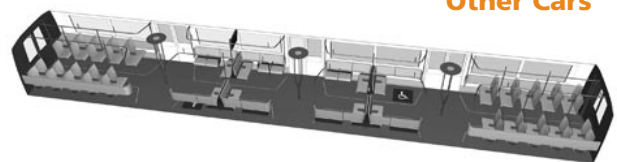


**Cab Cars**



- Informal, open-style lounge seating in the middle of each car
- Traditional commuter seating at the ends of most cars
- No headrests

**Other Cars**

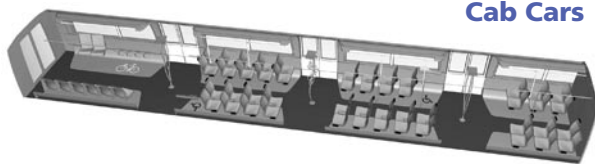


- Digital information is larger and located above some seat backs
- Seat quantity and all other features are the same as Concept A

# Please Give Us Your Input on these Interior Concepts



## Interior Concept C



**Cab Cars**

- More artistic, wave-top seat style
- No headrests
- Artistic "S" shaped design for floor-to-ceiling poles
- Digital information located above doors



**Other Cars**

- Portals at the end of some cars for kids to see track and tunnel walls whizz by the front of the train as it speeds down the track (not shown)
- Seat quantity and all other features are the same as Concept A

# SNEAK PEEK: New Train Exterior



The new train is designed to be sleek, attractive, and efficient to operate.

## Features Include:

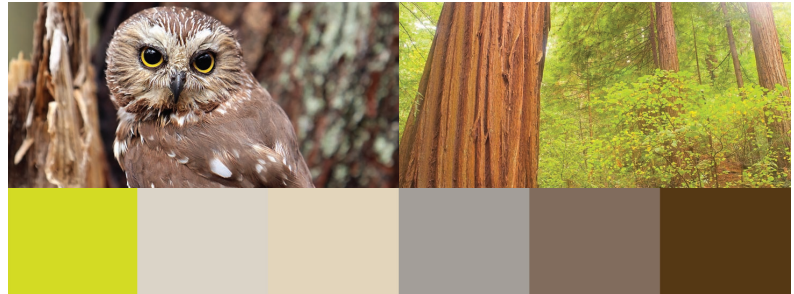
- Exterior digital displays showing route color and the train's destination
- Side panel for local community art
- 50% more doors to make getting on and off the train faster and easier
- Two reserved wheelchair spaces per car, same as BART today
- Priority seating for seniors and people with disabilities
- Automated announcements
- Induction loop system that transmits BART information to hearing aids and cochlear implants
- Energy efficient LED lighting
- Energy efficiency through state-of-the-art propulsion and regenerative braking

# Please Give Us Your Input on these Color Ideas

## Color Ideas

### 1 Color Idea 1

**NATURAL**—warm, fresh and inviting colors derived from Bay Area nature create a welcoming travel experience.



### 2 Color Idea 2

**BAY & SKY**—cool blues and warm grays inspired by the water and sky of the Bay Area create a modern yet timeless character.



### 3 Color Idea 3

**DIVERSITY**—a multi colored palette celebrates Bay Area diversity. Varying a few elements in different colors creates surprise and intrigue.



# Decades of Improvements Ahead



## Beta BART Program

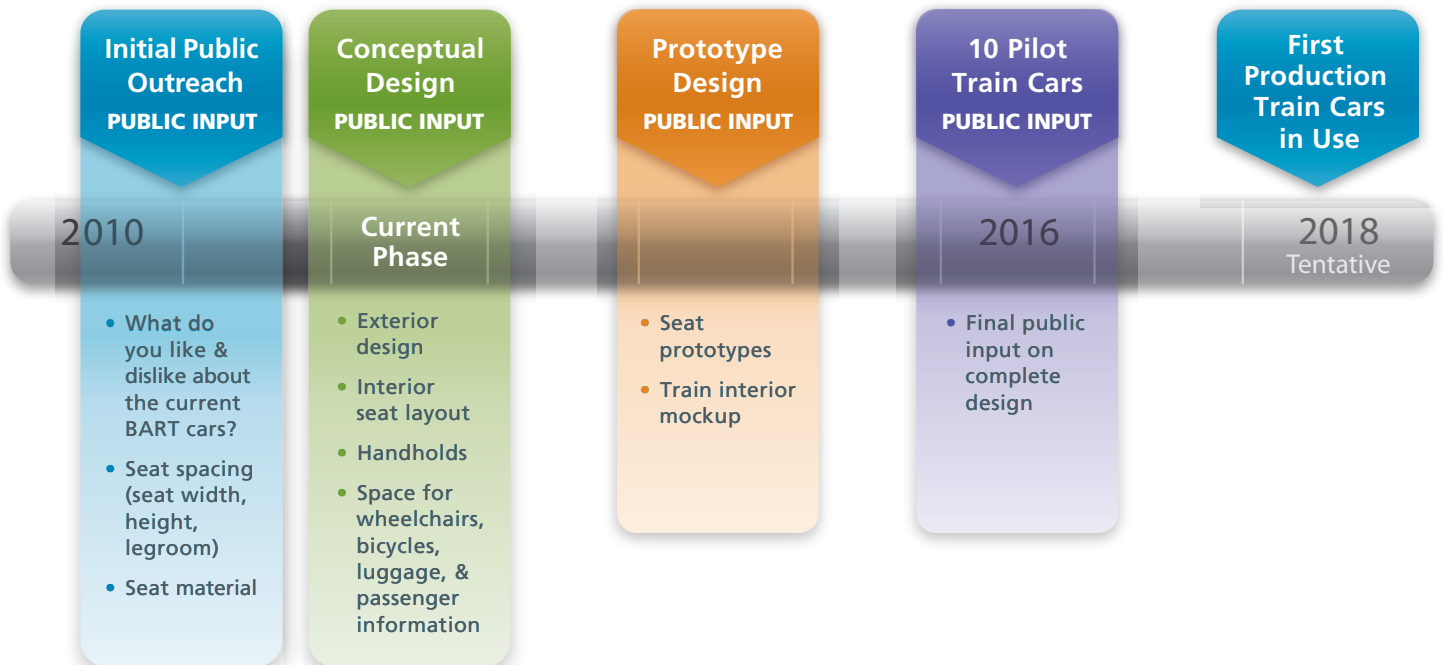
What will BART customers want on board their train over the next 40 years? What will be the state of technology in 2050? To address these questions, a portion of the BART fleet may be designated as Beta Cars to test new opportunities as they arise: environmentally sound materials, thin film solar power, new types of seating, possibly even a virtual concierge to answer customer questions on demand.

## Made in America

The Fleet of the Future will create jobs in America. Federal Buy America regulations require that final assembly of the train cars take place in the United States, and that 60% of component costs must go toward items produced or manufactured in the U.S.



## Fleet of the Future Milestones for Public Input



**We value your input throughout this project. For a more detailed survey and to sign up for project updates, visit [www.bart.gov/cars](http://www.bart.gov/cars).**



BART ... and you're there.