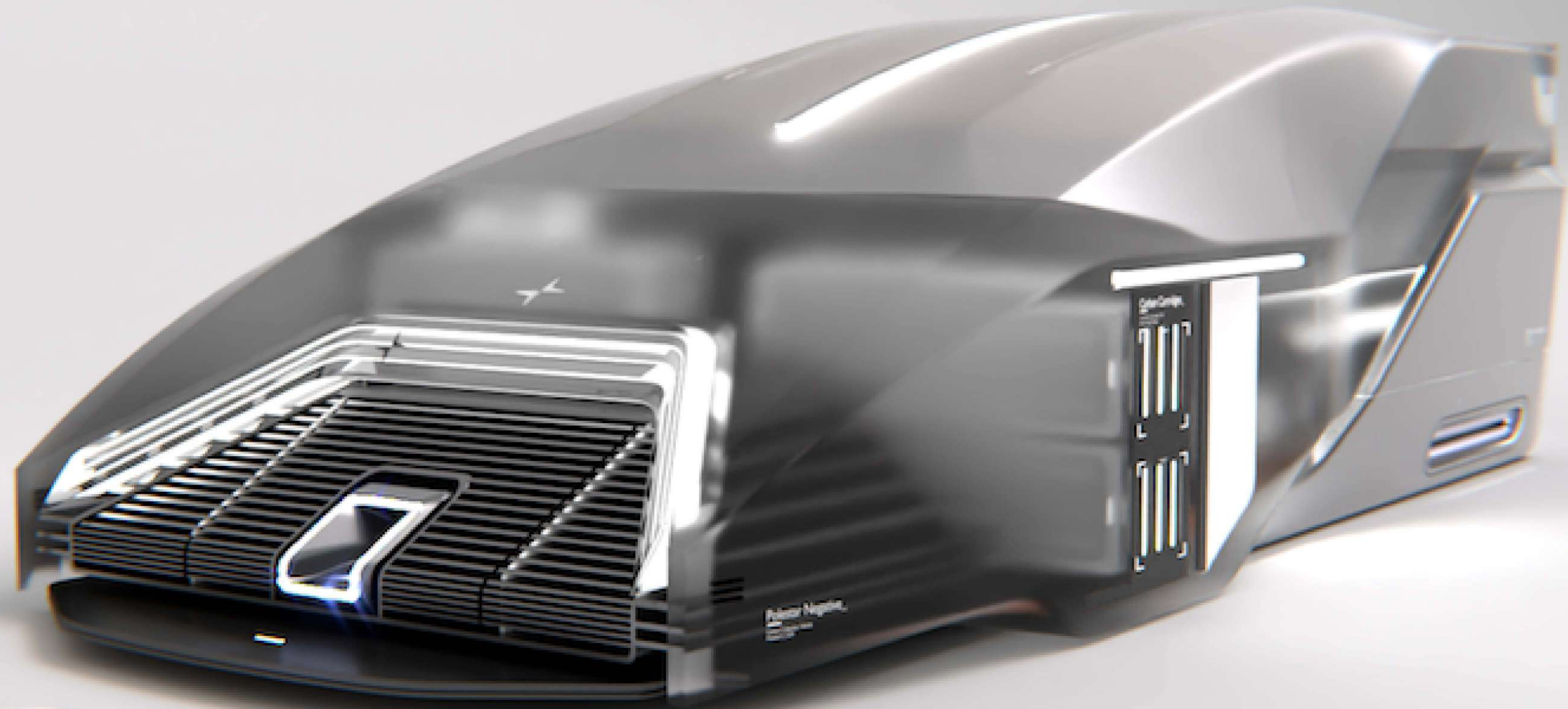


P O L E S T A R N E G A T I V E _

P O L E S T A R



POLESTAR NEGATIVE

Polestar Negative_

P R O J E C T E L E M E N T A L



Can carbon give life?

Concept: Carbon Capture

The central concept is capturing abundant carbon from the air and utilizing it to combat desertification through improving soil quality. Resulting in a negative carbon footprint.

CARBON AIR CAPTURE

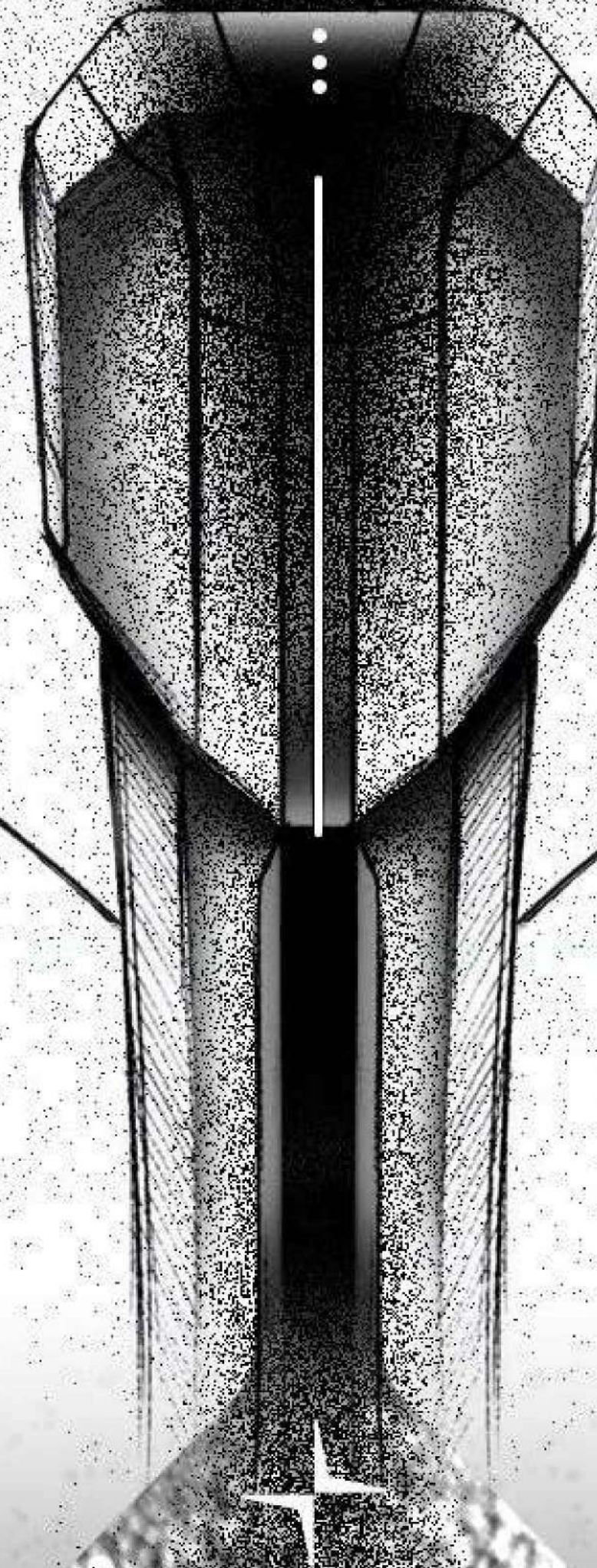
URBAN VEHICLE: POLESTAR NEGATIVE

CARBON PROCESSING

PROCESSING STATIONS

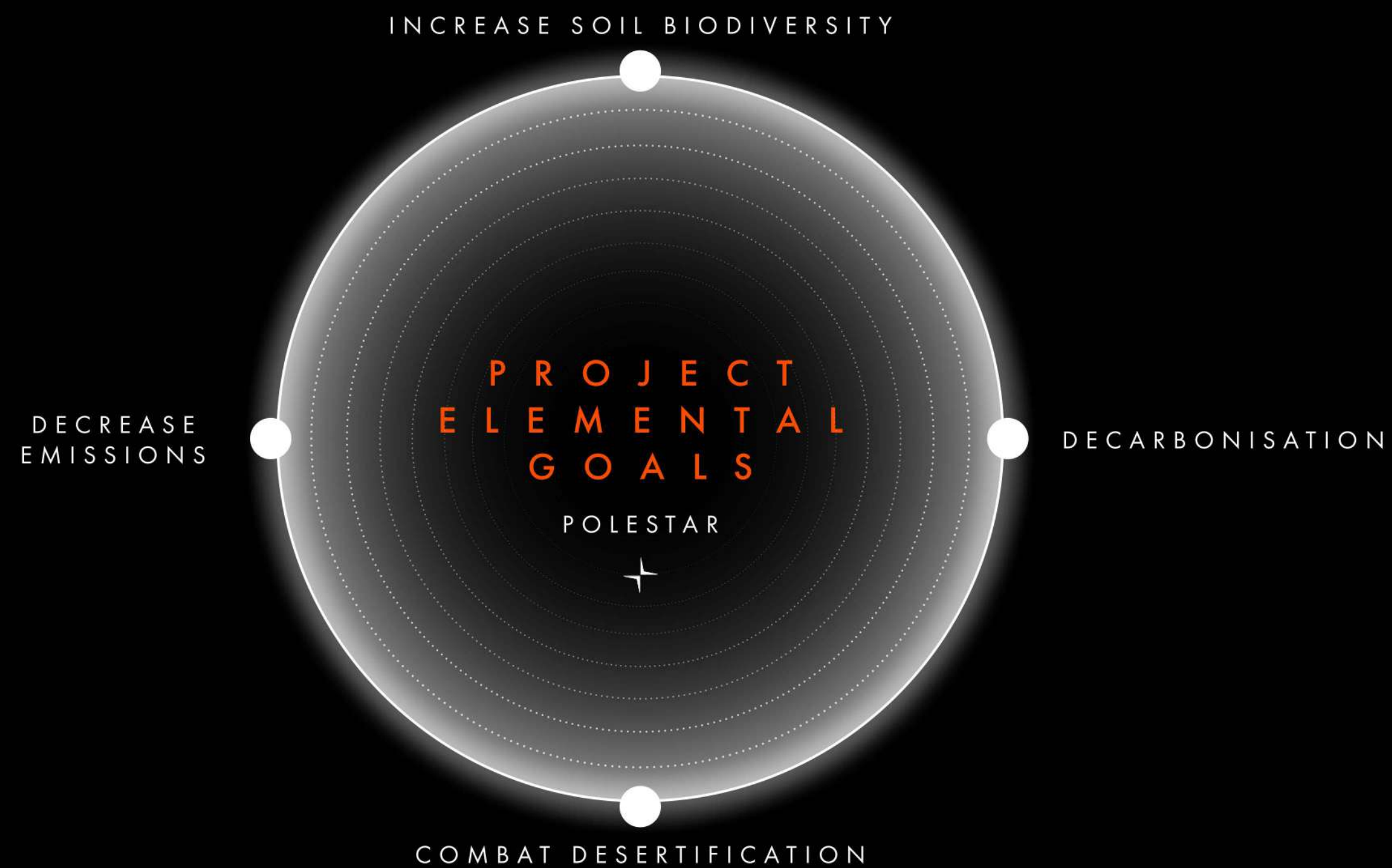
CARBON SOIL INFUSION

SOIL INFUSERS



Concept: Project Elemental

Project Elemental is the whole vision that encompasses the carbon collection movement between urban areas and rural areas in different regions around the world. The Polestar Negative is the central enabler of Project Elemental as it is the cog that collects the actual carbon, making it the most critical element in Project Elemental.



DIRECT AIR
CAPTURE
URBAN VEHICLE



CARBON
STORAGE &
PROCESSING
URBAN VEHICLE
& STATIONS



CARBON
INFUSION
INTO SOIL
SOIL INFUSERS





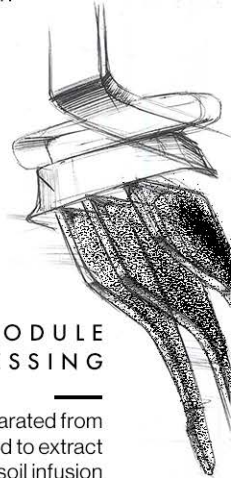
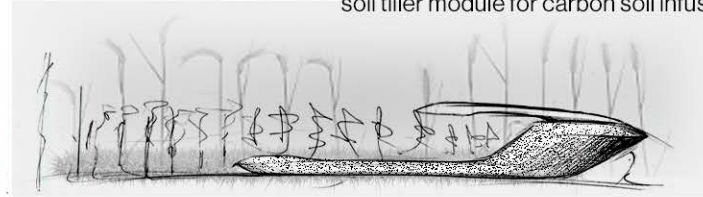
Concept Ideation

Polestar Negative_



CARBON SOIL INFUSION

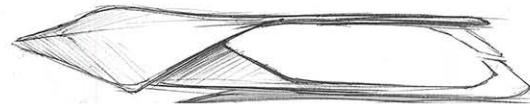
Carbon compost is placed inside specialized soil tiller module for carbon soil infusion



CARBON CAPSULE

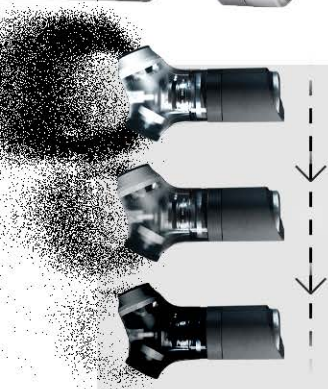
VISUAL DIVISION

Creating a clear division between user module and carbon module/capsule

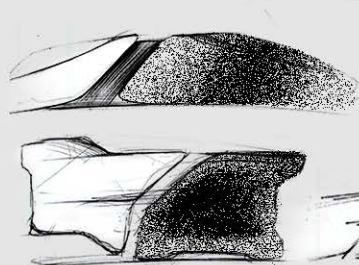


CARBON MODULE COLLECTION & PROCESSING

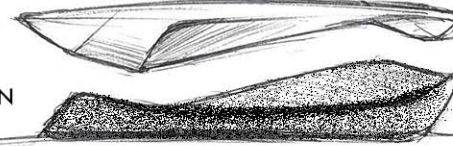
Carbon modules are separated from user modules and collected to extract or process carbon for soil infusion



CARBON AIR CAPTURE



VOLUME SEPARATION



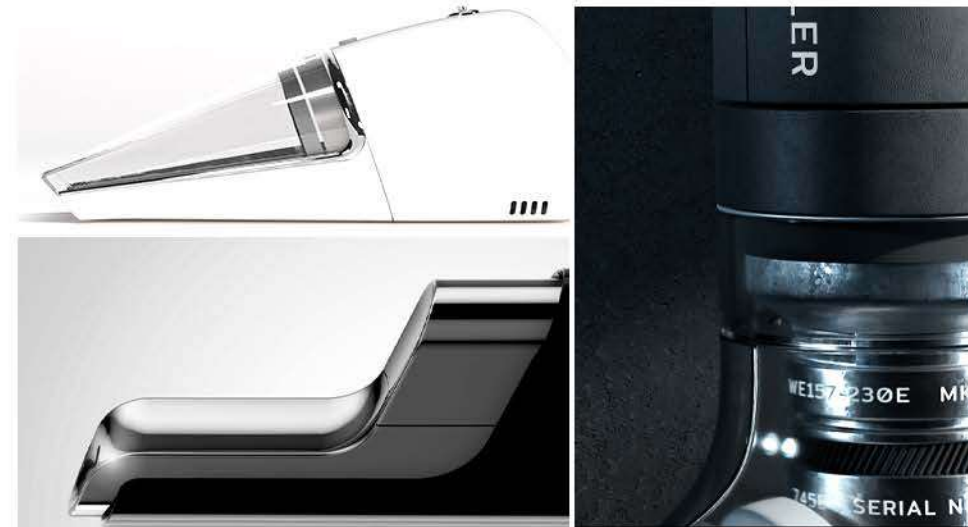
Direction 1

Inspiration

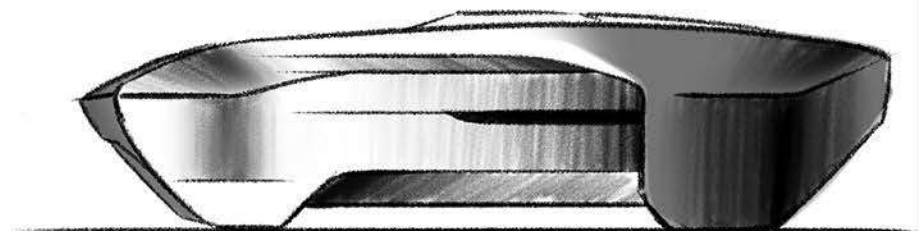


Direction 2

Inspiration



Monolithic Division



Linear **sculpted** surfaces

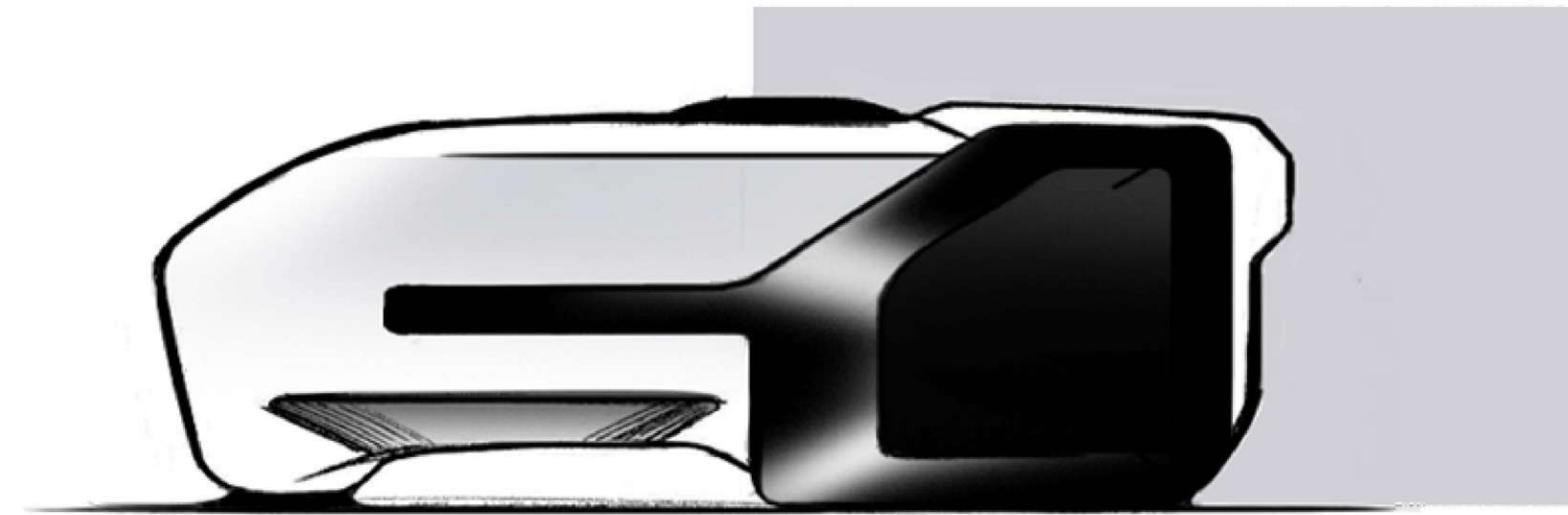
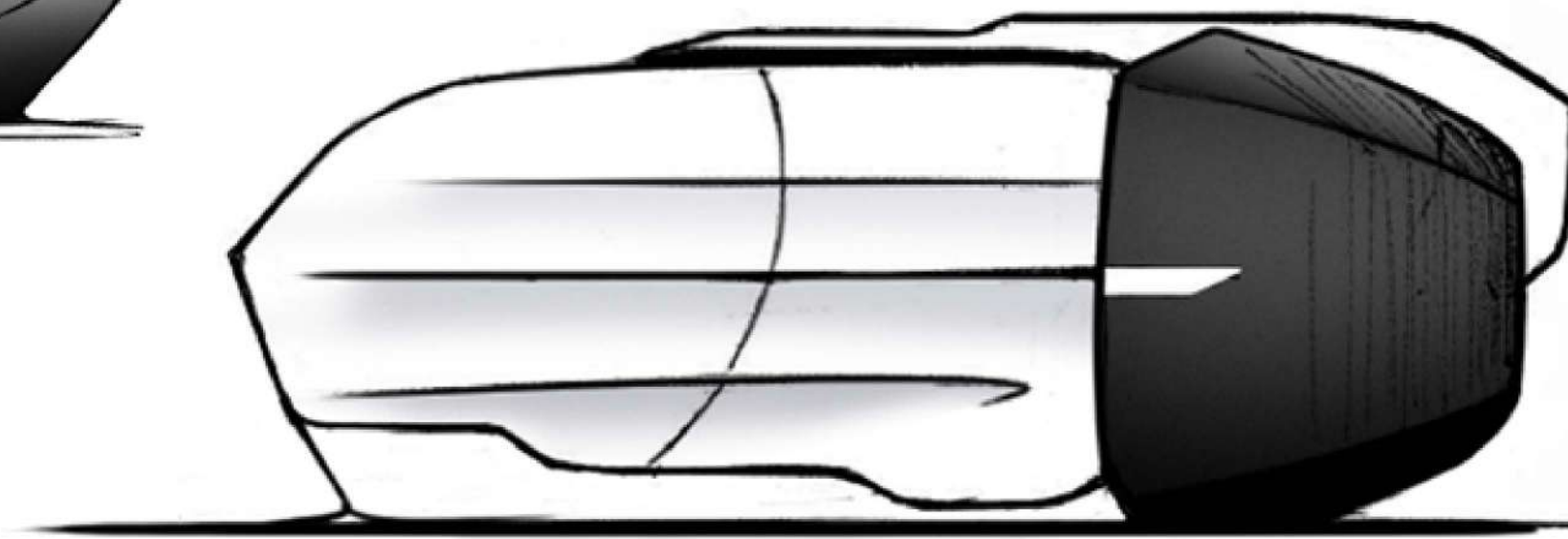
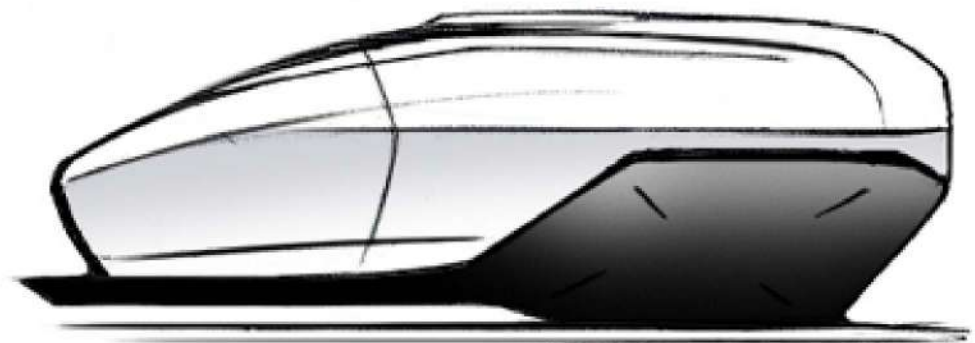
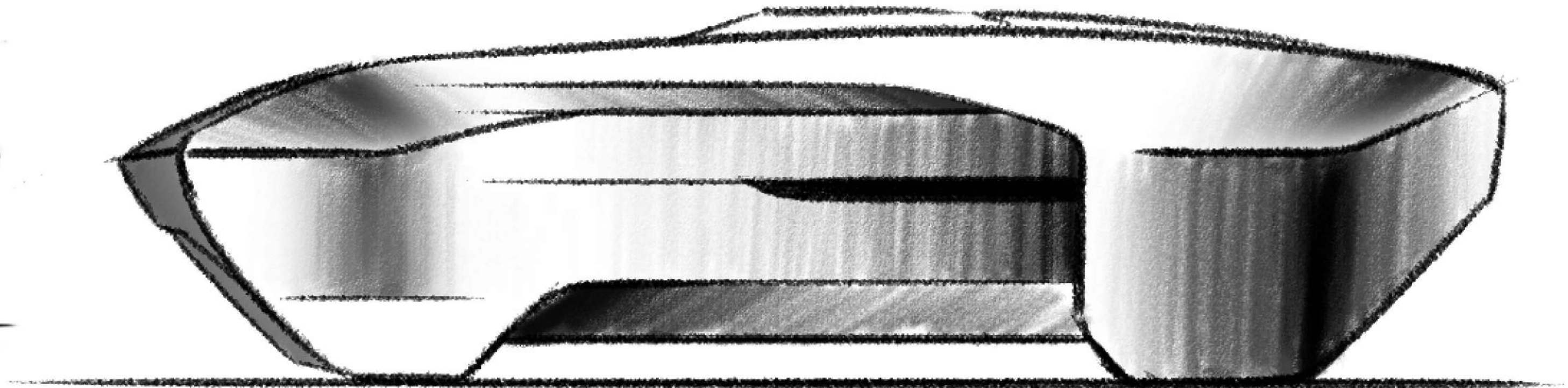
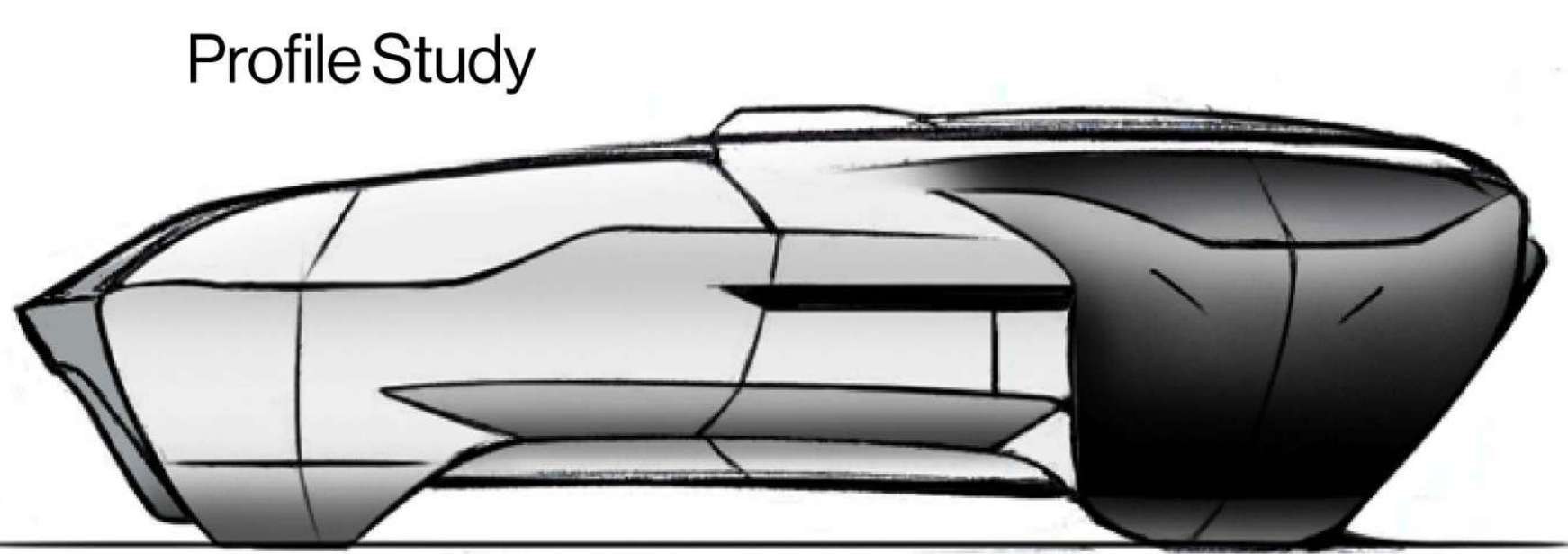
Angular Capsule



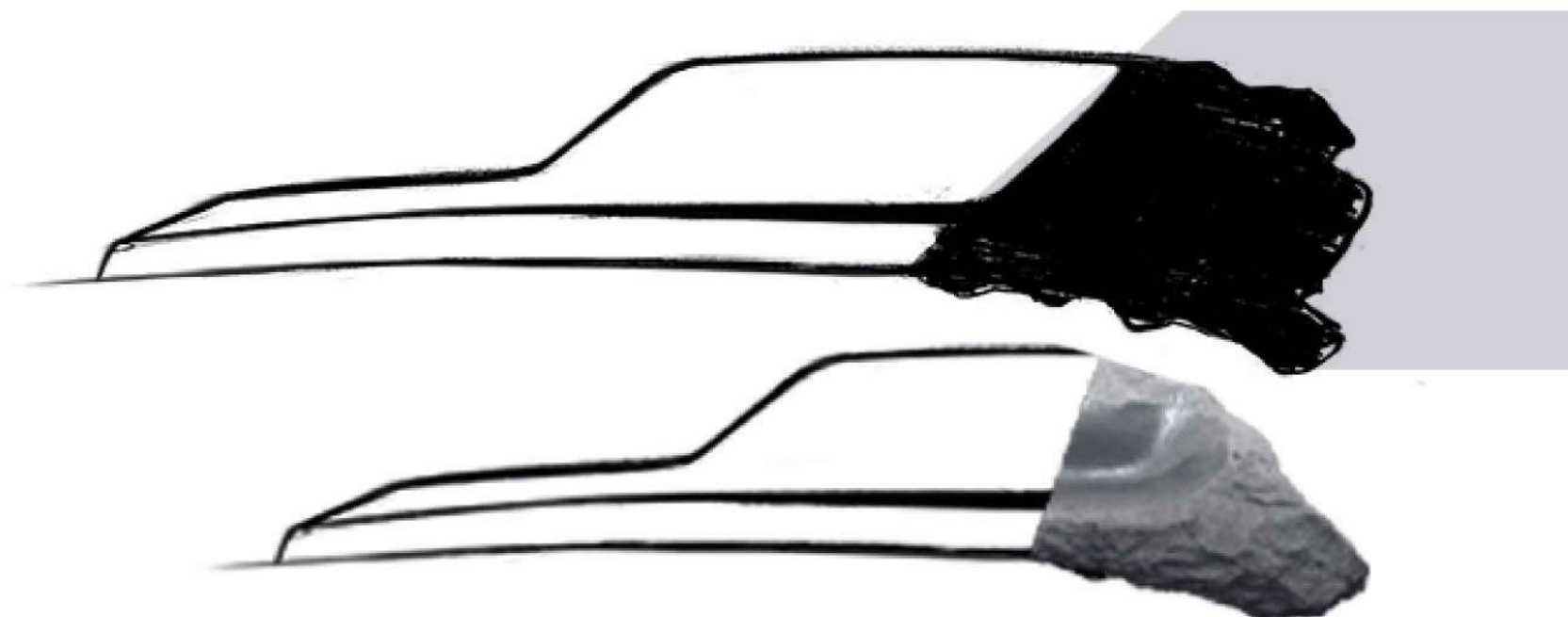
Translucent **sleek** capsule

Direction 1

Profile Study



Carbon rock division theme marking carbon storage location



Capsule volume with clear division for translucent/opaque cabin.

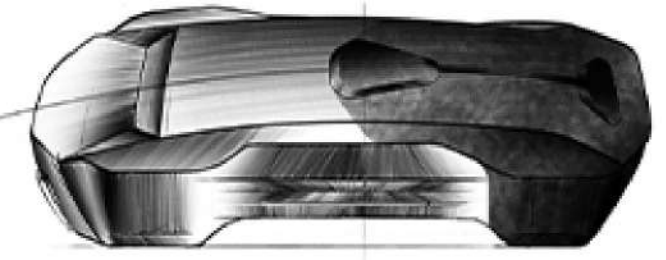
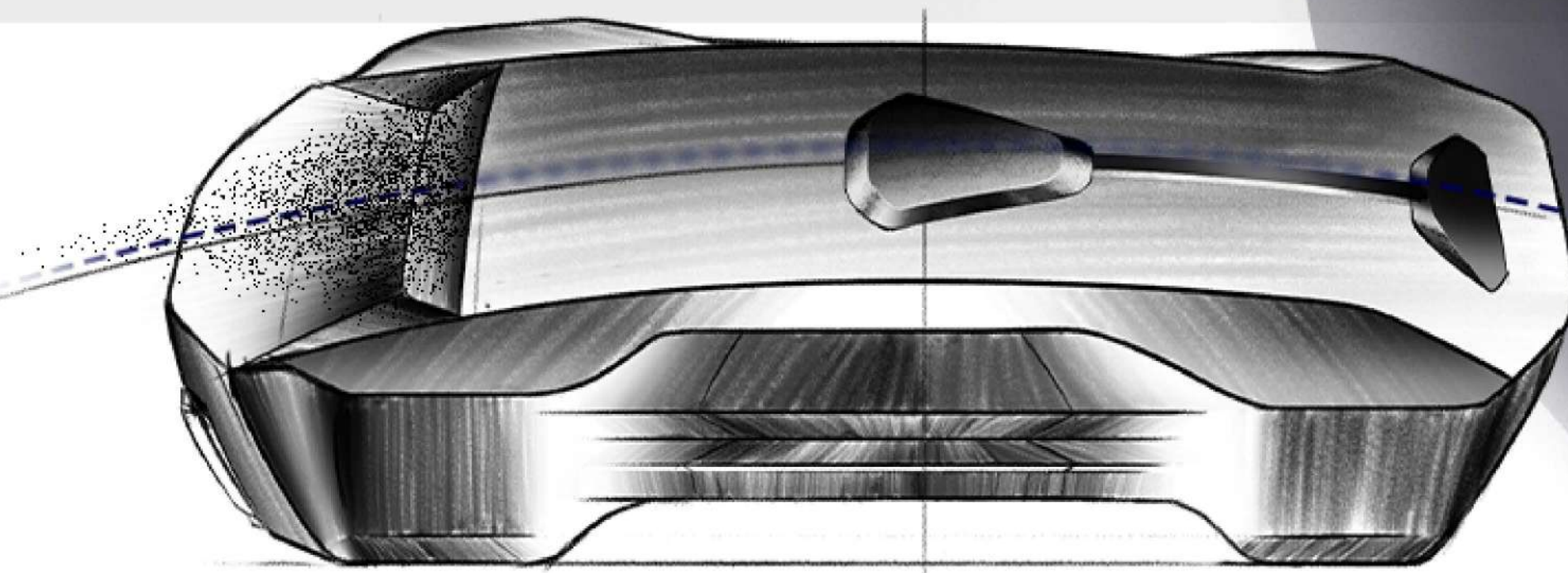
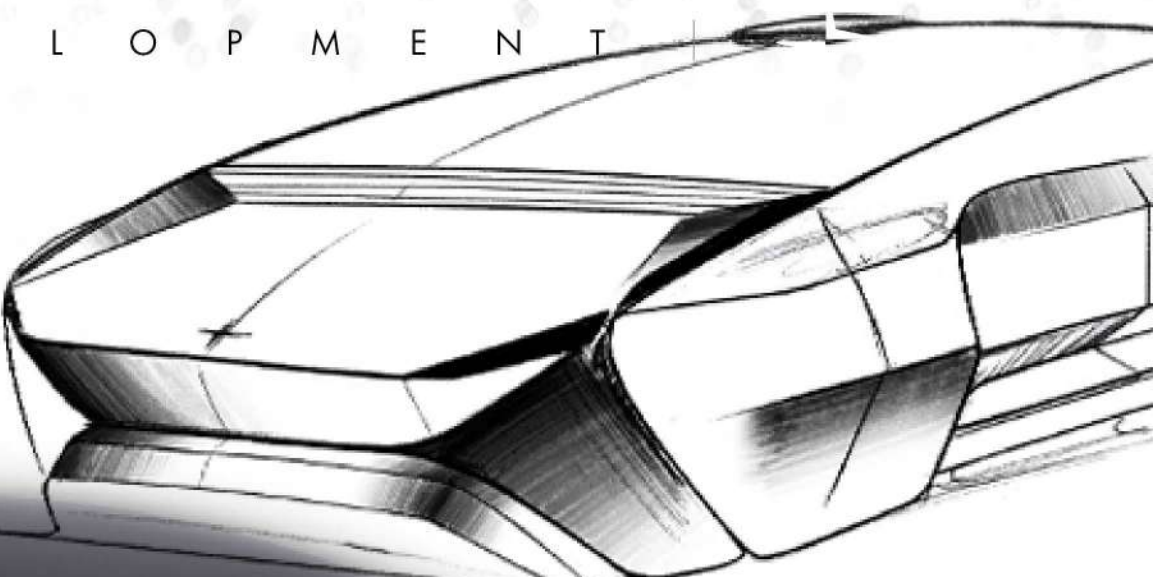


Direction 1
Front Ideations

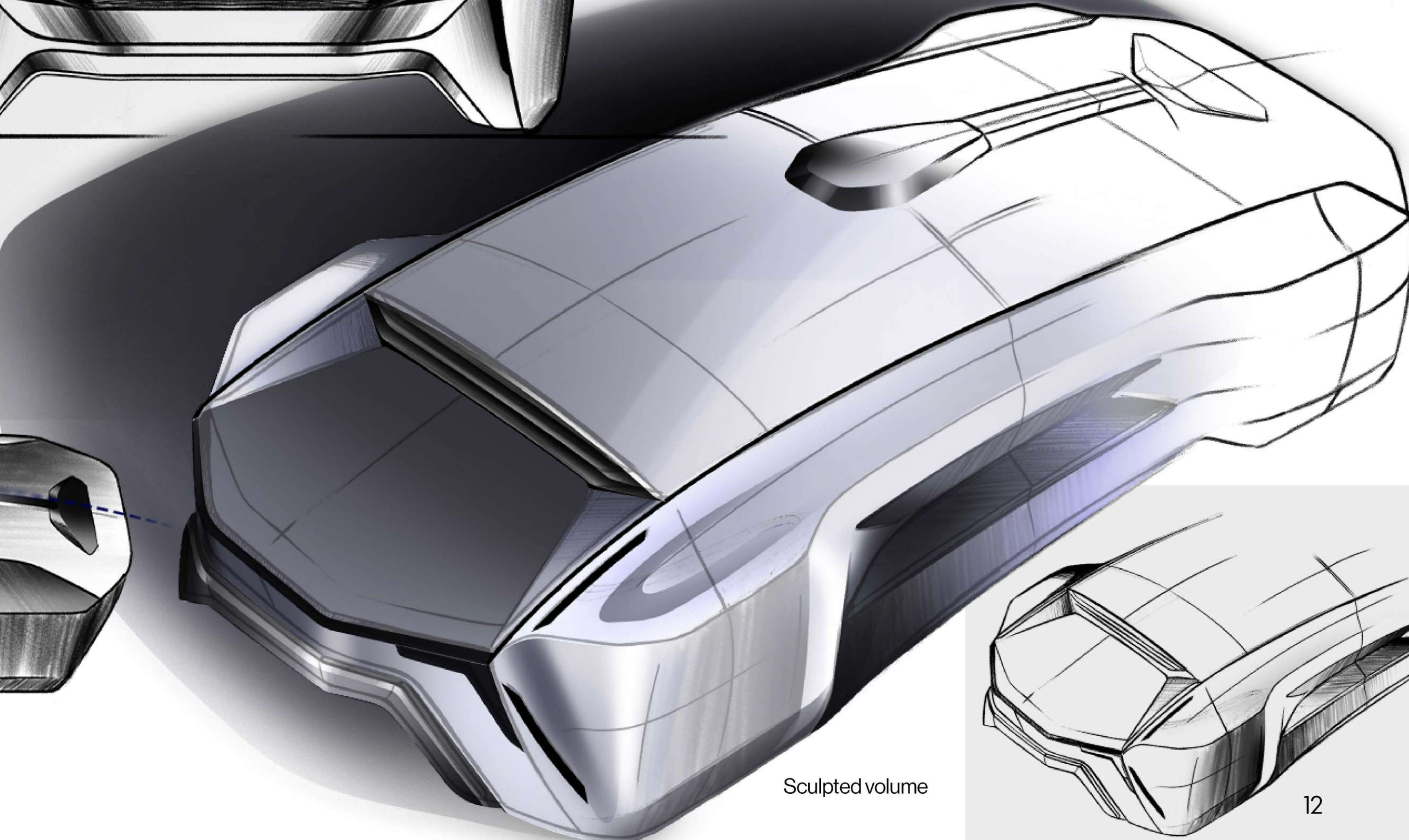
D E V E L O P M E N T



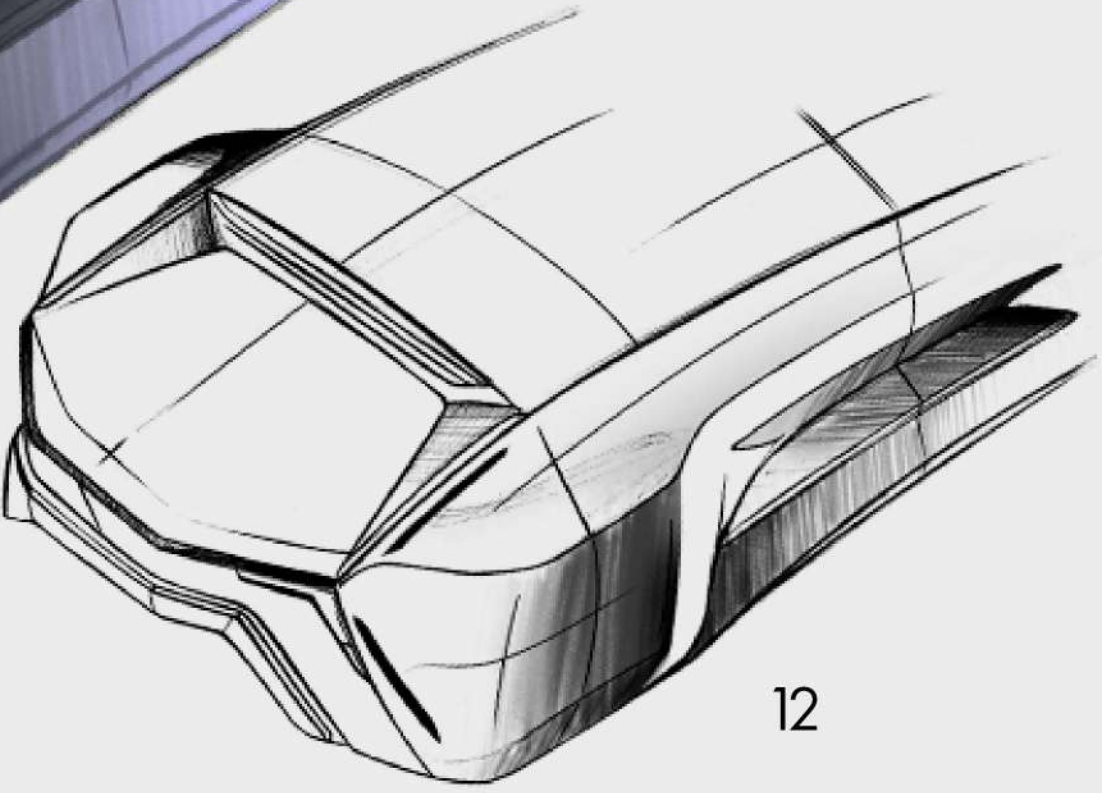
Different ideations of
Thor's Hammer



Carbon filter and suction
embedded to front.

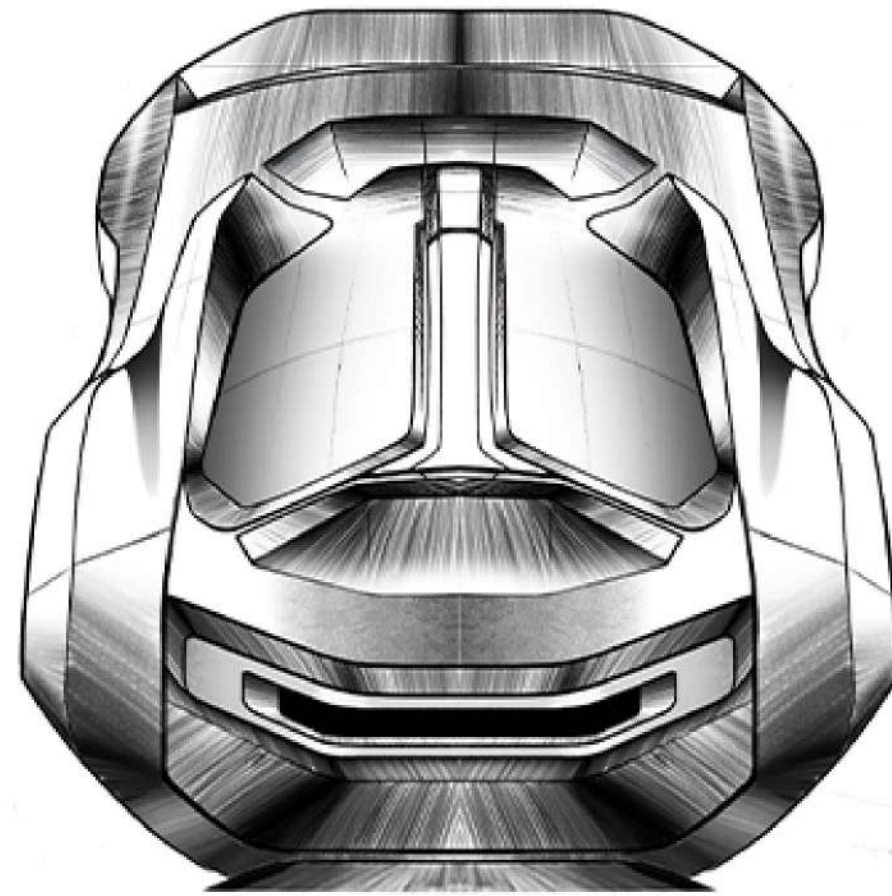
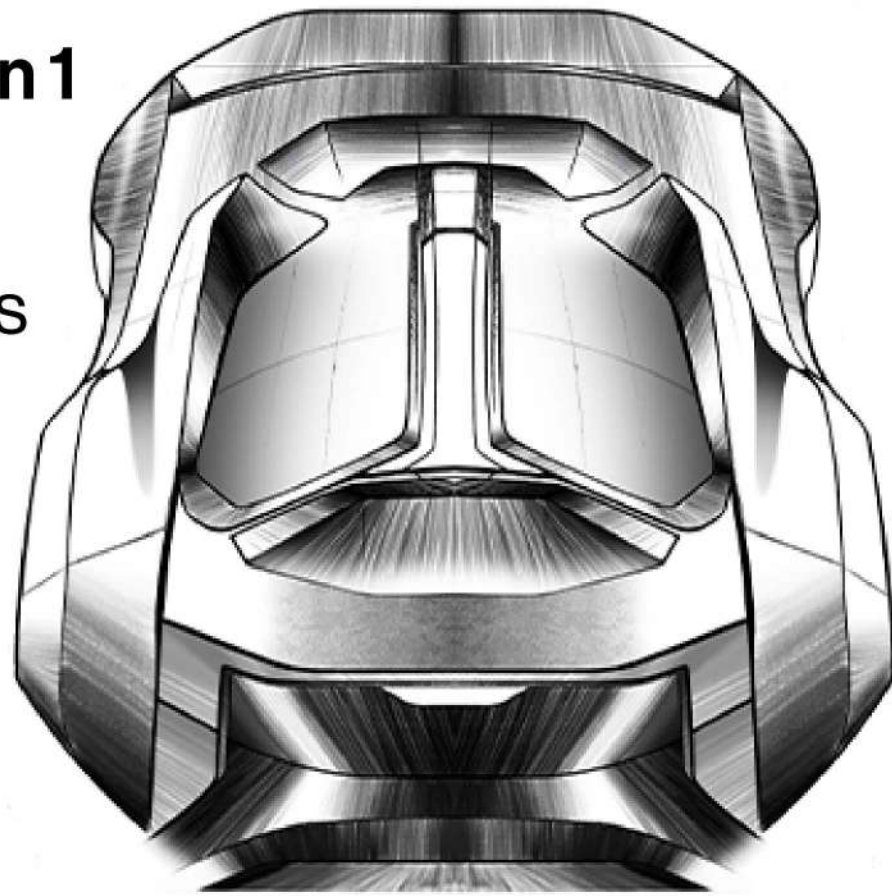


Sculpted volume

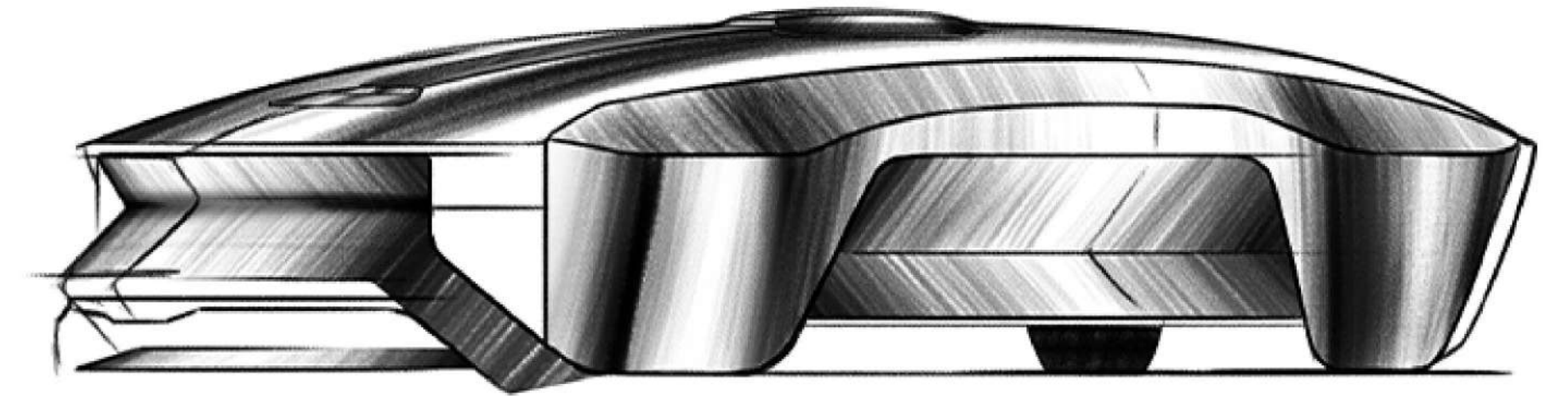


Direction 1

Rear
Ideations

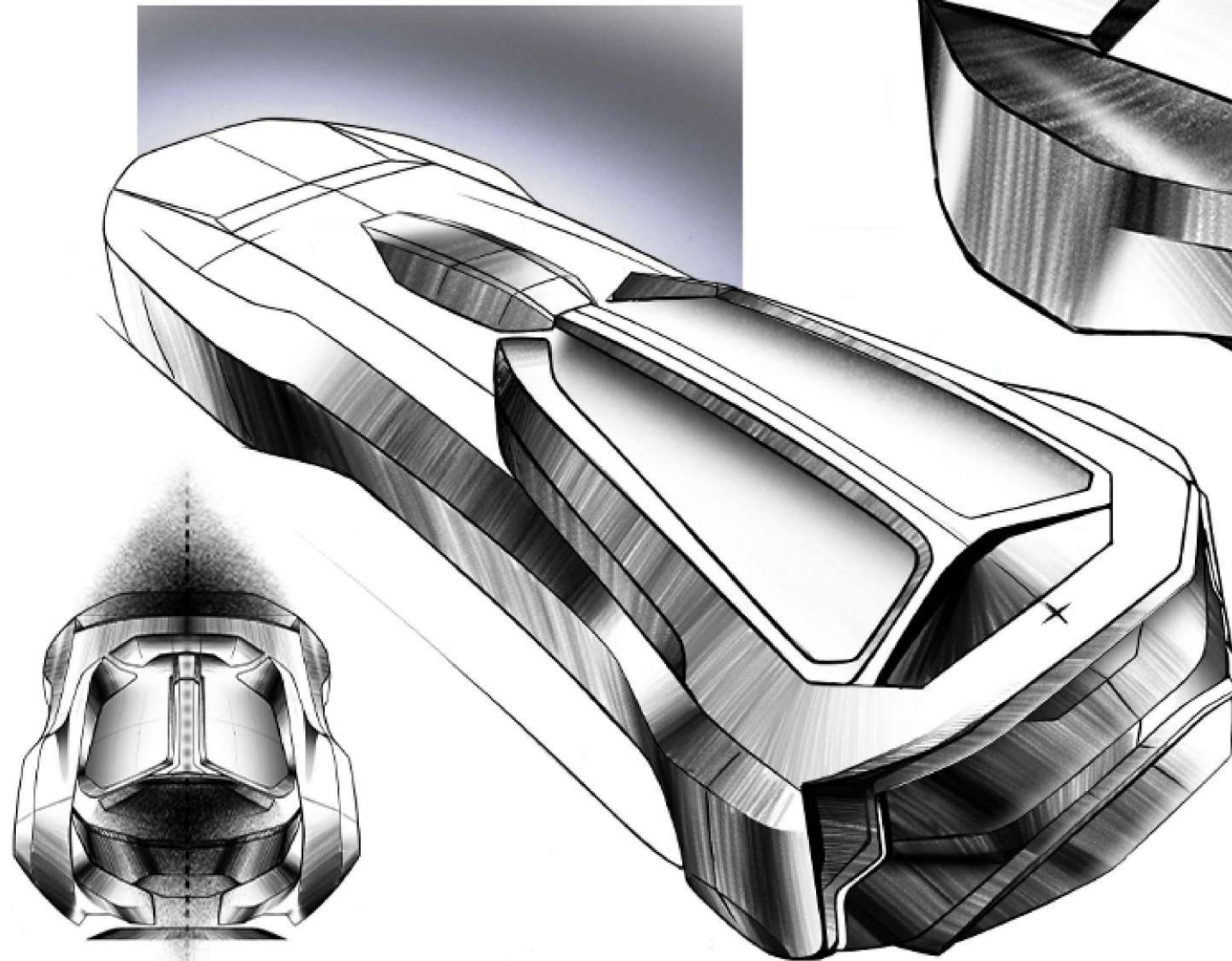
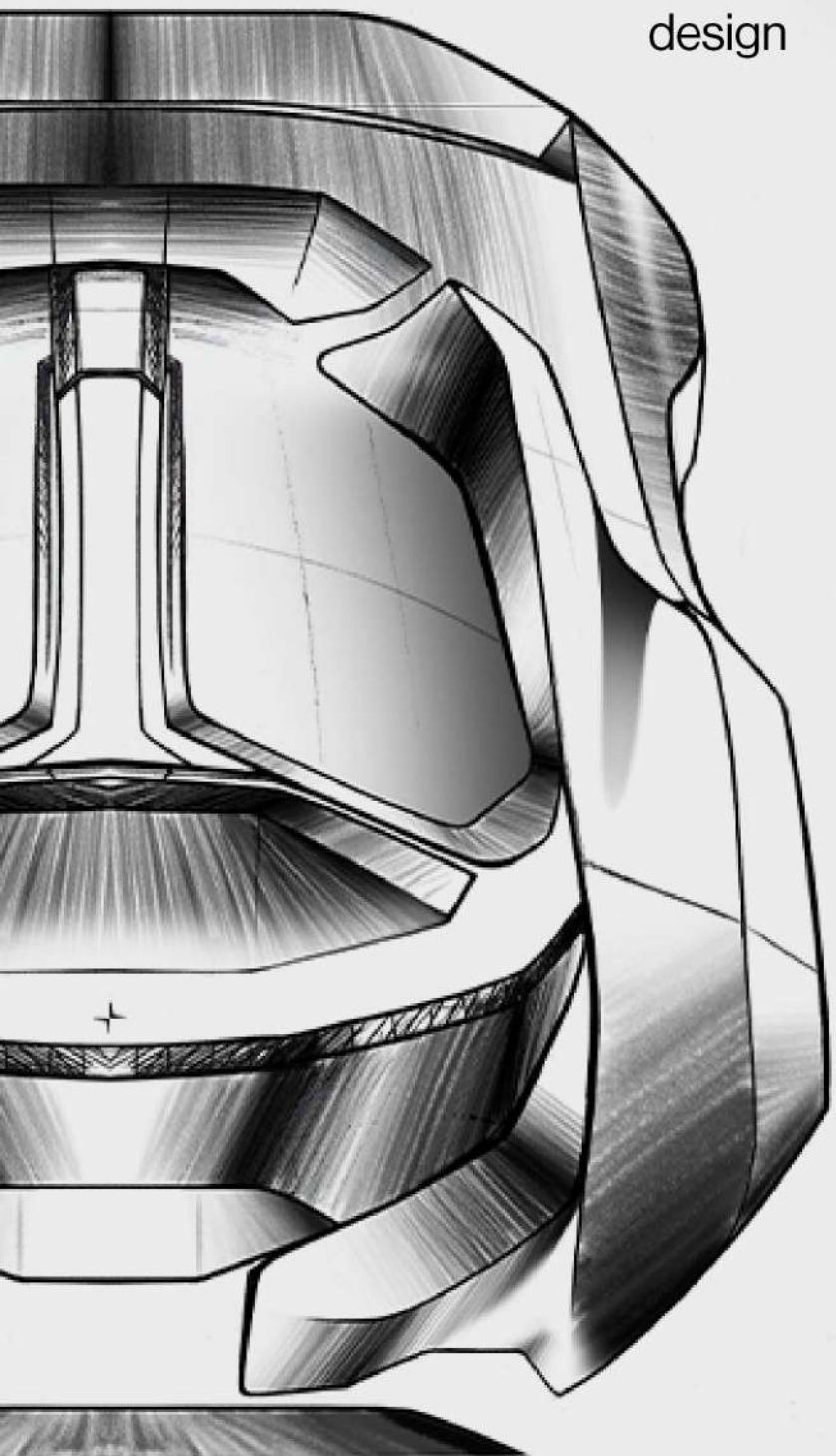


Strong monolithic surfacing.



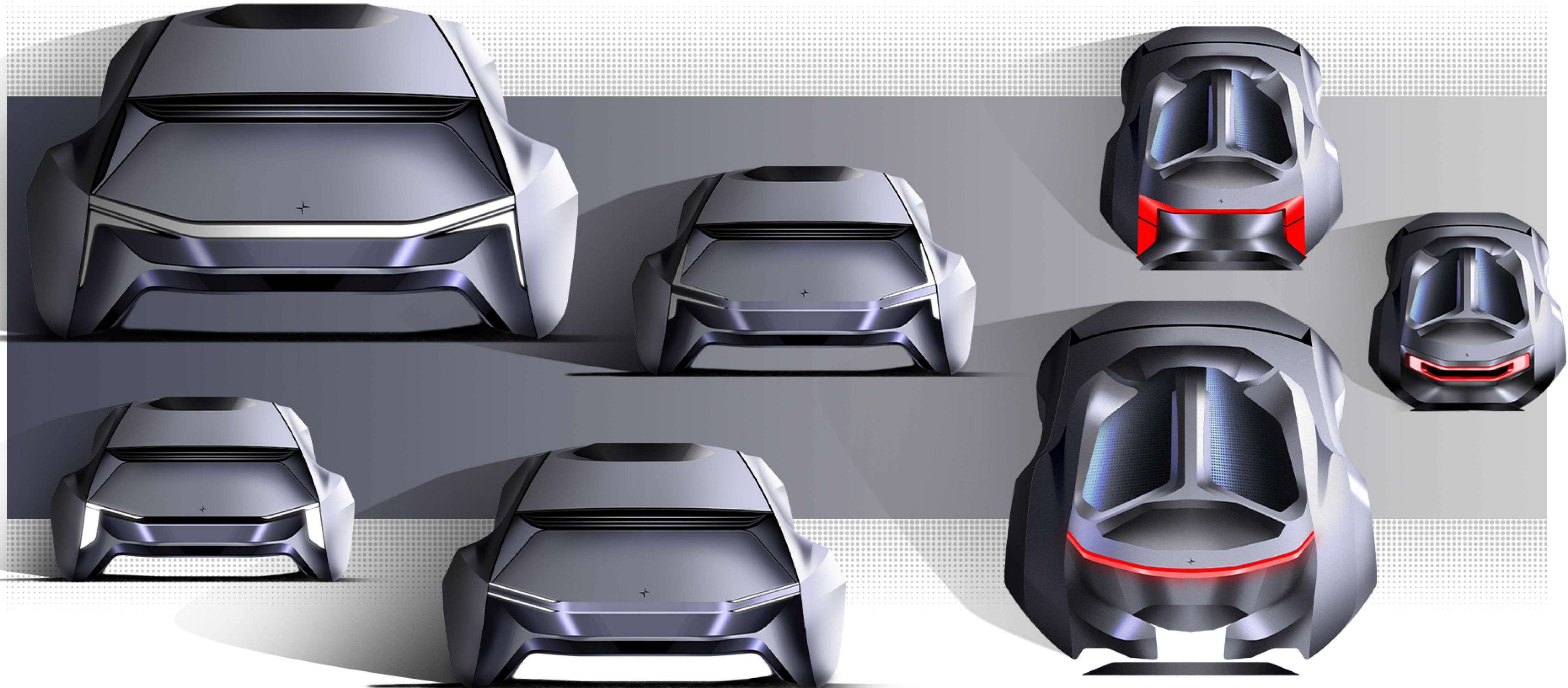
Monolithic design direction.

Rear iterations of rear lights and rear design



Carbon filter and storage theme evident throughout body and top

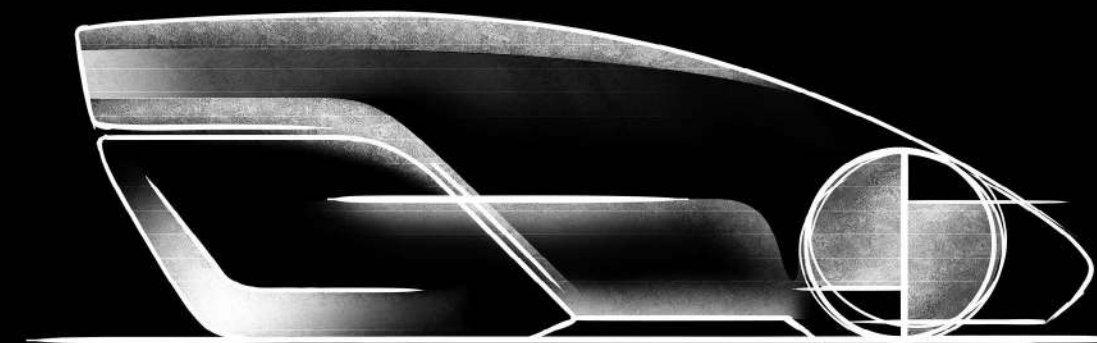
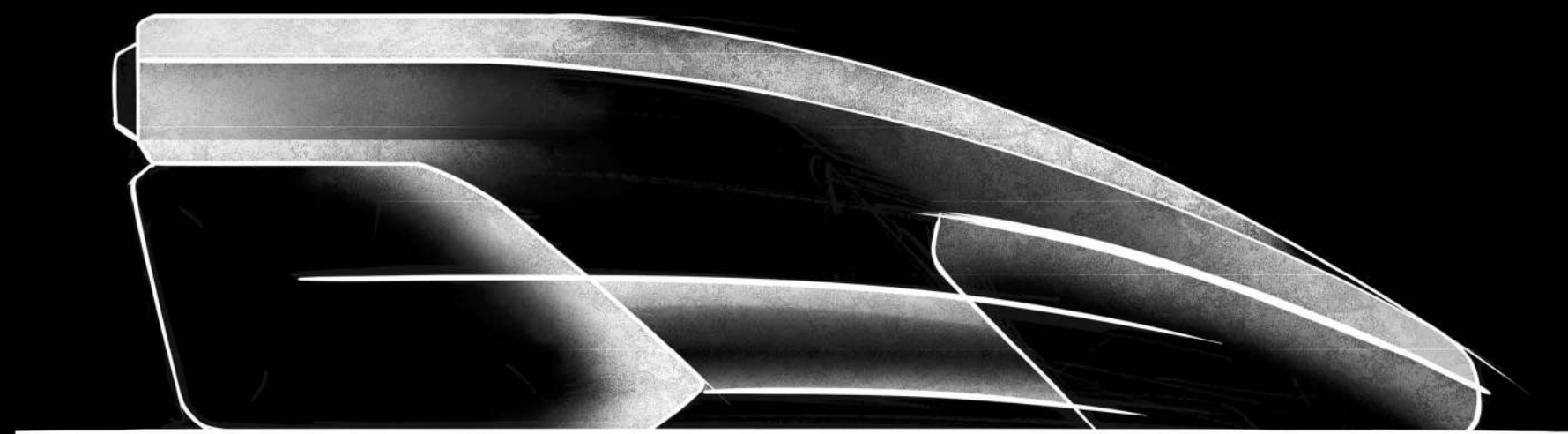
Development



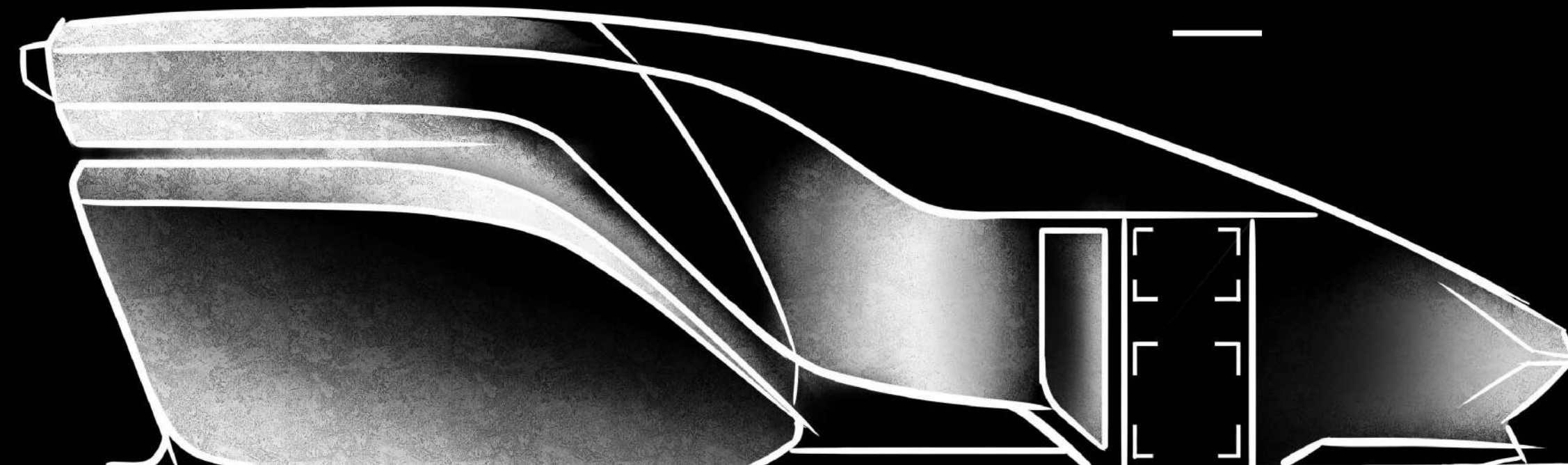
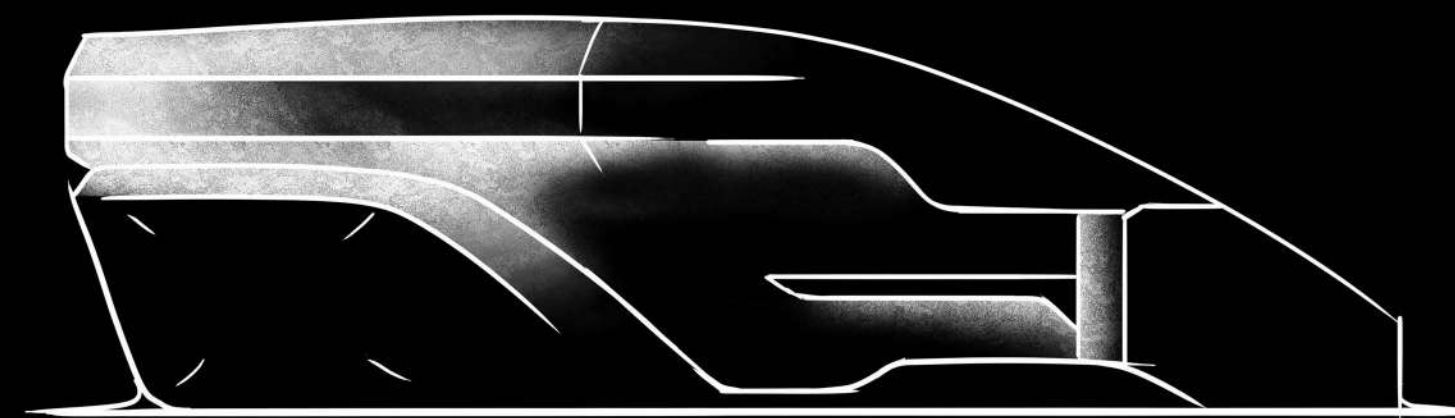
Direction 2

Exterior Ideations

Exploring shapes and volumes of high contrast and precise proportions to achieve futurist, high tech proportions for a mass produced mobility vehicle. Exploring potential future Polestar language.



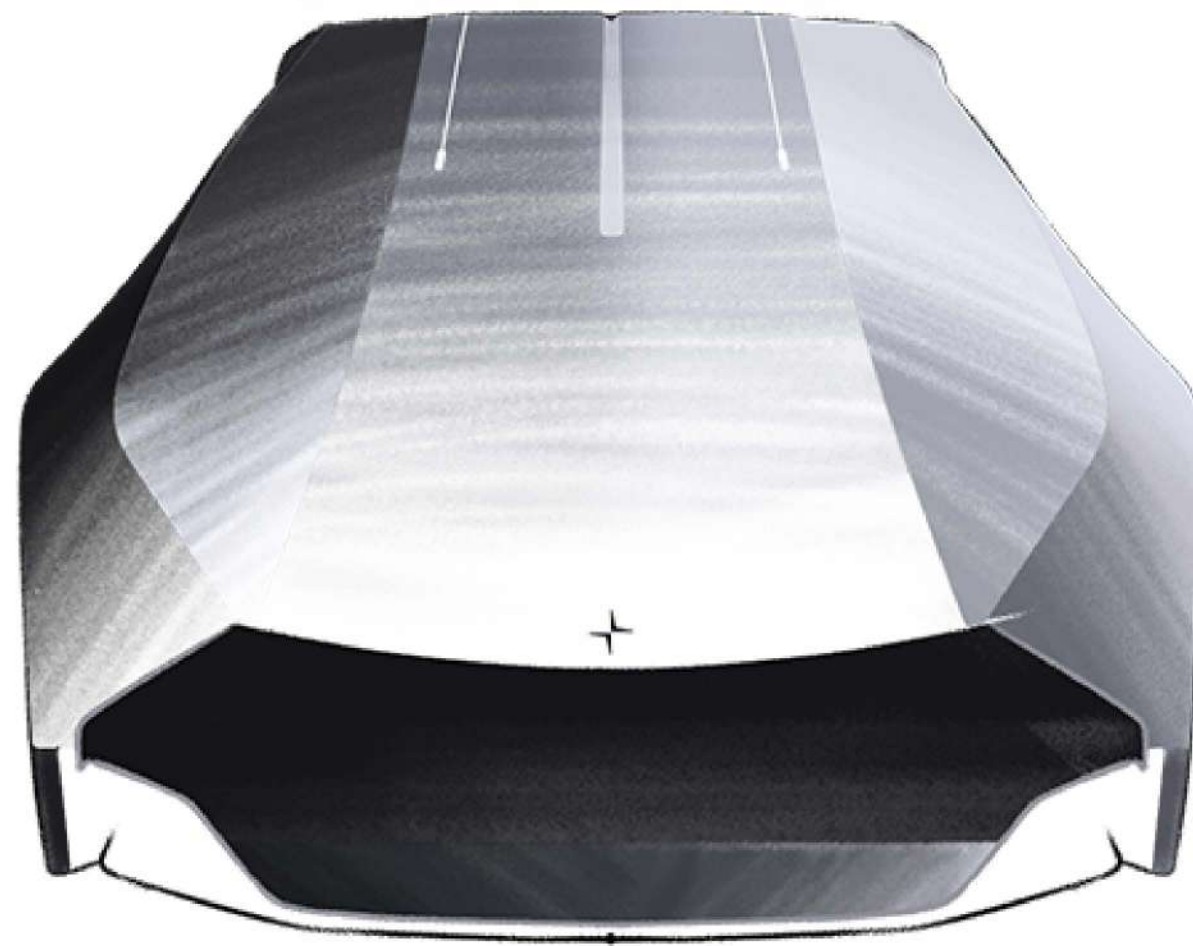
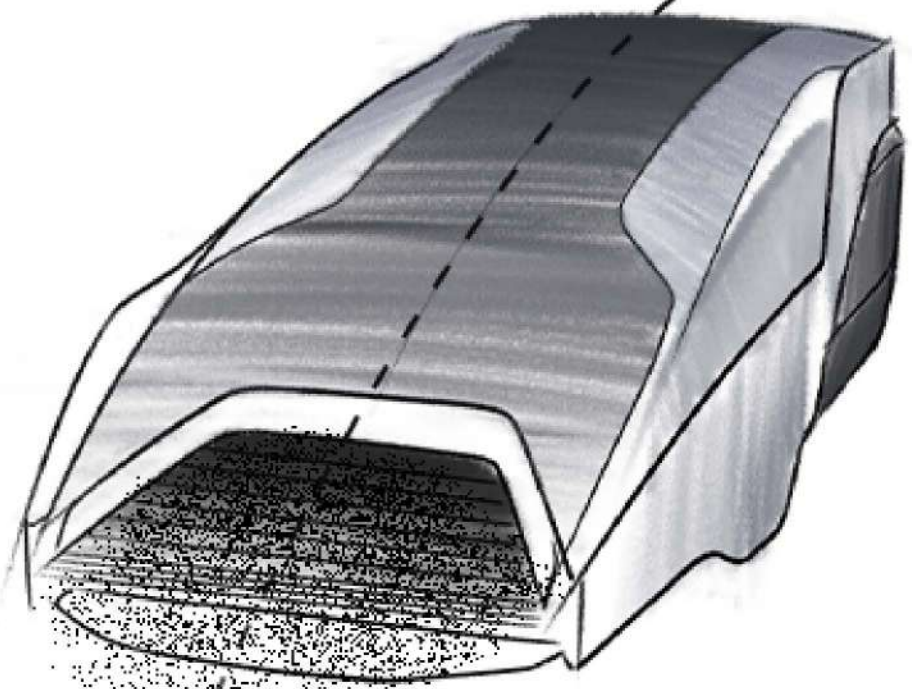
VISUAL
DIVISION



FORM DEVELOPMENT

Direction 2

Exterior Development



Various front proposals for unified light structure



Efficient/aesthetic carbon filters



POLESTAR NEGATIVE

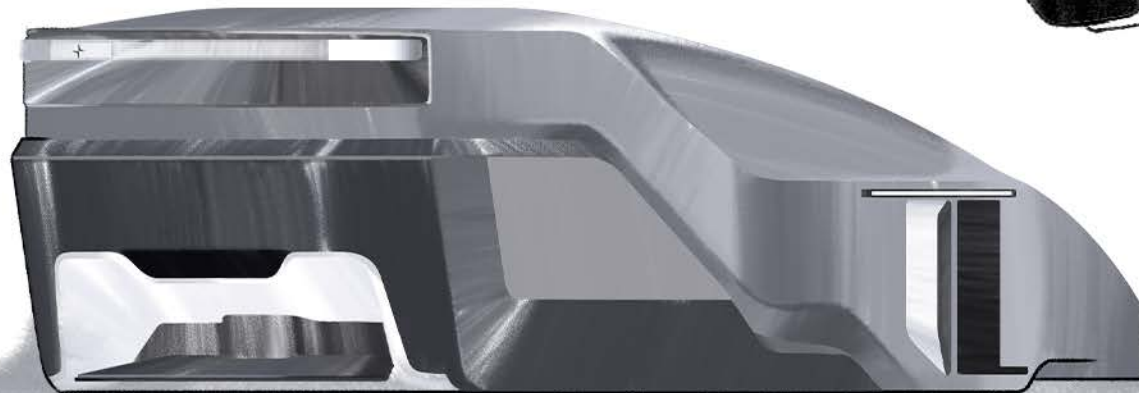
DEVELOPMENT | ✦



smoked rear lights

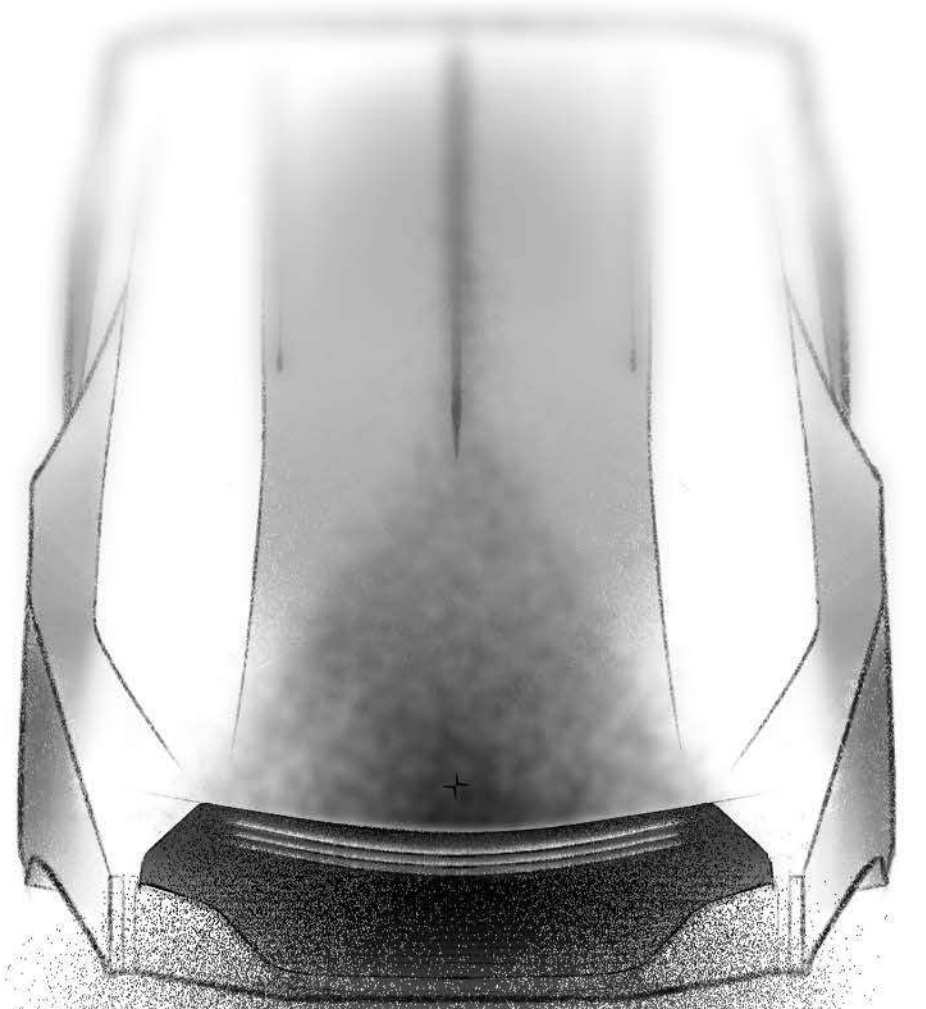
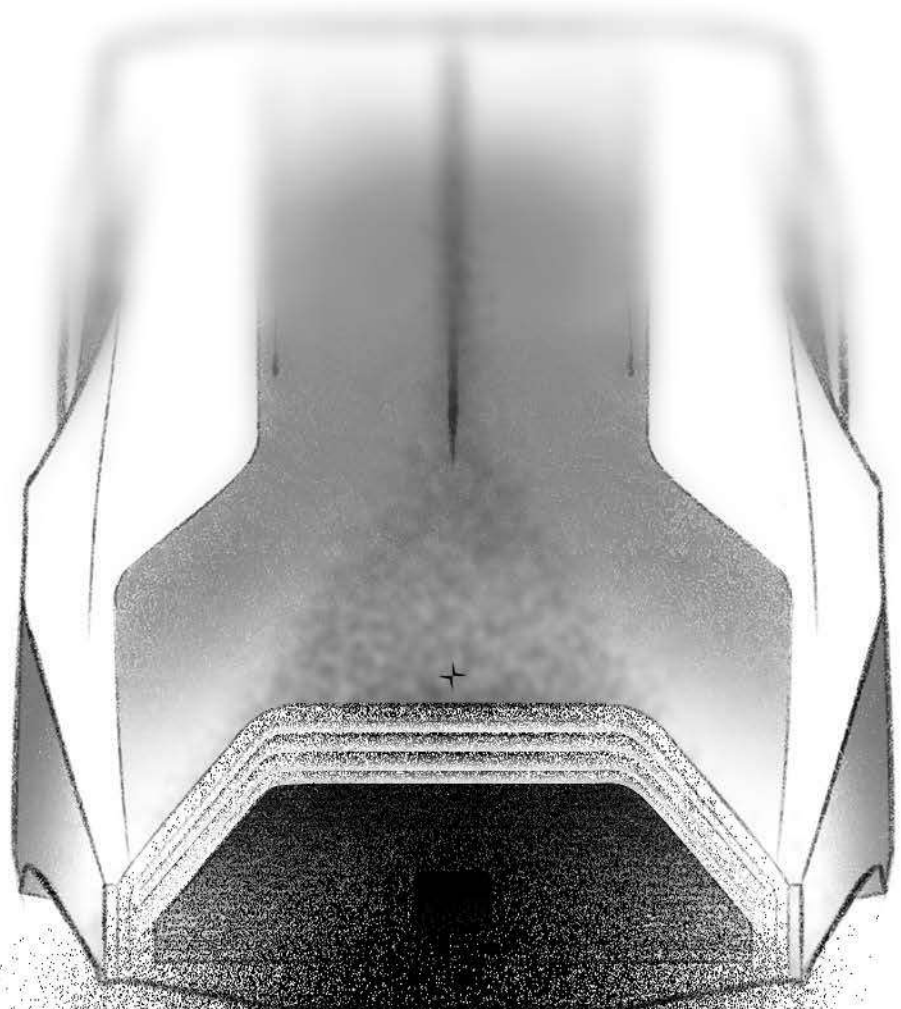


Filter/matrix-inspired rear
lights



Filtered air outlet





P O L E S T A R N E G A T I V E _





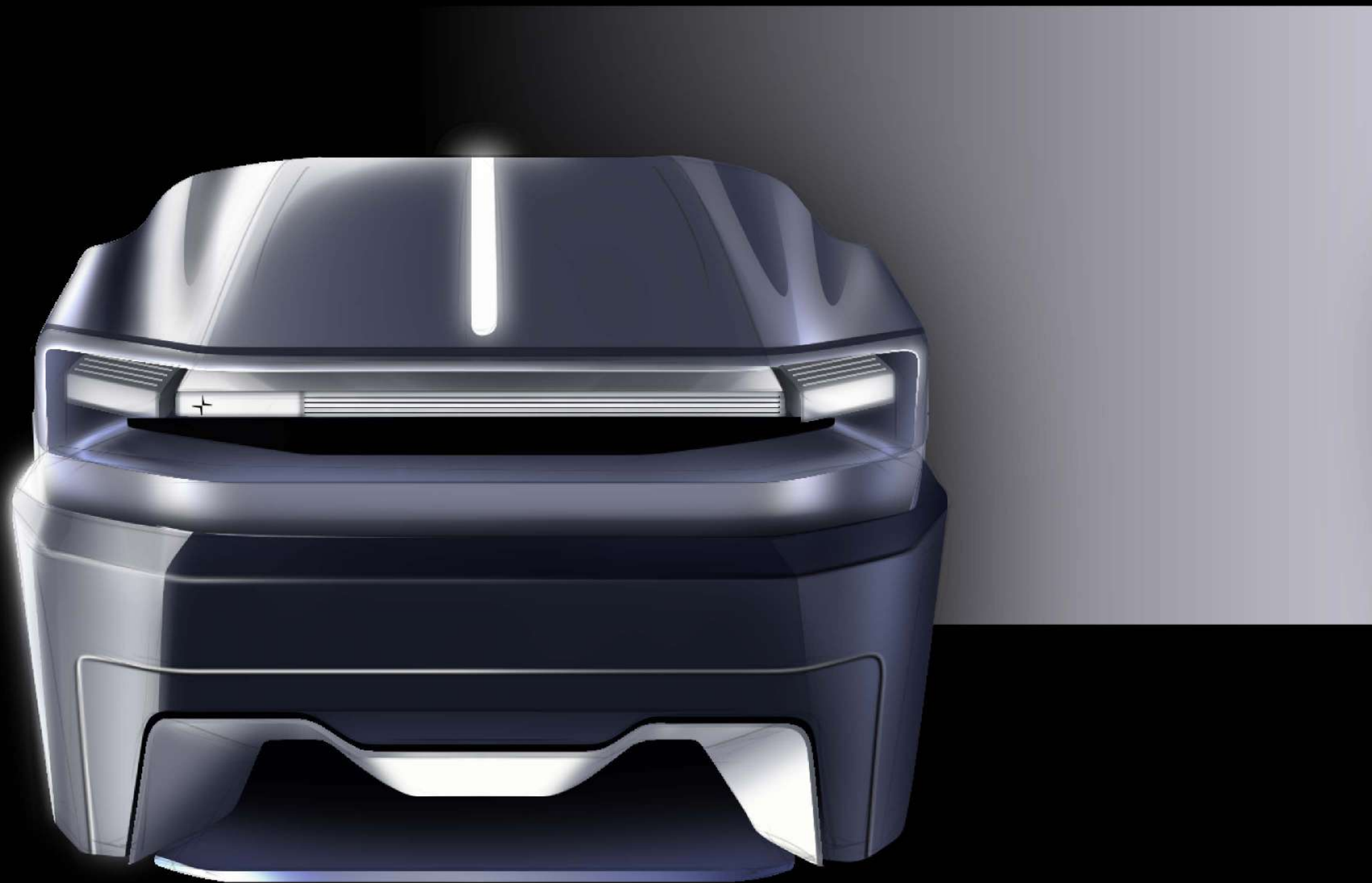
P O L E S T A R N E G A T I V E _



Direction 2

Exterior Development

Exploring shapes and volumes of high contrast and precise proportions to achieve futurist, high tech proportions for a mass produced mobility vehicle. Exploring potential future Polestar language.

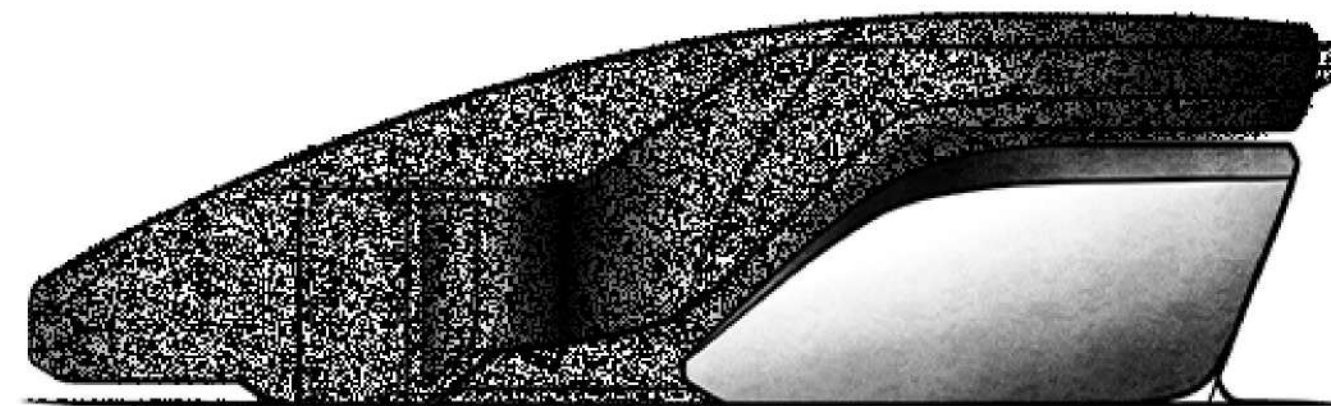
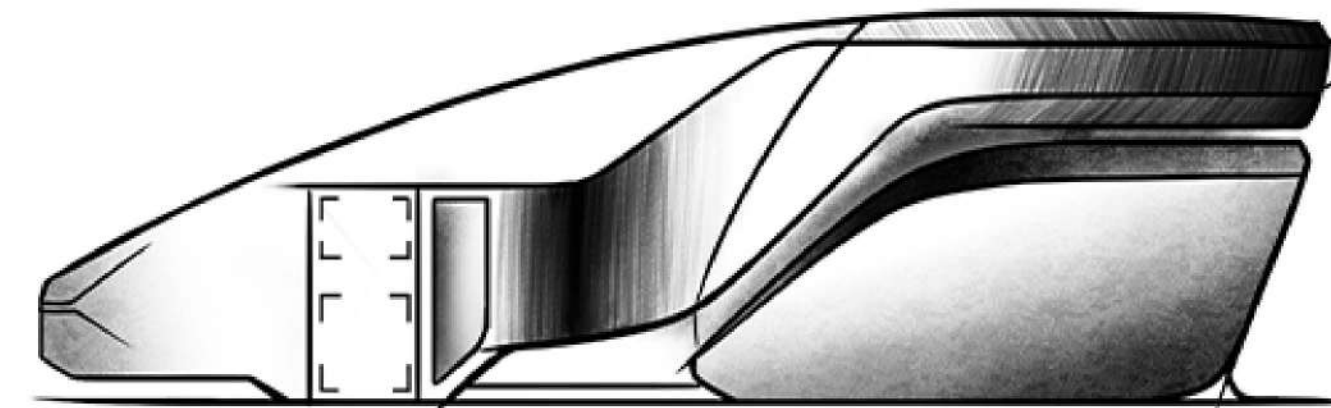
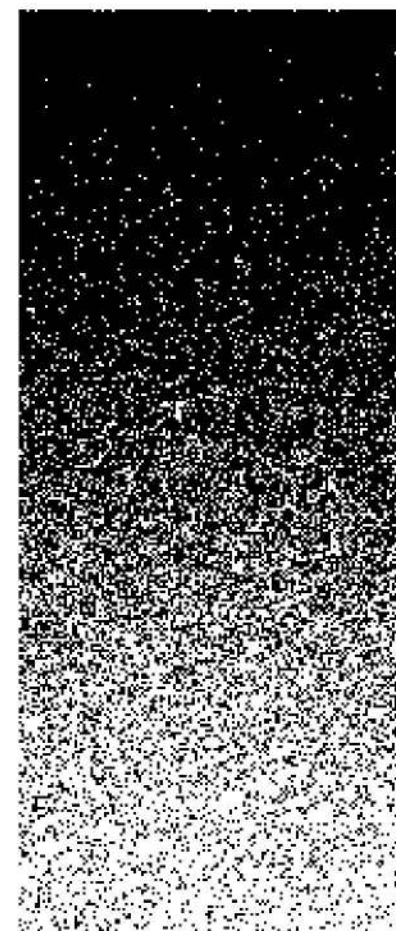


Interior Concept

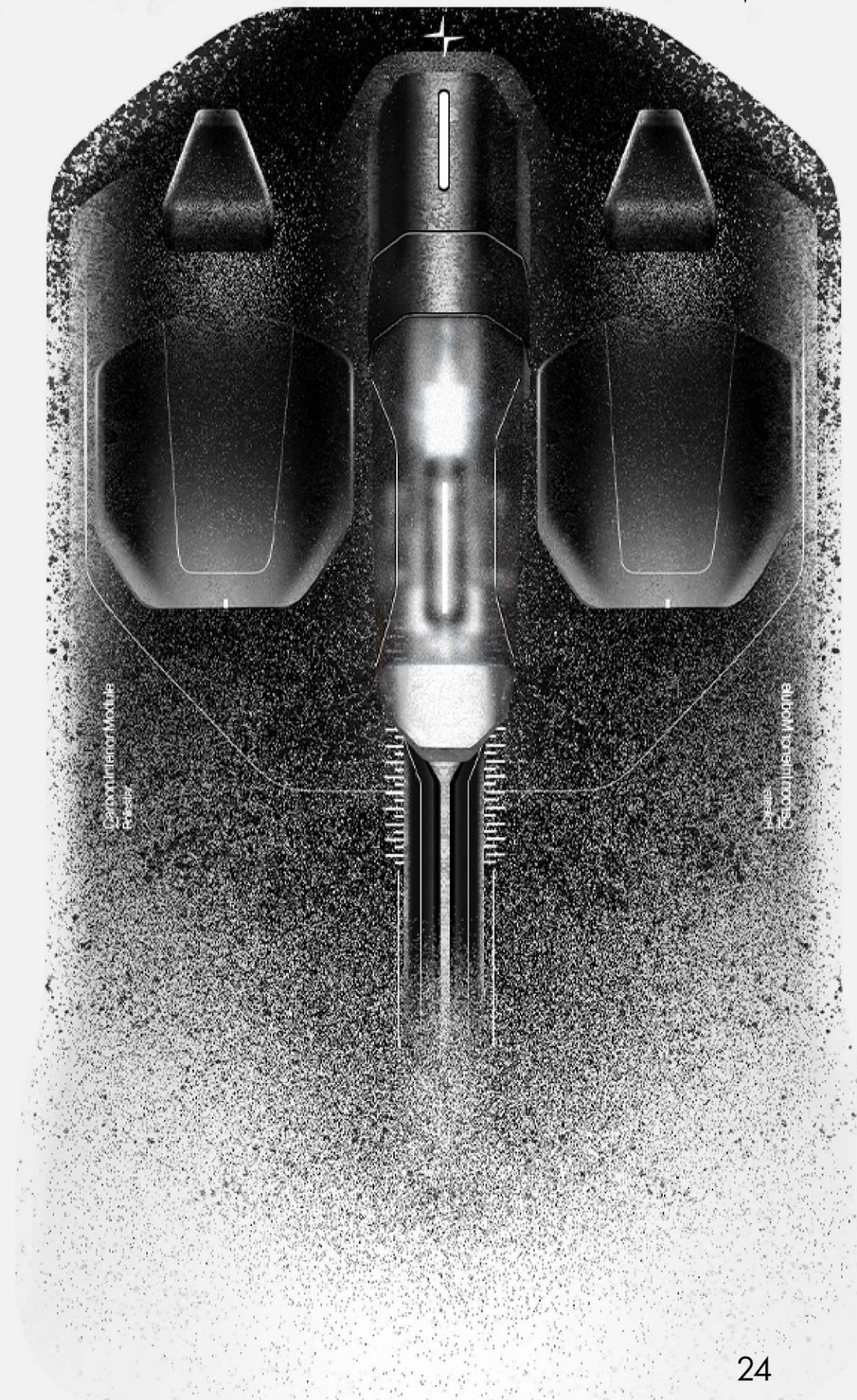
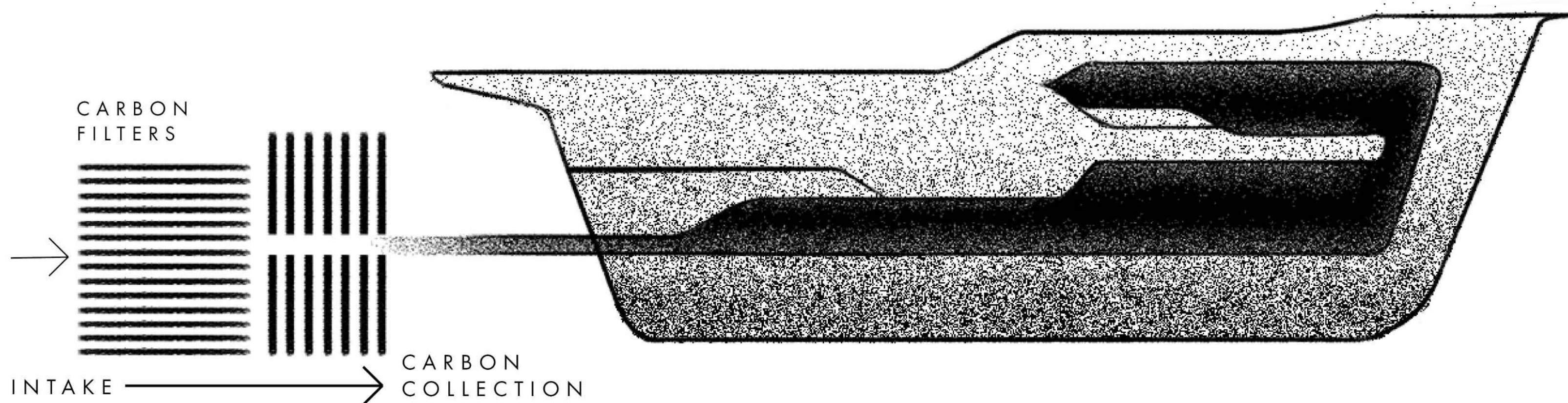


CARBON TUNNEL

Central interior carbon tunnel depicting the collection and solidification of carbon.



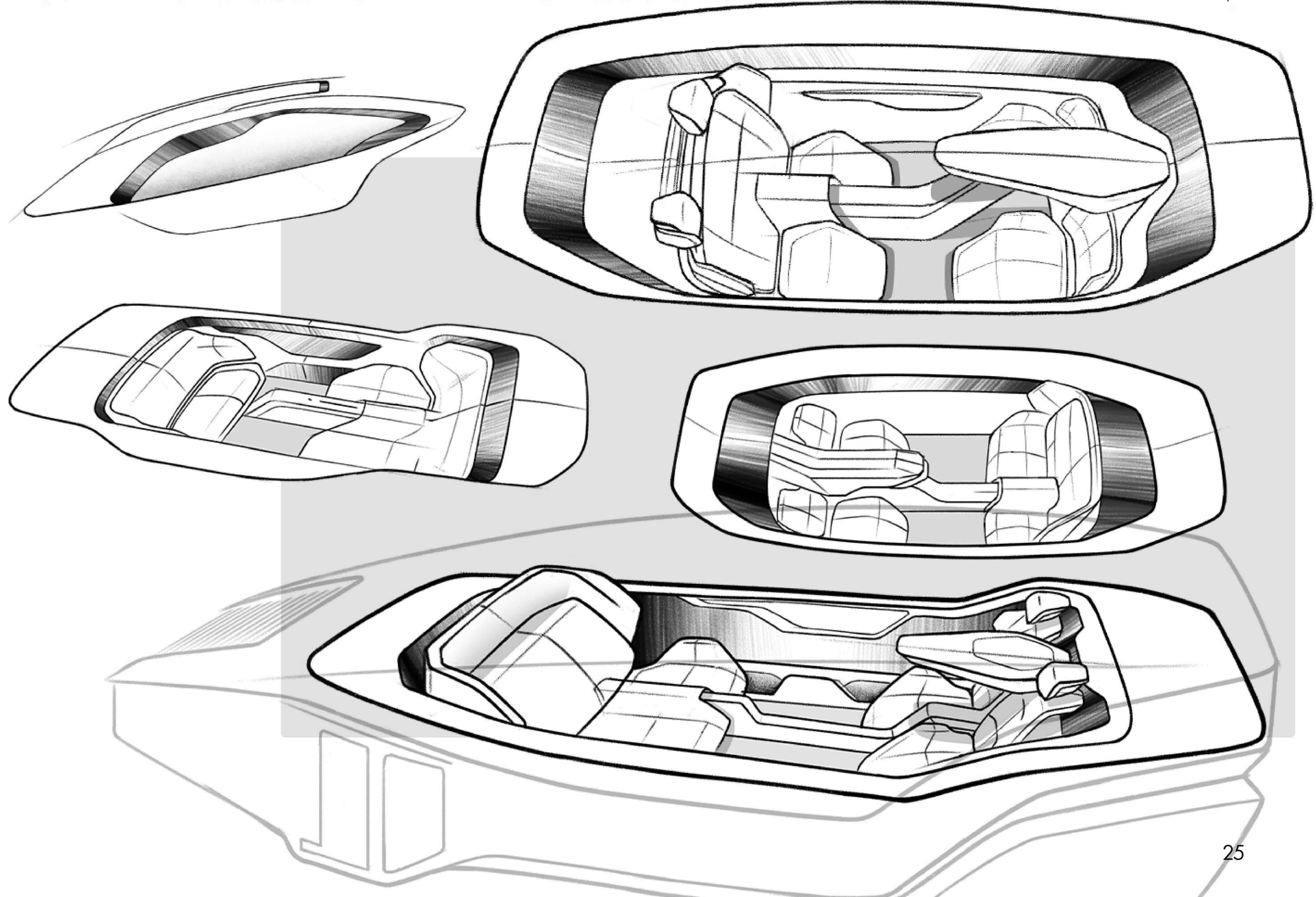
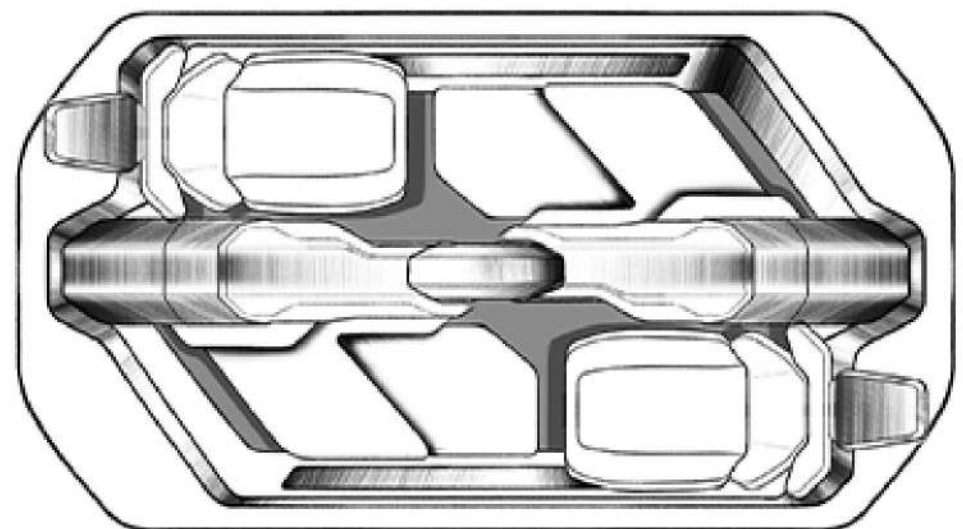
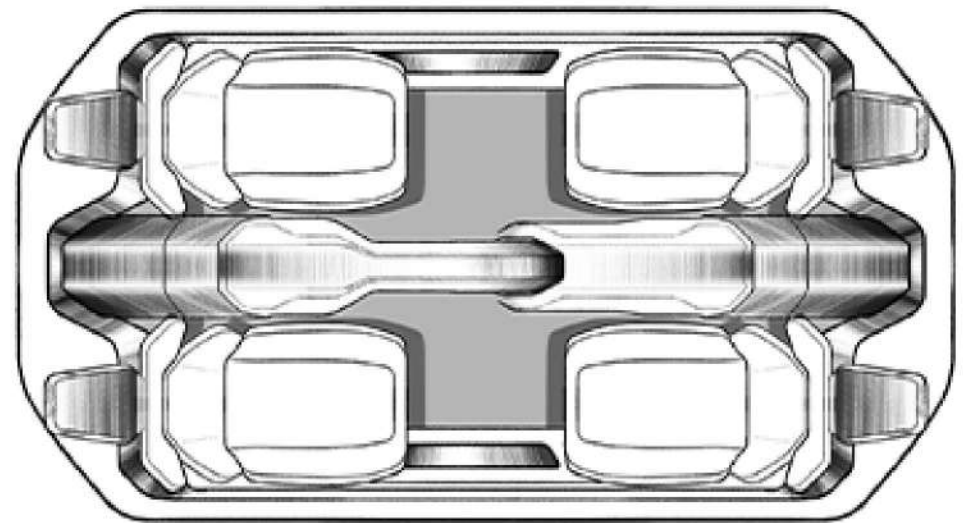
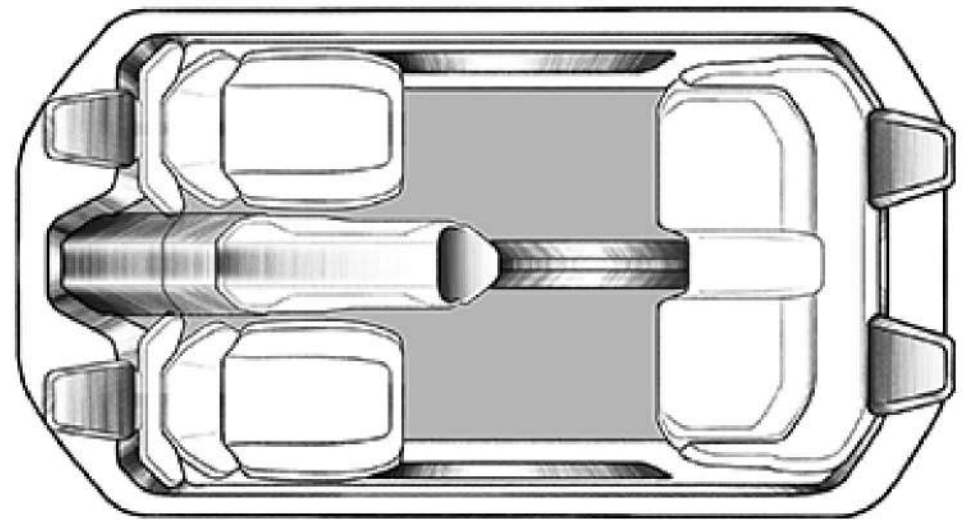
Translucent body turns black as carbon storage increases





Interior Ideations

Exploring volumetric forms for a carbon tube passing through the interior.



Seats Development

Different development sketches for individual passenger seats



Clear division in middle with refined, edges.

Black carbon colored seats matching carbon inspired theme of interior.

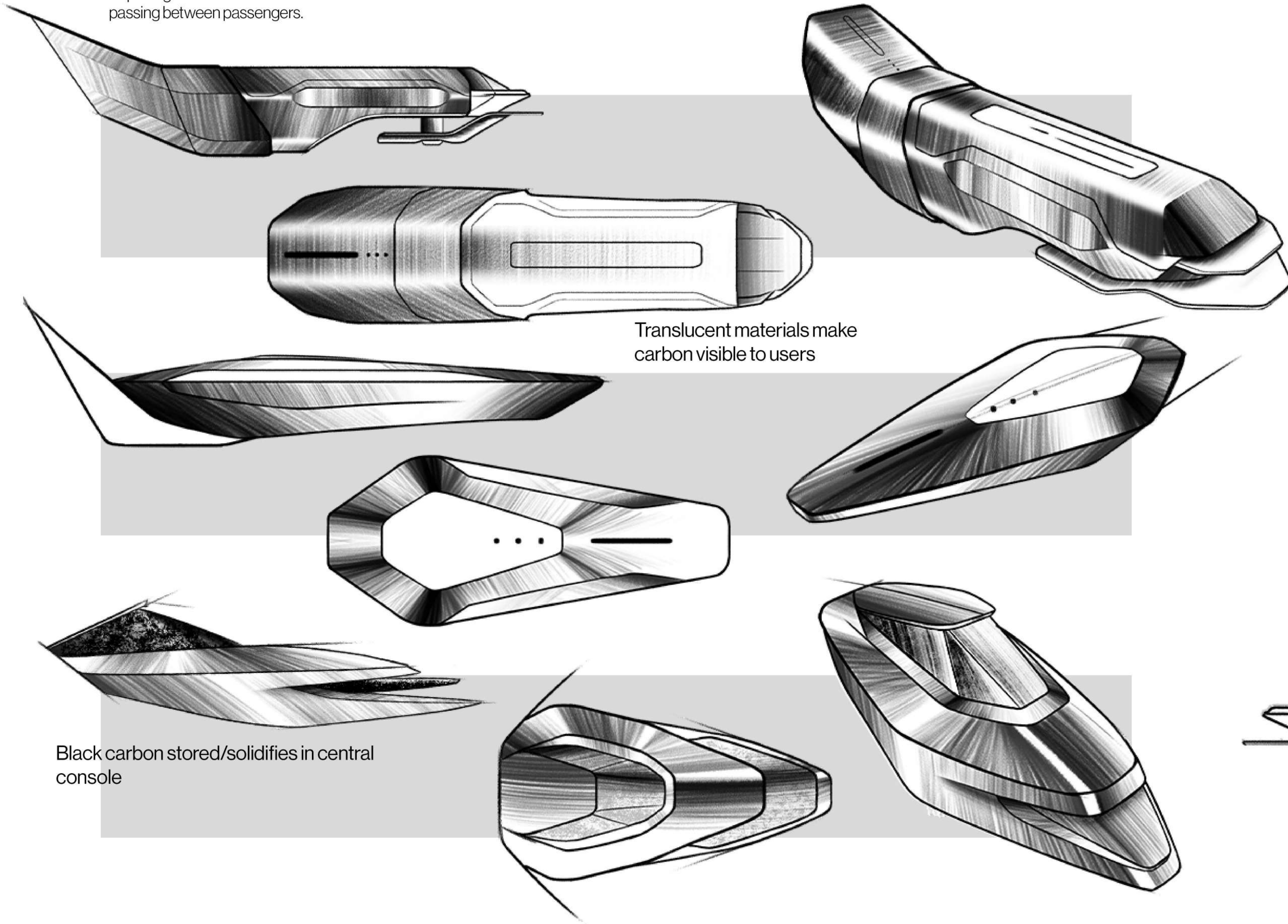
B & W COLOR & TRIM

Playing with contrasting black and white colors and hues to inspire seat designs.



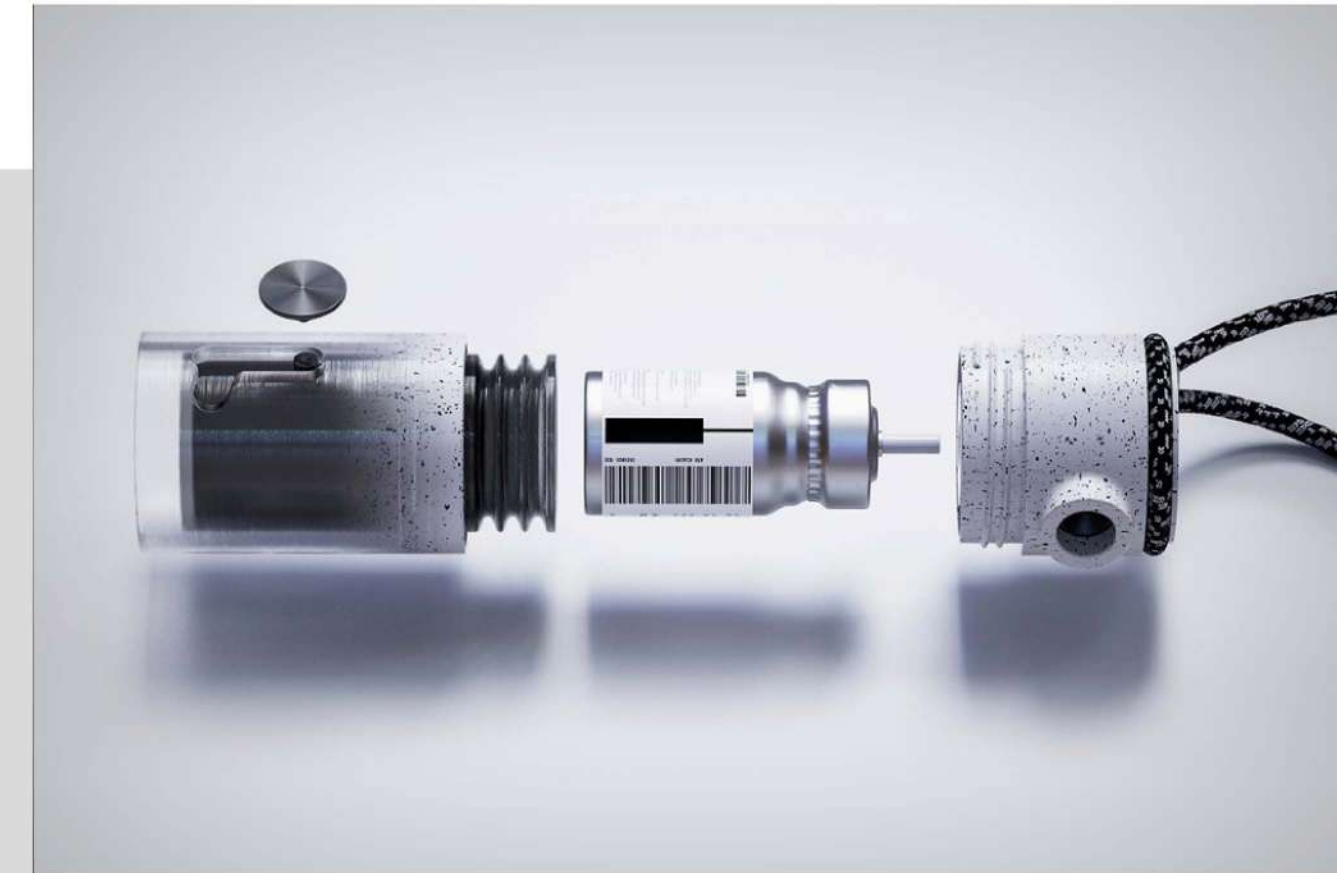
Carbon Console Development

Exploring volumetric forms for a carbon console passing between passengers.



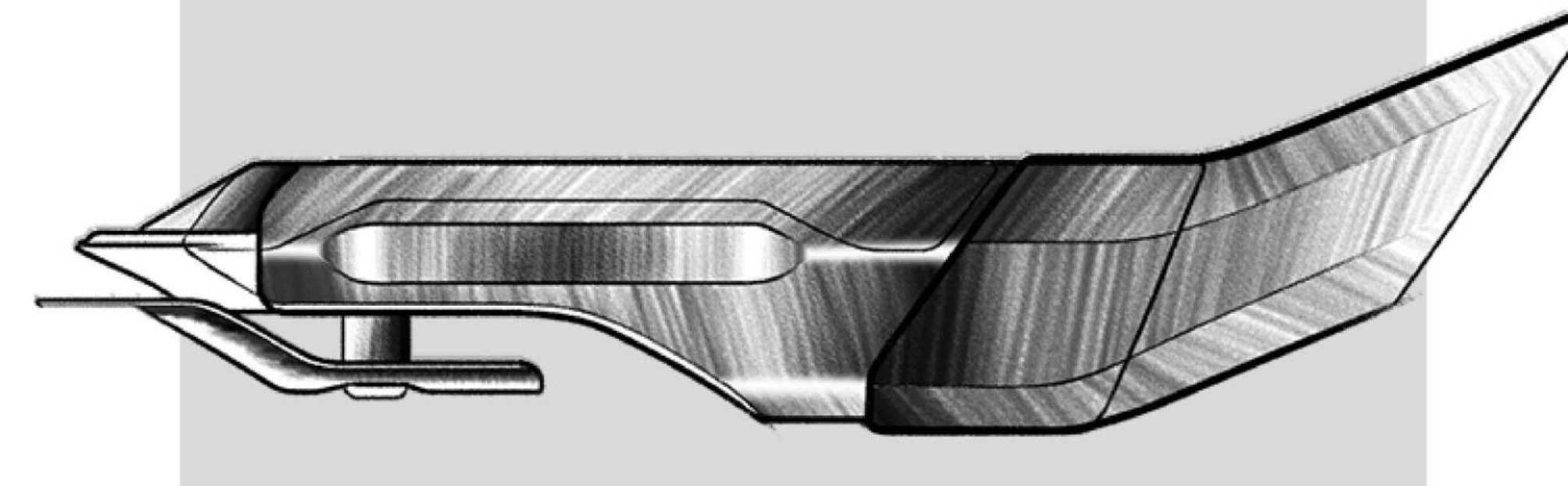
Translucent materials make carbon visible to users

Black carbon stored/solidifies in central console



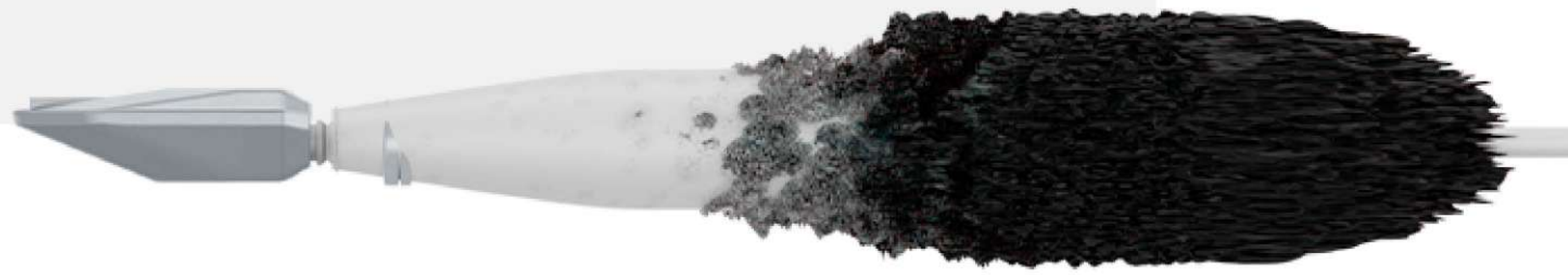
MODERN ALCHEMY

Interior main tunnel heavily emphasized functional elements and chemical reactions of carbon solidification.

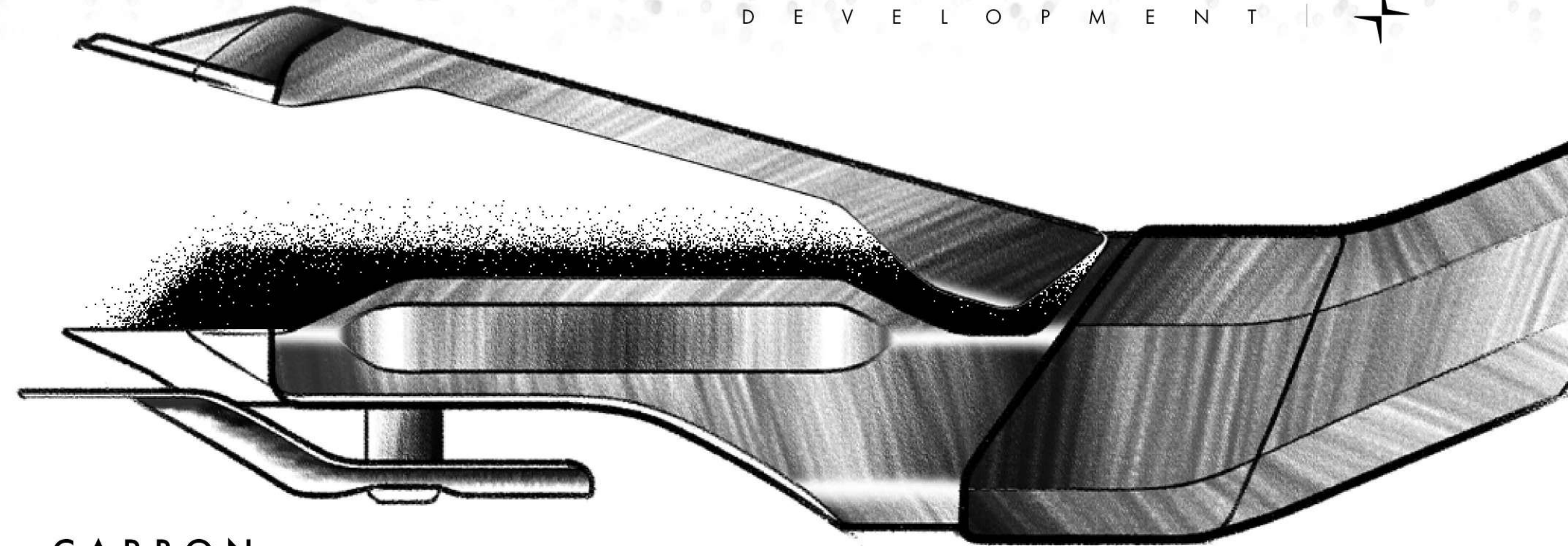


Carbon Extraction

The process of carbon solidification & extraction.

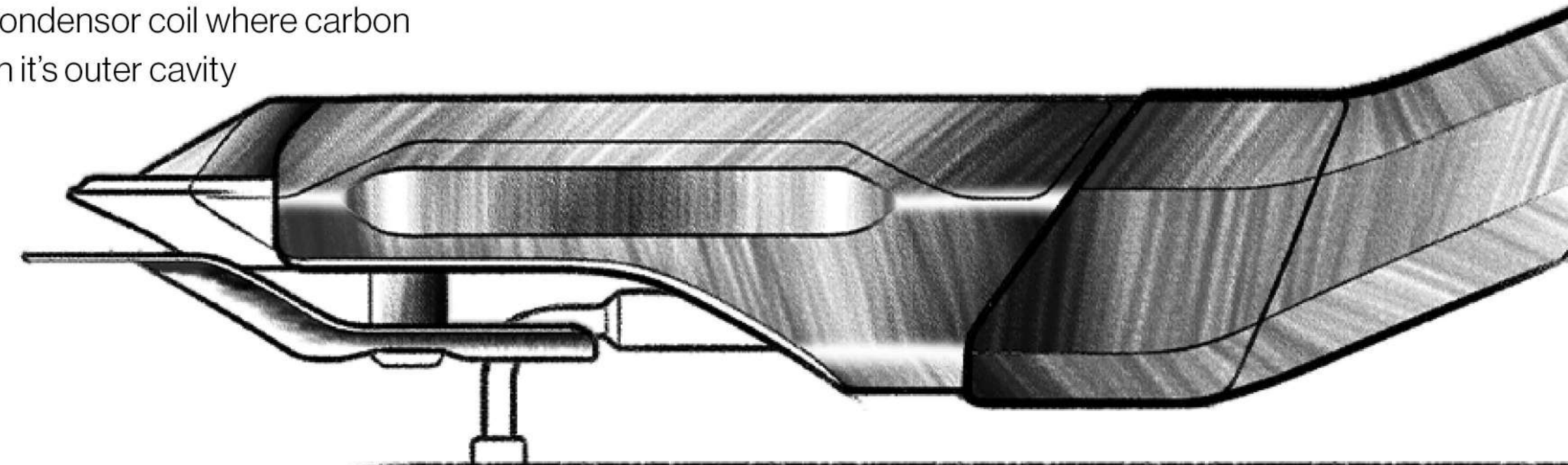


Condensor Coil



CARBON SOLIDIFICATION

The carbon console's inner carbon storage is solidified through a condensor coil where carbon gradually builds up on it's outer cavity

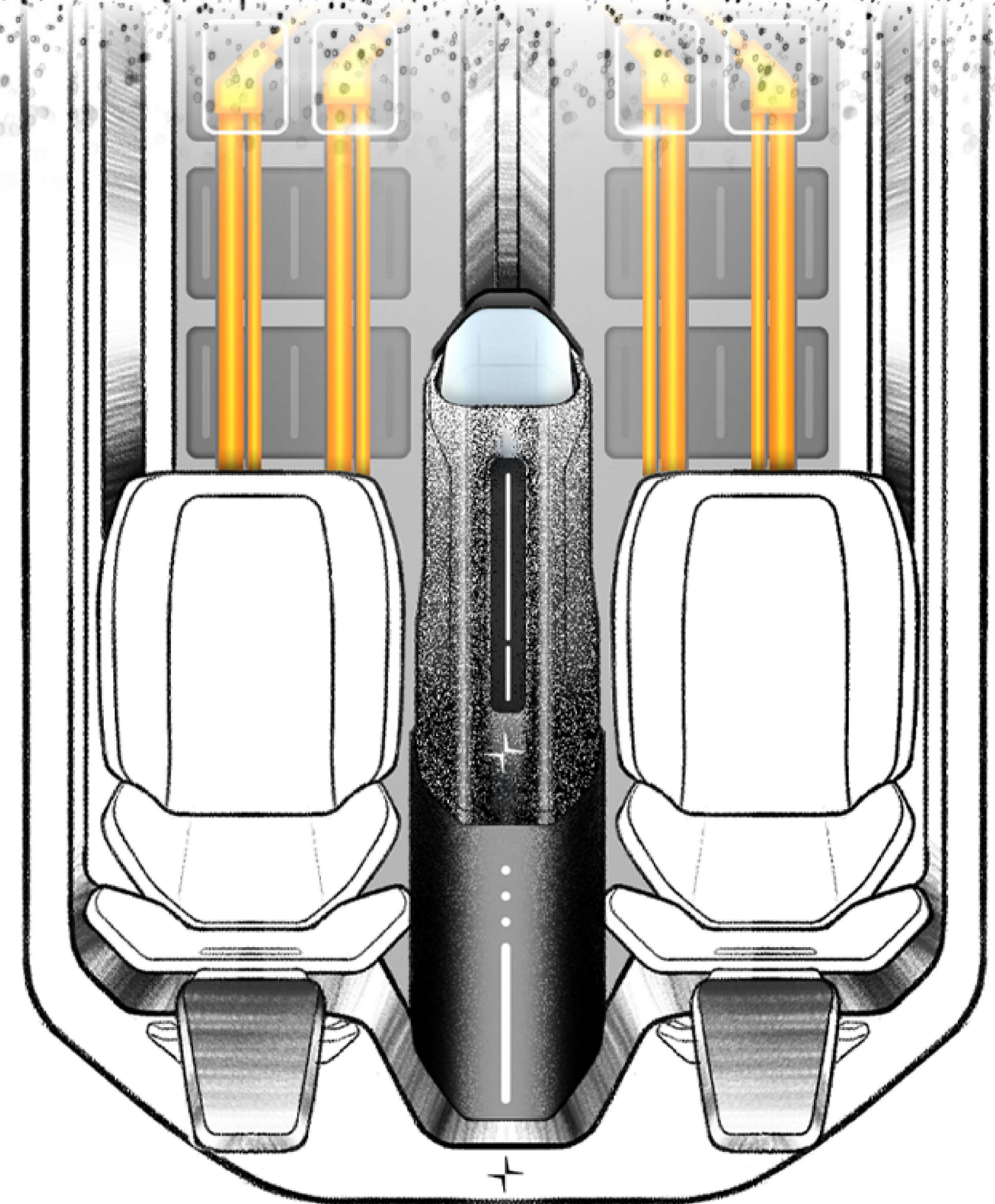
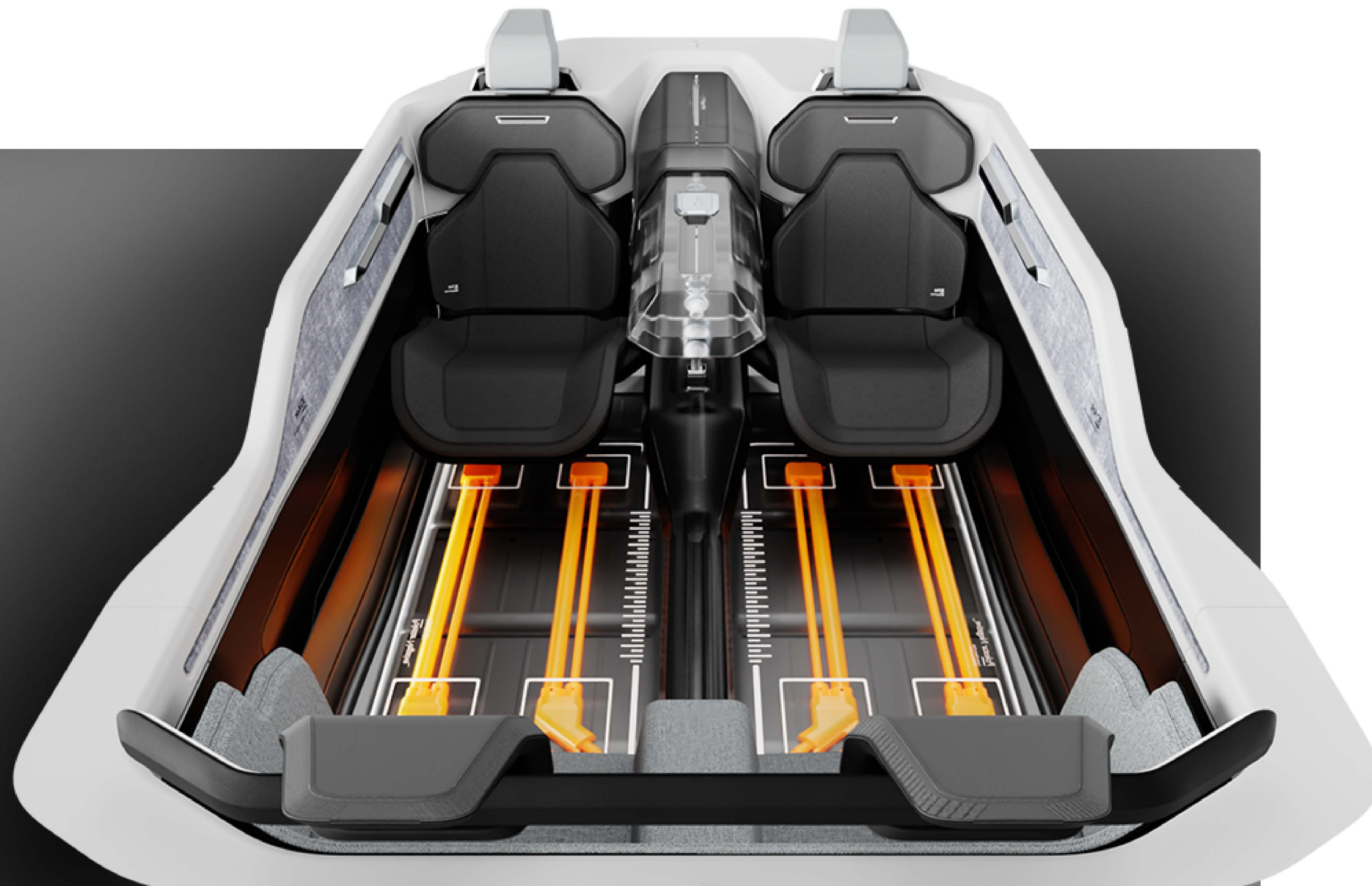


Floor Design

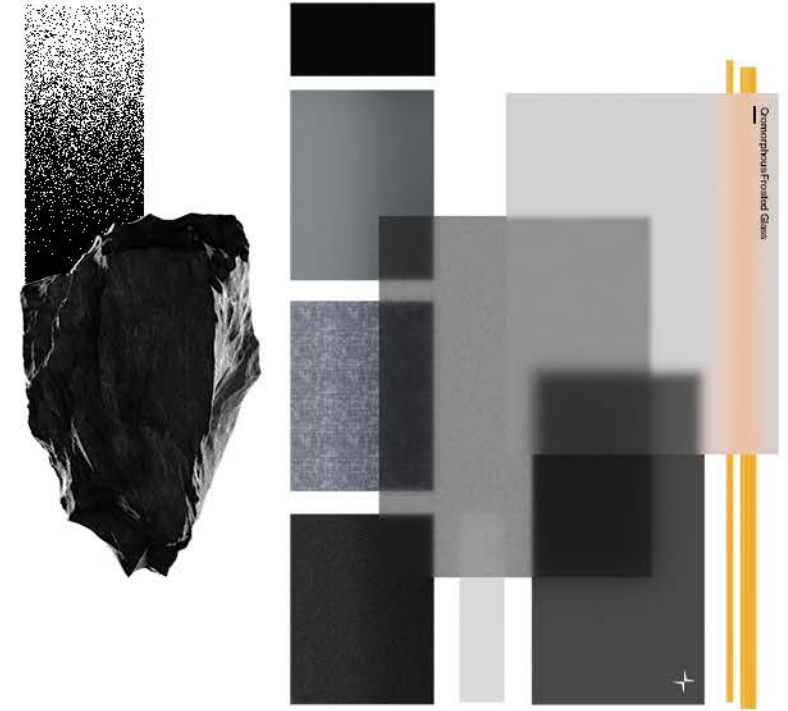
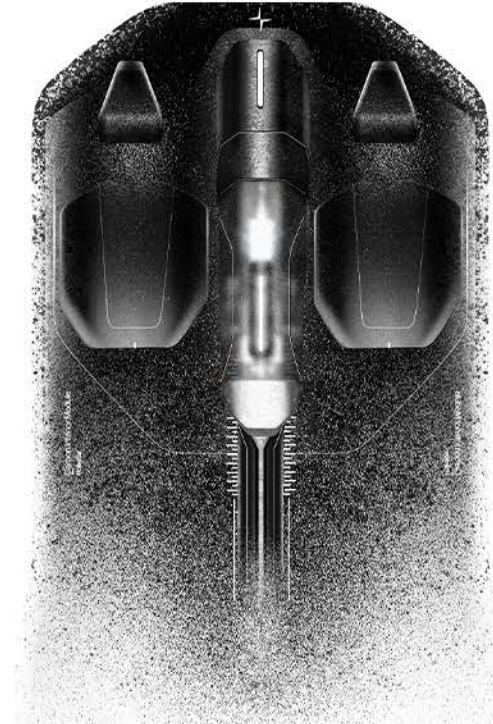


PLUGS & CHARGERS

A transparent floor depicting the inner electrical workings of the Polestar Negative. Inspired by the inner workings of production Polestar vehicles.



Color & Trim



CROMORPHOUS MATERIALS CMF

Color & trim mainly focuses on rayscale colors, inkeeping with the dark carbon theme, while incorporating “chromorphous materials”, materials that change color. Alternating between black and white.



C A R B O N M A T E R I A L T H E M E

Chromorphous Interior

Carbon Interior Module
Polestar

Carbon Interior Module
Polestar

P O L E S T A R N E G A T I V E _



Interior Sketch 1



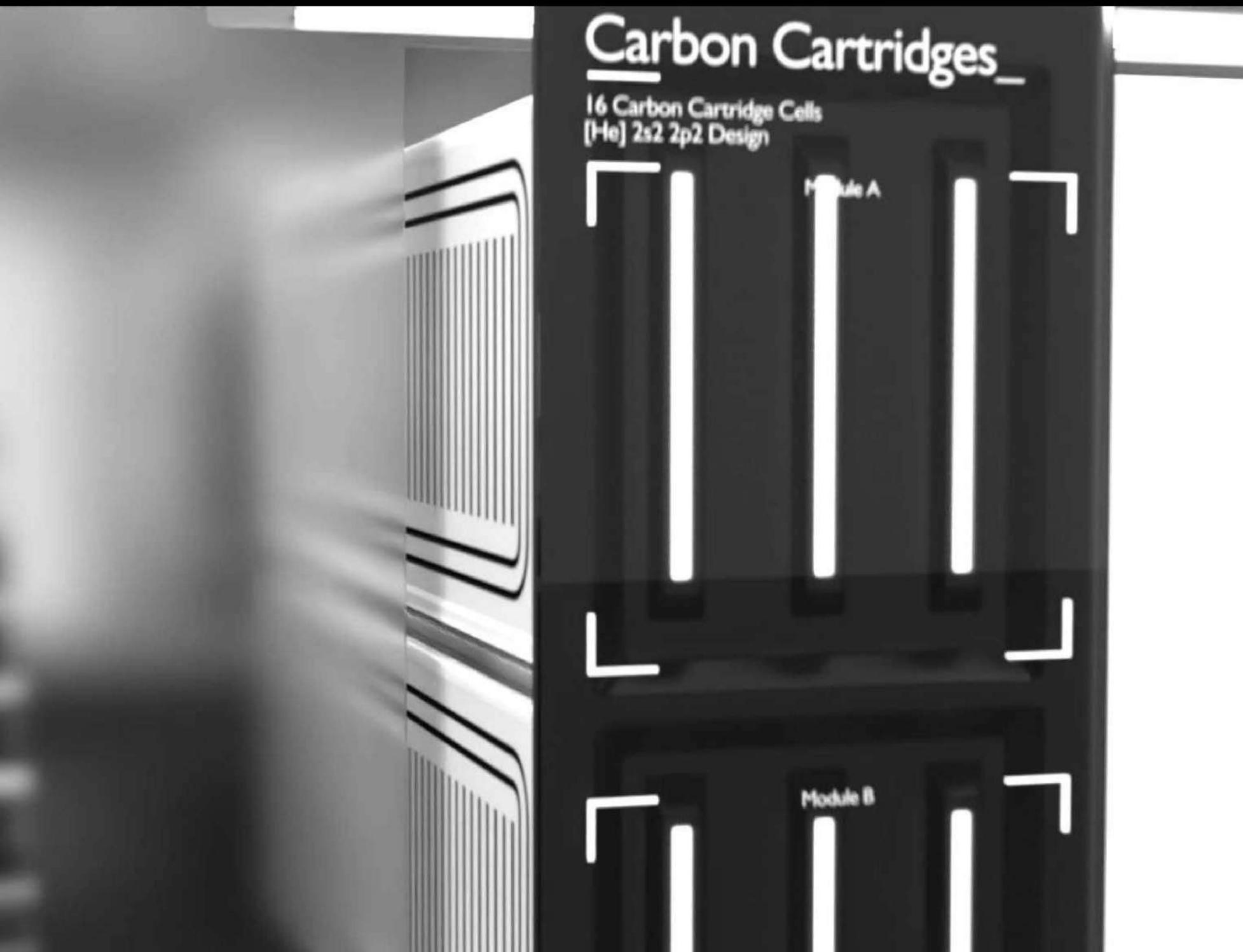
Interior Sketch 2



P O L E S T A R N E G A T I V E _

Carbon Collection & Solidification

Carbon Solidification



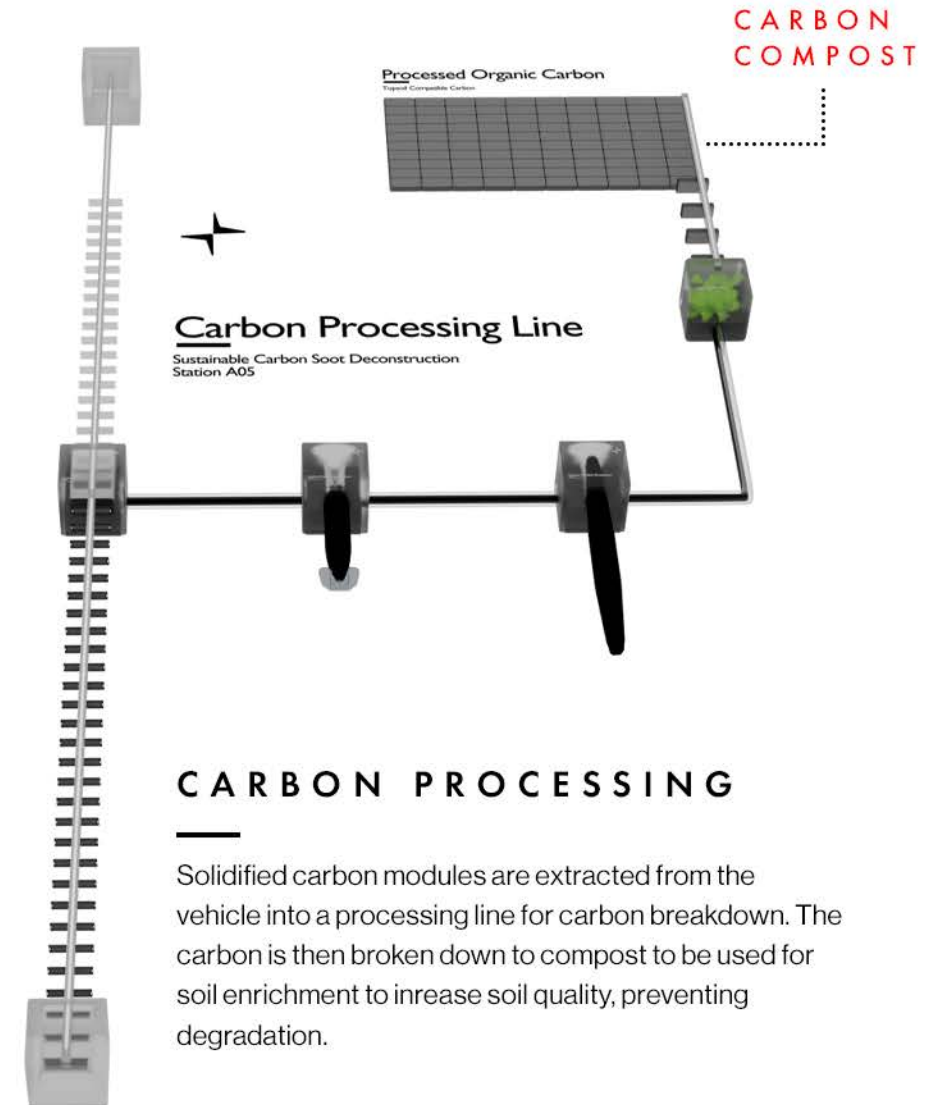
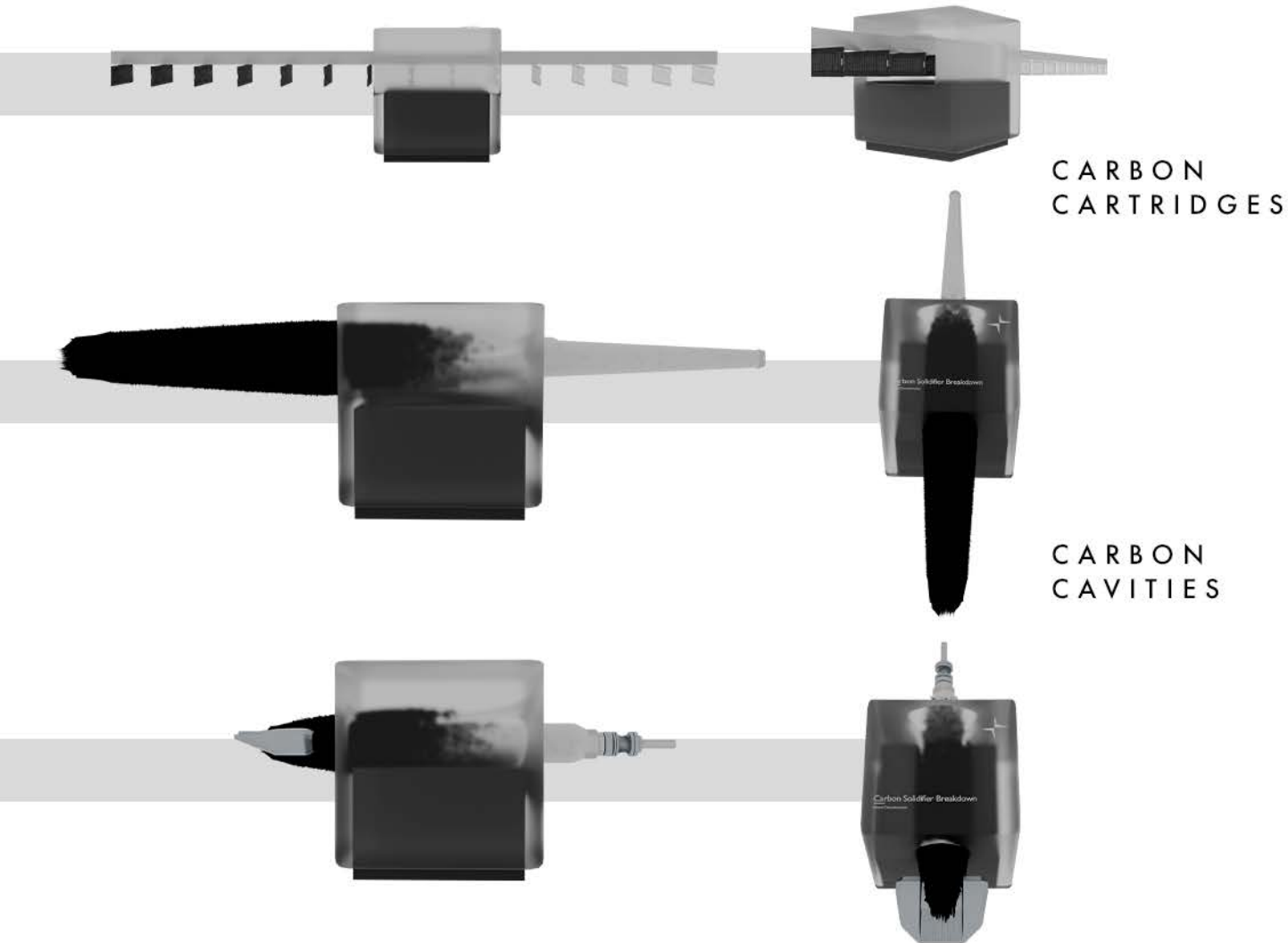
CARBON COMPOST



CARBON CAVITIES

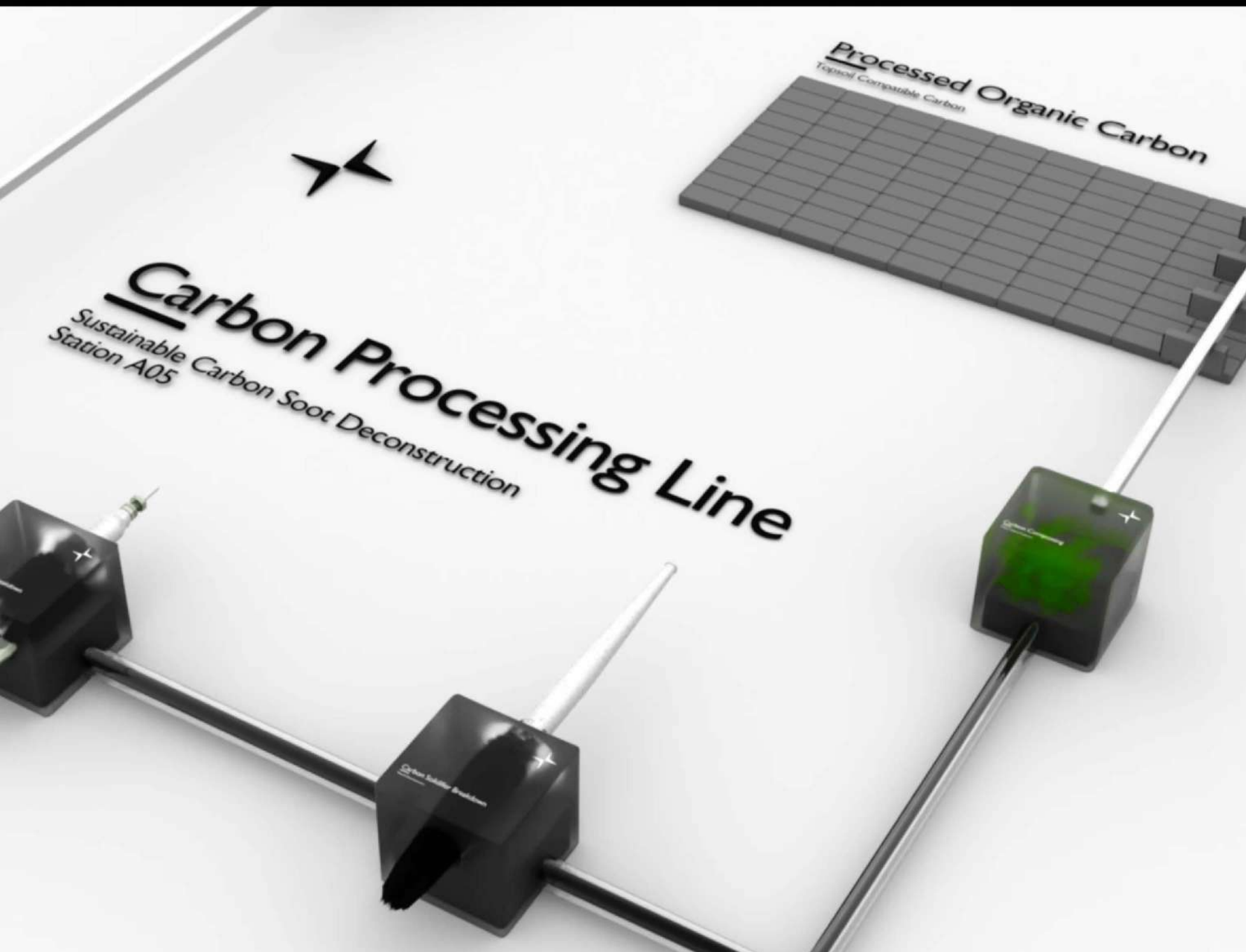
Carbon is solidified through heat and other chemical processes in the main carbon tunnels to then be extracted for breakdown and processing.

Carbon Collection & Solidification

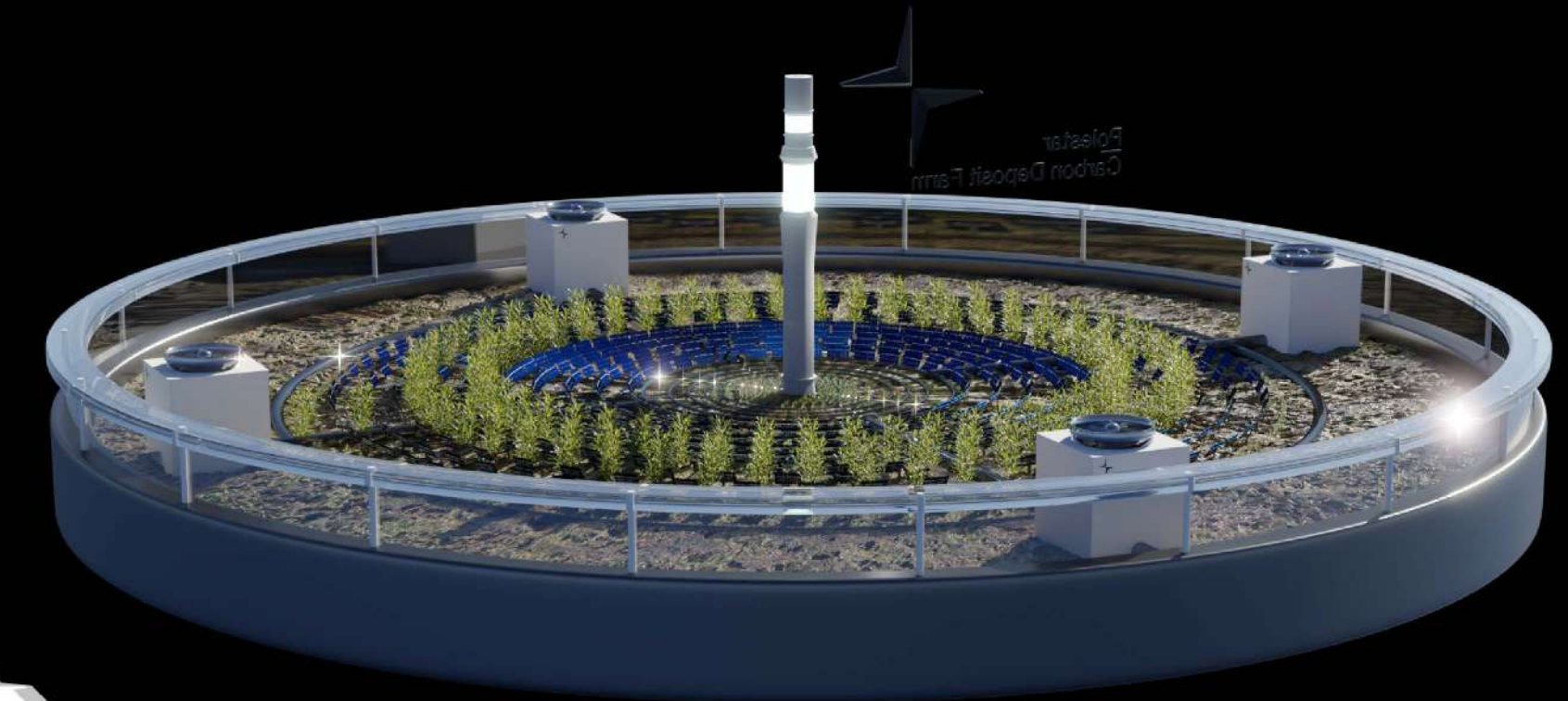


Carbon Processing & Deposit

Mobility Systems & Infrastructure



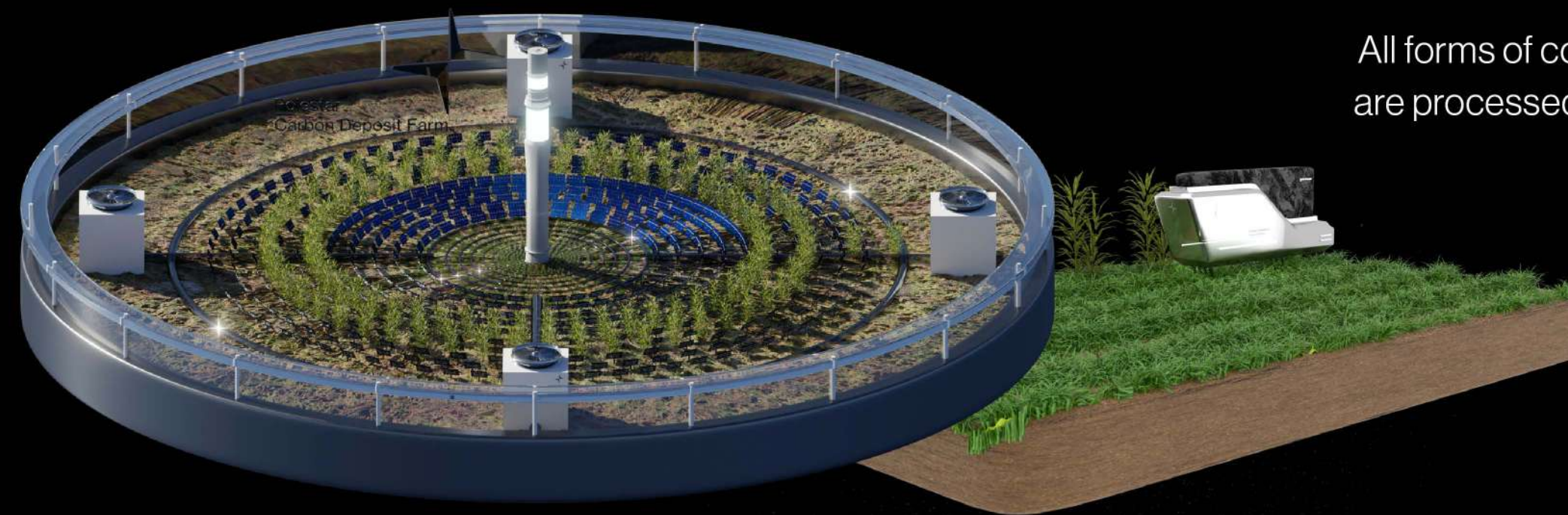
CARBON COMPOST



CARBON DEPOSIT STATIONS

All forms of collected carbon filters and cavities are processed through carbon processing lines to create carbon compost.

Carbon compost is then installed in soil tillers to infuse topsoil with carbon to reinvigorate soil and keep it healthy against extreme heat, harmful bacteria, etc....





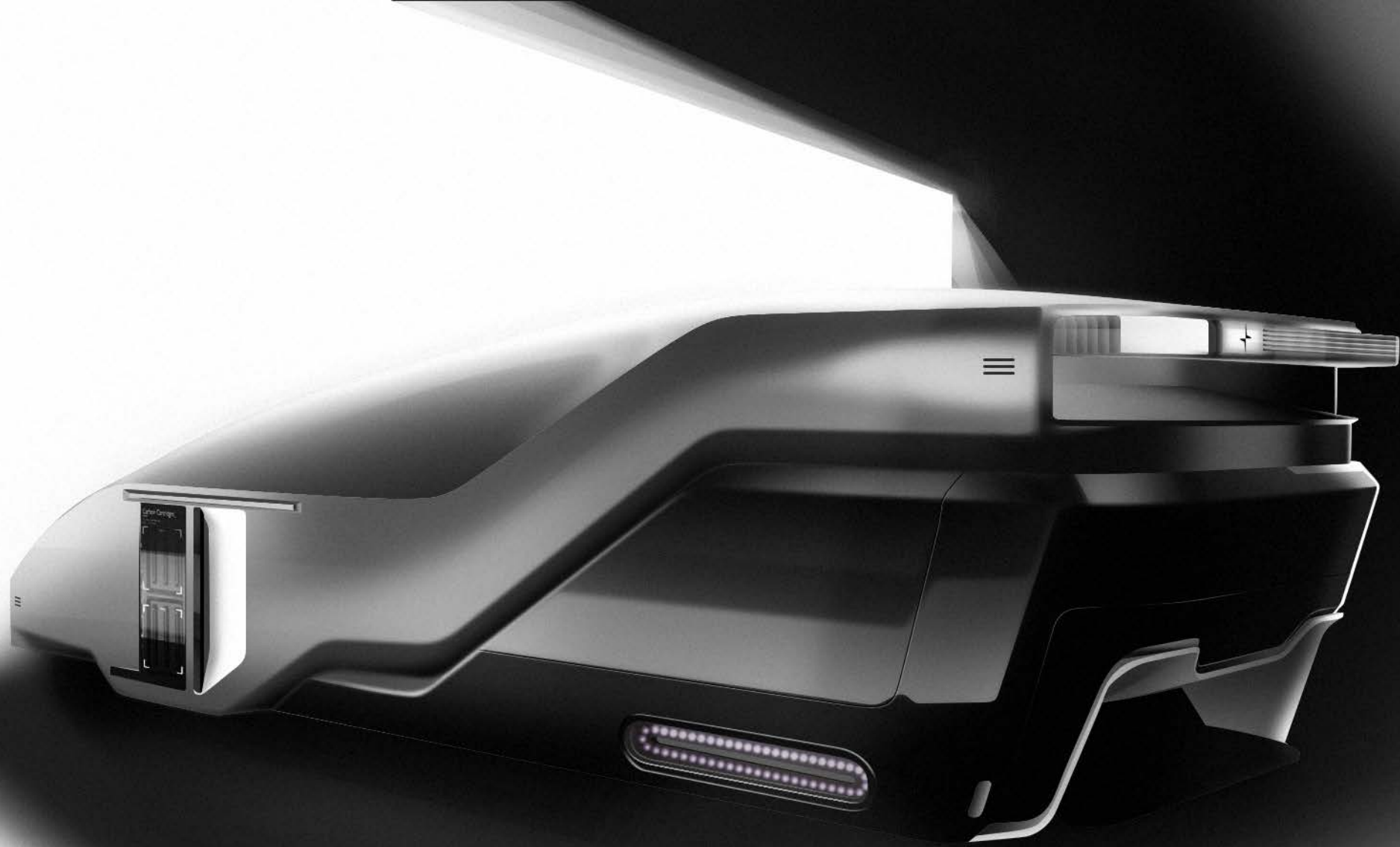
P O L E S T A R N E G A T I V E _





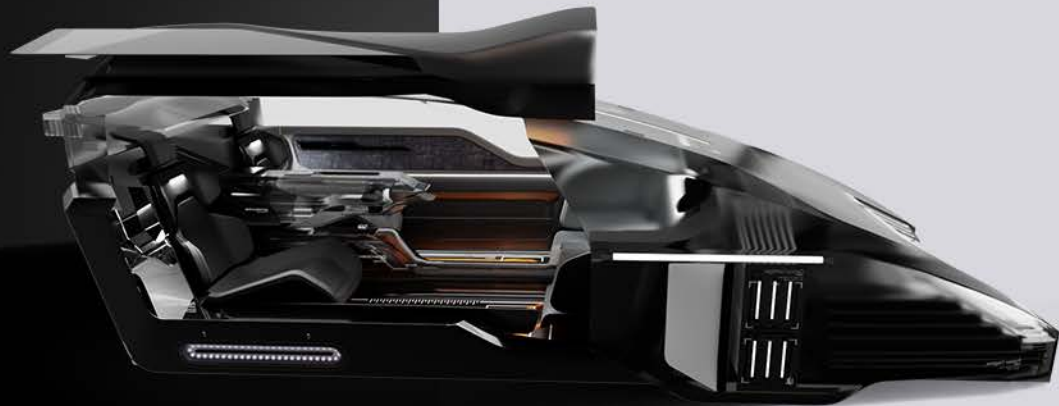
P O L E S T A R N E G A T I V E _





P O L E S T A R N E G A T I V E _





P O L E S T A R N E G A T I V E _

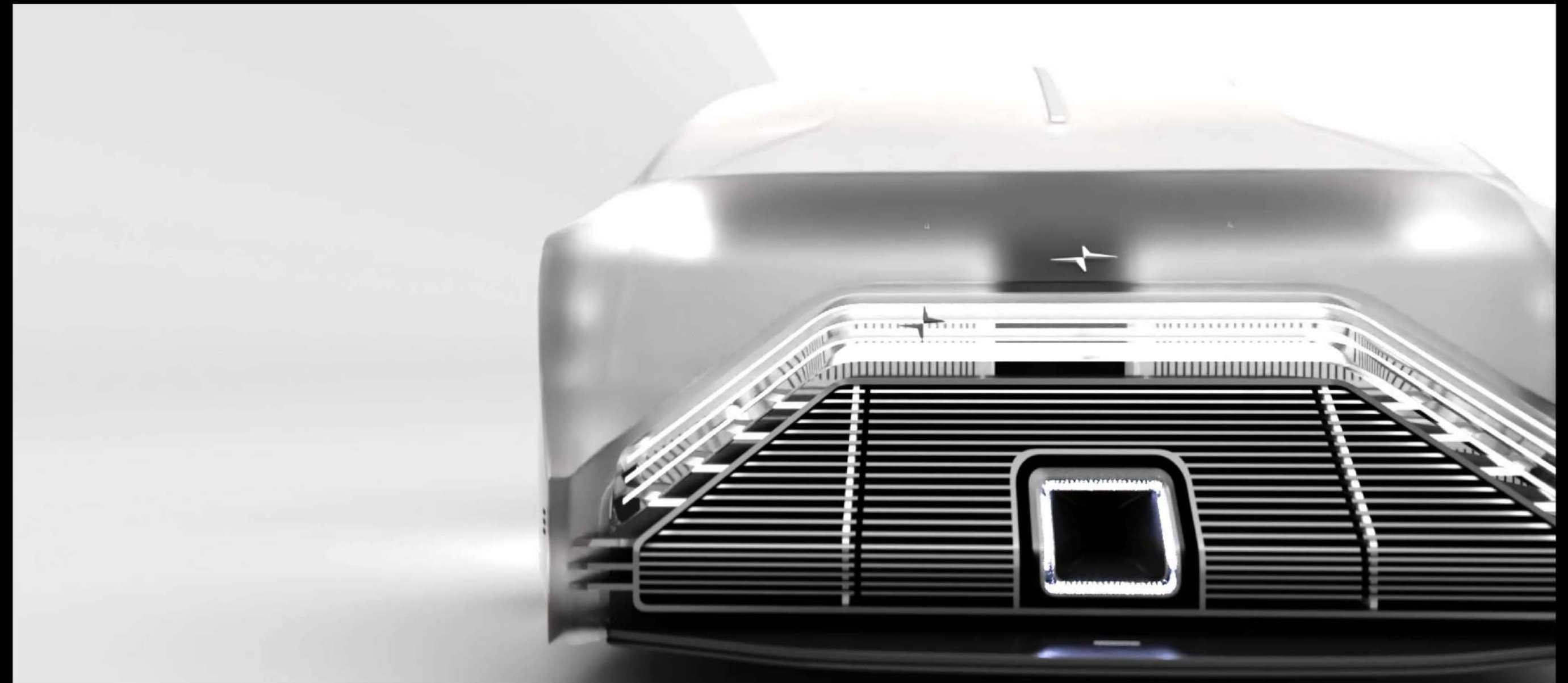
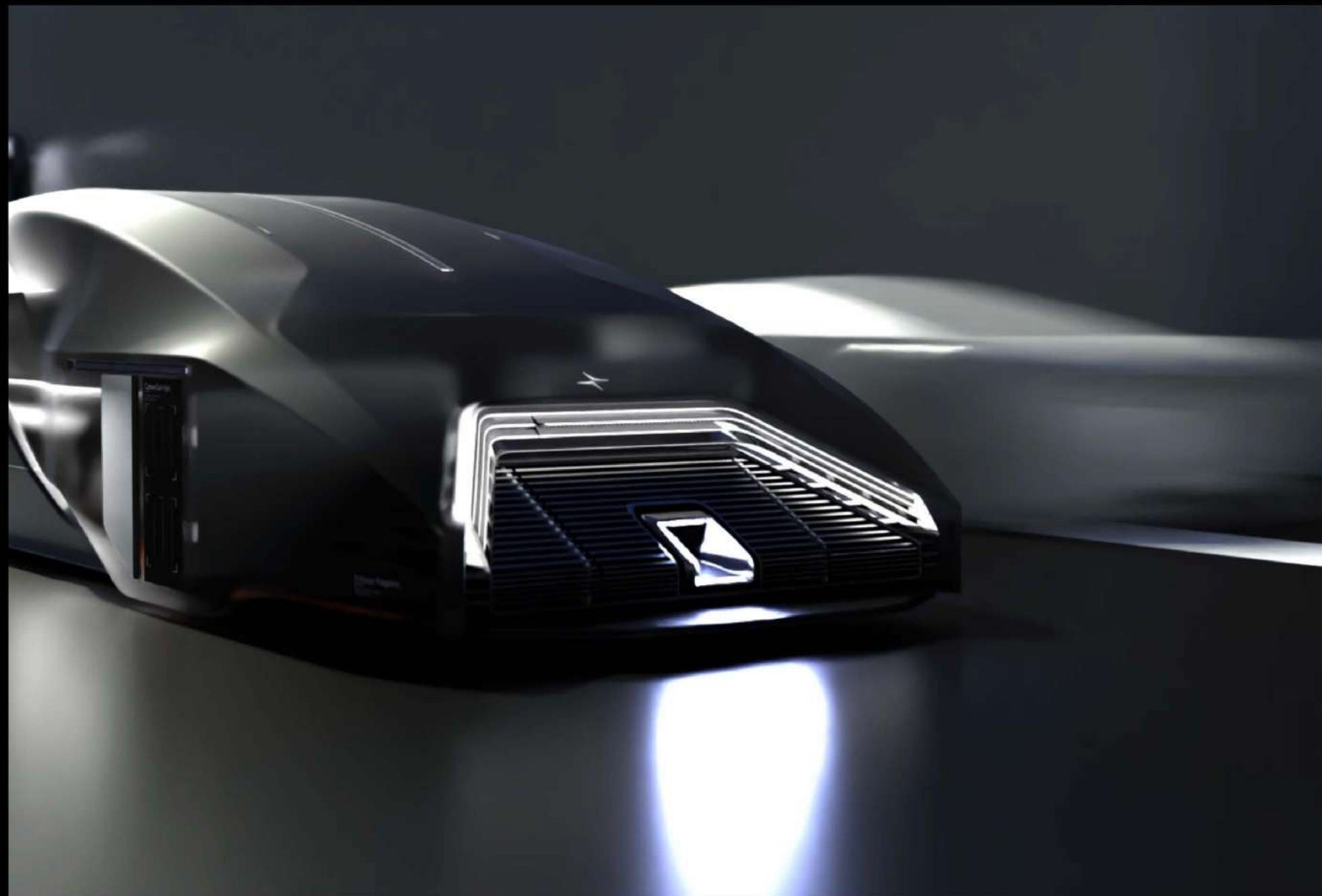
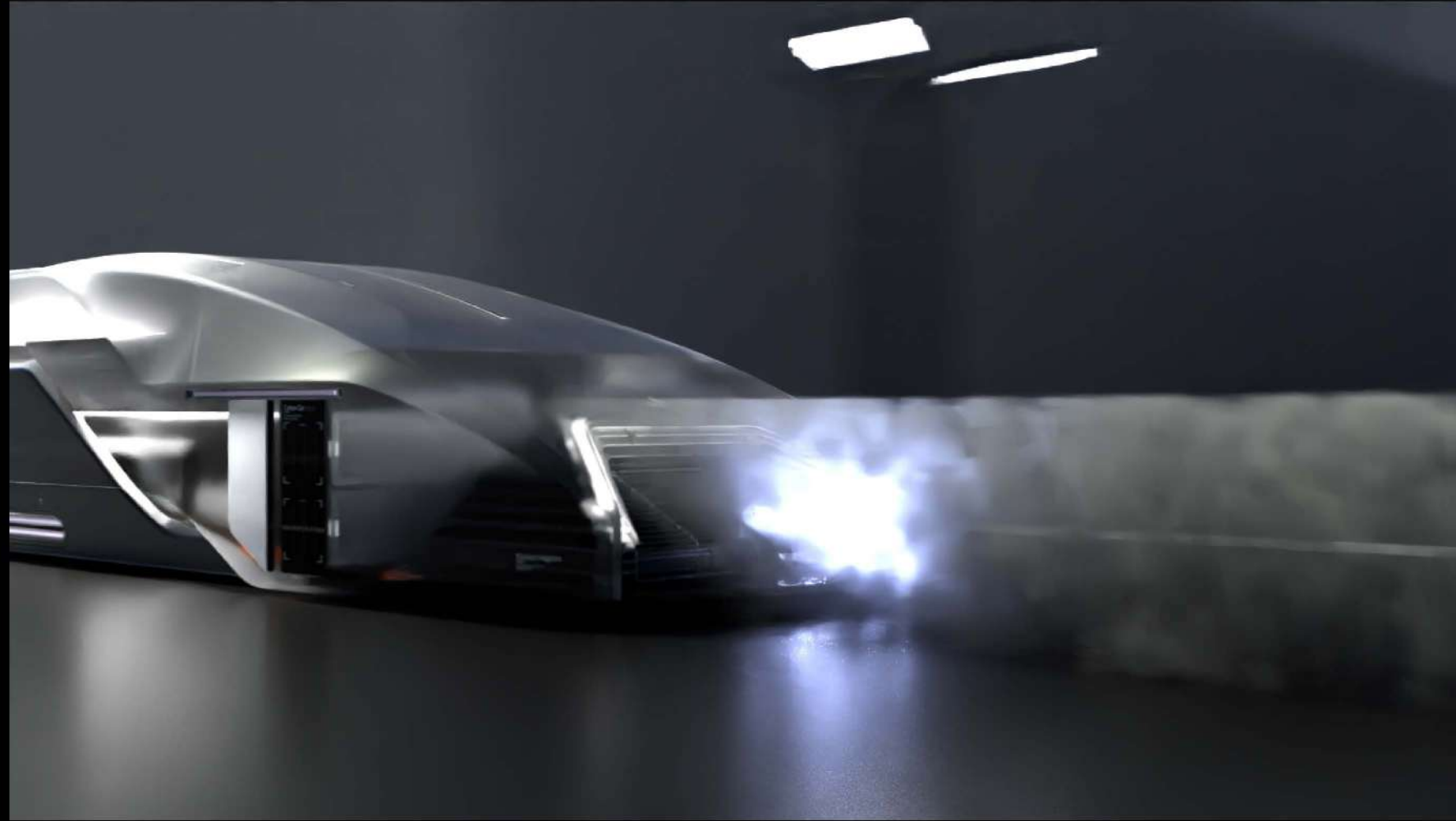


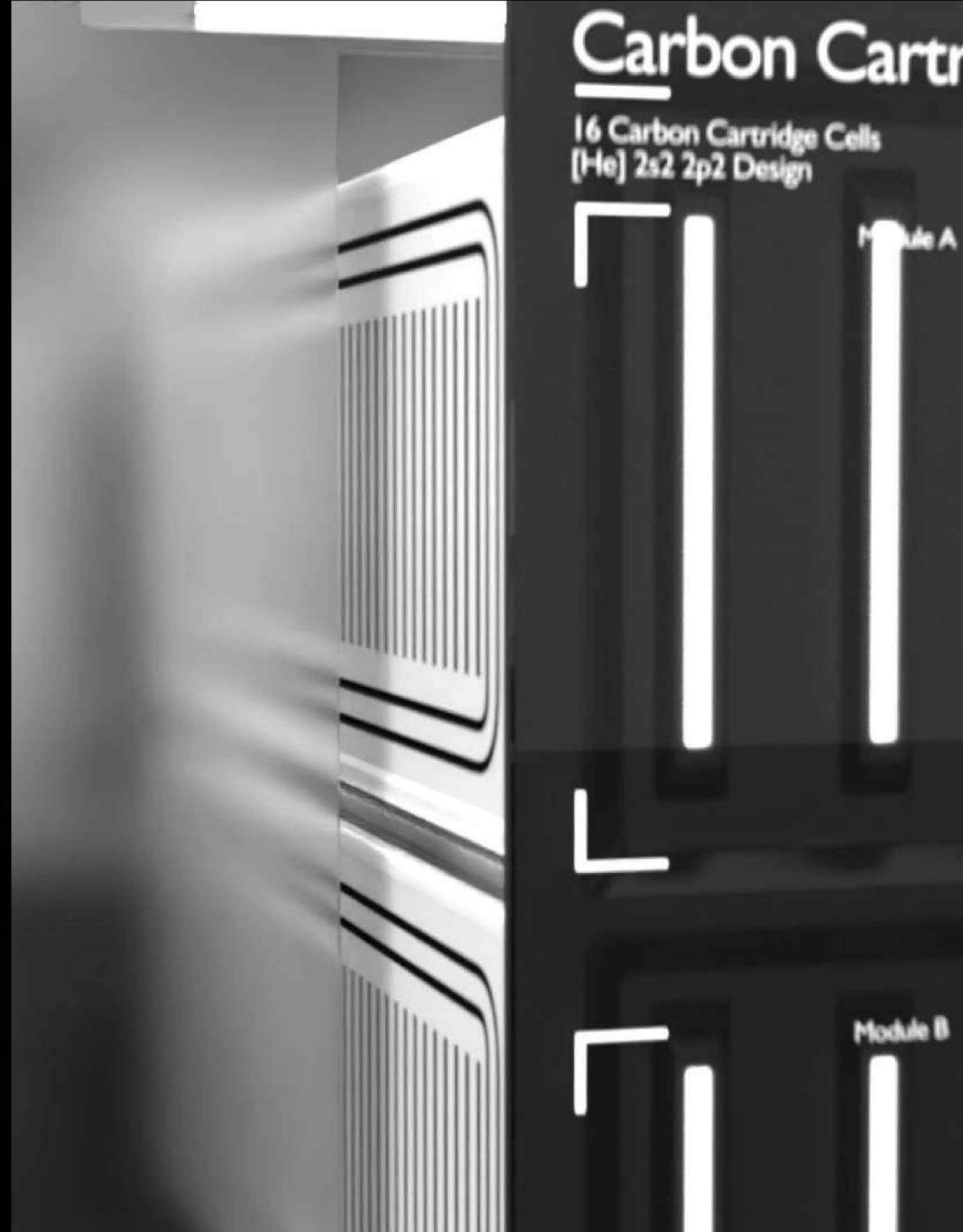


3D Visualizations

3D renders that fully realize the design and atmosphere of the Polestar Negative through black and white translucency aesthetics and earthy textures of carbon.







Physical Model

The final physical 3D model of the Polestar Negative, built in 1:6 scale.





