

Self-driving car passenger interface for an international event

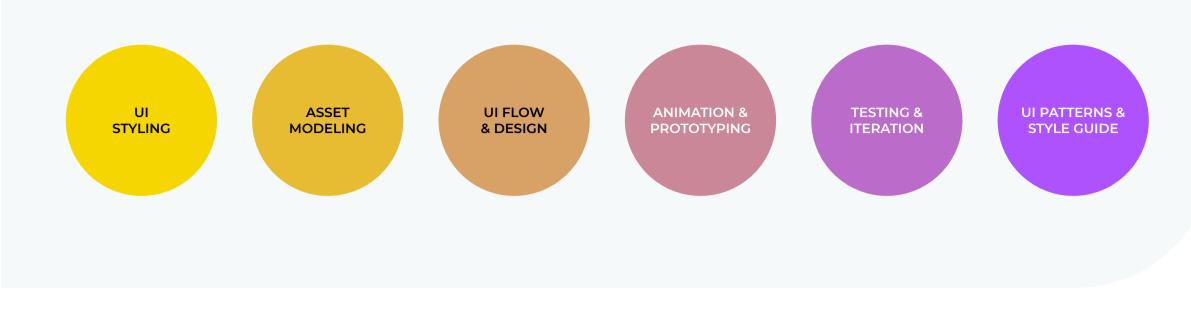
gotomedia partnered with a global auto manufacturer to create a rear passenger interface for an autonomous vehicle experience. The experience was slated to debut at an international event and generate excitement around the future of the brand in self driving vehicles. In addition to highly customizable cabin personalization controls, the UI offered unique features that provided insight into the technology behind autonomous driving.

Project Outcome

- Fostered consensus across a diverse and distributed international team
- Created a full 3D environment to model the challenges in a data driven interface
- Quickly adapted to realities of software limitations and pivoted to overcome active development hurdles
- Crafted a unique touchscreen interface that combined multiple control surfaces into a single, seamless design
- Built a fundamentally international UI that easily accommodated often tricky localizations
- Established a robust design language in the somewhat uncharted territory of autonomous UI

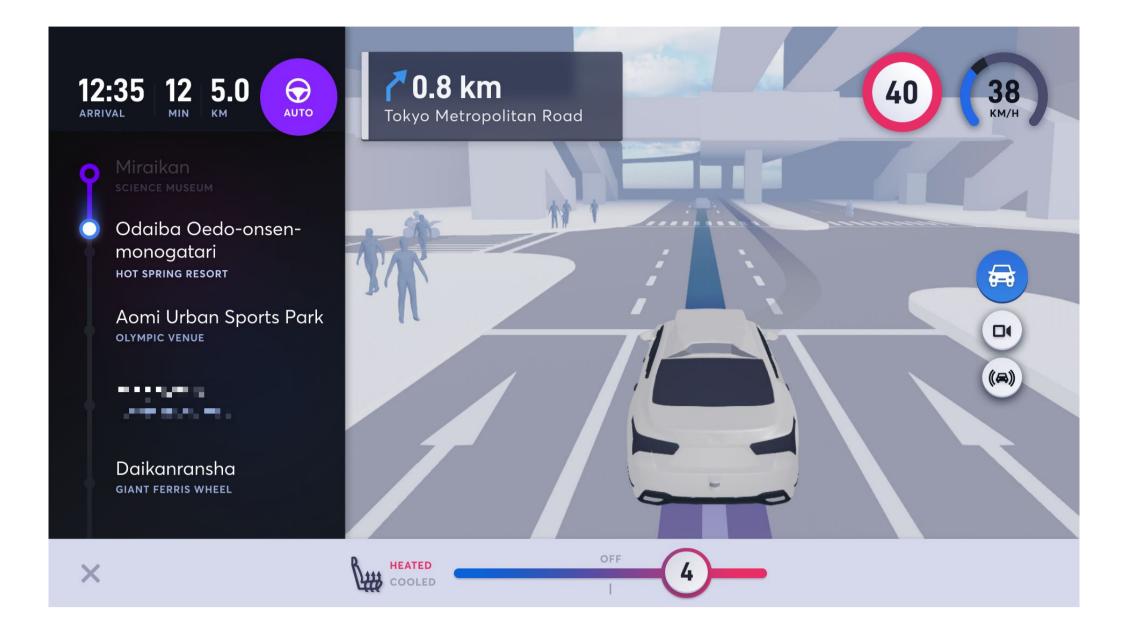
Approach & Deliverables

The gotomedia team integrated seamlessly into the client UI team to foster a collaborative and fluid project workflow. In addition to UI design, the gotomedia team created a range of deliverables required to complete the experience, including 3D models, intro and outro animations and production ready Unity assets.

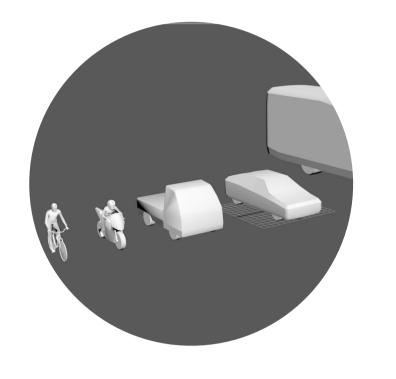




The passenger UI invites riders to personalize their environment while touring a predetermined route in an urban landscape. Key components of the interface include the points of interests display and traffic and road information. Three optional "data layers" to allow riders to gain a deeper understanding of how an autonomous vehicle senses and processes visual and auditory information to safely navigate unexpected road and traffic conditions.



In defining the look and feel for the UI and prior to screen design, gotomedia presented several high-level design concepts exploring street environment visualization, color palette, typography and interaction control styling. The final look and feel incorporated new elements to create a distinctive experience for the event with existing brand elements to tie to the overarching car brand.



ASSET MODELING Traffic models were created using Unity. Several styles with degrees of fidelity were explored prior to settling on the final styling.



CUSTOM ILLUSTRATION Custom illustrations were created to quickly communicate alerts and safety information at key points of the journey.

Tradepia Odaiba Here:Web

DESIGN LANGUAGE The design language was carried through at every level of detail in the UI, creating an engaging and memorable experience.

Micro Interactions

Clear and visible user feedback for the touch screen interface was essential for successfully communicating with passengers and enhancing the experience to make it enjoyable and engaging.

Design Principles

- Tactile visual styling
- Intuitive design clearly expressing functionality · Pleasurable interaction, playful transitions and
- audio cues

· Clearly visible in variable ambient lighting Distinctive styling while incorporating existing brand attributes

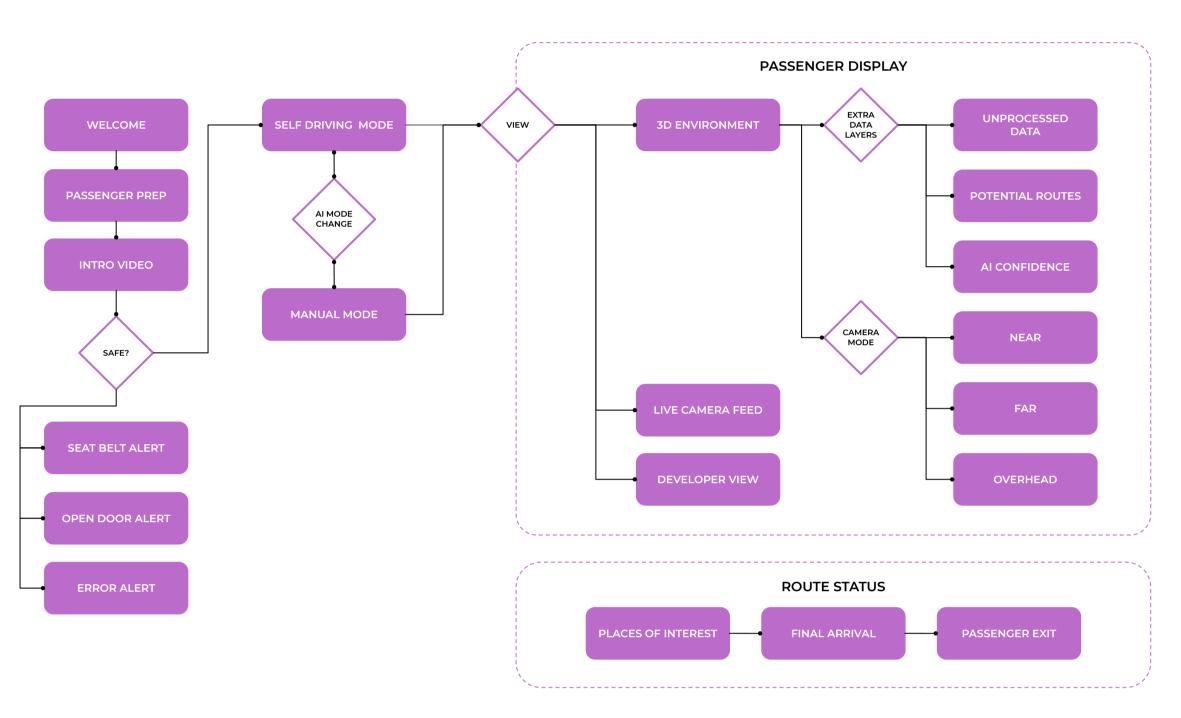


ALTERNATE PATHS

CONFIDENCE LEVEL



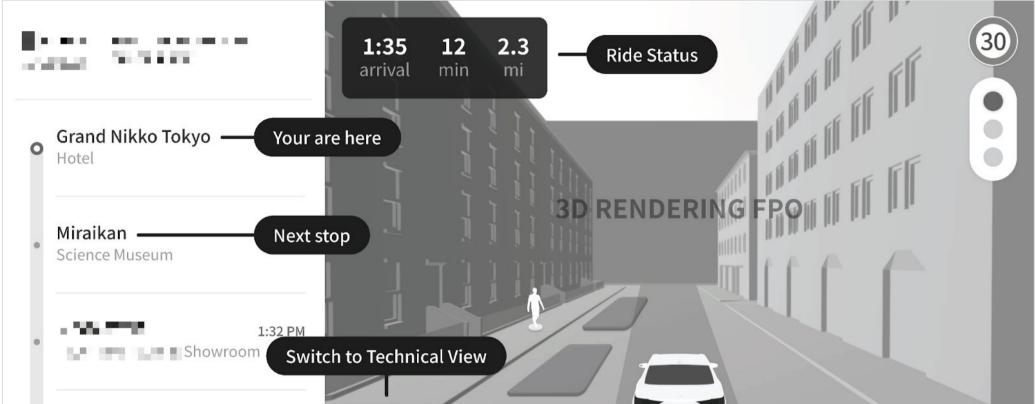
The passenger experience UI revolved around the primary display which focused on road and traffic conditions and points of interest highlights along the route. The UI provided the opportunity to display additional data layers to gain a deeper understanding of the self drive technology.



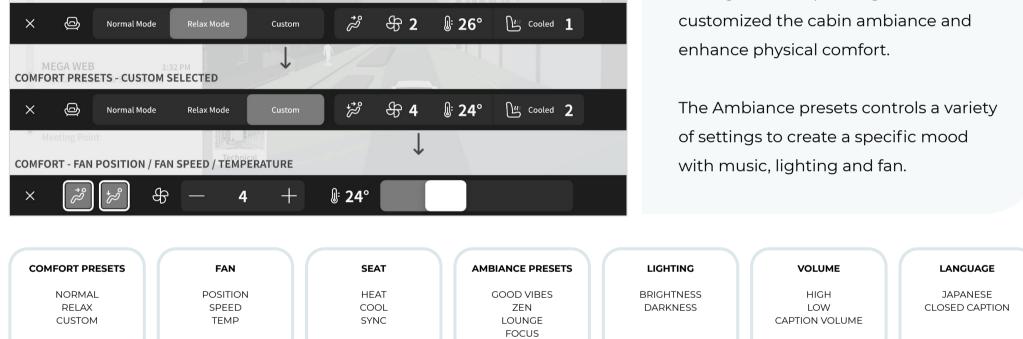
UI Flow

UI Iteration wireframes & prototyping

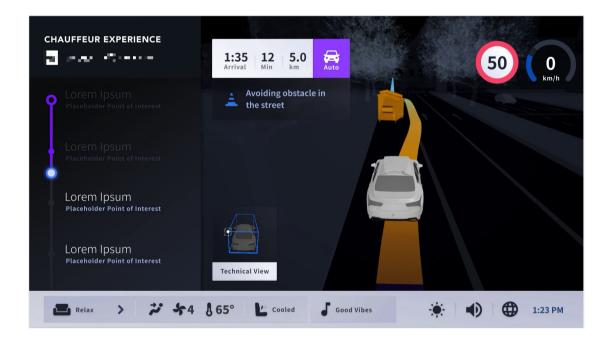
Wireframes and mid-fidelity prototyping allowed the engineering team to develop software concurrent to the UI definition and afforded the opportunity to iteratively refine the interface throughout the development cycle.



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COMFORT PRESETS - RELAX MODE SELECTED					A variety of detailed environmental settings allowed passengers to			



Avoiding Obstacles



CALM UI

The obstacle view displays what's happening around the vehicle exterior and what actions it will take next.

• Highlight what's important

· Just enough information

Multiple Pedestrians Detected

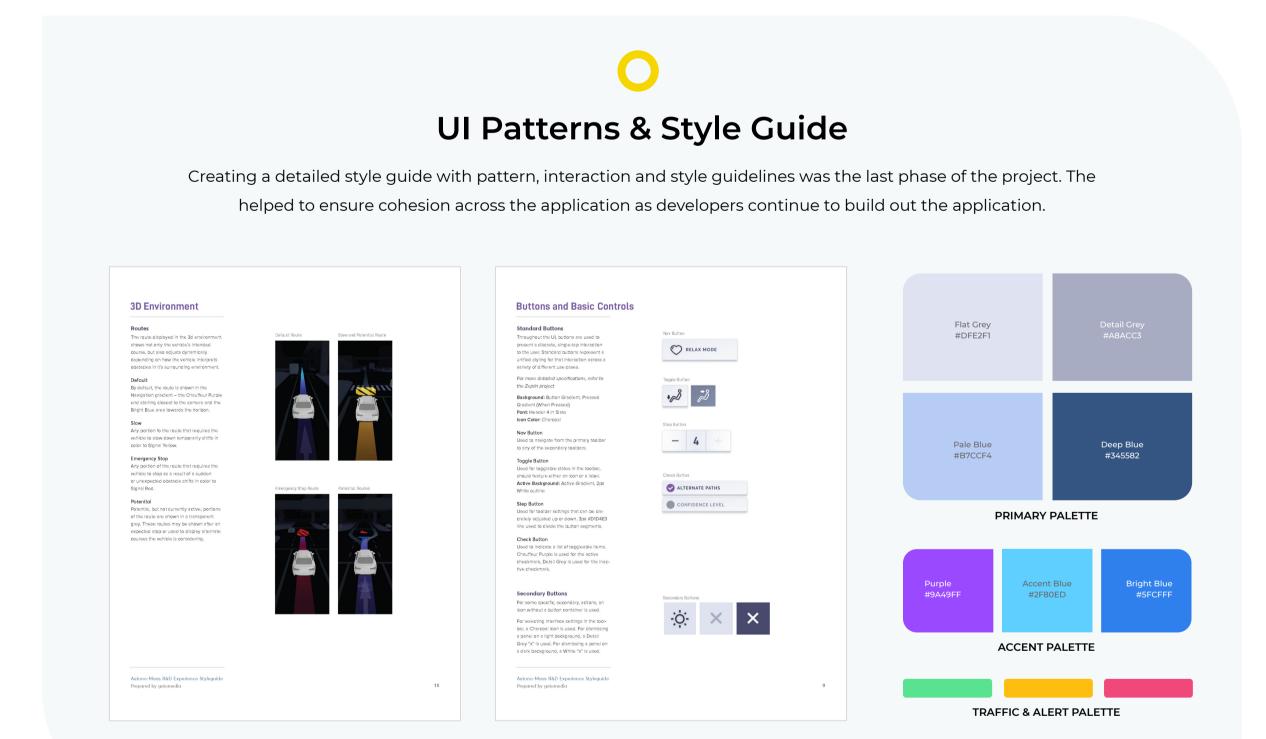


DATA LAYERS

The confidence data layer shows how the AI can detect and determine people and objects around the vehicle.

• 3 technical views

Camera view





Upon pickup, passengers are take to a selected predetermined location. After being seated and the safety check, details are provided on ways to engage with the interface and car, and points of interests along the route.

START RIDE

INTRO ANIMATION

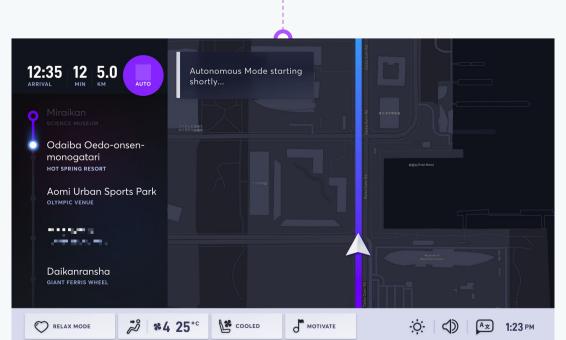
BIRD'S EYE

MAP VIEW

POINTS OF INTEREST

Please enjoy the Toyota Autono Maas B&D Experience





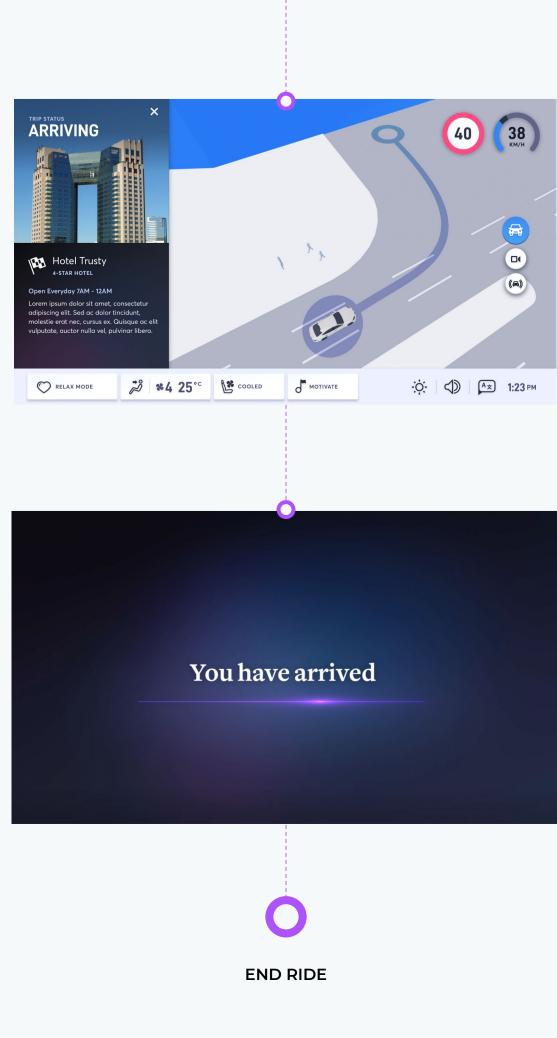




RIDE START

SAFETY ALERTS

POINT OF **INTEREST DETAIL ARRIVAL VIEW**



3D ROUTE VIEW DATA LAYER CONTROLS

