

New mobility issues Are we ready for the future?

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What role does Swiss Re play in the new mobility era?

We rise to drive the transition to new mobility trends

We aim to pioneer new insurance coverages to back up progress with our industry partners

We aspire to quantify the impact of mobility trends on risk

We want to make the world more resilient, by increasing road safety.

Mobility is changing rapidly

It is a decisive moment for insurers to stay relevant in the motor business.
Swiss Re's research reveals a number of challenges



Motor market is
growing rapidly



Mobility is getting
more complex



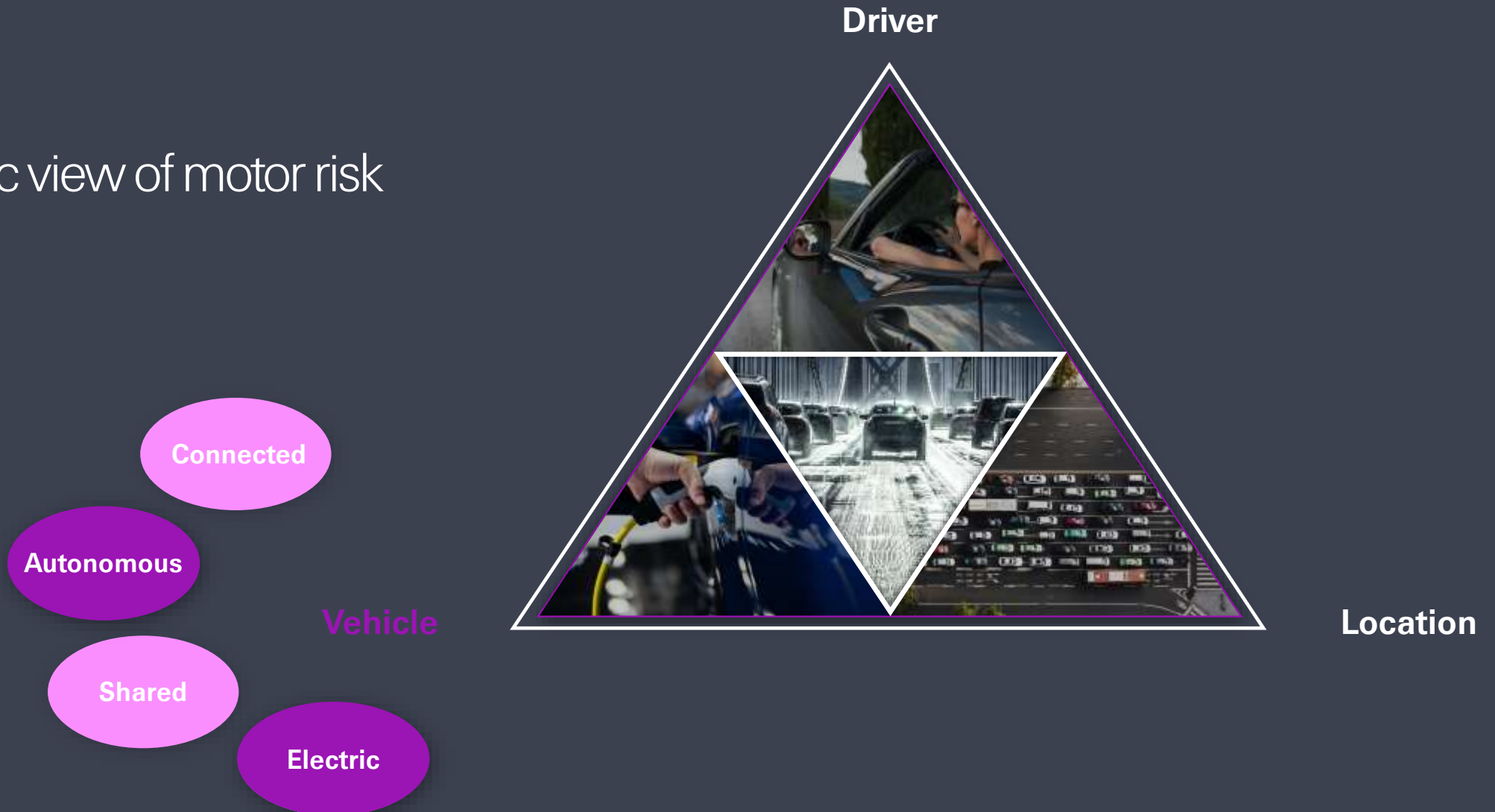
Abundance of new
data sources

C A S E

Overarching mobility
trends are driving change

What does ready mean for insurers?

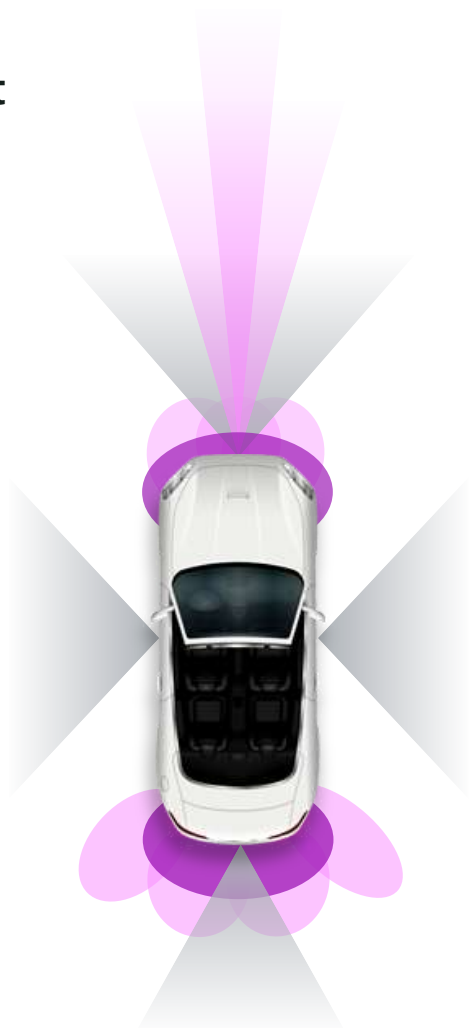
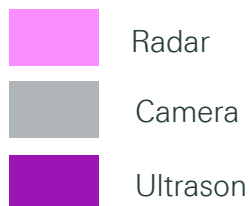
Holistic view of motor risk



Ready for Advanced Driver Assistance Systems

1/3rd of new cars are sold with ADAS – by 2030 half of the car park will have ADAS features

Complex Product Architecture



Heterogenous Functions

Parking

Braking

Speed Control

Lane Keep

Light



What ADAS features are fitted into the vehicle?



How effective are those particular ADAS features?



How does the driver **use** these ADAS features?

ADAS has a real impact on safety...

Swiss Re ADAS Risk Score: example of a Peugeot 308, 2021 : Allure vs Allure Business

Swiss Re ADAS Risk Score

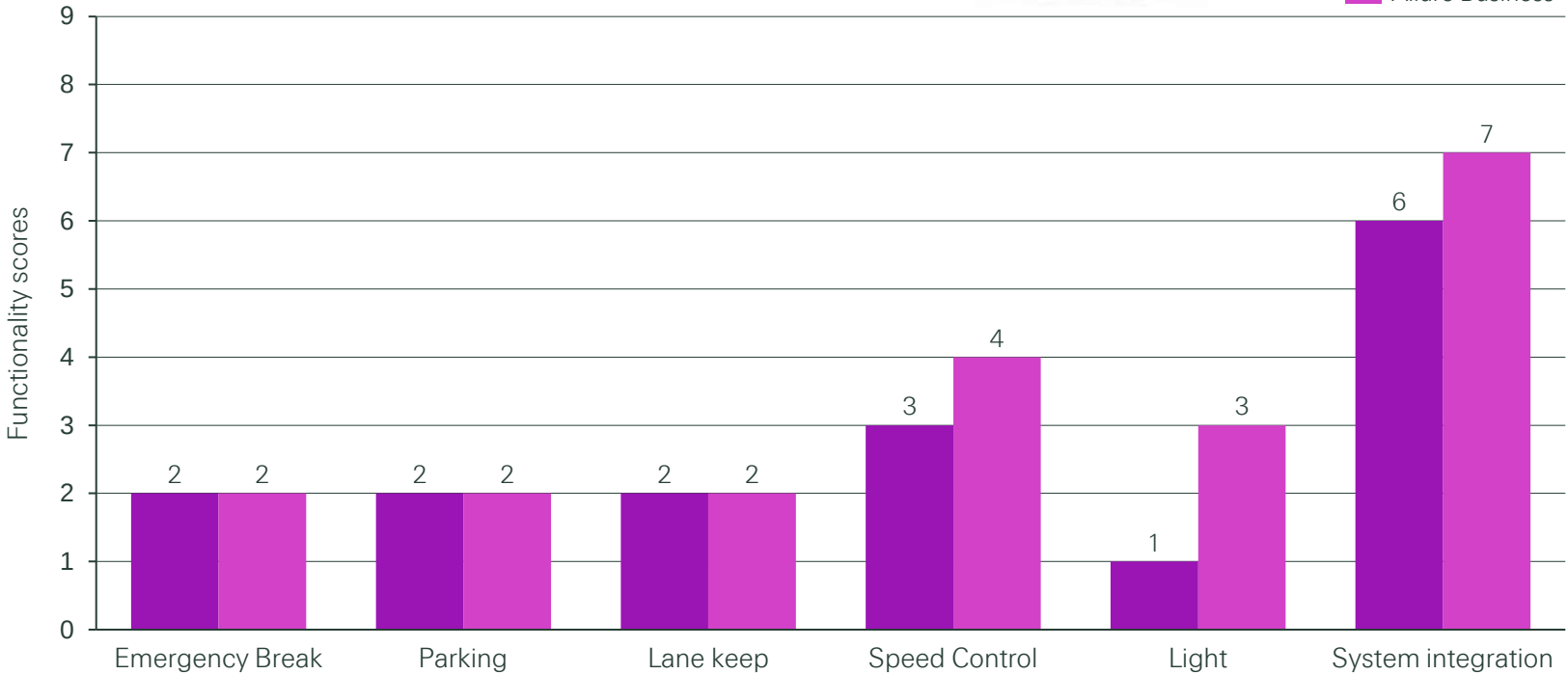
*Translating technology
into actuarial science*



insights into the
presence of a feature on
the vehicle AND their
engineering
performance in
preventing accidents



Allure
Allure Business

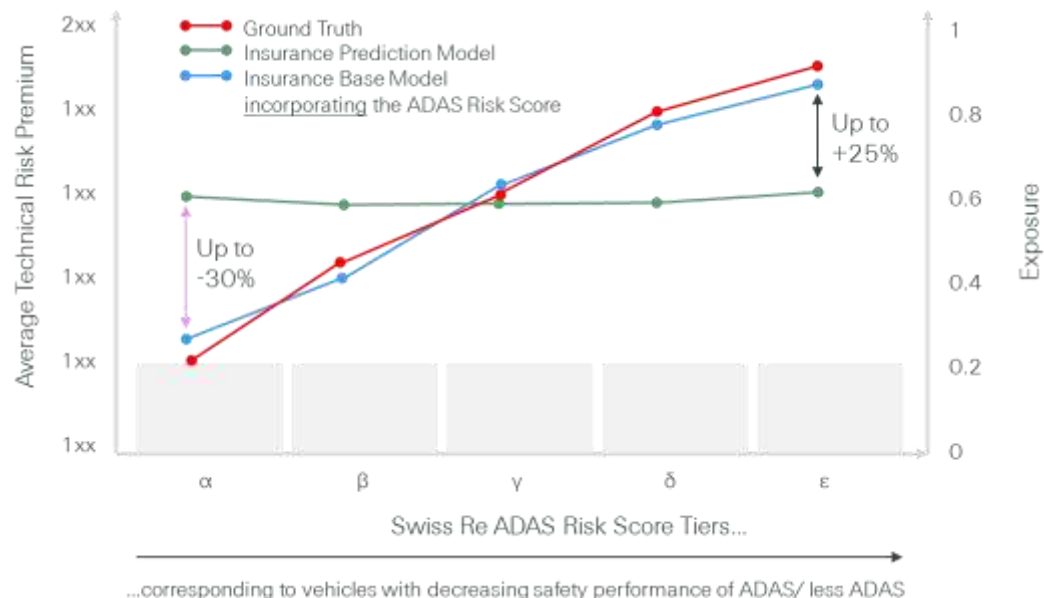


... and its effects need to be reflected in risk models

Insurance base models either underestimate or overestimate the vehicles capability to prevent accidents.



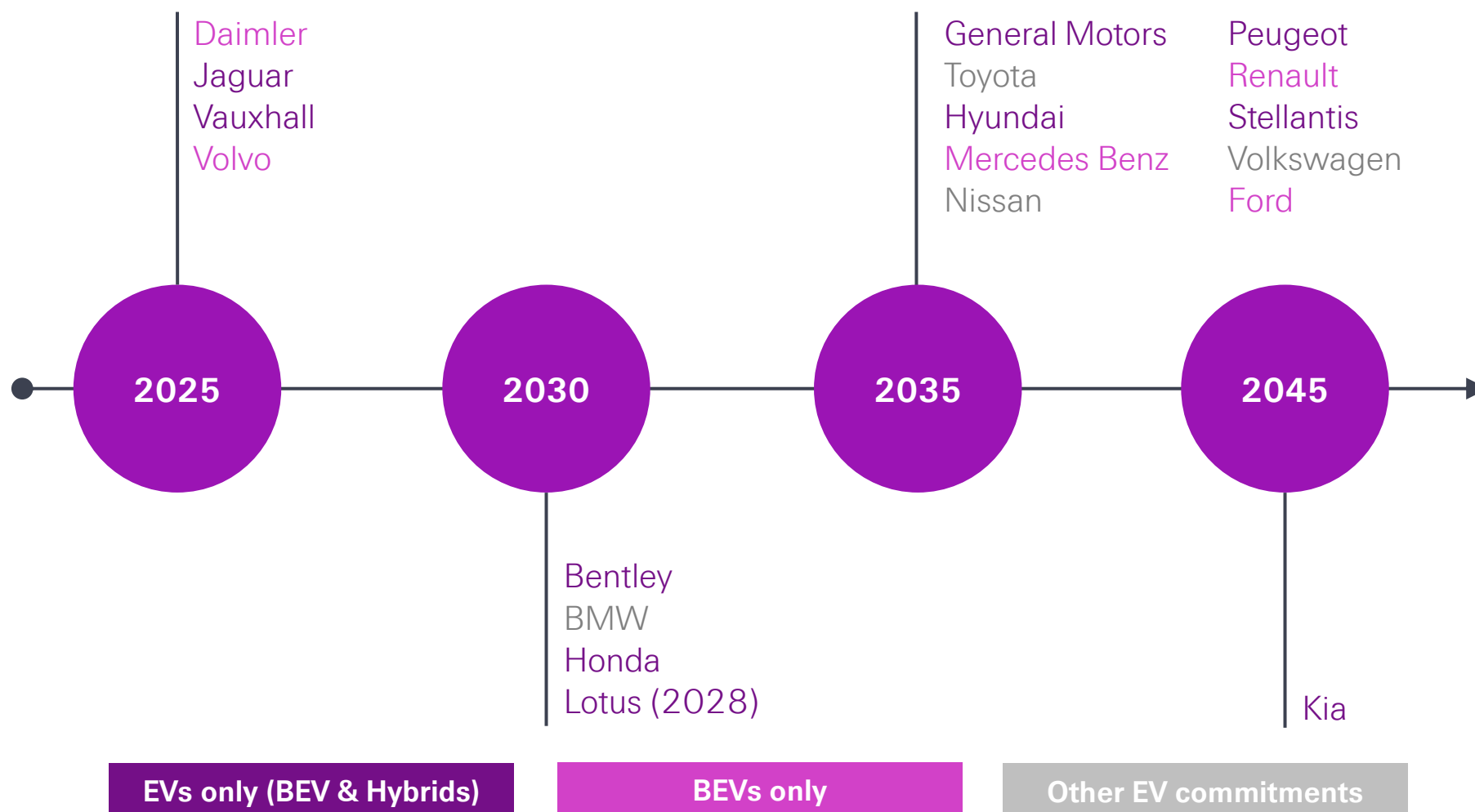
Swiss Re ADAS Risk Score portfolio-view, MTPL-covers



Swiss Re ADAS Risk Score portfolio-view, KASKO-covers

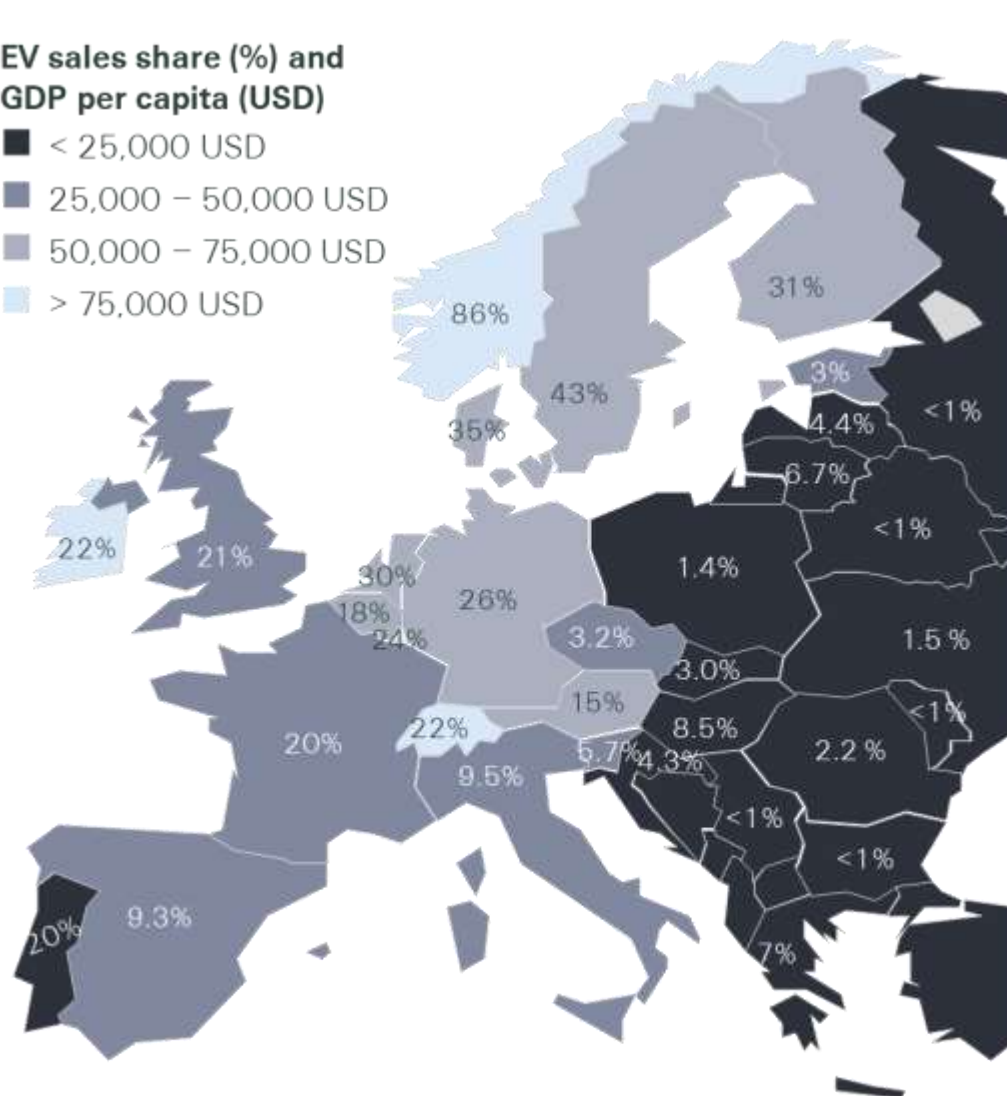
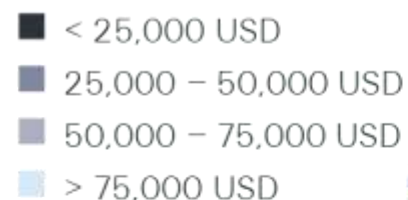


Electrification is reflected in the product roadmap of most OEMs...



... and EVs will form a larger share of the portfolio mix this decade

EV sales share (%) and
GDP per capita (USD)



Sources: World Bank, JATO

- Global EV sales doubled in the last year to a new record of 6.6 million.
- By 2030, more than every 3rd car will be electric
- “Range anxiety” remains key barrier for EV uptake
- There are differences across markets
 - Governmental incentives
 - Driver demographics
 - Availability of EV models
 - Market readiness

Standard rating models built for ICE cars are falling short to describe EV risk



Make/Model

Quickly evolving vehicle technology and new OEMs



Performance

Different key parameters that impact vehicle performance & safety, e.g. abrupt acceleration, silent driving, etc.



Annual mileage

Different usage profiles compared to ICE, e.g. average trip length



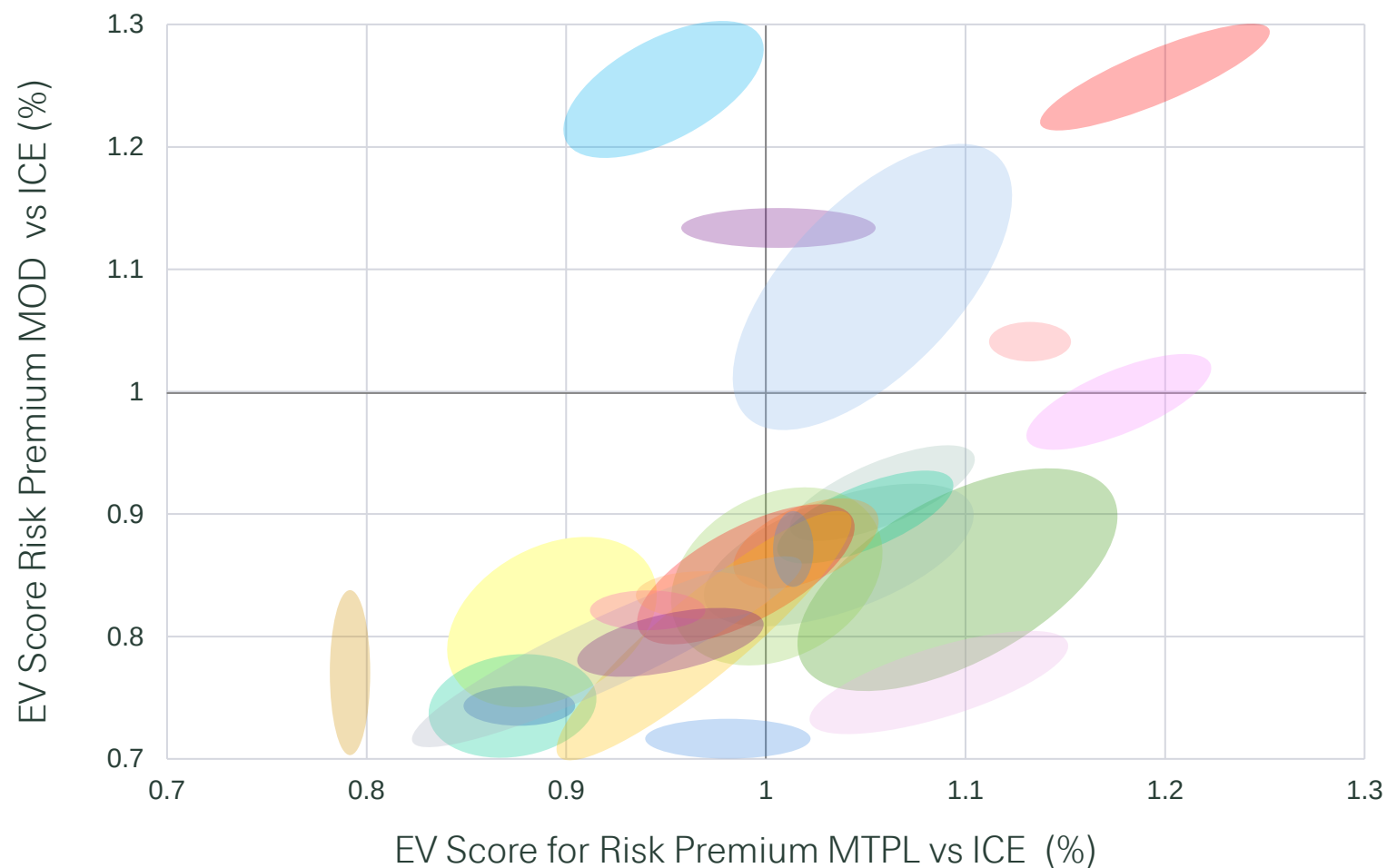
Repair cost

Different repair needs and challenges for Evs, e.g. more embedded software, dealing with high-voltage systems, etc.

Risk assessment tailored to ICE does not adequately reflect EV risk landscape

Enabling vehicle-based risk segmentation for EVs

The Swiss Re EV Risk Score shows large spread of adjustment factors over ICE by vehicle brand



Swiss Re EV Risk Score

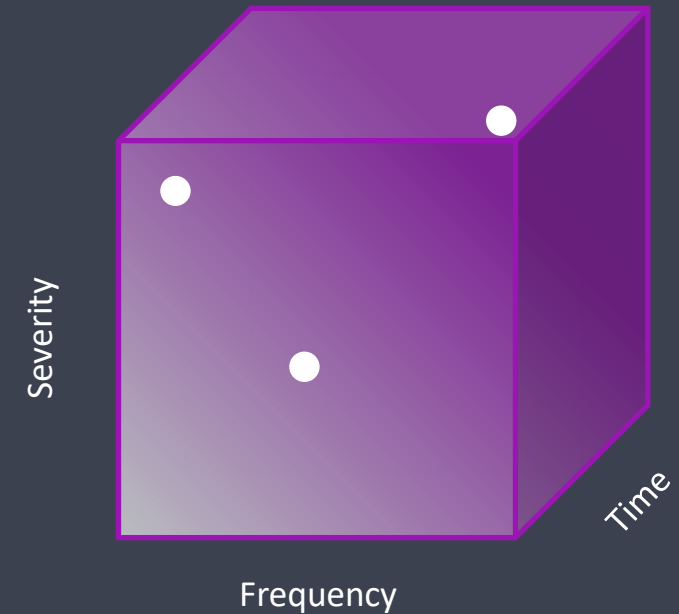
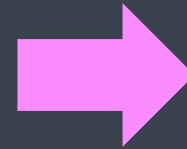
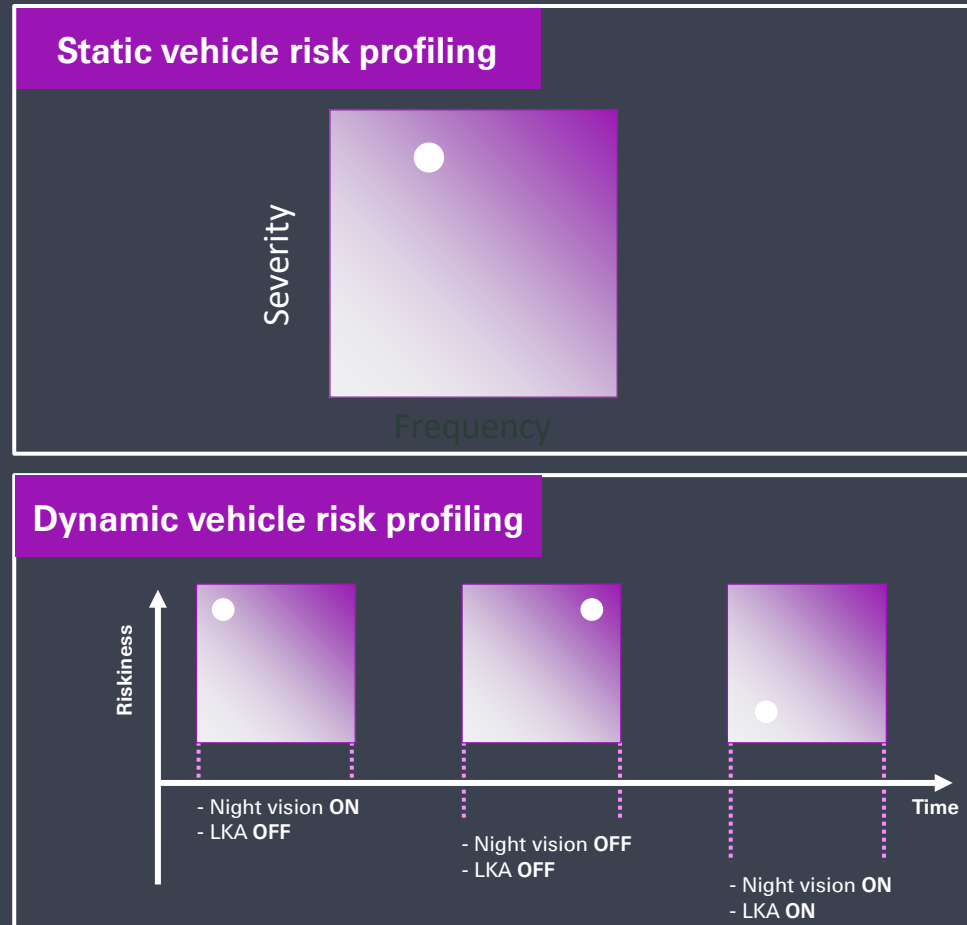
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into actuarial science*



EV adjustment factors
relative to an ICE model
with similar
characteristics

Outlook: the future of motor insurance scoring is dynamic, modular, vehicle-centric

Leveraging increasing **vehicle connectivity**: adding the time dimension to vehicle scoring



Thank you!

Driver today, passenger next

Assessing the different insurance risks to prepare
for a hands-off future



Questions?

Driver today, passenger next

Assessing the different insurance risks to prepare
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Thank you!

Contact me



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