



Nuno Marques (54338)
Componente Não Lectiva | Mestrado de Novas Media e Práticas Web

i.Triu

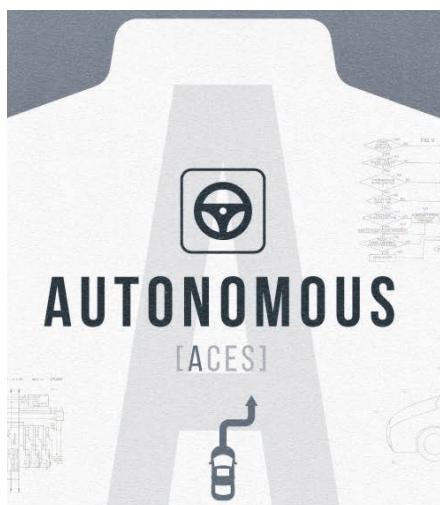
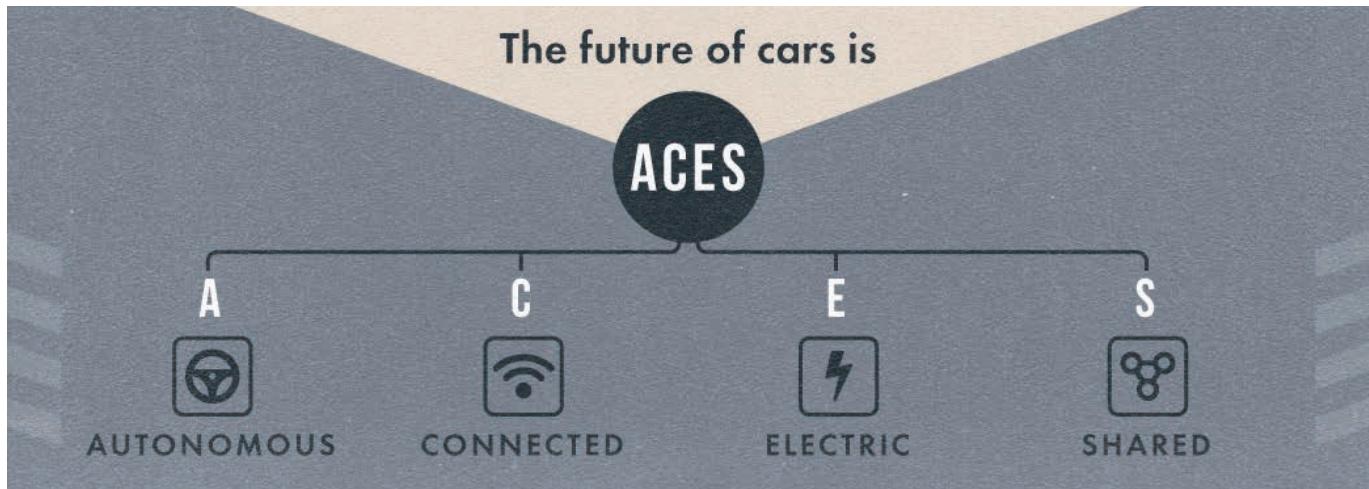
INSPIRATION & IDEAS

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**INSPIRATION
& IDEAS**



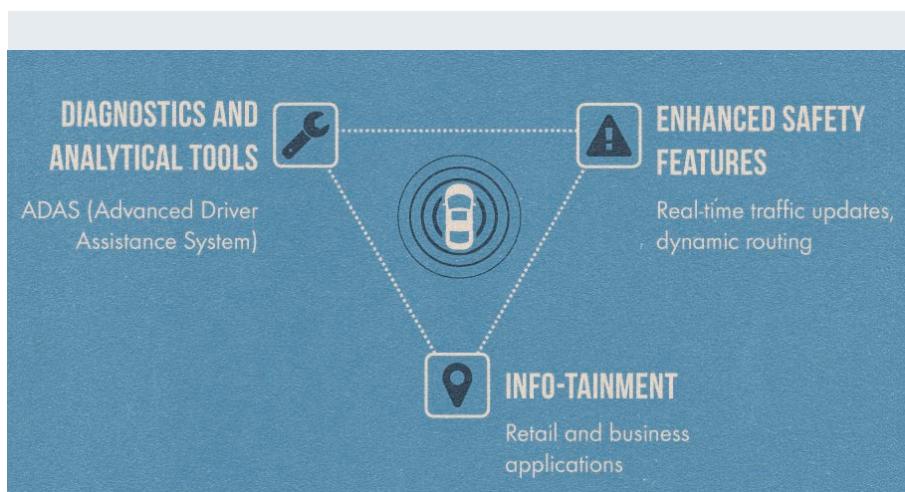
By 2030, up to **70%** of new cars sold could have self driving features.

15% could be fully autonomous.



In urbanized areas, self-driving cars can save time...

Average time an American spends on commuting annually is **212 hours.**



AUTONOMOUS LIFE

"Automation and the shared economy will change how the entire commuting model works. Meanwhile, an increased penetration of EVs will have an impact well beyond the engine, as charging infrastructure needs to be added, battery supply chains need to be created, and as legacy auto parts become obsolete."

SOURCE – <https://www.visualcapitalist.com/future-automobile-innovation/>

FUTURE MODERN ELECTRIC
INTERFACES & SCREENS COMPACT
SAFETY CARS CONNECTED



SIMILAR VEHICLES – Meccanica Solo

"Charge Everywhere – What if you charged your car the way you charge your phone? When it's not in use, it's charging. Free public charging is now a mainstay in malls, parking lots and city-built stations, and it's easy to install a low-cost charge station at home."

SOURCE – <https://electrameccanica.com/solo/>

3 WHEELS

1 SEAT

COMPACT

ELECTRIC

TRADITIONAL FEEL



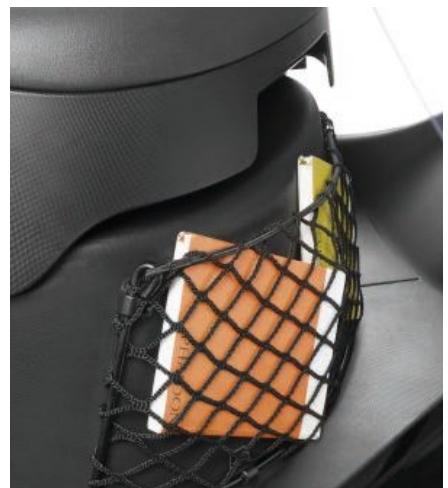
1 – EXPRESSION



2 – DYNAMIQUE



3 – CARGO



SIMILAR VEHICLES – Renault Twizy

Possibility to make the product very customised. In this case, Twizy integrates 3x different variations of the product. As an example of its functionality, this vehicle is used in Lisbon for tours and you just need an APP to drive it around the city.

SOURCE – <https://www.renault.co.uk/vehicles/new-vehicles/twizy.html>

MODERN

4 WHEELS

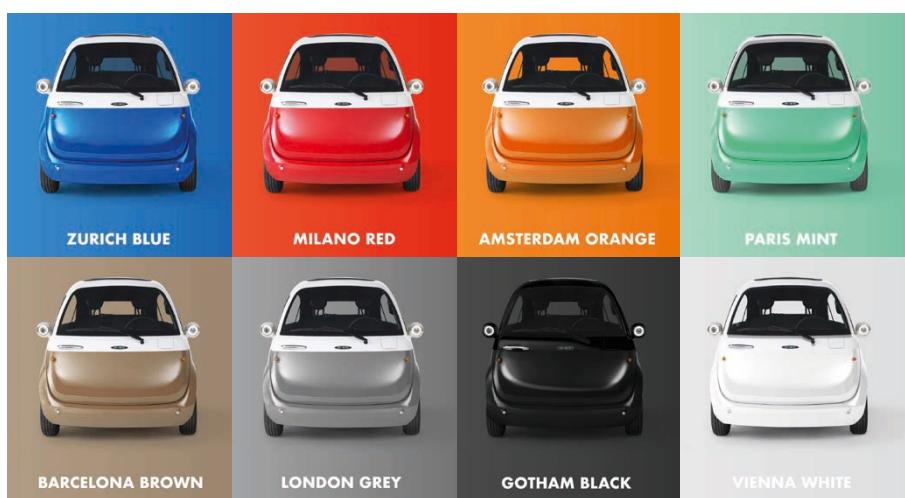
2 SEATS

CROSS PARKING

ELECTRIC

COMPACT

CUSTOMISABLE



SIMILAR VEHICLES – Microlino

The Microlino has two seats, a kerb weight of 435 kg, a range of 125 or 200 kilometers (bigger battery) and a maximum speed of 90 km/h. With just 2.4 meters length, is ideal for cross-parking, the front-entrance enables getting out directly on the sidewalk.

SOURCE – <https://www.micro-mobility.com/en/experience-micro/microlino>

VINTAGE FEEL

2 SEATS

COMPACT

ELECTRIC

3 WHEELS

FUNNY

CROSS PARKING

Car UX by Use Case

Defined by car manufacturer
 Defined by iOS CarPlay, Android Auto



Driver's screen

Speedometer, tachometer

Warnings

System status

(fuel, milage, engine temperature)

Driving modes

(sport, eco, regular)

Environment infos

(outside temperature, speed limit)

Assistant activity

(cruise control, other driving aids)

Navigation

(directions, route updates)

Status of media, phone, ...

(current song, active call, etc.)



Center console screen

Music and Media

Radio

Messaging

Telephony

Apps (third party)

Navigation

(planning, large map, settings)

Climate controls

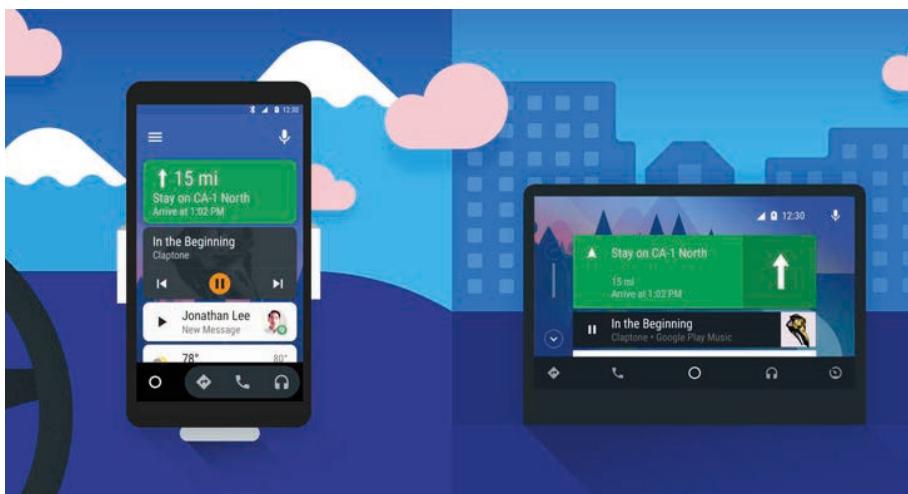
(AC, fans, heated seats, etc.)

Parking assistants

(distance sensors, rear camera)

Car settings

(general settings, maintenance info, etc.)



One app, two ways to use Android Auto

"Google has also developed its own app called Android Auto. It gives you access to many functions such as phone calls, messages, music and Google Maps. In other words, having Android Auto integrated with your car is like driving with Google in the passenger seat."

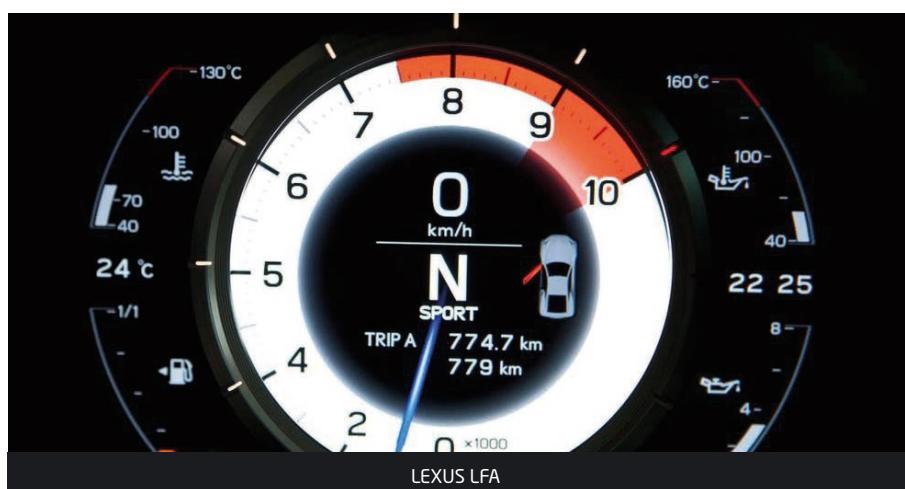
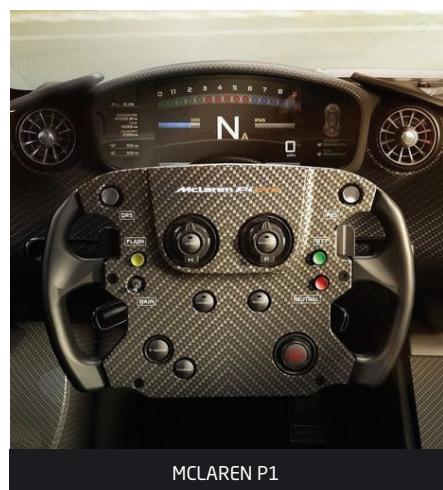
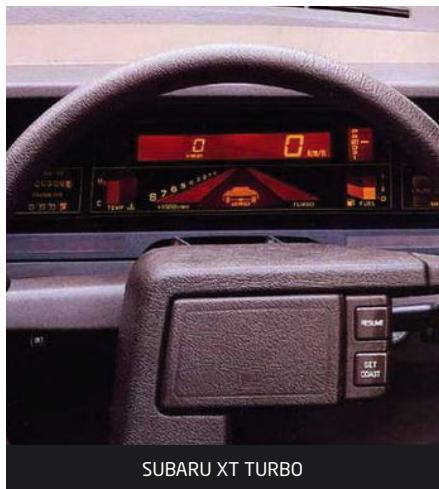
IN-CAR USER INTERFACES

"Adding digital screens and human-interfaces to the interior of a car, allows data from mobile devices and from the cloud to be fully integrated into the core driving experience - the manufacturers that give car buyers what they want by turning this data into personalized services that continue to improve over time will benefit from higher customer satisfaction." SOURCE – <https://www.glueglue.com/blog/car-ux-ui-design/>

CROSS DEVICE

VERSATILE & ADAPTIVE

CUSTOMISABLE



TRADITIONAL CAR INDOOR INTERFACES

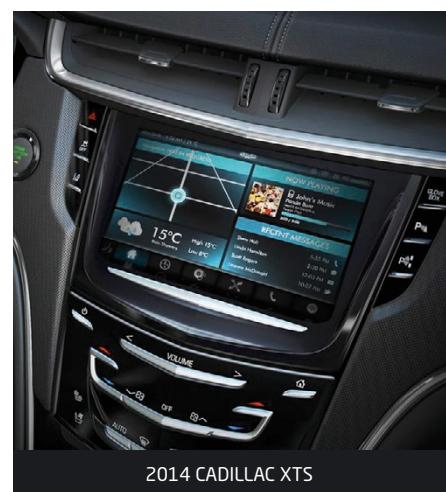
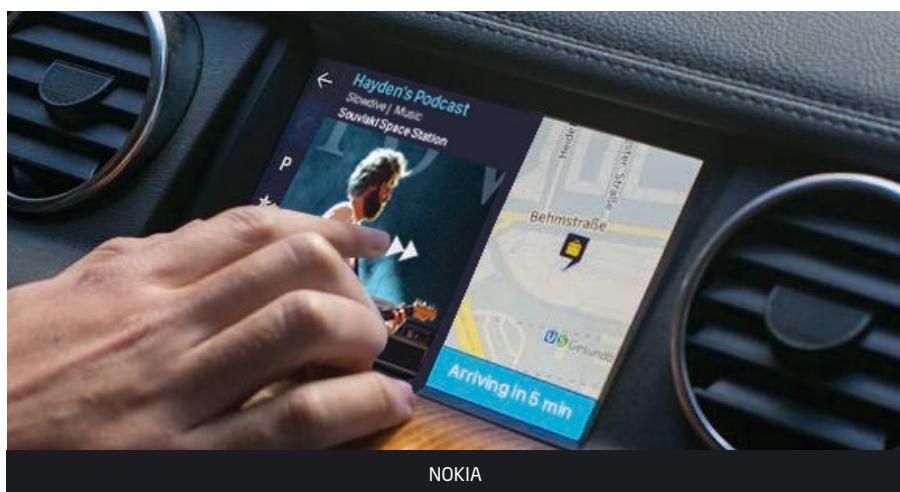
"Digital gauges first started showing up in 1980s cars to varying degrees of success. Automakers pushed hard for them, but the trend all but died in the 1990s. In the 21st century, though, digital gauges made a comeback and it looks like they're here to stay."

SOURCE – <https://www.roadandtrack.com/new-cars/car-technology/g6849/best-digital-gauges/>

TRADITIONAL

DISPLAYS BUTTONS

CAR GAUGES



TRADITIONAL CAR INDOOR INTERFACES

Here are some examples about the traditional functions we must focus developing
i.Triu dashboard and APP.

MODERN

DISPLAYS

TOUCHSCREEN

SOURCE – A collection of images found on the previous sources.

The collage consists of six images illustrating various car dashboard interface concepts:

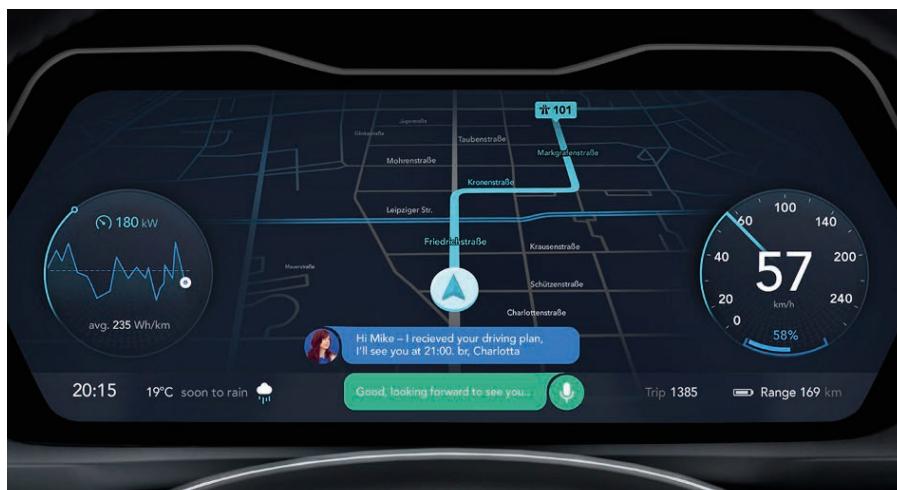
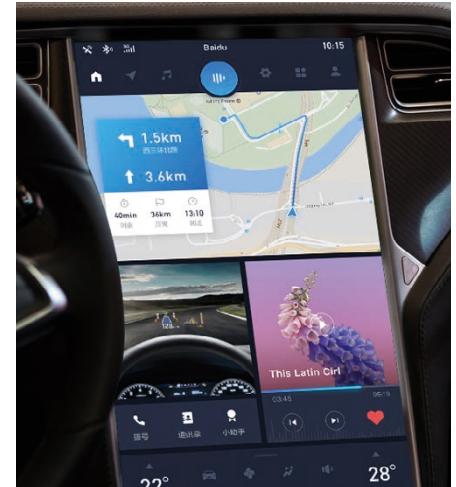
- Top Left:** A futuristic, curved digital dashboard with a blue-themed UI. It features a large central screen displaying a clock (13:50), media controls (Phone, Media, Settings), and a gear icon. The steering wheel is visible in the foreground.
- Top Right:** A sleek, minimalist dashboard with a large touchscreen displaying a music player interface. The screen shows album art for "The Only Hope" by Skrillex, a play button, and a track list including "Hey There Delilah". The interior has red leather seats.
- Middle Left:** A circular speedometer-style gauge with a glowing blue ring. The number "78" is prominently displayed in the center.
- Middle Right:** A dashboard featuring a map of Po Lam, Hong Kong, with a navigation route highlighted in blue. The screen also displays a speed limit of 104 km/h, a battery icon showing 320km range, and a temperature of 15°C - 15.26°C. A green callout box indicates a turn "Toward Po Lam Road North" in 200m.
- Bottom Left:** A complex multi-screen dashboard for an electric vehicle. It includes a media player showing "Rudimental Never Let You Go", a circular gauge showing 90 mph and 144.841 Km/h, and a map with charging station information for Fremont and Belmont Superchargers.
- Bottom Right:** A digital media player interface with a circular album cover for "You're Mine" by Lea Michele Louder. The screen also shows a play button, volume control, and other media icons.

CAR DASHBOARDS / INTERFACE CONCEPTS

Some examples of different visual components and visual language used in user interface design. Minimal language with a touch of a realistic object, gives a more modern and sophisticated look.

SOURCE – <https://medium.com/inspiration-supply/car-dashboard-ui-ux-concepts-d135959d963f>

FUTURISTIC CONCEPT
DIGITAL MINIMAL CLEAN
TOUCHSCREEN



CAR DASHBOARDS / INTERFACE CONCEPTS

Here we can be aware and see the different appealing of the visual language on the seats screen, in the images on the right.

SOURCE – <https://medium.com/inspiration-supply/car-dashboard-ui-ux-concepts-d135959d963f>

FUTURISTIC

CONCEPT

DIGITAL

MINIMAL

CLEAN

TOUCHSCREEN



MIND BLOWING CONCEPTS OF CAR UI

Please take a look on the source's link and see these fantastic concepts with motion graphics animation and see how these user interfaces reacts and lives in harmony with all its tools and functions.

SOURCE – <https://medium.muz.li/mind-blowing-concepts-of-car-user-interfaces-b2839a7e7002>

FUTURISTIC

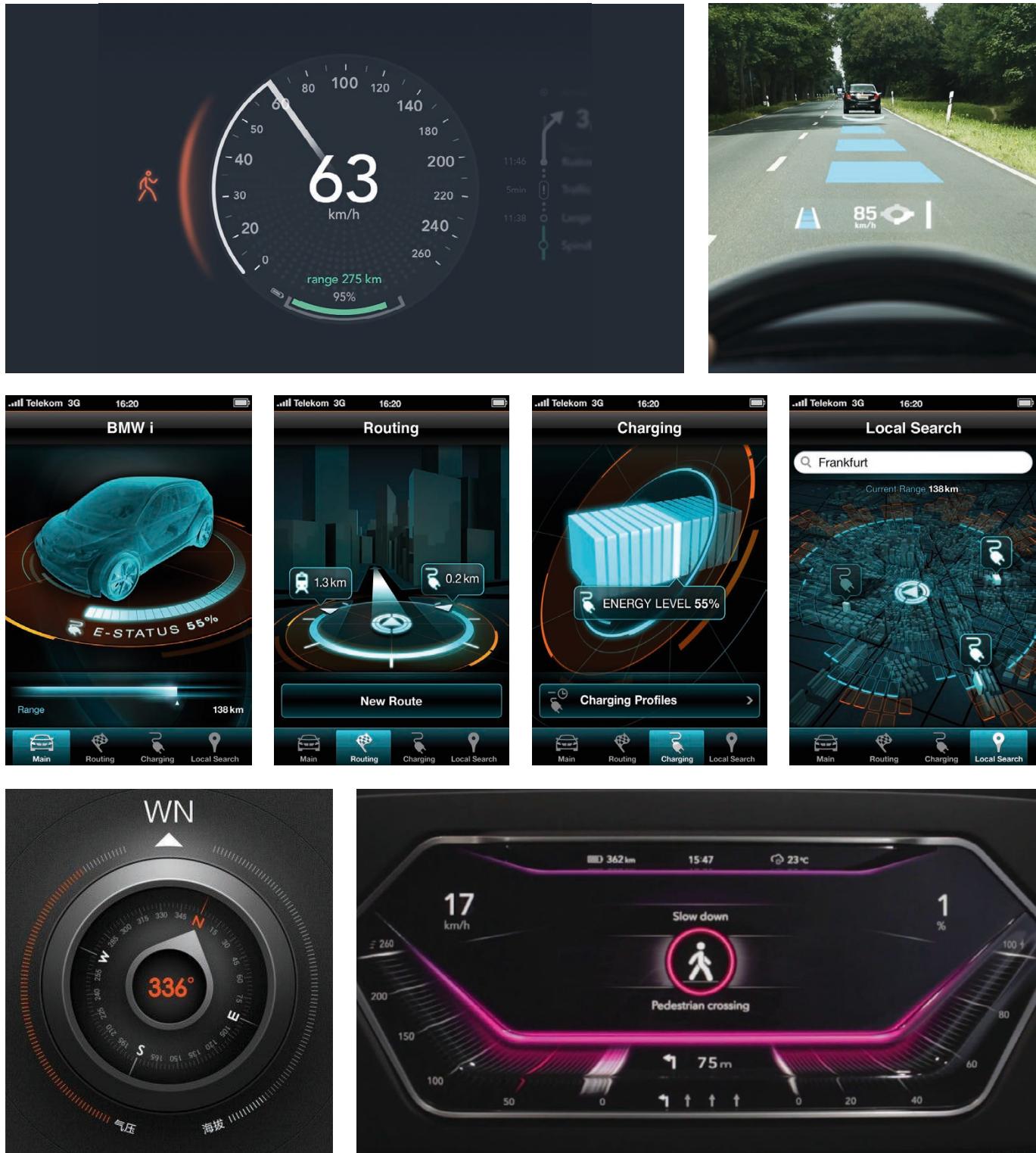
DIGITAL

WIDE

PANORAMIC

CONCEPTUAL

CLEAN



UTILITIES & TOOLS

As shown on the first and last image, the ability to see an alert showing a person or car coming to us gives an extra feeling of confidence on driving in low-light environments, raining and fog. Also important to show to the driver where he can charge the vehicle.

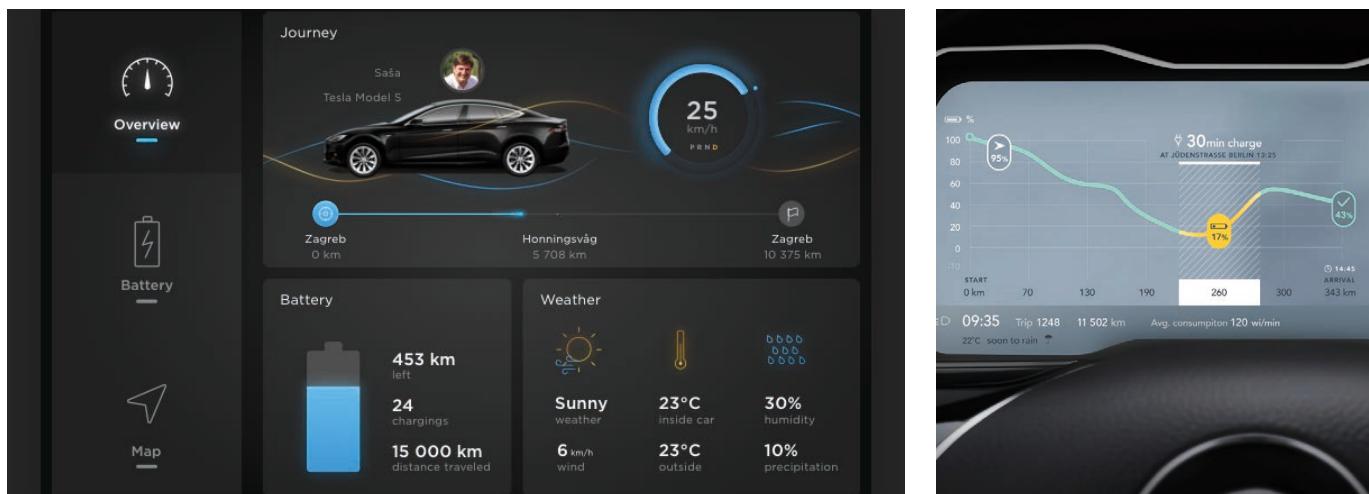
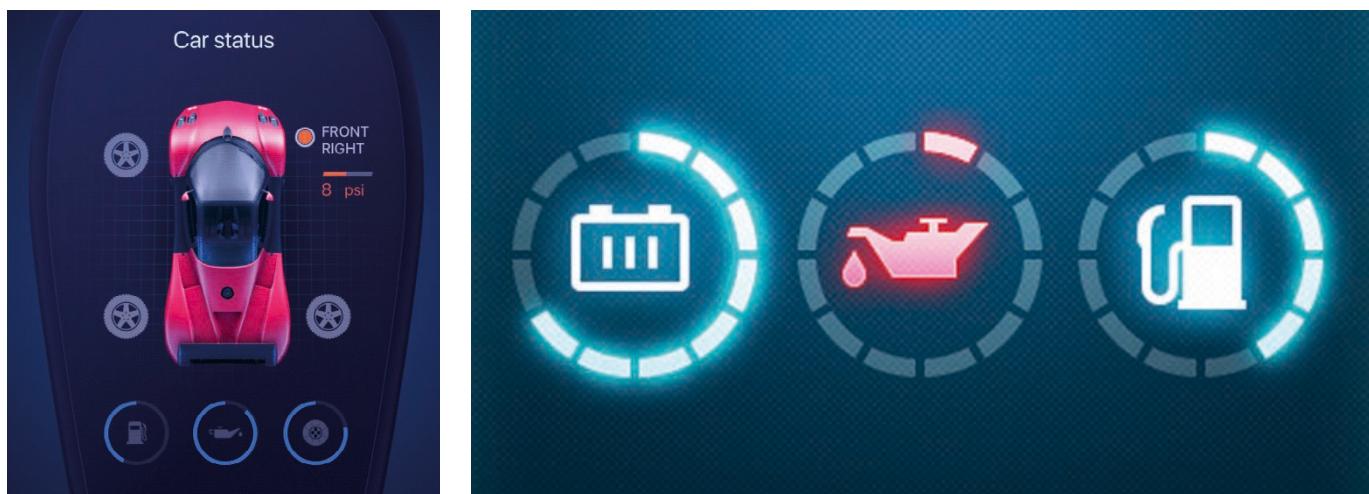
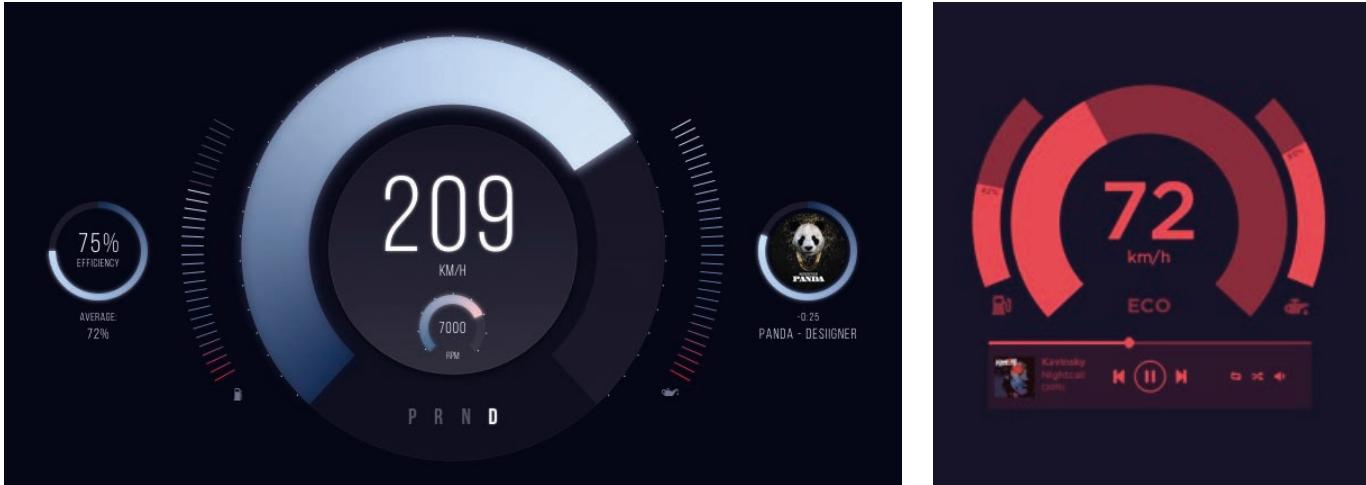
SOURCE – <https://www.pinterest.pt/designerys/car-cluster-design/>

ALERTS

3D

CHARGING MAPS

STATISTICS & INFO

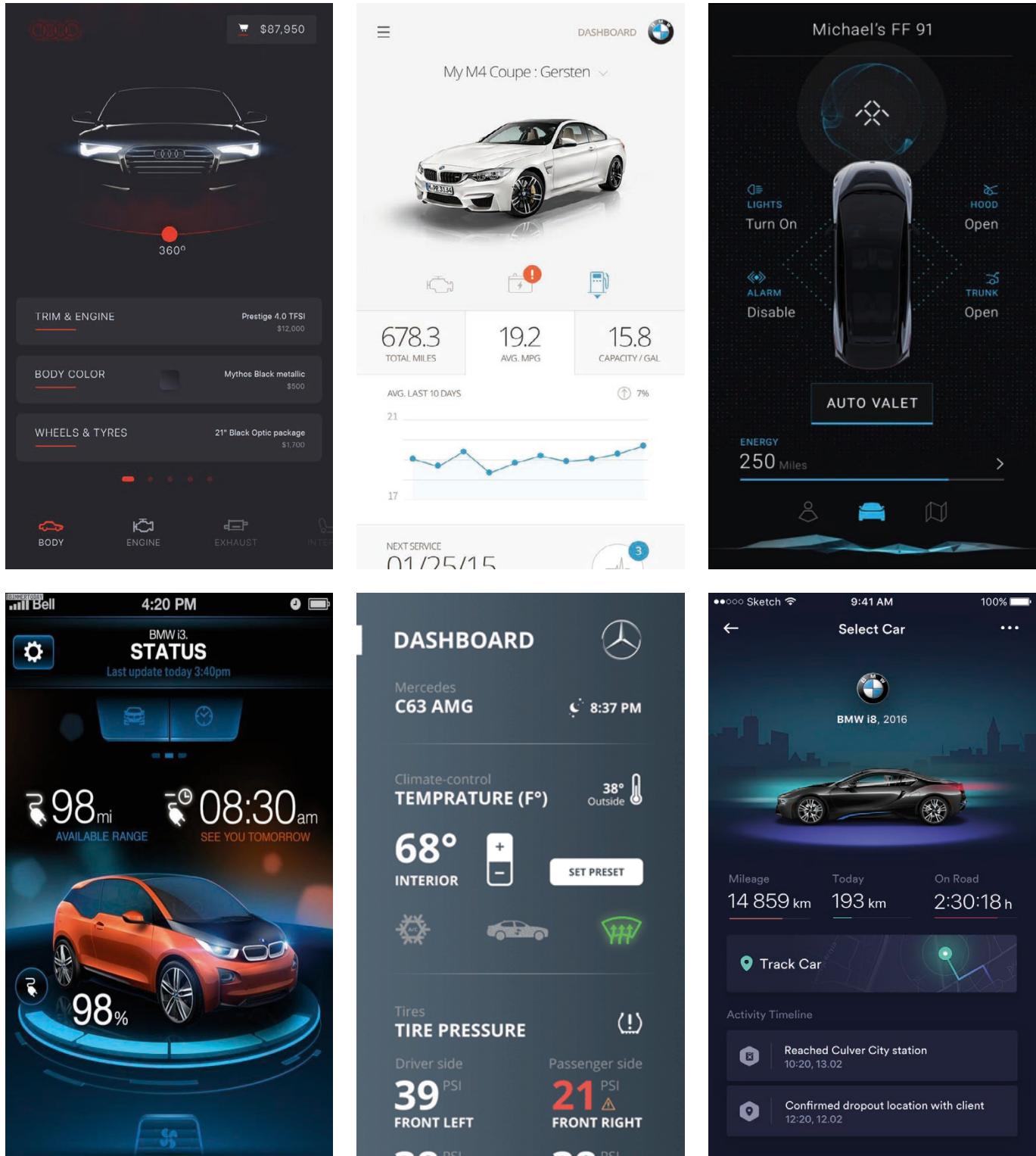


ICONS & INTERFACE ELEMENTS

Different ways to show the vehicle information with icons. The use of a cohesive colour palette is very important, to keep the driver aware of the group-functions he can see and control.

STATISTICS & INFO

SOURCE – A collection of images found on the previous sources.

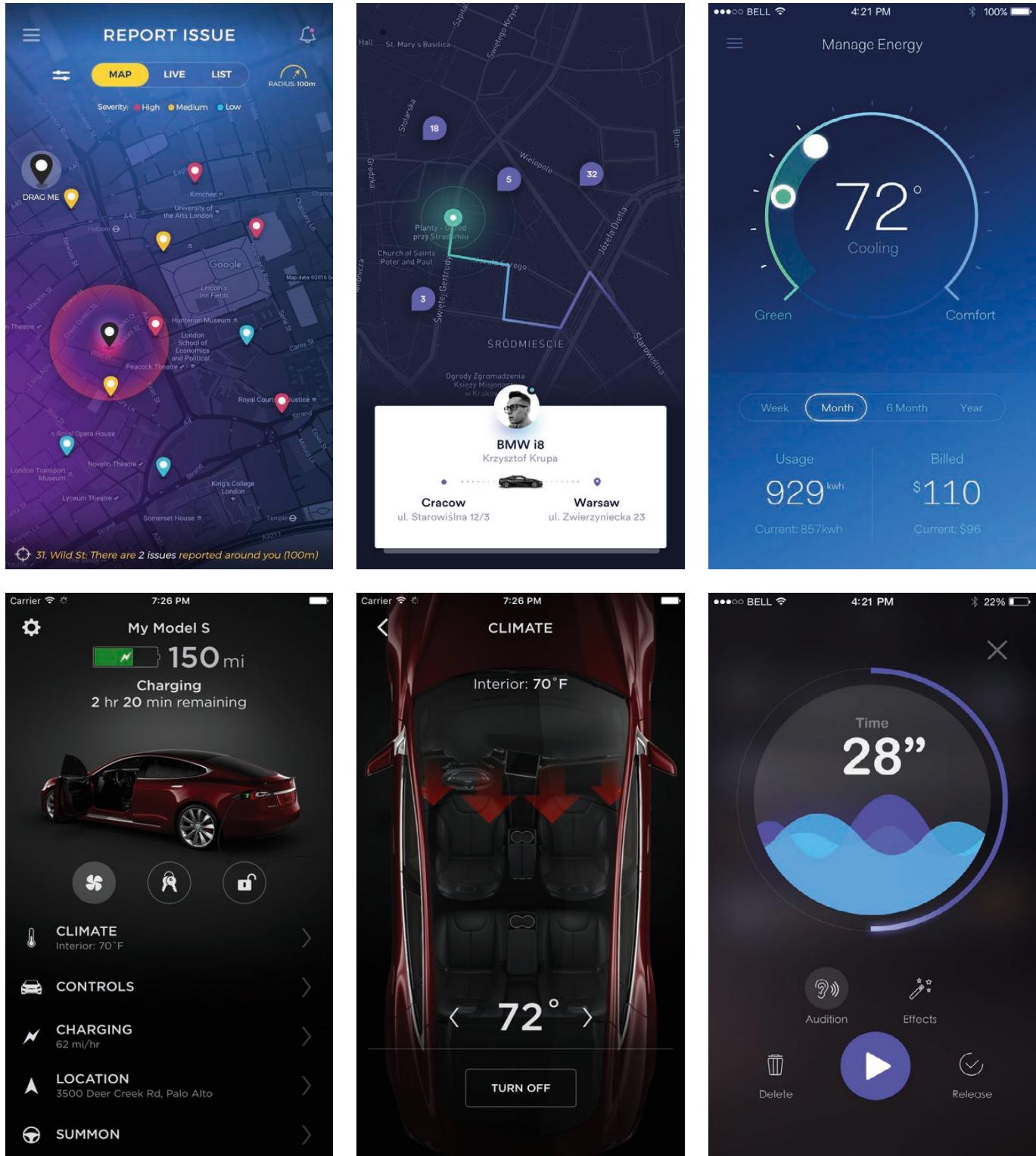


APPS DESIGN EXAMPLES – CAR DASHBOARD

We can see which functions and icons have been used, which kind of visual language, colors and some additional details. Note for the use of very realistic car model's image. These APPs are used by smartphones devices.

STATISTICS & INFO

SOURCE – A collection of images found on the previous sources.



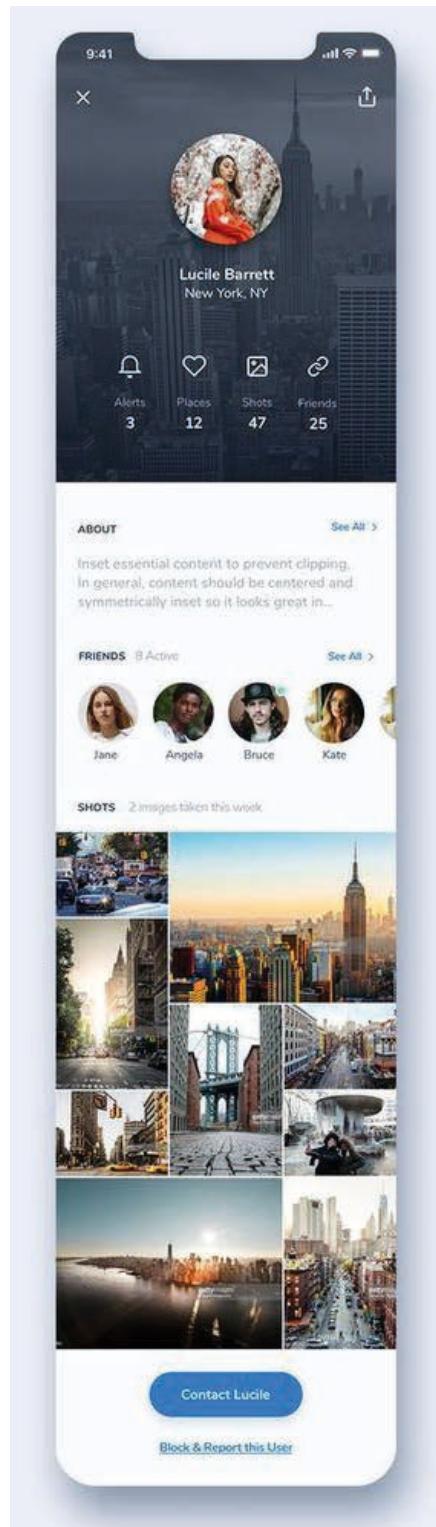
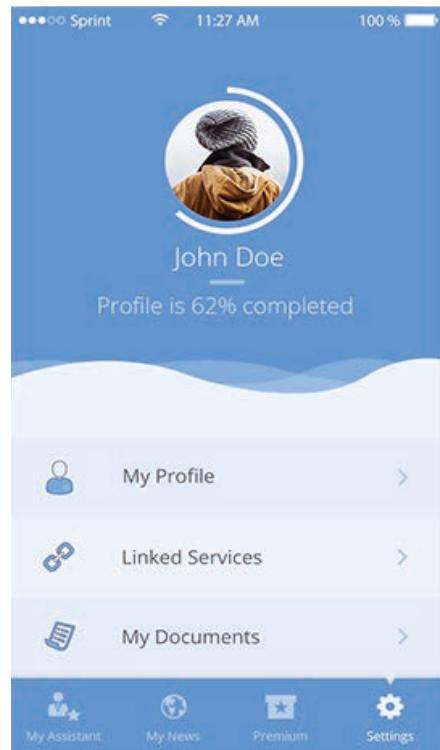
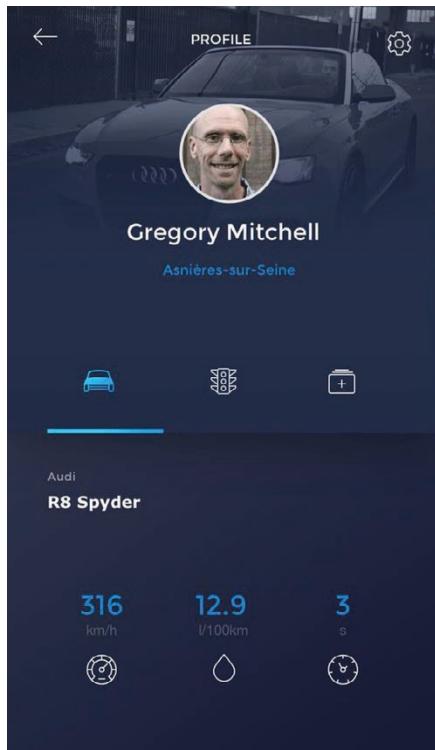
APPS DESIGN EXAMPLES – MISCELLANEOUS

Examples of maps used on the APPs with hotspots and points of interest.

MAPS

STATISTICS & INFO

SOURCE – A collection of images found on the previous sources.

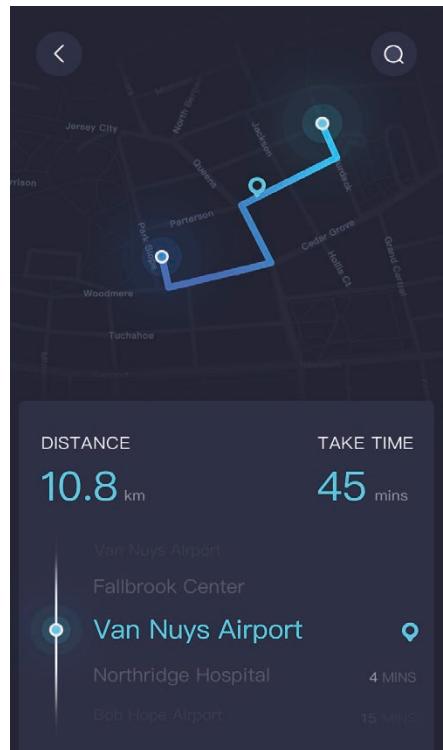


APP EXAMPLES – PROFILES & FRIENDS

The first image has a nice representation of a "Profile Page", with an overall view of the data from this user. The violet APP, on the bottom, shows a nice way how we could display "friends" on i.Triu APP.

SOURCE – <https://medium.muz.li/50-user-profile-page-design-inspiration-5c45aee0a400>

PROFILES **FRIENDS** **SOCIAL**
SHARING **INTERACTIVE**
PHOTO GALLERIES



APP EXAMPLES – GUIDED TOURS

Here are some examples and ideas for this feature: "Guided Tours" by i.Triu. This layout can also be used for the daily routes or to share a "Trip" with a friend or on social media / sites / personal blog.

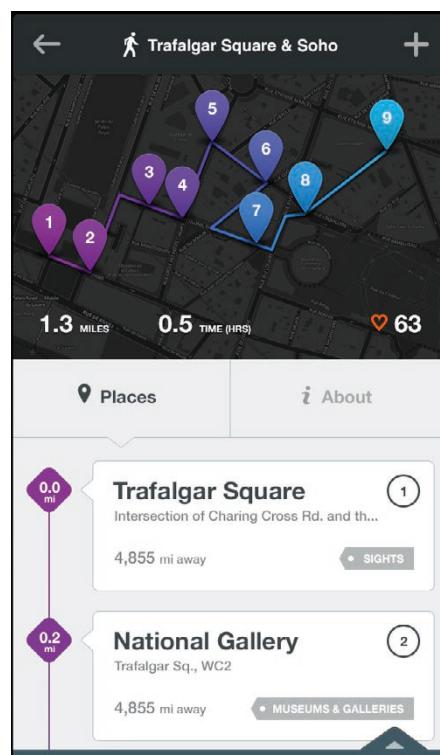
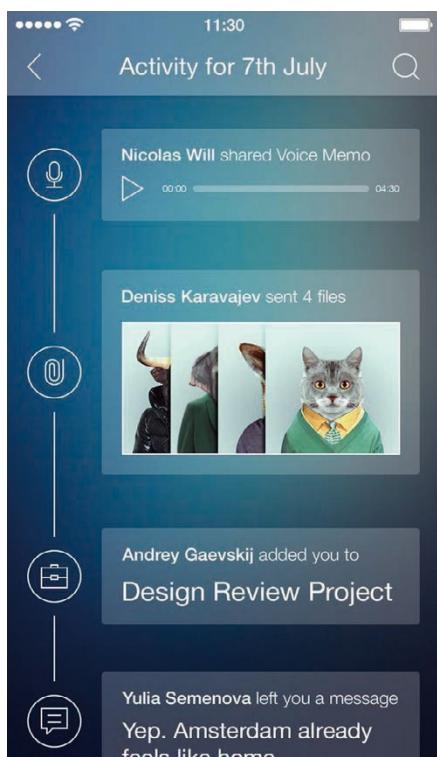
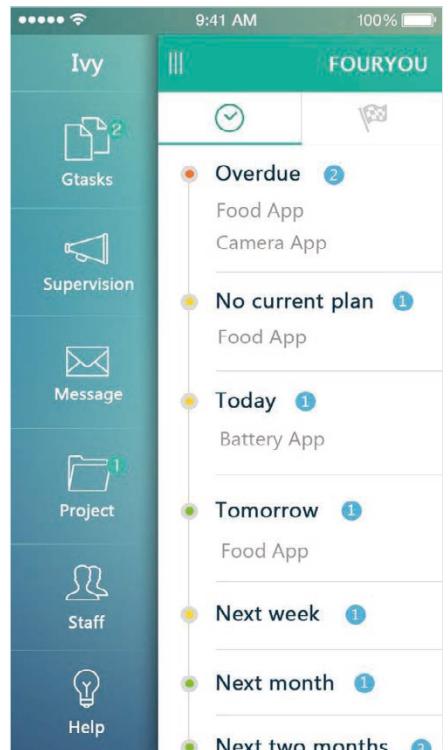
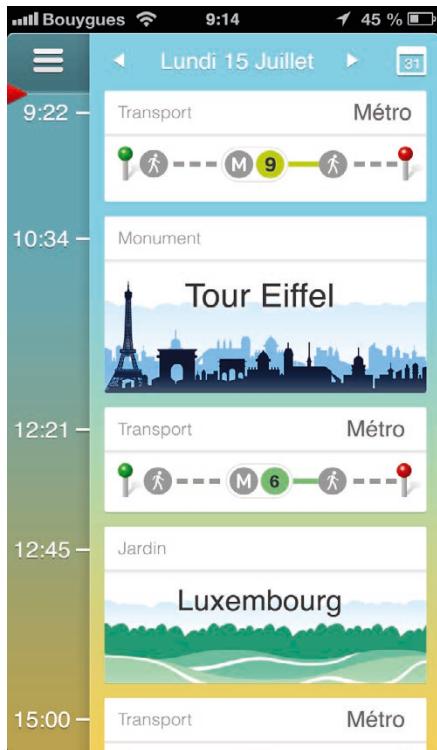
SOURCE – <https://www.pinterest.pt/pin/394698354817598228/>

NAVIGATION

MAPS

ROUTES

DISCOVER & TRAVEL

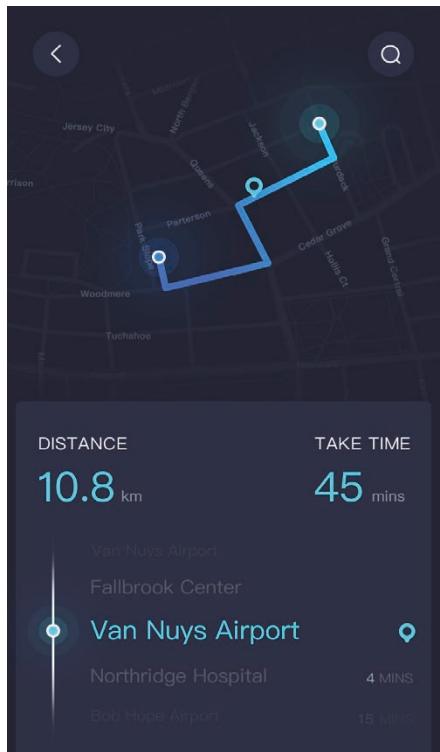
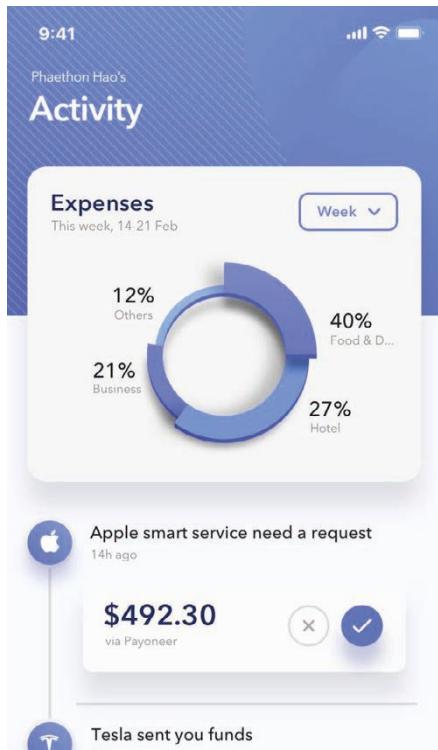


APP EXAMPLES – TOURS/DAILY TIMELINE

Here we can see some examples about the “timeline” feature. Is a very intuitive way to see past itineraries or even a guided tour. This way, we can very easily see and share our routes.

SOURCE – <https://www.pinterest.pt/pin/394698354817598228/>

INFO ROUTES
TIMELINE



INFOGRAPHICS WITH STATISTICS

Infographics are an interesting and modern way to show data, analytics and statistics. These colourful examples represent a very cool way to interpret the data collected on the i.Triu trips or routes.

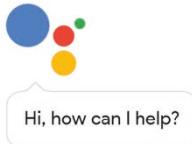
SOURCE – <https://www.pinterest.pt/pin/365776800963800594/?lp=true>

MINIMAL

CLEAN

INFOGRAPHICS

STATISTICS & INFO



Meet your Google Assistant.

GOOGLE ASSISTANT



DRAGON MOBILE ASSISTANT



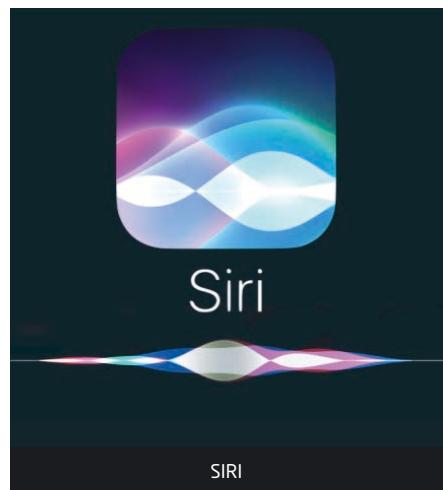
ROBIN



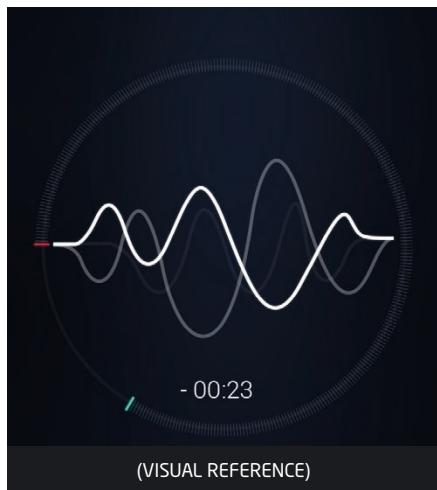
CORTANA



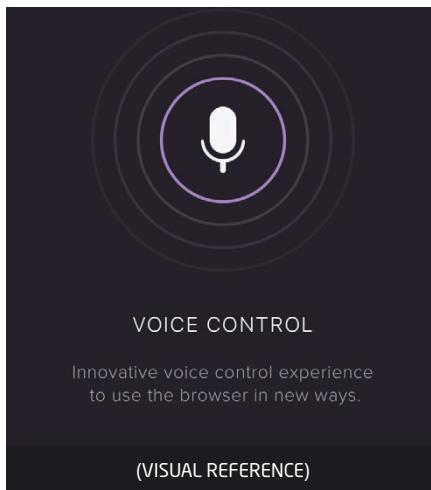
LYRA



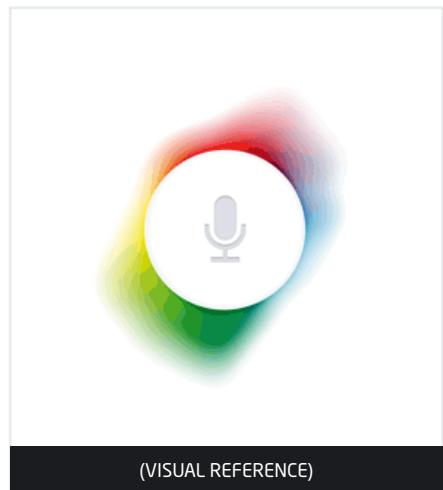
SIRI



(VISUAL REFERENCE)



(VISUAL REFERENCE)



(VISUAL REFERENCE)

VOICE ASSISTANT EXAMPLES

These voice assistants are very dynamic and is very impressive to see how they do react to the person's voice. They tend to be colourful.

SOURCE – <https://www.makeuseof.com/tag/7-siri-alternatives-android-google-now-cortana/>

MODERN MINIMAL

COLORFUL

INTERACTIVE



My Tamagotchi Forever

"My Tamagotchi Forever is an awesome AR game where you create, customize and optimize your Tamagotchi characters. One of the best features is that you can play Hide and Seek with your Tamagotchi friends within the real world. They will hide and you have to navigate and find them. The game would be better if you are familiar with the world of Tamagotchi characters. Considering all these, we think it deserves a good place in the list of AR games for Android."

FEATURES

If you enjoy geocaching or playing other location-based games, like Pokemon GO, Seek or Munzee, check out this Garfield game!



Garfield GO - AR Treasure Hunt

"We have another adventure-based AR game for you – Garfield GO - AR Treasure Hunt. In the first look, the game may seem quite funny, but it's not. When you start playing and exploring, you can win real prizes like gift cards and coupons. As you move along, Garfield GO - AR Treasure Hunt wants you to complete the comic collection too. The central character is Garfield, whom you have to keep excited for the adventure. It's one of the best AR games for sure."

AUGMENTED REALITY GAMES FOR KIDS

Here we can see two examples of the game industry are taking advantage of the features incorporated on smartphones and use them to build and "imaginary world" with augmented reality, extending the "real life".

SOURCE – <https://techwiser.com/best-ar-games-for-android/>

FAMILY & KIDS

FRIENDS

DISCOVER

LEARN

SHARE

FUNNY

INTERACTIVE

2 | FEATURES



360° CAMERA



WI-FI / SHARE CONNECTION



BLUETOOTH



GPS / GEOLOCATION



COMPASS & ELEVATION



FIND CAR / SHARE LOCATION



CHARGE ANYWHERE



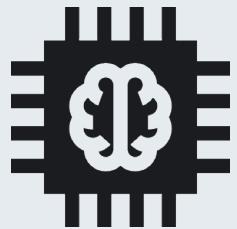
STATISTICS & FOLLOW-UP



EASY MAINTENANCE

MAIN FEATURES

ICONS' CREDIT – <https://flaticon.com/>



ARTIFICIAL INTELLIGENCE



RADARS & SENSORS



PERISCOPE



SMART LIGHTS



INFOTAINMENT SYSTEMS



ROBOTIC ARM



DRIVER ASSIST



DRIVER MONITORING



AUTOMOTIVE INSURANCE

MAIN FEATURES

ICONS' CREDIT – <https://flaticon.com/>



MEDIA CENTER



ACCESS TO YOUR CLOUD



INTERNAL STORAGE



360° VIDEOS & PHOTOS



ONLINE RADIO & SHARED MEDIA



HIGH QUALITY SOUND SYSTEM



ADD GADGETS



PLUG-IN ANY ELECTRIC OBJECT



SMART ENERGY EFFICIENCY

MAIN FEATURES

ICONS' CREDIT – <https://flaticon.com/>



AUTONOMOUS DRIVING



PARKING ASSISTANCE



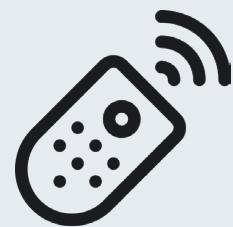
WINDSHIELD DISPLAYS



HYBRID TECHNOLOGY



A SMARTPHONE ON WHEELS



REMOTE CONTROL



ELECTRONIC BRAKE ASSIST



SMART FUEL SAVING TIPS



SELF-HEALING PAINT

MAIN FEATURES

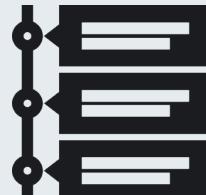
ICONS' CREDIT – <https://flaticon.com/>



SMART MAPS NAVIGATION



AUTO SEND ITINERARY TO E-MAIL



TIMELINES



ADD SPOT TO YOUR FAVORITES



ONLINE ACCESS TO YOUR ROUTES



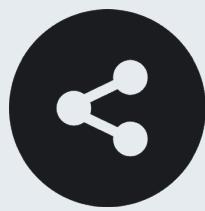
EASY TO TRANSPORT



GUIDED TOURS



MAKE A TOUR FROM A FRIEND



SHARE YOUR TOUR

FEATURES – DAILY ITINERARY / TOURS

ICONS' CREDIT – <https://flaticon.com/>

SOCIAL ENGAGEMENT

MAPS

TOURS

FRIENDLY



USER PROFILE



SHARE LOCATION WITH FRIENDS



BLUETOOTH



LEADER BOARDS



SPECIAL CONTESTS



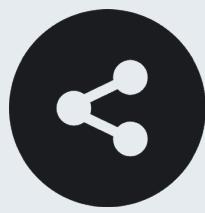
DRIVER OF THE WEEK/MONTH/YEAR



LIVE CHATS



TAG THE WORLD



SHARE PROFILE SETTINGS

FEATURES – SOCIAL MEDIA

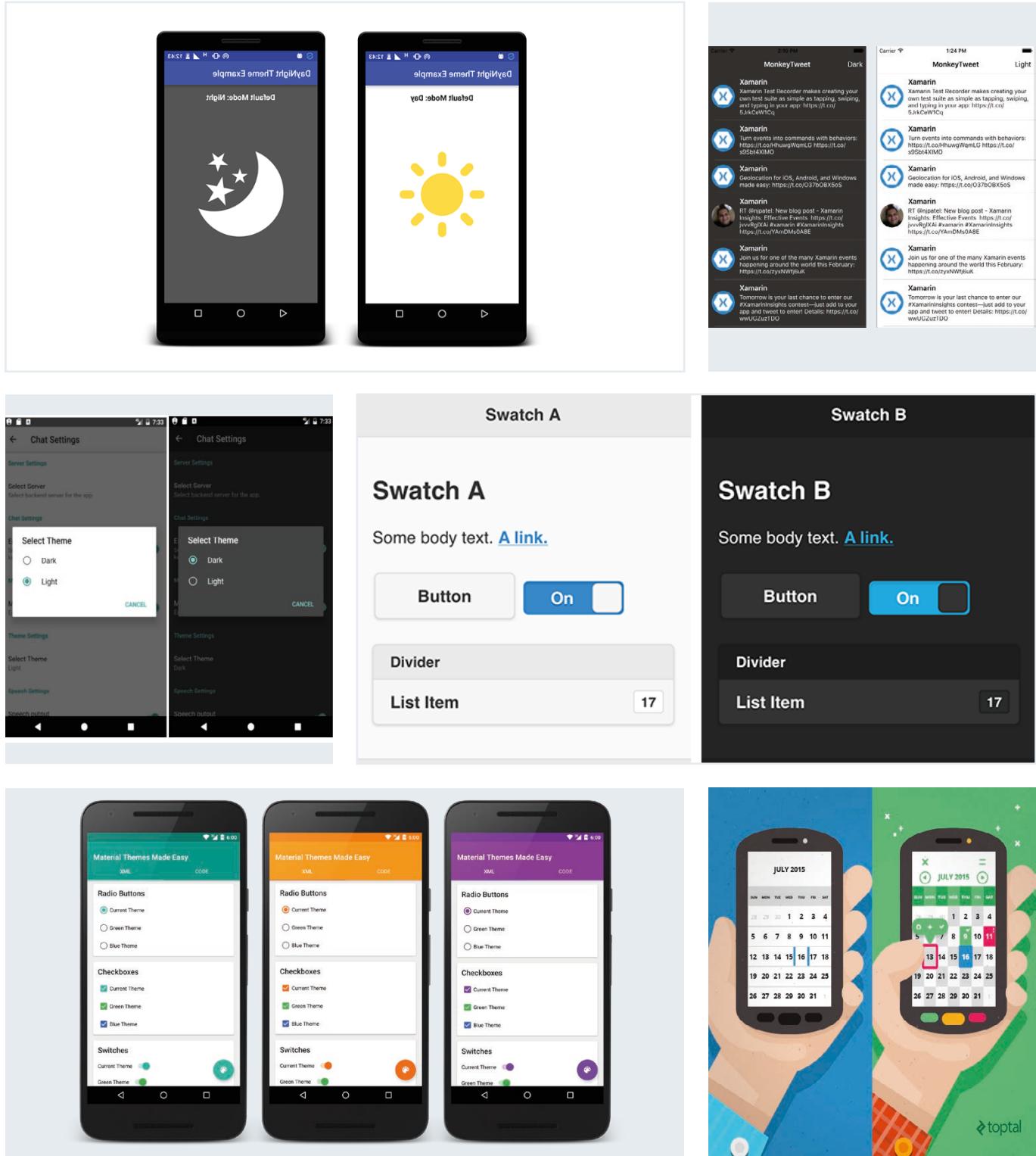
ICONS' CREDIT – <https://flaticon.com/>

SOCIAL ENGAGEMENT

FUNNY

GAMES

COMPETITION



ABILITY TO CHOOSE A THEME

This feature is one of the must-have features, as it really pleases the feel and mood of the user/driver with automatic updates of the interface, accordingly with the environment around or customised options setted up by the user/driver.

PERSONAL

CUSTOMISABLE

AUTOMATIC



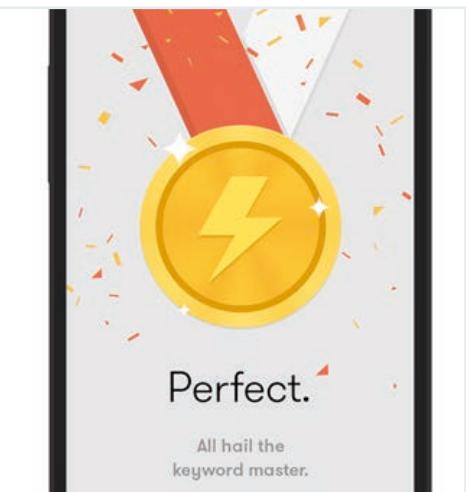
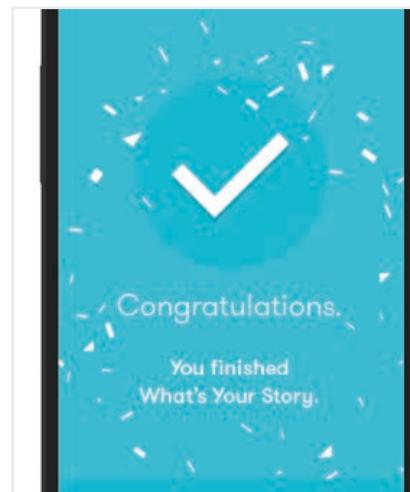
**100K SUBSCRIBERS
SILVER CREATOR AWARD**



**1 MILLION SUBSCRIBERS
GOLD CREATOR AWARD**



**10 MILLION SUBSCRIBERS
DIAMOND CREATOR AWARD**



I.TRIU AWARDS & BADGES

YouTube is a great example how awards and prizes can be used. If you reach at least 100K subscribers, you get an award. I.TRIU could also show a special badge on the user profile photo for: "Driver of the Day", "Driver of the Month" & "Driver of the Year".

SOURCE – <https://www.youtube.com/intl/en-GB/creators/awards/>

SOCIAL CONTESTS

SOCIAL ENGAGEMENT

3 | GADGETS



PLUG-IN ANY ELECTRIC OBJECT



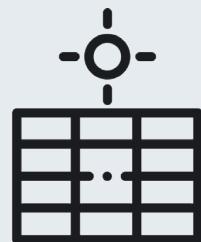
MEDIA CENTER



COMPASS & ELEVATION



MAKE A TOUR FROM A FRIEND



SOLAR CHARGER

GADGETS – “CAMPING EXTENSION”

CAR-TENT SOURCE – <http://knowhow.napaonline.com/how-to-turn-your-car-into-a-tent-no-pitching-needed/>

SOLAR CHARGER SOURCE – <https://www.beyondthetent.com/guide-to-portable-power-for-camping/>

ICONS' CREDIT – <https://flaticon.com/>

LIFESTYLE

NATURE

SHARING

DISCOVER & TRAVEL



REACTING TO SOUND LED LIGHTS



WI-FI VIDEO PROJECTOR



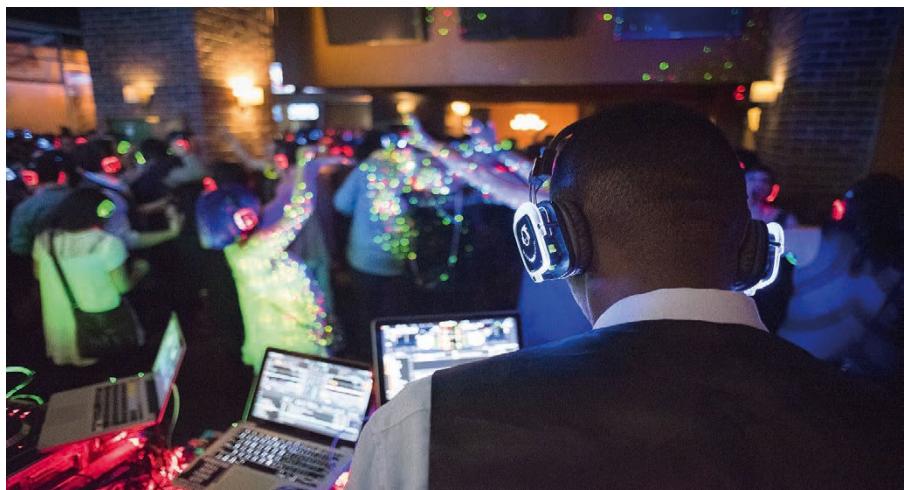
360° VIDEO STREAM



DJ SETUP



BLUETOOTH SPEAKERS CONNECTED



GADGETS – “PARTY MODE”

LIGHT SOURCE – https://articulo.mercadolibre.com.mx/MLM-615325829-car-disco-lightmeegoal-usb-portable-party-lights-sound-acti-_JM

DJ SOURCE – https://en.wikipedia.org/wiki/Silent_disco

ICONS' CREDIT – <https://flaticon.com/>

MULTIMEDIA

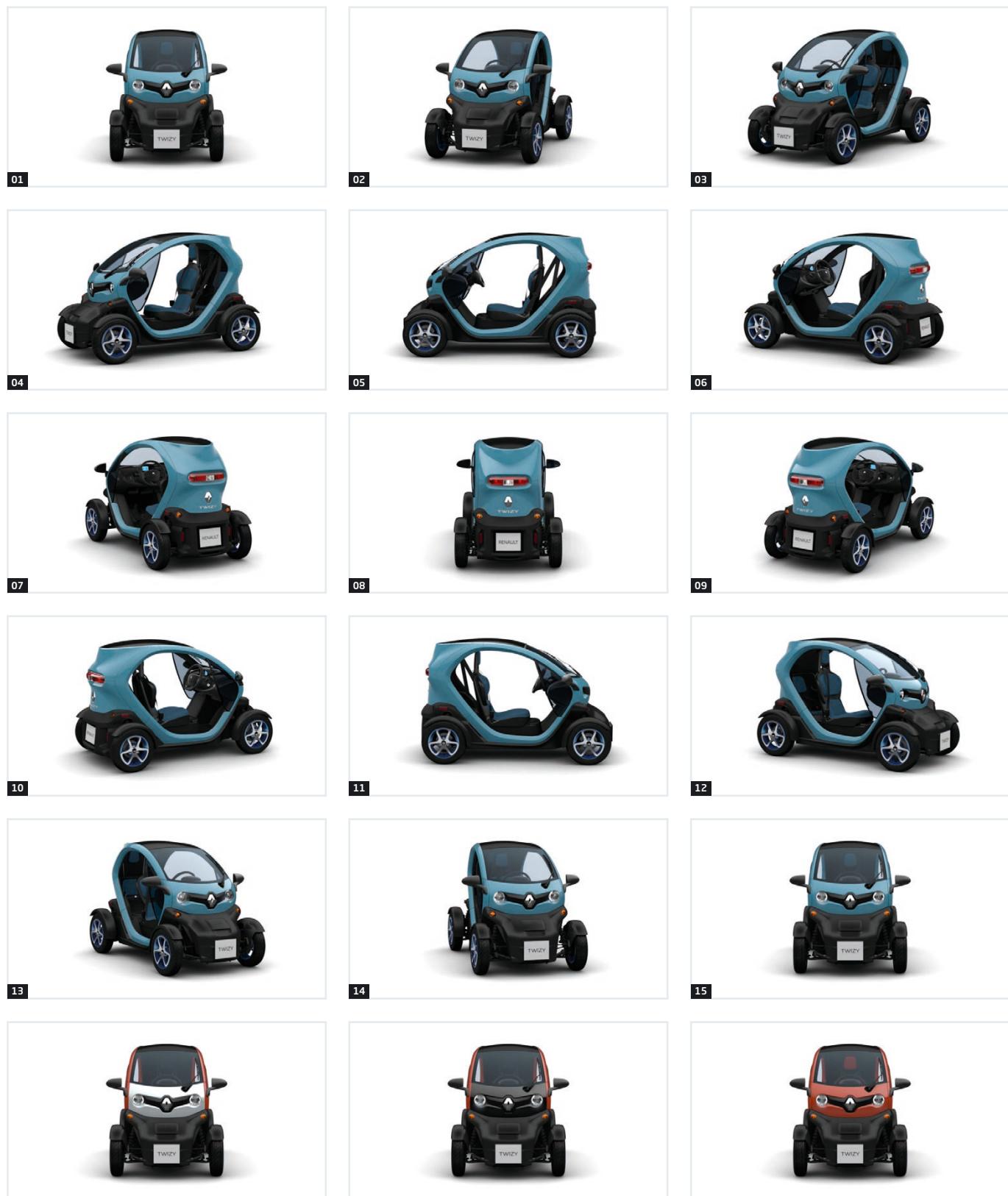
FRIENDS

SHARING

INTERACTIVE



**STORYTELLING
& 360°/VR**



TWIZY 360° (EXTERIOR VIEW) – CUSTOMISE COLOURS IN 360/VR

SOURCE – <https://www.renault.co.uk/vehicles/new-vehicles/twizy.html>

1/2

INTERACTIVE

360° ROTATION



TWIZY 360° (INTERIOR VIEW) – "SELF-VIEW" OF INTERIOR COLOURS IN 360/VR

2/2

SOURCE – <https://www.renault.co.uk/vehicles/new-vehicles/twizy.html>

360° VIEW

VIRTUAL REALITY



STORYTELLING EXAMPLES – “TWIZY, THE ENTERTAINMENT CAR”

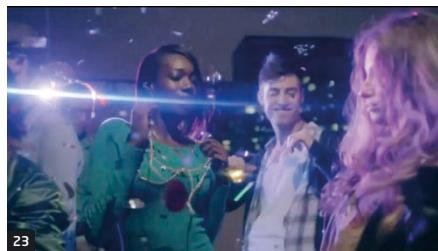
SOURCE – <https://youtu.be/xzovoBv9KkQ>

1/2

PARTY

LIGHTS

DJ/SOUND



STORYTELLING EXAMPLES – “TWIZY, THE ENTERTAINMENT CAR”

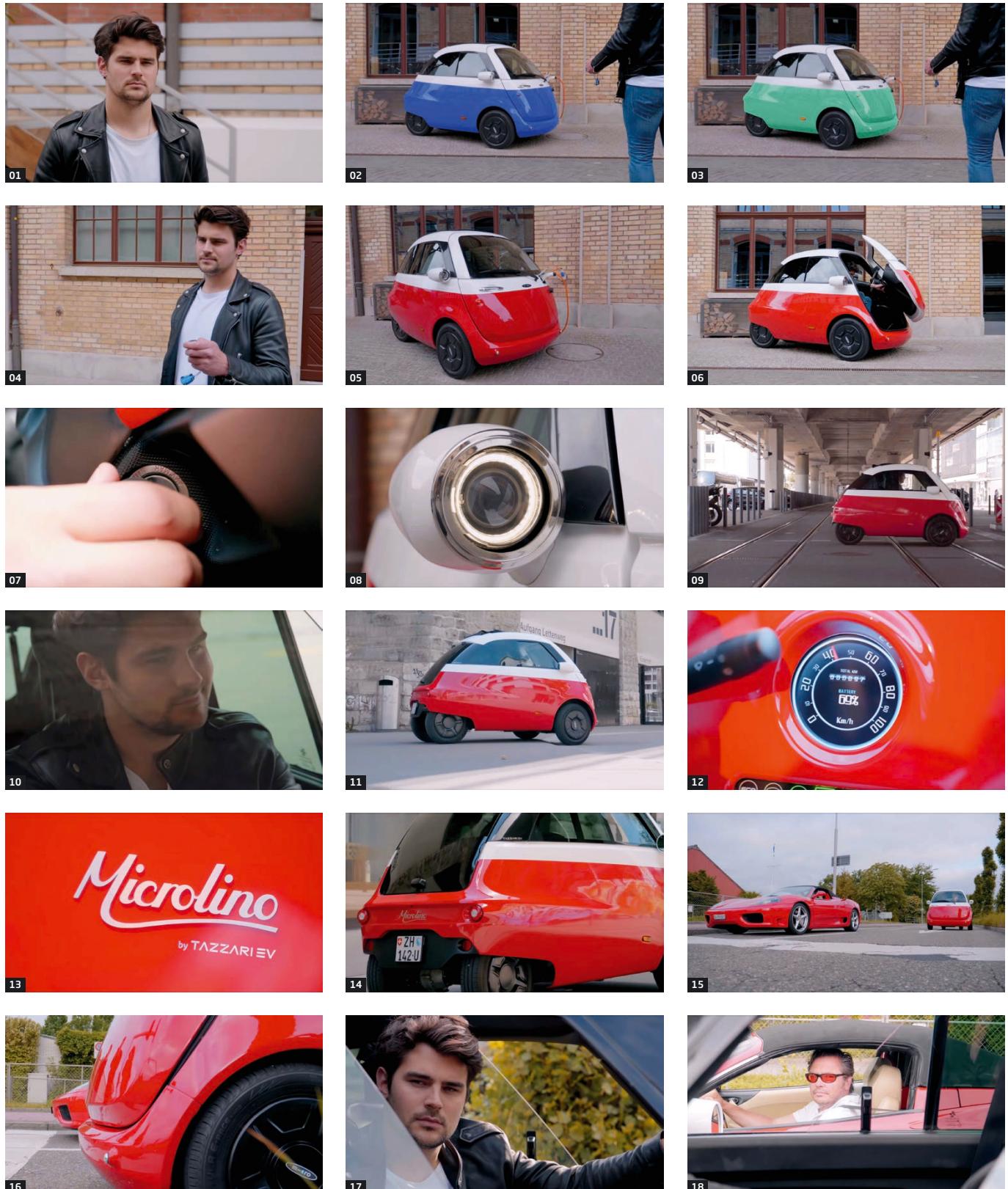
SOURCE – <https://youtu.be/xzovoBv9KkQ>

2/2

FRIENDS

SOCIAL

SHARING



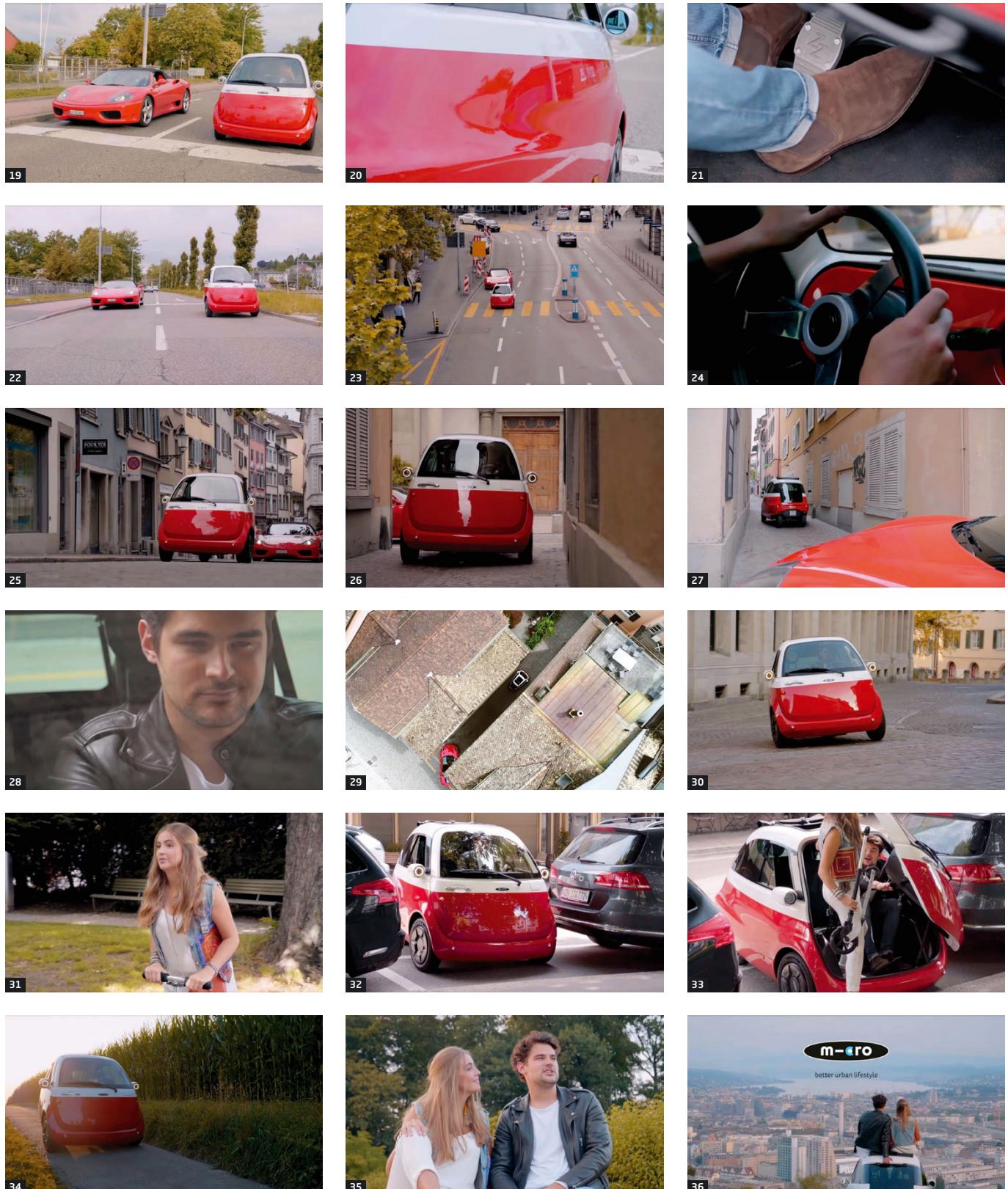
STORYTELLING EXAMPLES – “MICROLINO | THIS IS NOT A CAR!”

SOURCE – <https://youtu.be/-n-pzXefQW8>

1/2

VINTAGE

LOVE STORY



STORYTELLING EXAMPLES – “MICROLINO | THIS IS NOT A CAR!”

SOURCE – <https://youtu.be/-n-pzXefQW8>

2/2

RURAL & URBAN

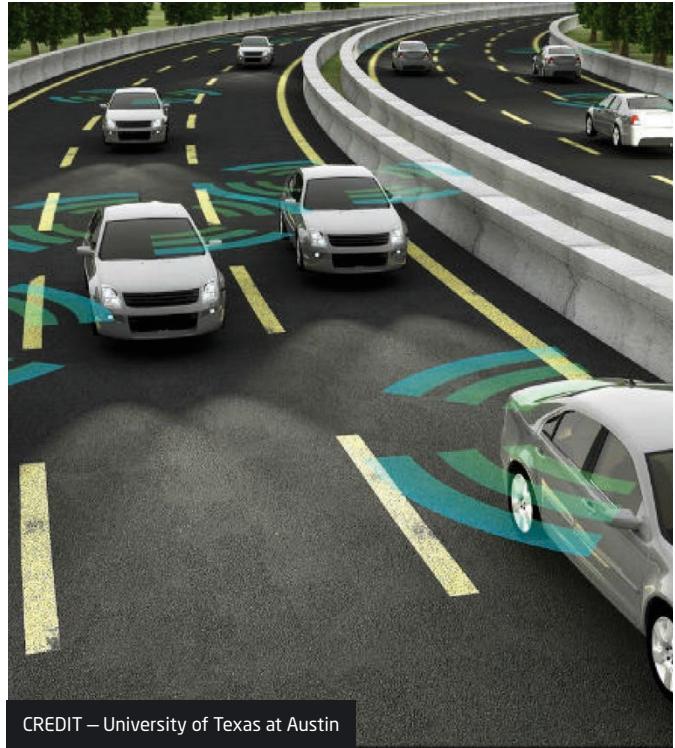
5



ON THE FUTURE



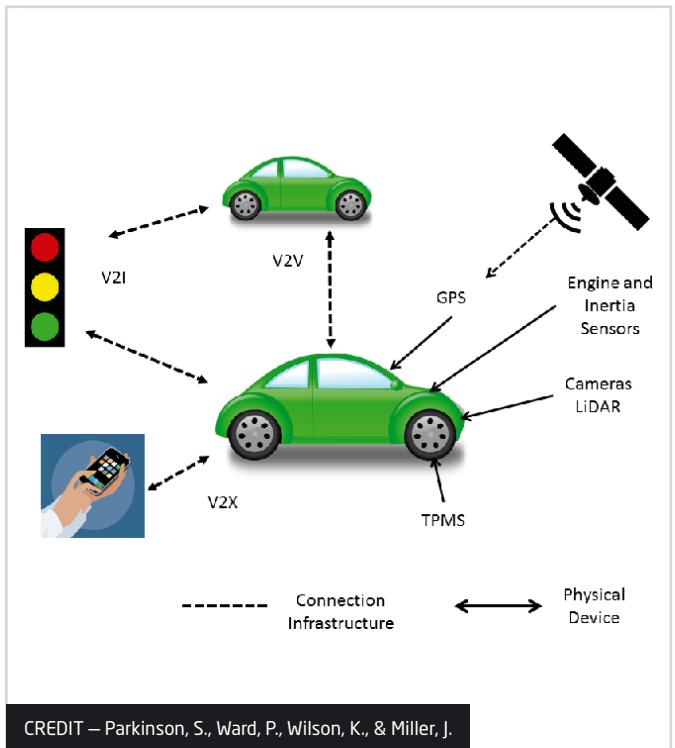
CREDIT – Roland Berger



CREDIT – University of Texas at Austin



CREDIT – Leddertech



CREDIT – Parkinson, S., Ward, P., Wilson, K., & Miller, J.

AUTONOMOUS CARS

"A self-driving car, also known as a robot car, autonomous car, or driverless car, is a vehicle that is capable of sensing its environment and moving with little or no human input."

SOURCE – https://en.wikipedia.org/wiki/Self-driving_car





The future of mobility – Smart vision

A concept for the year 2030. "Take a first look at the smart vision EQ fortwo. Our new concept car shows our vision of urban mobility: Fully autonomic, fully electric and fully shared."

FUTURISTIC

SHARED

ELECTRIC

AUTONOMIC

SOURCE – https://www.youtube.com/watch?v=4Afk82PW_Y4



POP UP AIRBUS

"The Pop.Up vehicle combines the flexibility of a small two seater ground vehicle with the freedom and speed of a vertical take-off and landing (VTOL) air vehicle, thus bridging the automotive and aerospace domains."

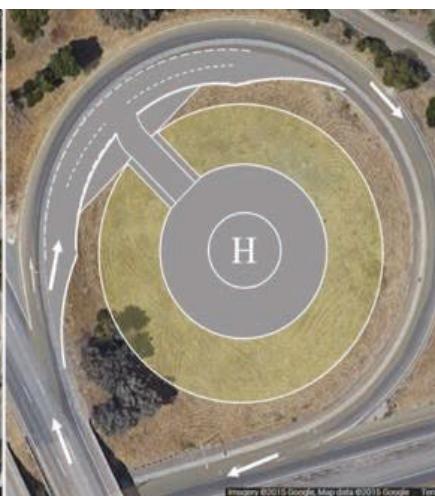
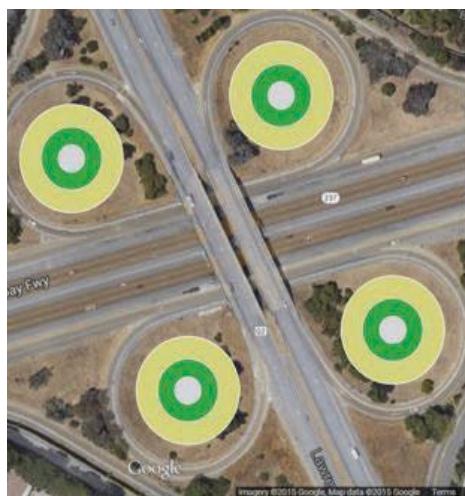
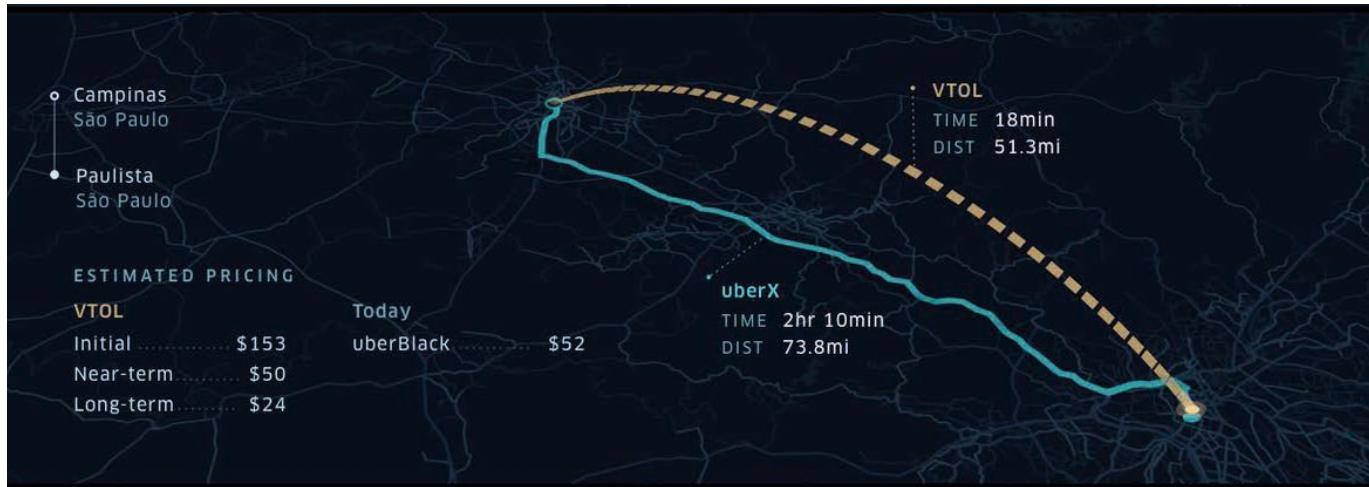
SOURCE – <https://www.italdesign.it/project/popup/>

FUTURISTIC

MODULAR

ELECTRIC

INNOVATIVE



UBER ELEVATE

"Imagine traveling from San Francisco's Marina to work in downtown San Jose—a drive that would normally occupy the better part of two hours—in only 15 minutes. What if you could save nearly four hours round-trip between São Paulo's city center and the suburbs in Campinas?"

FUTURISTIC

ON AIR

ELECTRIC

INNOVATIVE

SOURCE – <https://www.uber.com/elevate.pdf>

END

THANKS FOR WATCHING

DOCUMENT WRITTEN ON 18-12-2018