

David Twohig BYTON Chief Vehicle Engineer

Developing the next generation smart device

Over a century ago in Detroit

- The Detroit Auto Show started in 1899, and by 1910 it had become a major event, although many members of the public remained skeptical of the long-term viability of the automobile.
- This uncertainly was in opposition to the strong inventive spirit that kindled this new industry. In fact, by 1910, there were well over a hundred US manufacturers with several key options for vehicle powertrains.



Three kinds of vehicle powertrains



Gasoline

1910 Ford Model T



Steam

1910 White steam car

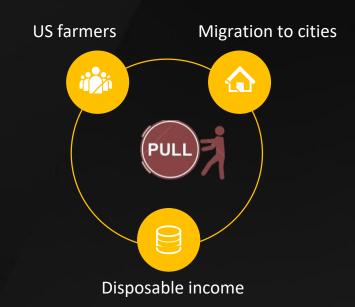


Electric

Columbia Mark 68 electric car

Automotive Push/Pull factors: US in 1910

Metallurgy Internal combustion engine **Production line**

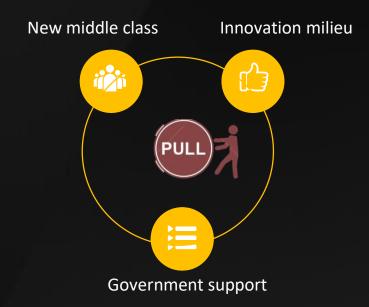


Automotive Push/Pull factors: China in 2018

Sensor technology Increased connectivity

PUSH

Increase in compute power



EVs revolutionize the auto industry

Facts



A large number of NEV players have sprung up, including brand new EV startups and traditional OEMs actively entering the NEV field



The NEV market share is still low (2.1% in 2017), leaving broad space for development



The intelligent and connected car has become a global trend



By 2020, NEV production and sales are expected to ramp up to 2 million, with a market share of 10%



By 2020, China aims to have several NEV companies crack the world top 10

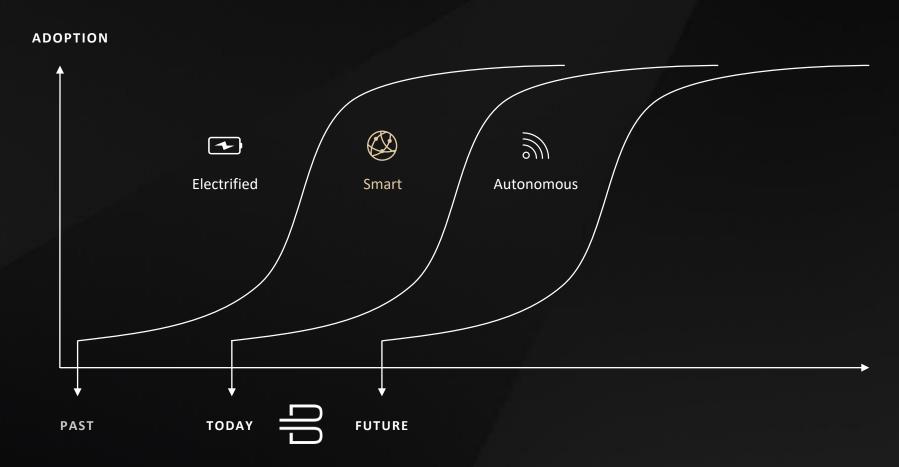


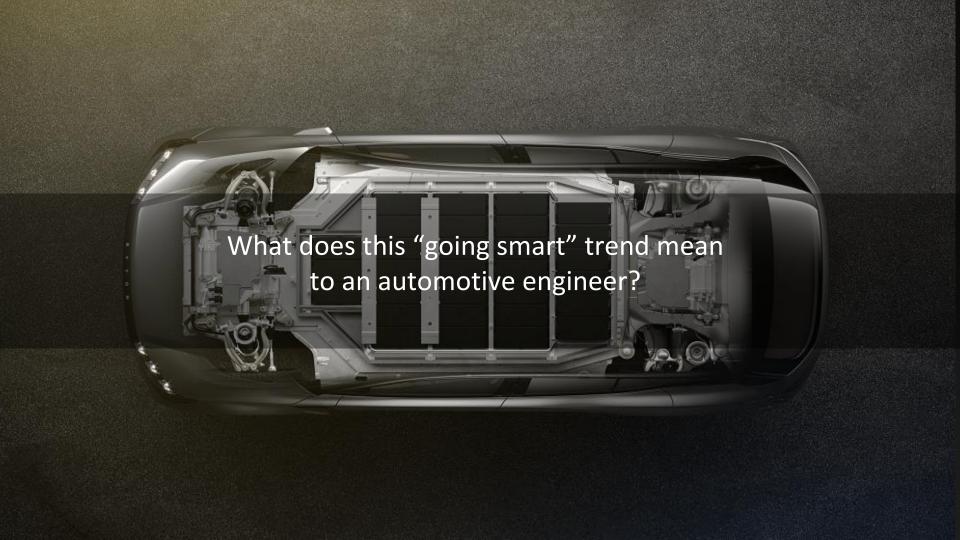
By 2025, intelligent and connected vehicles are expected to have dominating market share





Three phases of future mobility





New design semantics visualizes the digital power

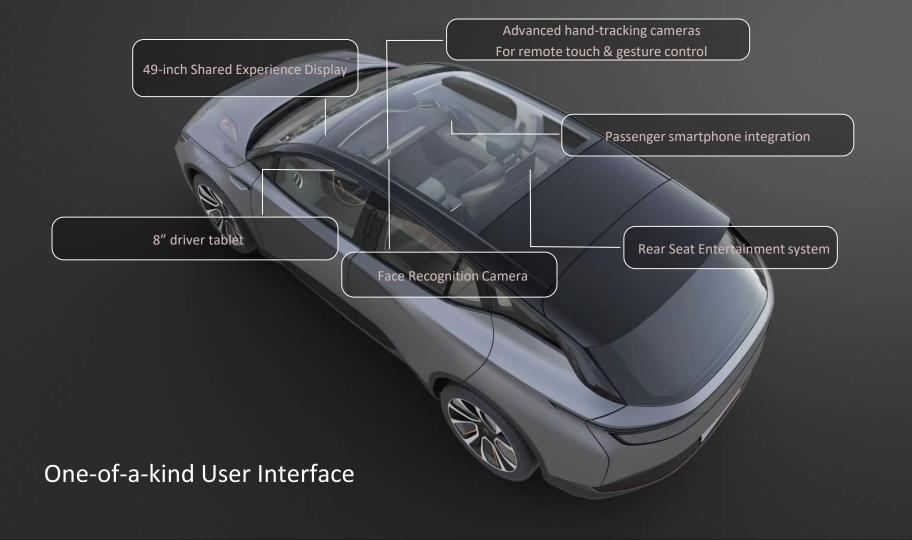
BYTON Smart Surfaces



BYTON LiBow

BYTON LiGuards







Driver Tablet

High-res display
Hard buttons on side
Integrated airbag

Shared Experience Display

1.25m coast-to-coast high-res display
Shared between multiple users
Sharing mobile device contents

Gesture & Voice Control

BYTON Air Touch Sensor

Al backend digital assistant

Natural speech recognition and
emulation

Smartphone

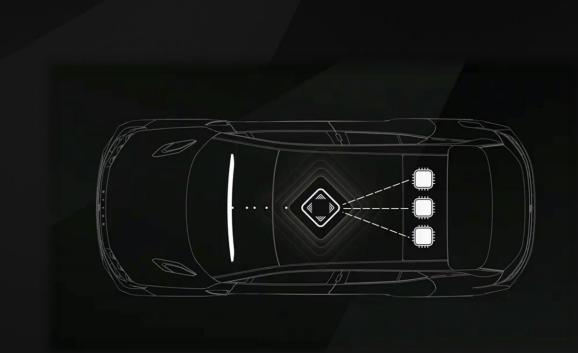
Passenger smartphone integration





Advanced Connectivity

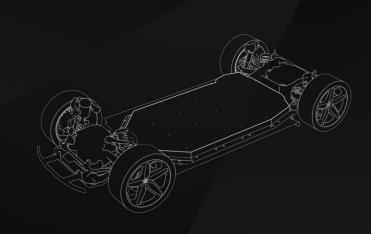
- Best high-speed connectivity
- 5G ready
- Multiple antenna system
- Simultaneous connectivity





Powertrain and Battery

1	BASE MODEL	HIGH VARIANT
Range	400 km	520 km
Battery capacity	71 kWh	95 kWh
Performance	200 kW / 272 hp	350 kW / 476 hp



BYTON Smart EV Platform

- Scalable architecture
- Adjustable wheelbases
- Multiple body types



From Driver-focused to User-focused

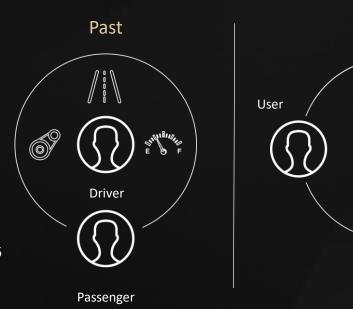
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User



- "I Drive"
- Global average occupancy 1.6
- Driver-focused behavior
- Response prioritized

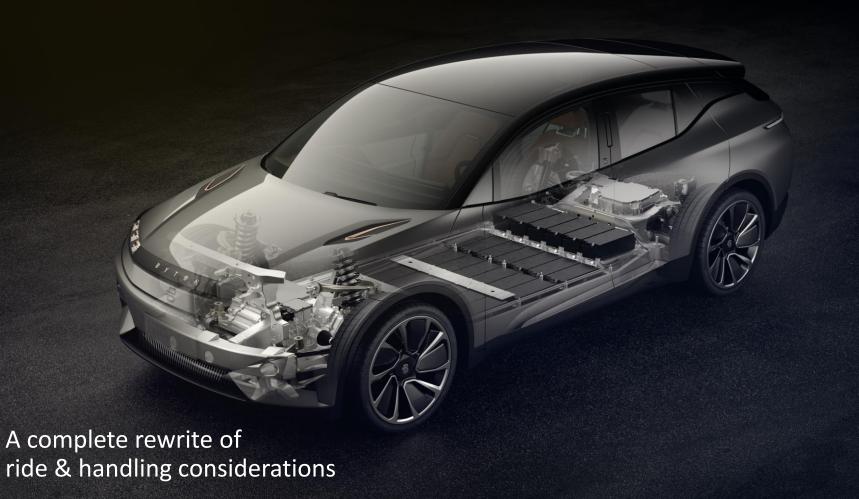
"Digital Chauffeur"

- Occupant-focused behavior
- Comfort prioritized

User









Placeholder for additional ride & handling slide

BYTON

Thank You!