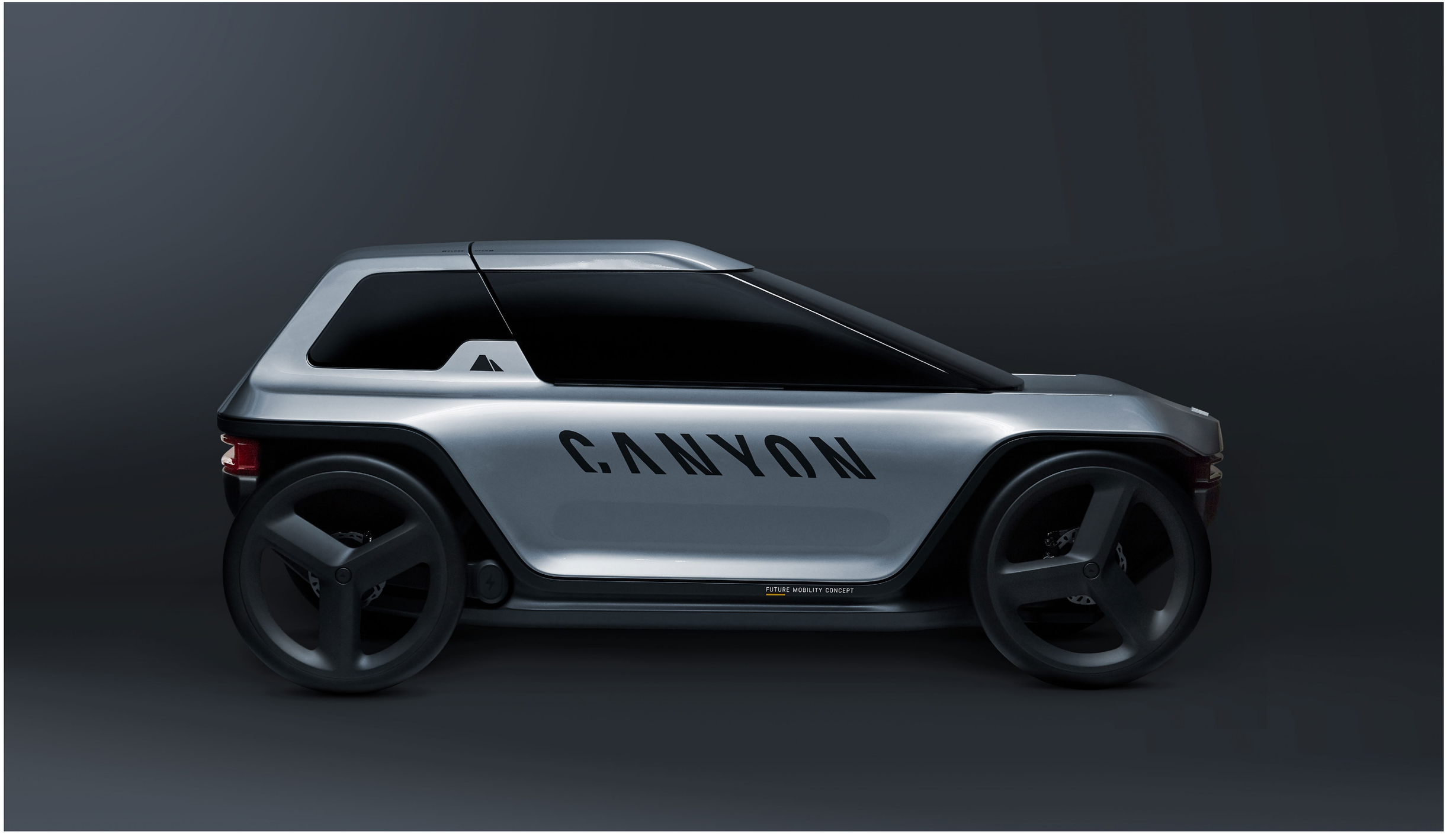
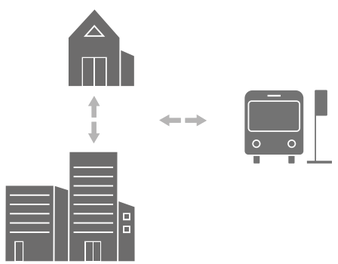
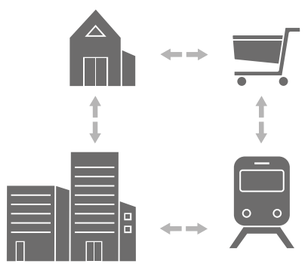
CANYON


CANYON
FUTURE MOBILITY CONCEPT

CONTENTS

CANYON FUTURE MOBILITY CONCEPT

URBAN MOBILITY USER SCENARIOS

LAST MILE	COMMUTER:ON	PRECEDE:ON	EBIKE 45 KH/H	CARGO BIKE	FUTURE MOBILTY CONCEPT
					
					
					

CYCLING FOR YOU

SAVE MONEY

3,540 €/YEAR

A pedelec costs about 1,176 € per year.
A car costs about 4,716 € per year.

SAVE TIME

161 H/YEAR

German car drivers spend an average of 120h per year in traffic jams.
Germans waste 41h a year looking for a parking space.

BE HEALTHY

5,5 YEARS

An active lifestyle through cycling increases
life expectancy by up to 5-6 years.

Index: Kostenvergleich Veloplan 2/20 – Verkehrsdaten Inrix 2017-2018 – Lebenserwartung: City of Copenhagen 2017

CYCLING FOR ALL

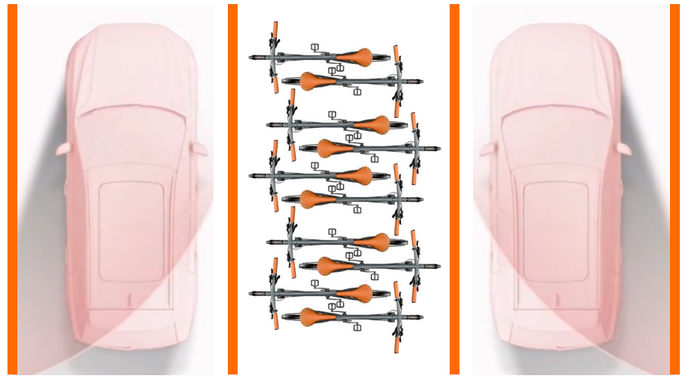
SAVE MONEY

+30 CT / -20 CT

Bicycle benefit for the society per km.

Car costs for the society per km.

SAVE SPACE



10 Bicycles fit on one car parking space.

FOR THE ENVIRONMENT

2,7 %

The CO2 emission of an e-bike is 2.7% of the CO2 emission of a car.

Index: Kostenvergleich Veloplan 2/20 – Fahrrad-Stellplätze ADFC – Energieverbrauch Veloplan 2/20

URBAN MOBILITY

The city is changing. Decades of car-centric urban planning is being turned on its head and a simpler, more elegant form of mobility is returning to the forefront: the bicycle. Dodging traffic and eliminating the dreaded search for parking, e-bikes have made getting around town easier than ever and they are only improving.

Bringing together modern, intuitive design, integrated features and unparalleled performance, one revolutionary concept and two new e-bikes represent the next step in urban mobility. Whether you're commuting to work, pedalling to the grocery store or just going out for a joy ride, our designers and engineers considered every tiny detail to create innovative solutions that make navigating the city faster and simpler than ever before.

A BETTER MORE MOBILE FUTURE

Metropolitan areas are growing and with that growth comes more traffic, worse air pollution and greater amounts of CO2 released into the atmosphere. In cities across the globe, officials and urban planners are scrambling to come up with creative ways to address these issues, but they need all of the help they can get. To help shape the future of transportation, we teamed up with the Technical University of Aachen to design a new and innovative solution.

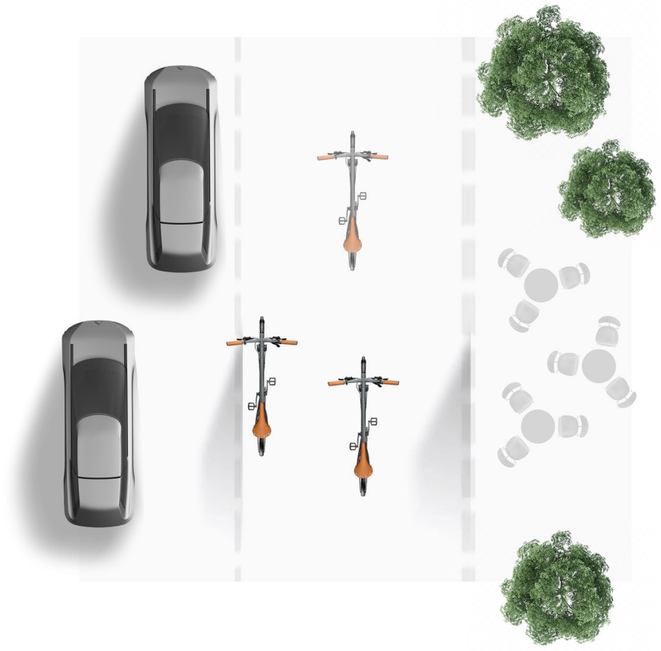
Bridging the gap between e-bike and car, our future mobility concept presents a revolutionary alternative to both the automobile and the bicycle. Combining the next generation of lightweight and powerful e-bike design with four-wheel stability and storm-proof protection from the elements, our Future Mobility Concept represents a decisive step in re-imagining how bicycle technology can reclaim space on the streets. It is a clean vehicle, a statement, and a sign of what's to come.

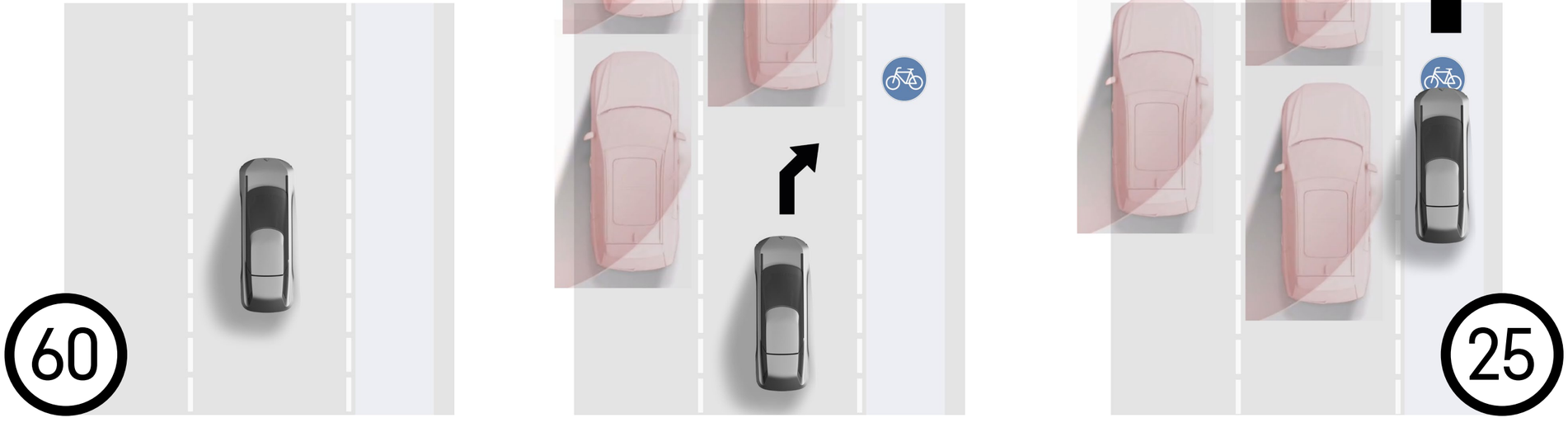
BRIDGING THE GAP

We're so used to jumping in our cars that they often become the default choice, but sitting in bumper-to-bumper traffic, it's hard not to watch with jealousy as cyclists fly by in the bike lane. Yet even as the popularity of e-bikes skyrockets in urban areas, 45%* of potential users still want a form of transport that is protected from wind, rain and snow.

Enter our FUTURE MOBILITY CONCEPT. Designed to seamlessly jump from the street to the bike lane, this low-emission vehicle merges the best parts of cars and e-bikes into one to make it the ultimate daily commuter. It's fast and stable enough to fly down the open road, yet light and agile enough to slide into the bike lane when things get backed up. The next step in mobility is here.

*Based on a McKinsey study of micro mobility

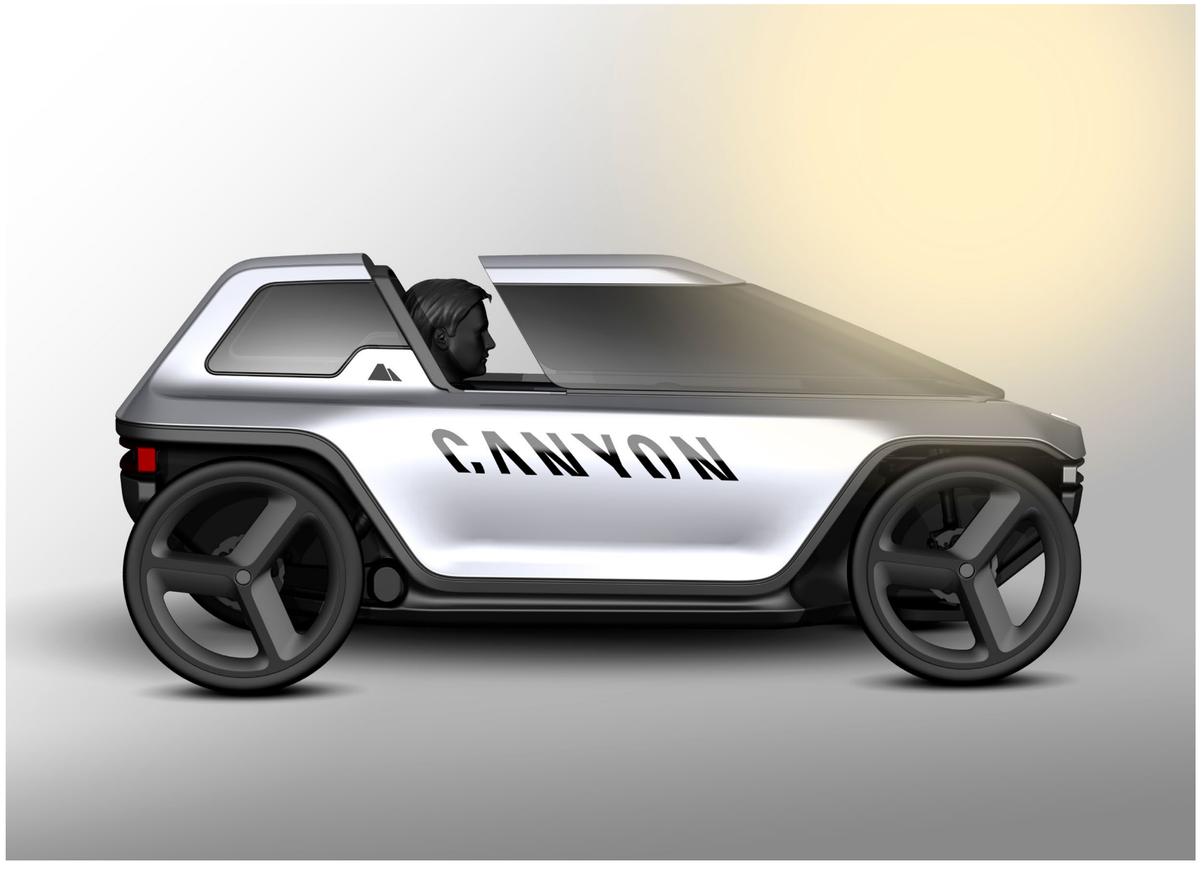


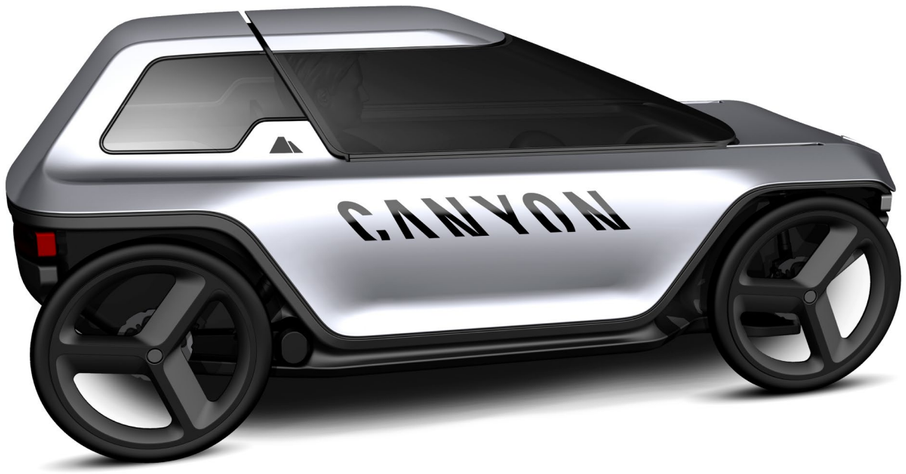


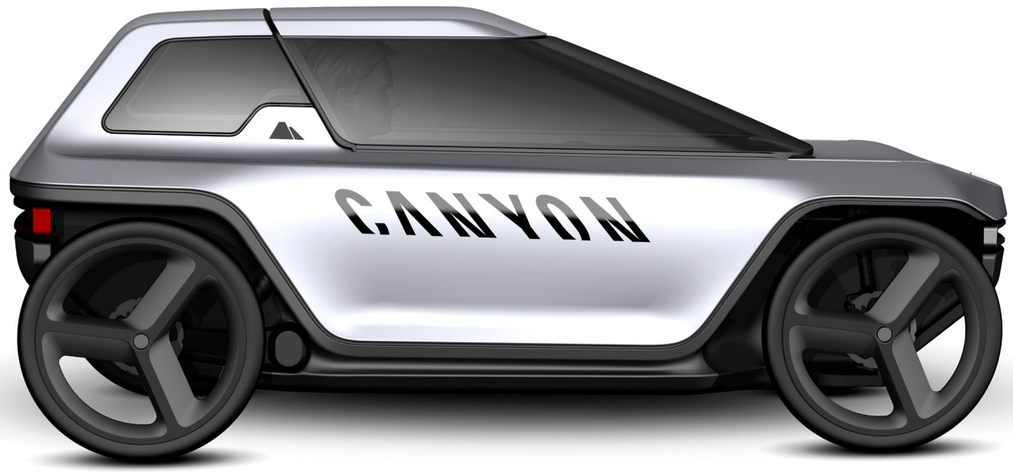
CAPSULE CONCEPT

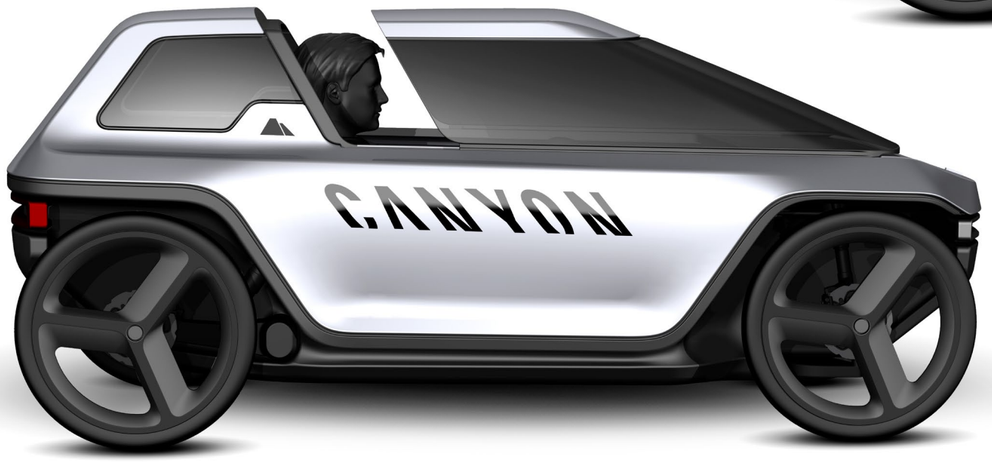
How do you bring total weather protection to an e-bike? This is the question our designers and engineers had to answer with the Future Mobility Concept. The solution is a totally-sealable passenger compartment surrounded by an innovative, panoramic capsule that strikes the perfect blend of form and function.

When not sealed to protect against the elements, the capsule can be slid forward along two rails to open the cockpit up. This 'open mode' is great when the weather is hot or if the rider wants that fresh-breeze feeling that comes with driving a convertible. The capsule even has enough space behind the rider to seat a child, load luggage or pack up groceries for the ride home. The capsule can then be slid even further forward for easy entry and exit of the vehicle.







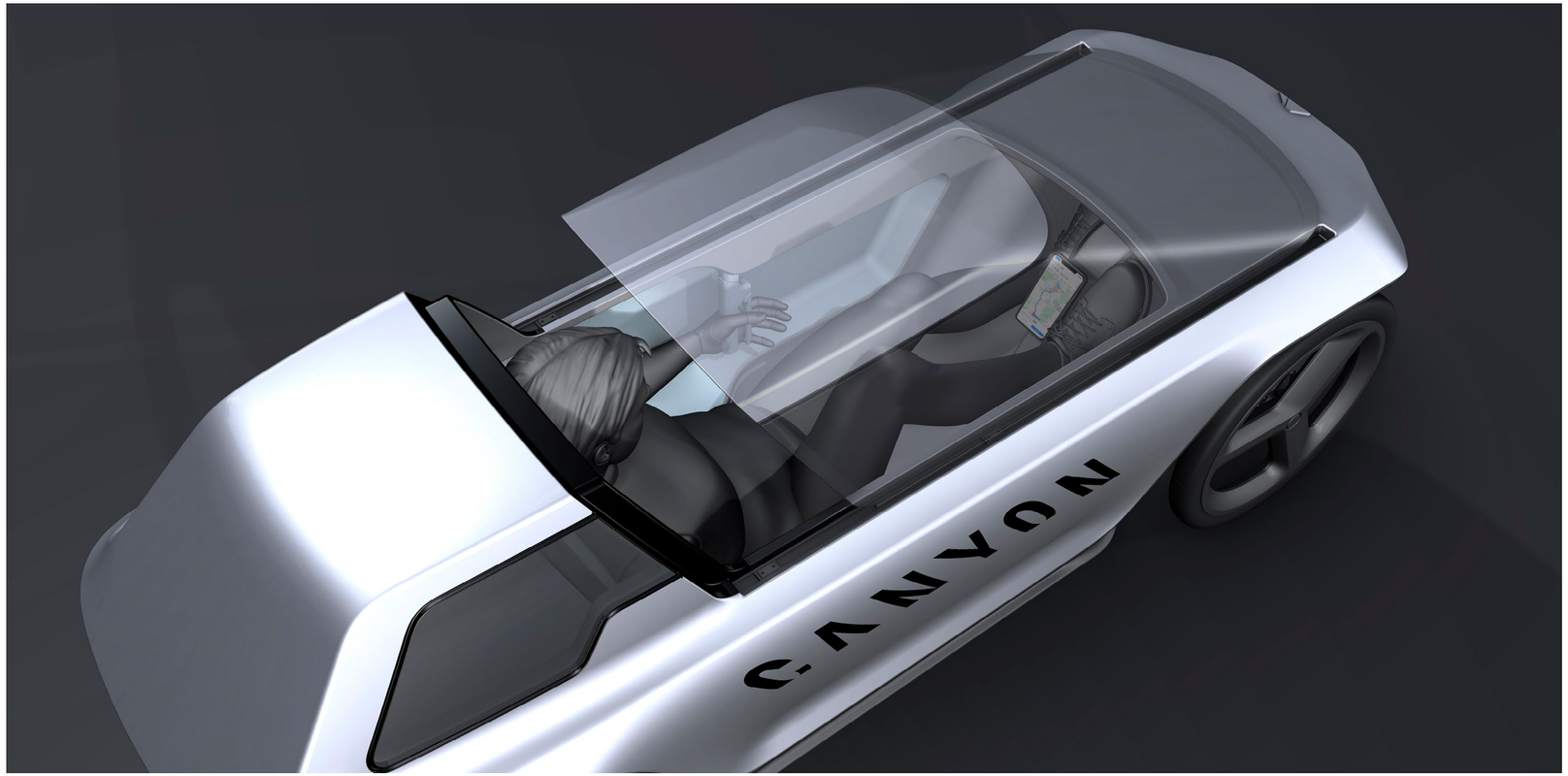


DESIGN

Simple. Precise. Dynamic. Those three maxims have dictated the award-winning Canyon design language for years and now they have manifested in our new Future Mobility Concept. The futuristic aesthetic of the concept blends modern bike and automobile design, while the clean, reduced silhouette further communicates the lightweight and aerodynamic build of the vehicle.

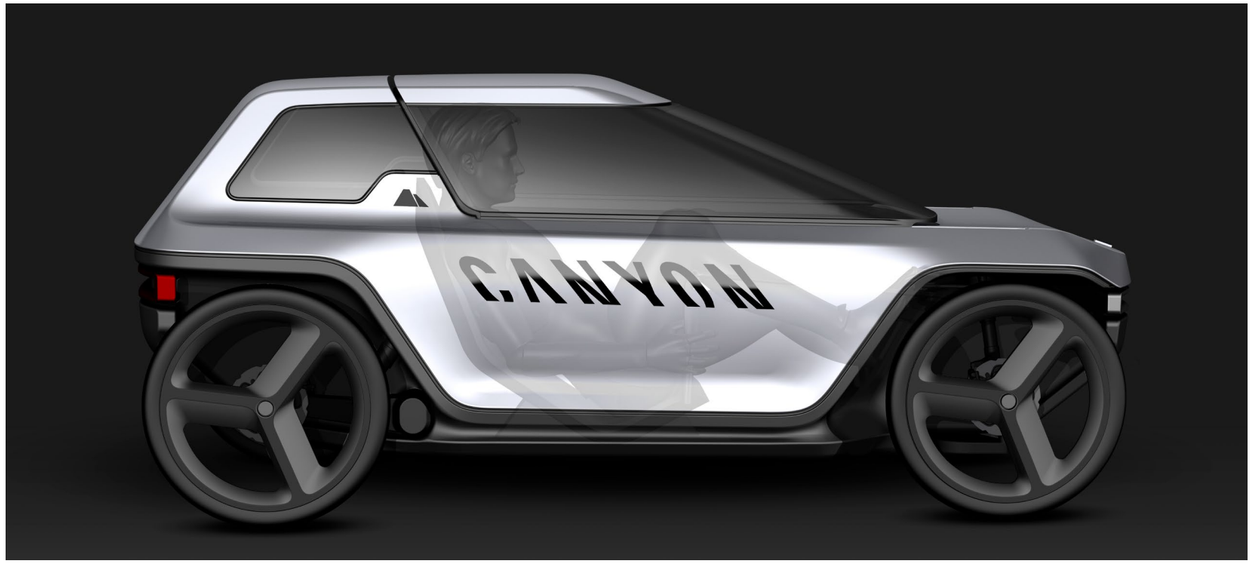
Thanks to a narrow width of 83 cm and short height of 110, the striking and balanced design appears distinctly compact. The aesthetic unity of the concept works with the capsule both open and closed, and when half-open, the capsule's design merges with the front of the vehicle for a dynamic, new appearance. Seamless side panels impress with their discreet transitions and the tidy silhouette is further pronounced by flared wheel wells and a clear separation between the capsule and body. This dividing line along the side blends discreetly into the roof making the main body appear even lighter.

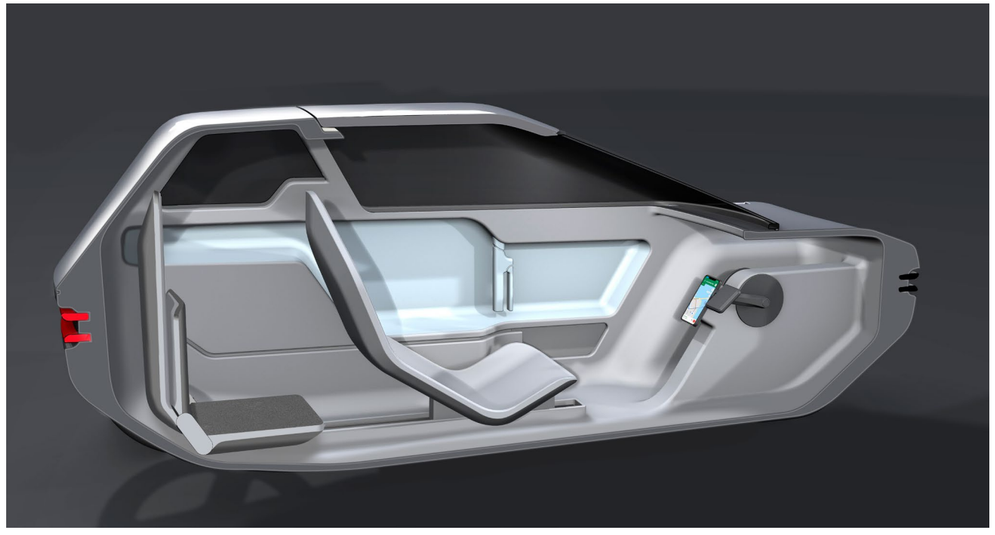
Ultimately, the design evokes the idea of urban simplicity and a newer, better way of navigating the city – just like the new Precede:ON e-bike. Together, they represent a unified design for a more mobile future.

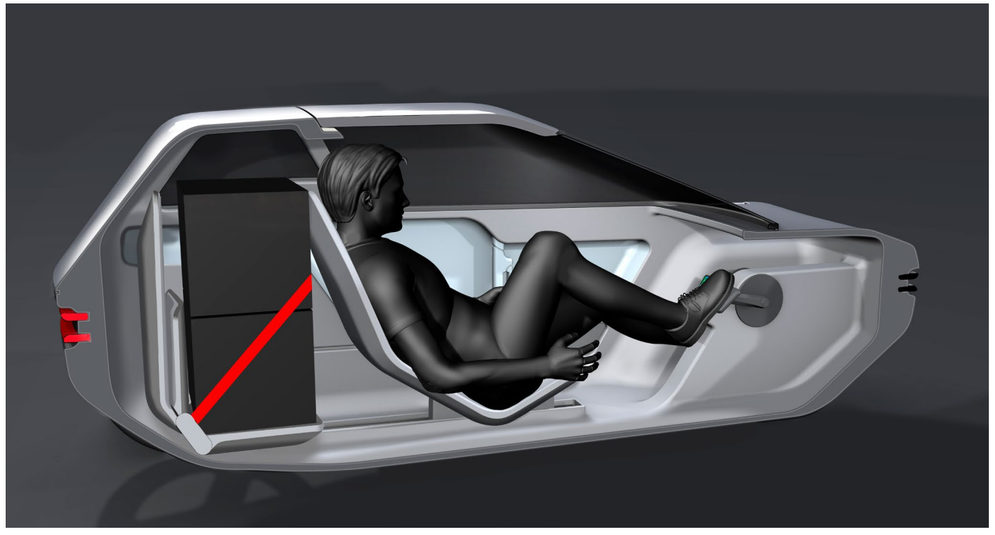


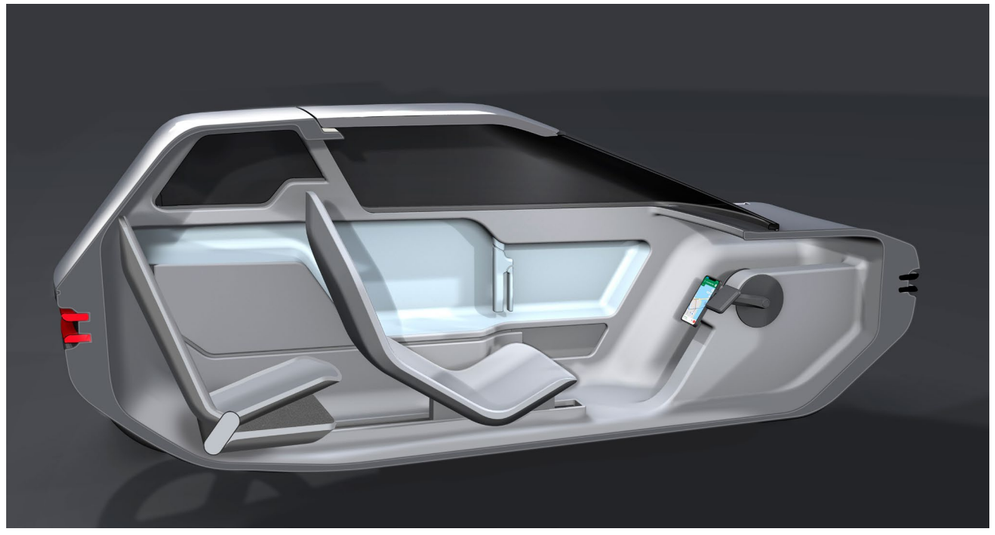
ERGONOMICS

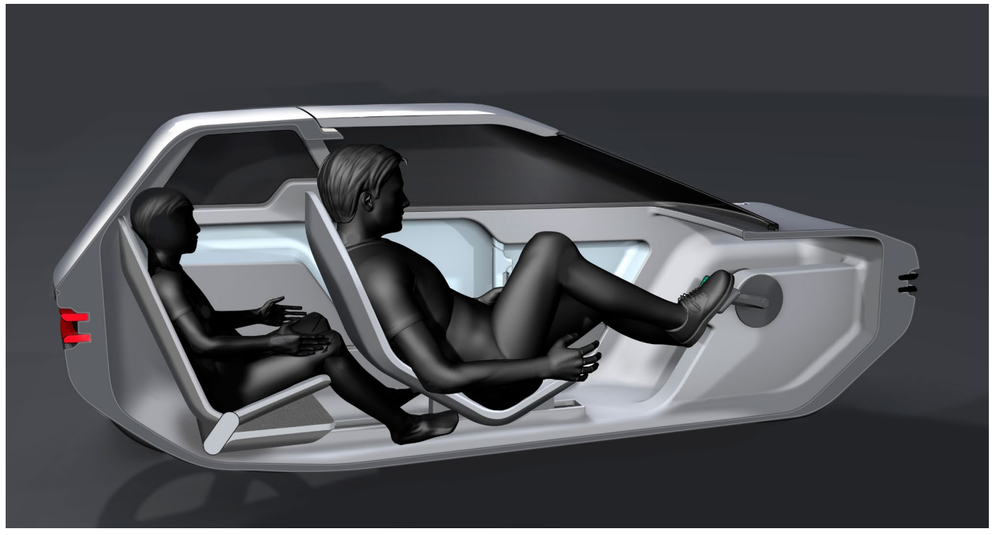
Similar to a recumbent bicycle, the concept places the rider in a comfortable laid-back position with their feet on the pedals. The concept is manoeuvred using intuitive side stick steering where two joysticks positioned by the rider's left and right hips turn the vehicle through its acute, 7-metre turning radius. The result is a comfortable and agile system that makes commuting safe and simple all while keeping the rider protected from the elements.











FUTURE MOBILITY CONCEPT FAQ

HOW IS THIS DIFFERENT FROM AN E-BIKE?

Unlike an e-bike, our FUTURE MOBILITY CONCEPT has four wheels and a unified outer shell to protect riders from the elements. It also has room to seat a child or heavy luggage behind the rider.

HOW IS THIS DIFFERENT FROM AN ELECTRIC CAR?

While the concept may look more like a car, it still functions largely as a bicycle. To move the vehicle forward, riders need to be pedalling and the steering is located at the rider's hips, similar to the under seat steering of some recumbent bicycles.

WHAT ADVANTAGE DOES THE CONCEPT VEHICLE OFFER TO CITY RESIDENTS?

The concept gives daily commuters an alternative to sitting in traffic while presenting cyclists with an alternative to riding in poor weather. The vehicle bridges the gap between car and bike to present a unique solution to urban commuting.

WILL CANYON BRING THE FUTURE MOBILITY CONCEPT TO THE MARKET OR IS IT JUST AN CONCEPT?

At Canyon, we firmly believe that the future of our cities lies with new, clean forms of mobility: and we're committed to contributing to their development. Currently, we are re-orienting ourselves in the area of City & Trekking bikes, and we will focus strongly on urban mobility in a broader sense in the future. In the coming years we will launch more urban bicycle solutions, but the implementation of other concepts like this will also be intensified. The concept gives us a vision that we want to work towards – quickly.

IS THERE A CHANCE TO SEE THE FUTURE MOBILITY CONCEPT IN REALITY?

Yes, in addition to the Precede:ON CF, the Commuter:ON, the FUTURE MOBILITY CONCEPT will also be exhibited in the Canyon Showroom in Koblenz from 01.09.2020.

WHAT IS THE PLANNED RANGE?

With about 2000Wh a range of 150 km is feasible according to the WLTP-test cycle (in speed reduced segment of the cycle (<60km/h) Planned range is about 150 km but can be doubled easily.

WHAT CAN I TRANSPORT AND HOW?

A child aged around 11years old (~the age where they go to secondary school) / circa 140cm tall.
A big volume (such as 3 crates of beverages and additional other things)
Behind the driverseat is another hybrid seat / storage mounted on the same rail as the driverseat. To load, just slide the driverseat forward, flip it (like in a car) and pull the hybrid seat forward (to the ingress/exgress area). Then load and slide back.

WHAT ARE THE DIMENSIONS OF THE FUTURE MOBILITY CONCEPT?

830mm x 1011mm x 2300mm
Wheelbase 1680mm
Trackwidth front / rear 760mm
20" 451x50 tires
~7m turning radius

HOW MUCH WILL THE CONCEPT WEIGH?

Around 95 kg

HOW CAN I PROTECT THE CONCEPT AGAINST THEFT?

You only can open the capsule or start the engine, if you connect your personal smartphone with the Concept.

HOW CAN I CHANGE THE MODE BETWEEN ROAD AND BIKE LANE?

The idea is that you switch the mode on the screen and the speed will be limited by the system.

HOW CAN I CHARGE THE CONCEPT?

Like an eBbike with a snooker or by removing the battery and take it home.

CAN I CHARGE THE CONCEPT AT CAR CHARGING STATIONS?

Only on stations which are made especially for eBikes.

IS THERE A POSSIBILITY OF SMARTPHONE INTEGRATION?

Yes. It´s in the center console in the interior between your legs. All the main functions are controlled via smartphone.

ARE SEAT BELTS OR OTHER SAFETY COMPONENTS AVAILABLE?

Yes. To protect the driver, there will be a belt. Other safety components are front shock absorbers such as foam-core structures / the fully surrounding and rigid structure of ingress/exit edge as well as a roll-over-structure. The neck of the driver is supported by the seat as well.

DOES THE CONCEPT HAVE HEADLIGHTS?

Yes, head and rear lights.

IF IT RAINS, IS THERE AN OPTION TO TURN ON THE WIPERS?

Yes. You will not see them on the concept, but for a production version, you will have one.

IS THERE A HEATING SYSTEM FOR THE WINTER?

Yes! It´s important to avoid that you don´t have fog on the windows.


CANYON

IMPRINT

CANYON BICYCLES GMBH
KARL-TESCHE-STRASSE 12
56073 KOBLENZ
GERMANY

T +49 (0) 261 9490 3000

CANYON.COM

27.08.2020