AUGMENTED INTELLIGENCE: AFFECTING EMOTIONS IN MOBILITY

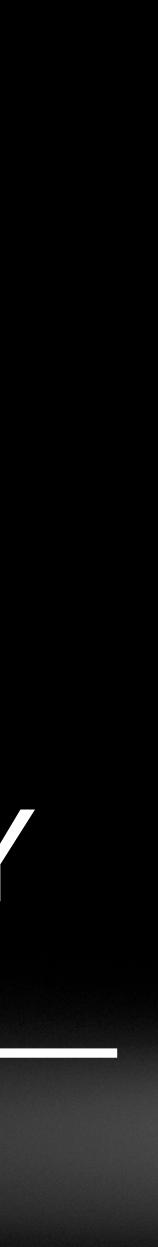
DANNY STILLION - IDEO PARTNER & EXECUTIVE DESIGN DIRECTOR

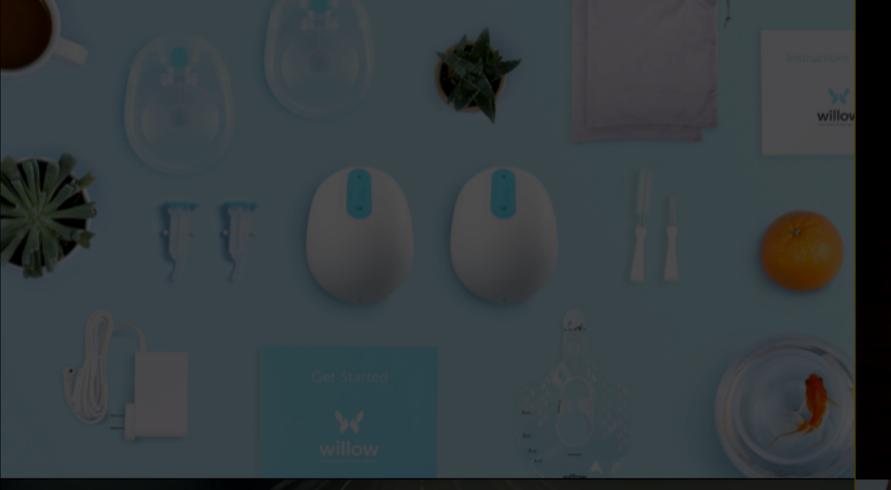
IDEO



Hello.

CUTIVE DESIGN DIRECTOR www.ideo.com/automobility AFFECTIVA EMOTION AND AI EVENT October, 2019





IDEO IS A GLOBAL DESIGN COMPANY. WE CREATE IMPACT THROUGH DESIGN.



700+



LOCATIONS

ENTEOT





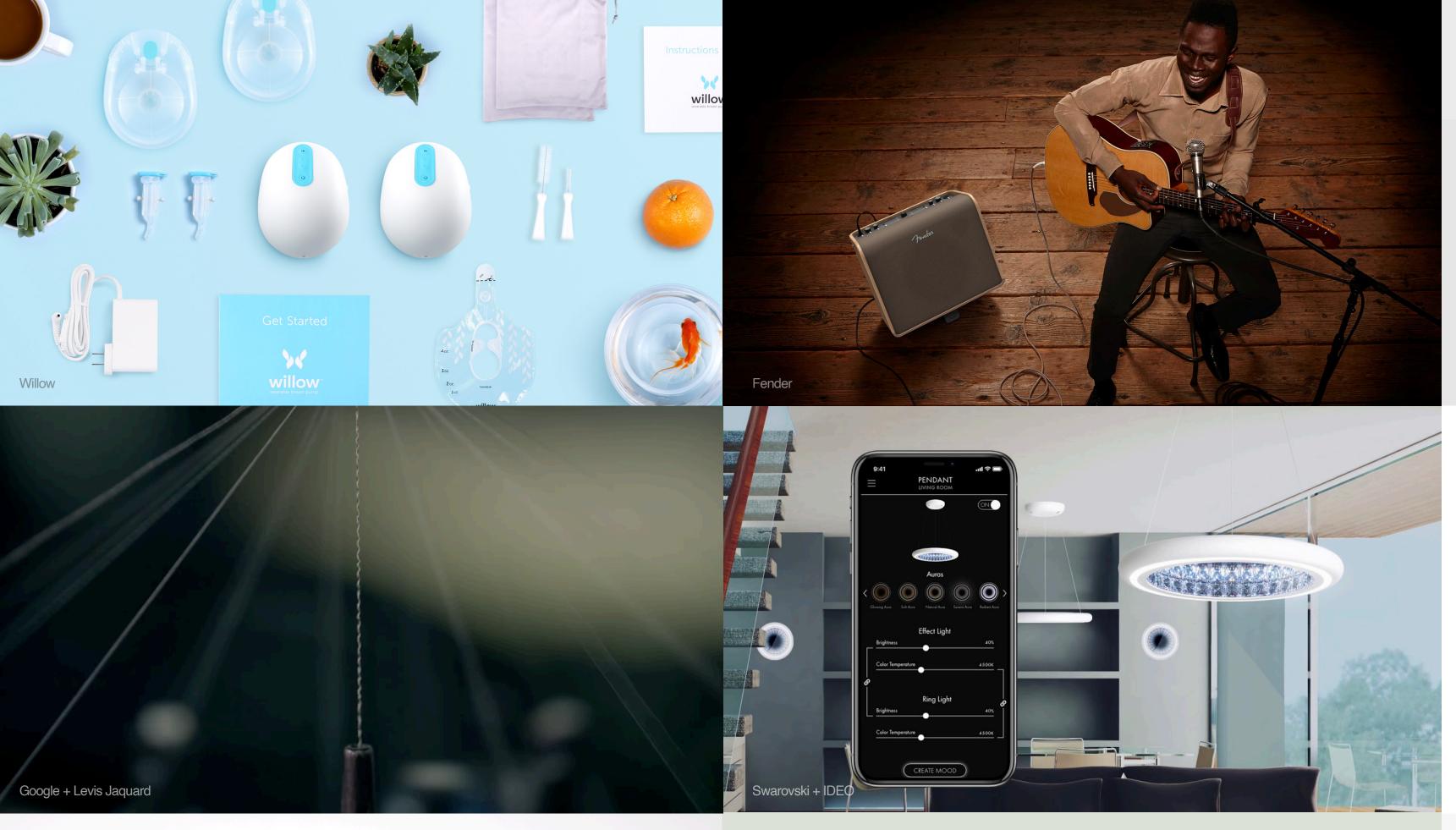
ESTABLISHED

DESIGN CAPABILITIES















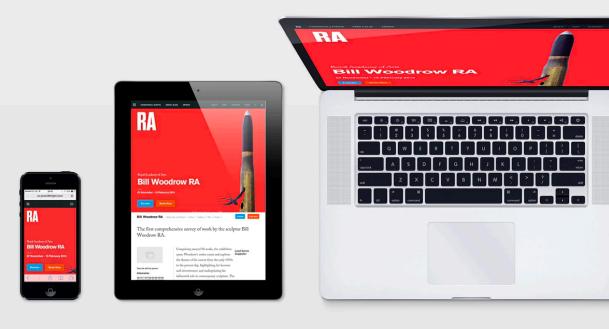




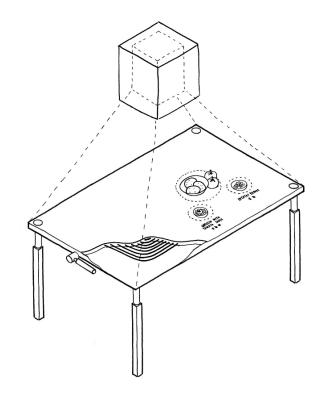




Google Bloks



Royal Academy







LA County Voting





BMW MMI

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Hyundai Health + Mobility



Air New Zealand SkyCo





WHAT WE BELIEVE ABOUT DATA AND AUGMENTED INTELLIGENCE.

Foundational beliefs that guide our exploration of human centered design for augmented intelligence.

HUMAN CENTERED D4AI AT IDEO

DATA IS NOT TRUTH.

All data is created by humans, and unpacking how humanity is present within and around data is essential to understand it and how it can best serve our needs.

DON'T PRESUME THE DESIRABILITY OF AL.

Just because AI can do something doesn't mean that it should. Exploring how human needs intersect with agency when AI augments human intelligence is an essential and never-ending process towards achieving creative excellence.

HUMAN CENTERED D4AI AT IDEO

RESPECT PRIVACY AND THE COLLECTIVE GOOD.

We should consider and design the governance of the use of data for new purposes and ensure that people understand how their data will be used.

HUMAN CENTERED D4AI AT IDEO

UNINTENDED CONSEQUENCES **OFALARE OPPORTUNITIES** FOR DESIGN.

Just like all of our designs, we know that we're not going to get it right the first time. Use the unearthed unknowns and the newly discovered consequences as a starting point for iteration and opportunity.

HOW MIGHT WE USE AUGMENTED INTELLIGENCE TO AFFECT EMOTIONS ASSOCIATED WITH MOBILITY?

How do we want mobility to feel in the coming age of automobility?

AFFECTING EMOTIONS AND MOBILITY

1 LIBERATING

"I will build a motor car for the great multitude...so low in price that no man making a good salary will be unable to own one-and enjoy with his family the blessing of hours of pleasure in God's great open spaces."

- Henry Ford -





FREEDOM OF MOVEMENT I DISCOVERY I EXHILARATION I UPWARD MOBILITY



MOBILITY ASPIRATIONS: FREEDOM OF MOVEMENT I DISCOVERY I EXHILARATION I UPWARD MOBILITY







AI AFFECTING EMOTIONS VIA: RECOVERY OF TIME

CONTINUOUS CONNECTIVITY I AUTONOMOUS SAFETY



"Our goal was to be the first manufacturer ever to reach the magic 300mile-per-hour mark. We have shown several times that we build the fastest cars in the world. In future we will focus on other areas."

Stephan Winkelmann, President of Bugatti -

2 POWERFUL > EMPOWERING



W16 8.0 LITER 1,500 HP 1,600 NM

Image: Bugatti W16 Engine

I.C.E. AGE MASTERY: ADVANCED METALLURGY I HEAT AND FRICTION MANAGEMENT I COMBUSTION EFFICIENCY I FLUID MANAGEMENT



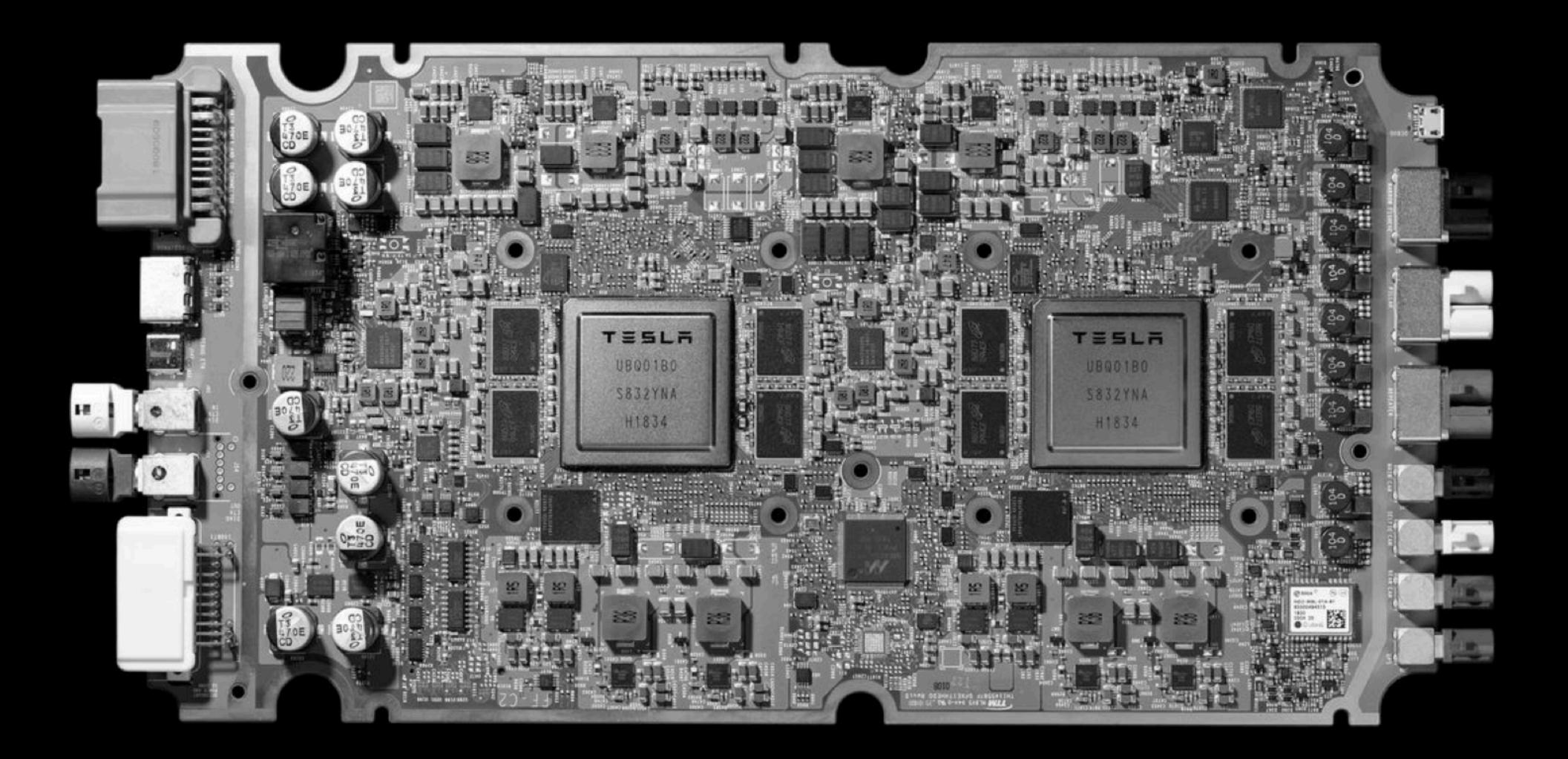


Image: Tesla Processor

AUTOMOBILITY ERA MASTERY: ADVANCED PROCESSING I VISION SYSTEMS I AI I MULTI-SENSOR ARRAYS I HIGH BANDWIDTH CONNECTIVITY



AUTOMOBILITY ERA MASTERY: ADVANCED PROCESSING I VISION SYSTEMS I AI I MULTI-SENSOR ARRAYS I HIGH BANDWIDTH CONNECTIVITY

AI AFFECTING EMOTIONS VIA: LEVERAGING CONTEXT I

G Image: IDEO - Future of Automobility

		Busy day ahead. have 7 Meetings
• •	AM Conference Call Client Meeting	PM 1 Client Conference Call 330 Team Kickoff Meeting
•	10:30 Conference Call 12 Team Lunch	6:15 Client Dinner Meeting

SMART INFRASTRUCTURE I CONNECTED DATA SERVICES OVER-THE-AIR UPDATING





3 I DESIRABLE

"People like you or I know, we have an unshakable belief that cars are living entities...You can develop a relationship with a car. And that's just what non-car people don't get."

- Jeremy Clarkson -

MOVING SCULPTURE

SUB 3 SECOND 0-60 TIME

COMPELLING DRIVER'S EXPERIENCE

Image: Lamborghini Sesto Elemento



OPTIMIZED HANDLING

INNOVATIVE MATERIALS

AERODYNAMIC EFFICIENCY

INTERNAL COMBUSTION ENGINE INNOVATION





MOVING SCULPTURE SUB 3 SECOND 0-60 TIME

AUTOPILOT FUNCTIONALITY



OVER-THE-AIR UPDATES

INNOVATIVE MATERIALS

AERODYNAMIC EFFICIENCY

ELECTRIC BATTERY POWER INNOVATION







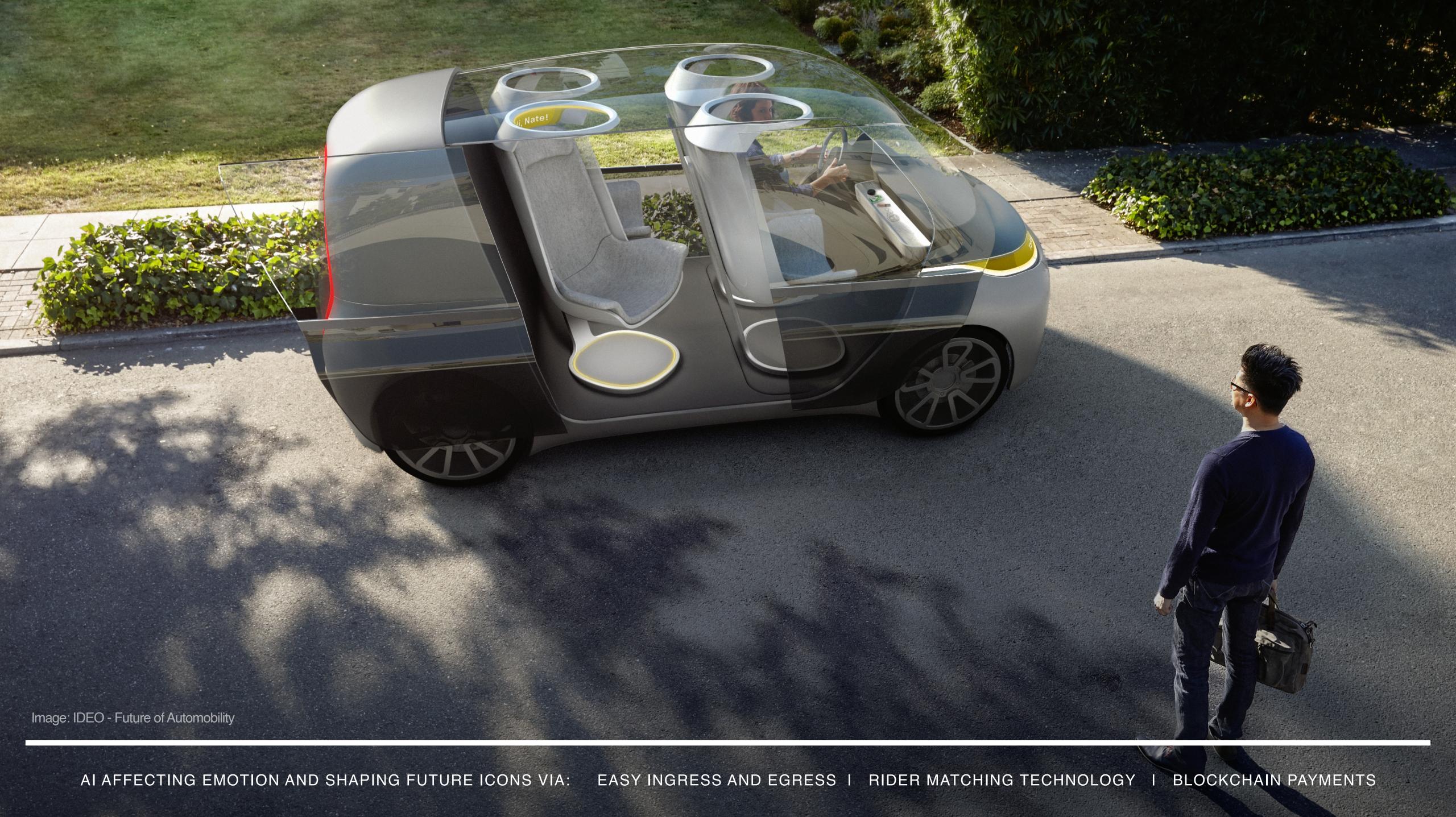


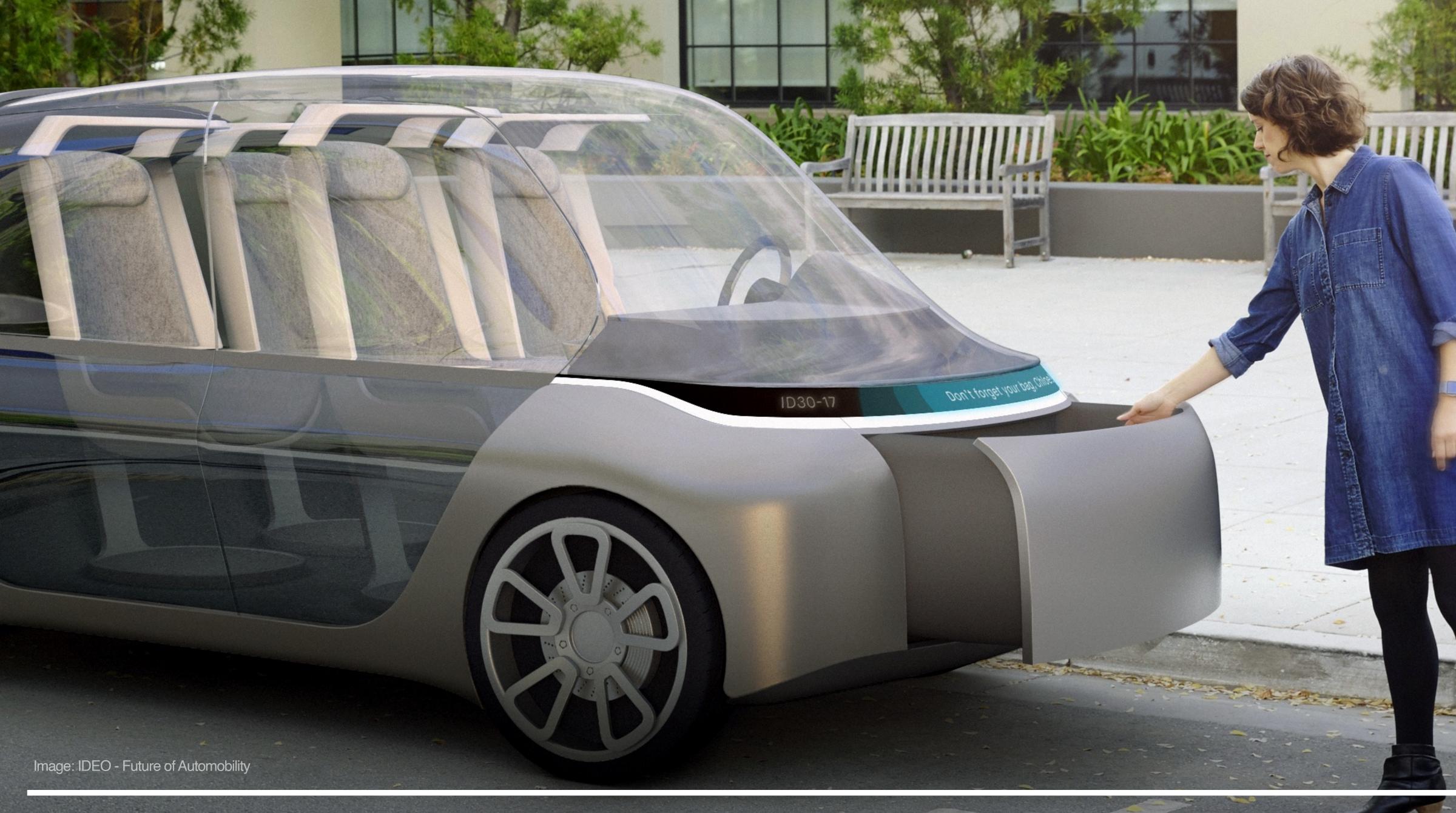
Image: Tesla Model S

ERA OF TRANSITIONING ICONS: DEFINING A NEW BRAND THROUGH NEW TECHNICAL REQUIREMENTS









AI AFFECTING EMOTION AND SHAPING FUTURE ICONS VIA:

COLLABORATIVE MOBILITY PLATFORMS I SECURED PRIVACY ZONES





"We at BMW do not build cars as consumer objects, just to drive from A to B. We build mobile works of art."

4 | DELIGHTFUL

- Chris Bangle -

AI AFFECTING EMOTIONS VIA: DEFINING A FRIENDLY AND FAMILIAR NEW NORMAL IN NEIGHBORHOODS I ROUTE OPTIMIZATION

Image: IDEO - Future of Automobility



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AI AFFECTING EMOTIONS VIA: DEFINING A FRIENDLY AND FAMILIAR NEW NORMAL IN NEIGHBORHOODS I ROUTE OPTIMIZATION

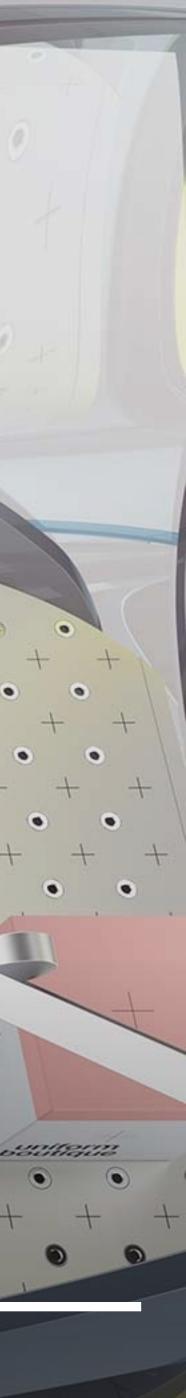


Image: IDEO - Future of Automobility

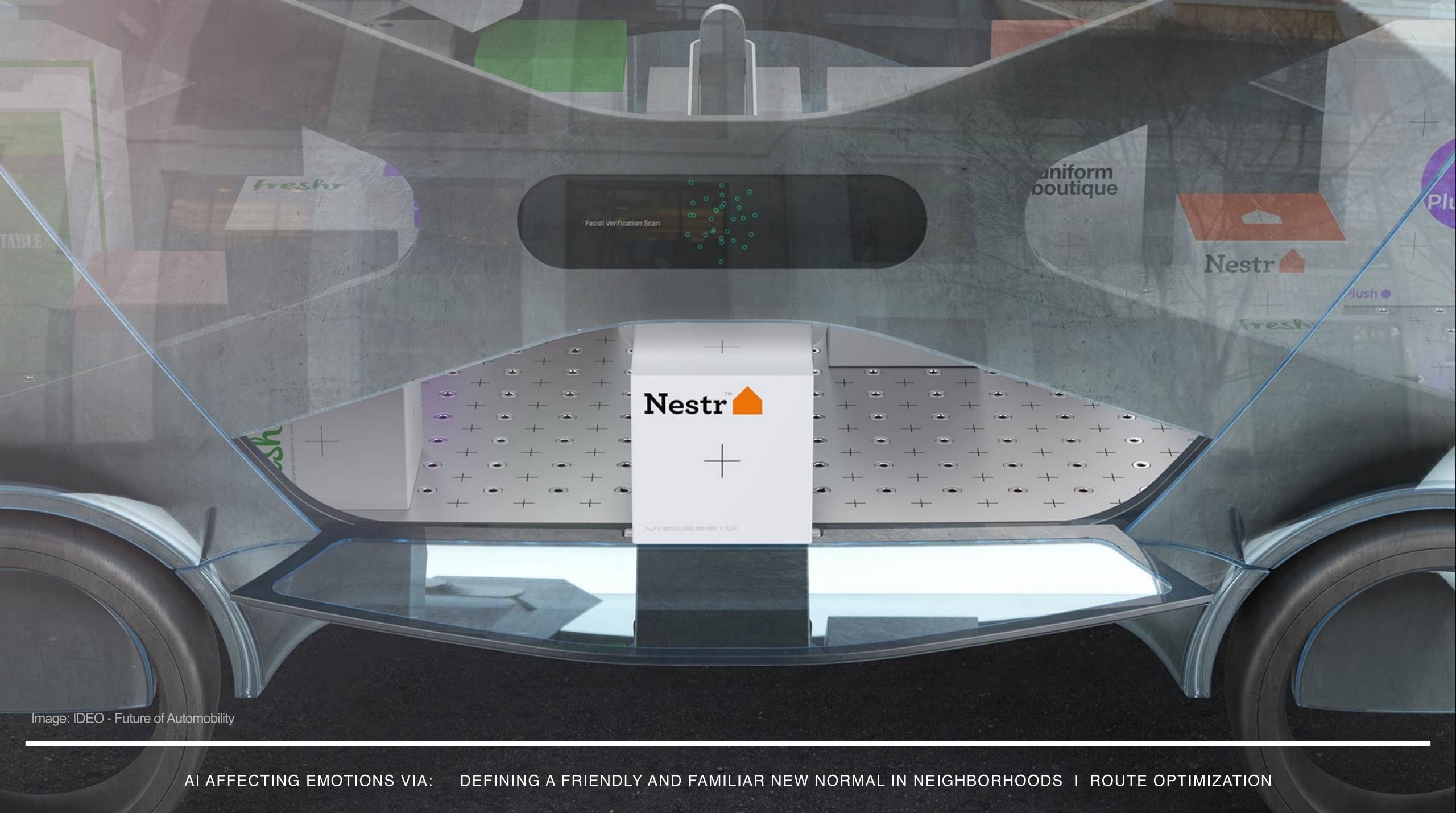
AI AFFECTING EMOTIONS VIA:

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DEFINING A FRIENDLY AND FAMILIAR NEW NORMAL IN NEIGHBORHOODS I ROUTE OPTIMIZATION



5 I ADAPTIVE

"Big data is the fuel of the connected vehicle."

 Andreas Mai, Director, Smart Connected Vehicles, Cisco Systems, Inc -





AUTONOMOUS VEHICLE FLEET OPTIMIZATION AI AFFECTING EMOTIONS VIA: ENHANCED LIVABILITY OF CITIES I





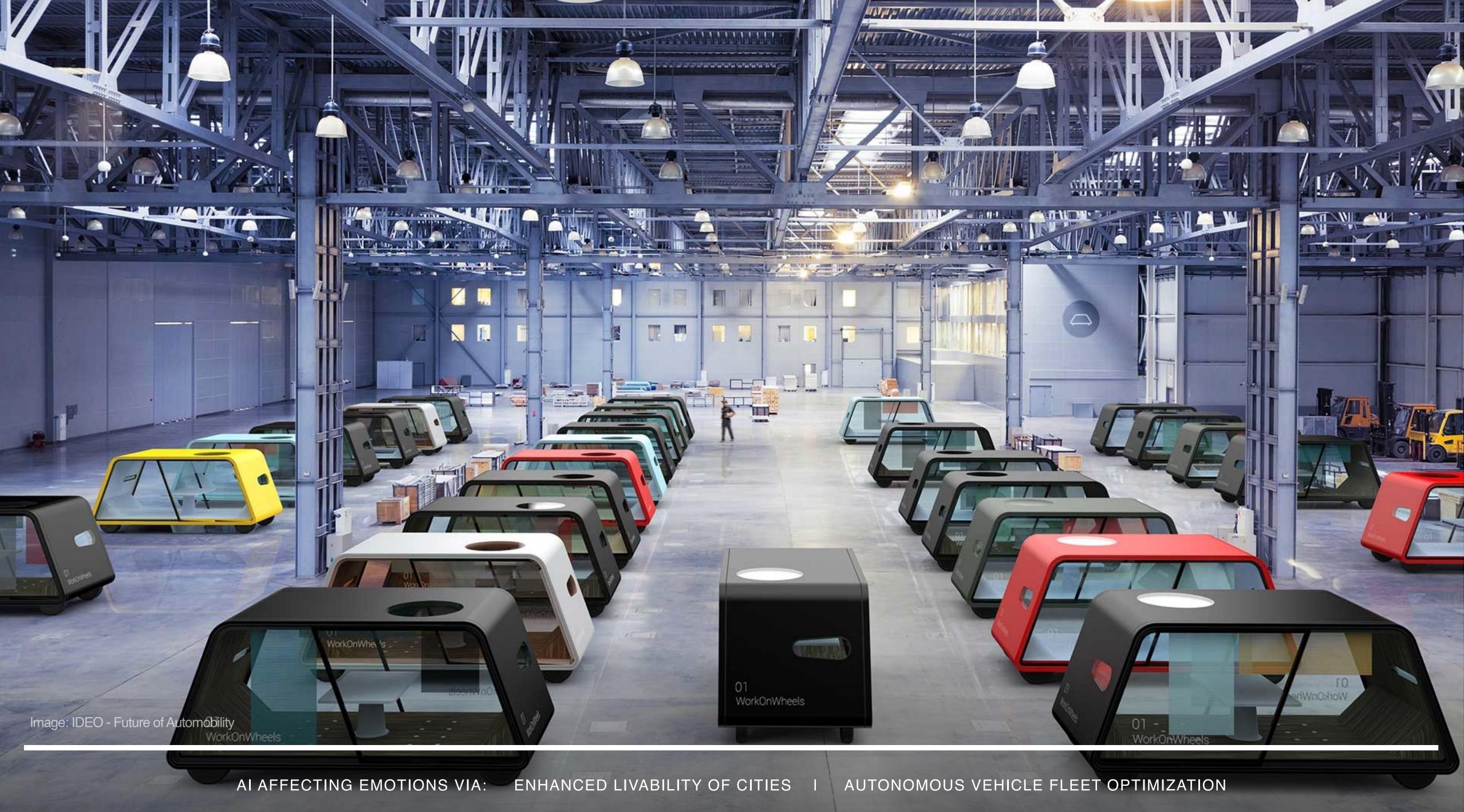
Image: IDEO - Future of Automobility

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AI AFFECTING EMOTIONS VIA: ENHANCED LIVABILITY OF CITIES I







LIBERATING POWERFUL > EMPOWERING DESIRABLE DELIGHTFUL ADAPTIVE

Image: IDEO - Future of Automobility

AI AFFECTING EMOTIONS AND THE FUTURE OF AUTOMOBILITY:

LIBERATION I EMPOWERMENT I DESIRABILITY I DELIGHT I ADAPTATION

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THANK YOU.

AFFECTIVA EMOTION AND AI EVENT October, 2019