

Telematics & Data Analytics

Securing profitable growth in motor using smart data

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Swiss Re Automotive Solutions



Motor is the most important P&C line globally

...and it's undergoing changes



Motor provides
**liquidity and
access** to customers



**15x increase in
telematics** based
premium volume
expected by 2025



**Automated
vehicle technology**
is already in use



>40%
Share of motor in
global non-life
premiums



Abundance of data
Rapid expansion of
data availability

Sources: Swiss Re, Ptolemus 2016, Osservatorio Connected Insurance 2016 Bain & Company and ANIA

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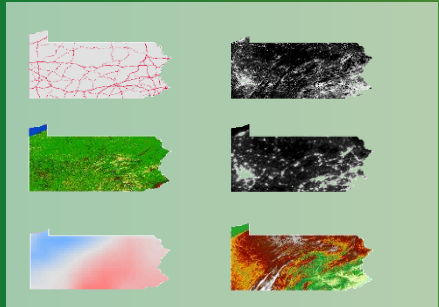
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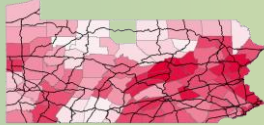
Data availability enables additional business insights

...risk drivers and market potential can be

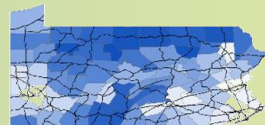


Detailed risk predictions

Accident frequency



Accident severity



Open source data

Census, car market, competitors, ...



Highly granular

input data representing

- risk factors
- Road network
- Population
- Weather
- Night light density
- Elevation
- Land use

Actionable business insights



Portfolio steering



Marketing strategy



Performance benchmarking



Market potential view

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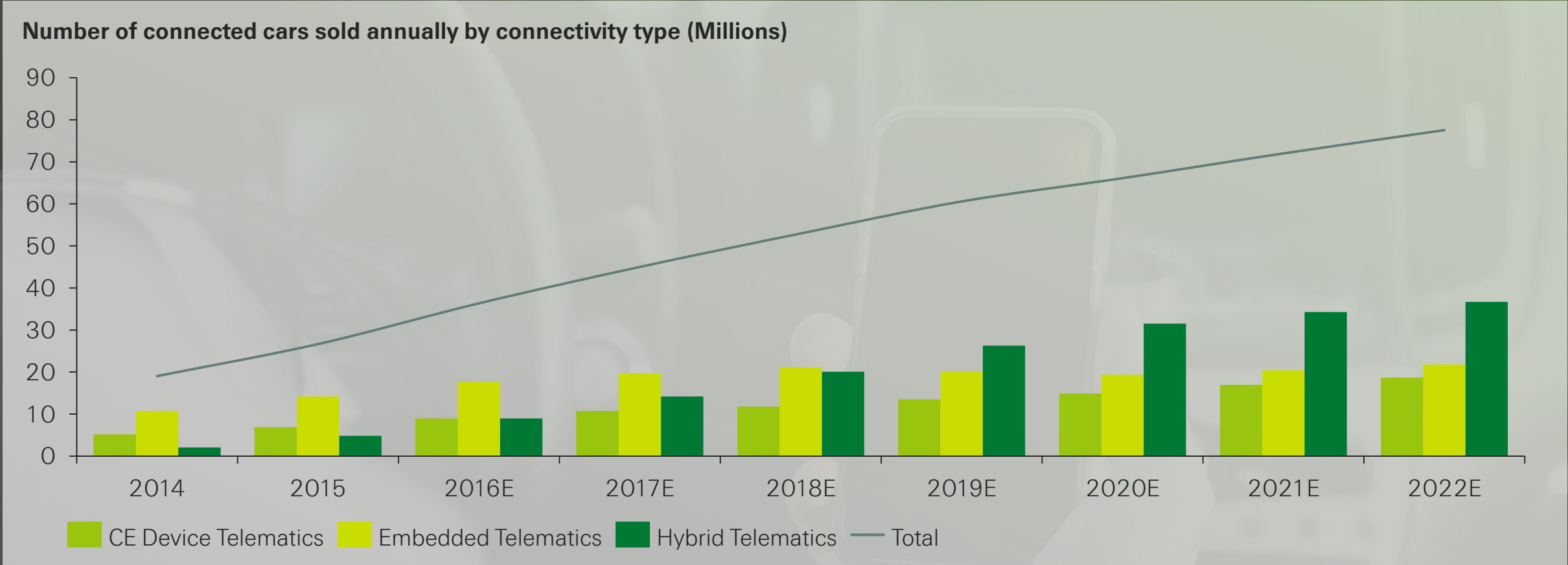


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Tech trend I: Car connectivity growth

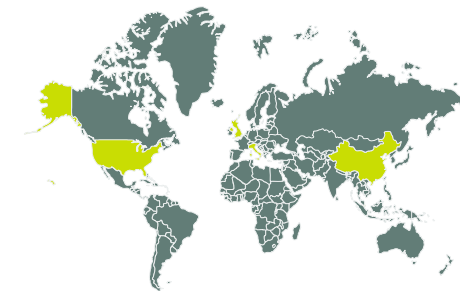


Source: IHS Trax, 2014



Motor Telematics Market Snapshots

Telematics set to play a relevant niche role in several markets



	USA	UK	Italy	China	Russia
Market size	1.7% market penetration, telematics is the new growth engine	1.1M telematics-based policies, 3.4% market penetration	7.1M telematics-based policies; 20.5% penetration	Motor insurance detariffication creates opportunity for UBI. Already implemented in 3 test provinces, but by end 2019 extended to the whole country	Several insurance companies have started telematics pilots , however, telematics market penetration so far rather low
Use cases	Main use cases are risk selection and behavioral change	Risk selection and behavioral change	Large discount on tariff , separate fee for device/services + top-up commission for agents. Important to share the generated value across the value chain		So far limited to MOD as Compulsory MTPL (OSAGO) not yet liberalized (telematics features within OSAGO in the future?)
Device	1/3rd mobile-app solutions the market, 2/3 rd manly OBD-II	TBYB approach is more developed than in other markets. Smartphone-based solutions account for >10% and growing	Almost the entirety of offerings is based on hardware devices . Self-installed black boxes have become the mass market ones	Smartphone-based solutions are dominating the UBI market	So far rather hardware device based
Other	Telematics technology introduced since many years, 2 different approaches : "roll-over" or fixed which is the more popular	High churn rate makes loyalty steering an important factor	First movers in telematics can improve their LR by 18% (risk selection and claim frequency reduction) Main data use case: Claims management and broad catalogue of value-added services . Scoring and customer engagement angles not developed , due also to little access to data (TSP do not share with insurers)	Very dynamic marketplace , with players from different industries doing trials to enter this space	

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DATA

Existing and
newly collected

What data sources are you using
to grow your motor business?

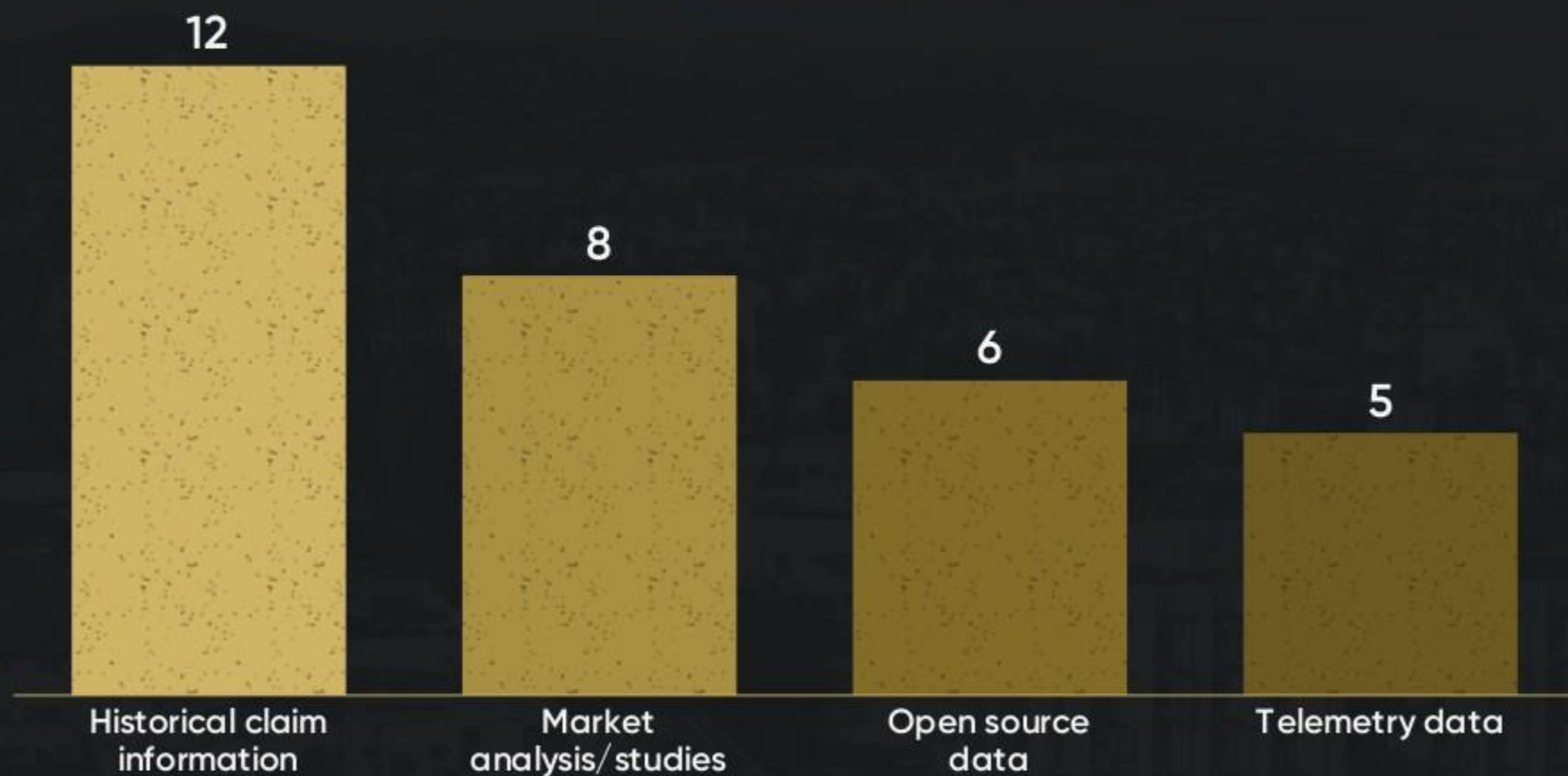
a) Historical claim information

b) Market analysis/studies

c) Open source data

d) Telemetry data

What data sources are you using to grow your motor business?



DATA

Existing and
newly collected

What can you do with data?

Data Analytics

Telematics

Pay-As-You-Drive (PAYD)

Pay-How-You-Drive (PHYD)



Swiss Re Motor Market Analyser supports your profitable growth

Data excellence for portfolio performance and strategic growth



Swiss Re model

Swiss Re's predictive model for accident frequency and severity provides a highly granular view of a country's risk landscape and acts as a sound basis to identify business opportunities



Your data

We use your portfolio data to understand your book's exposure to geographic accident risk and to benchmark its current performance against its potential performance



External data

Swiss Re motor experts and data analysts use external data to offer you business insights and a 360° view on the motor insurance markets you target

Innovative use of external data, risk modelling and cutting-edge analytics to increase your profitability



Portfolio performance



Sales network optimisation

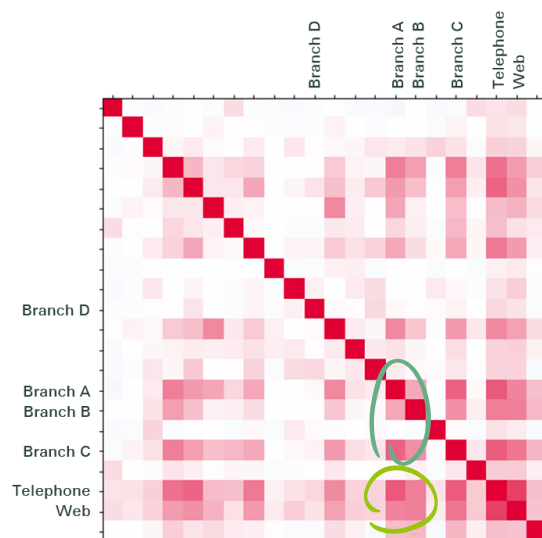


Strategic growth

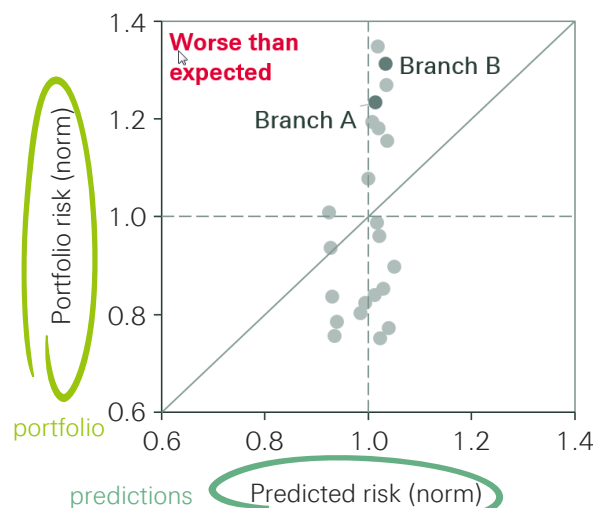
A client story: Enabling profitable growth with Swiss Re's MMA

Swiss Re identified new provinces to enter by rating risk exposures and benchmarked branch performance to enable portfolio steering

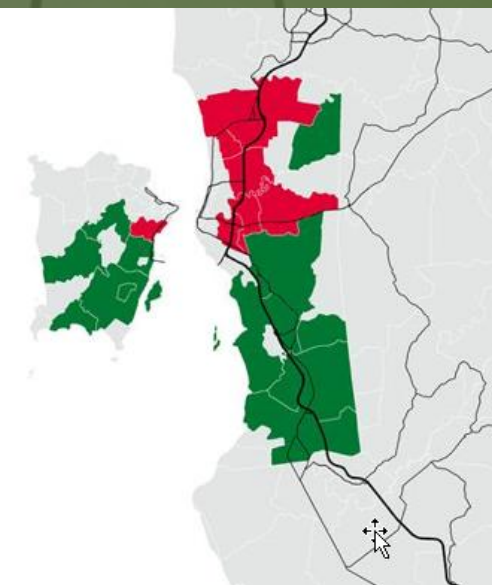
Overlap of catchment areas



Benchmarked performance



Growth and portfolio steering



Recommendation: Branch A is a closing candidate

The catchment areas of **branches A and B** have **substantial overlaps** and are **well penetrated by sales via phone and web**, they are **underperformers** given their geographical risk.

Looking at the catchment areas of branch D, we identify **favourable** and **unfavourable** areas in terms of risk. **Growing** in **favourable areas by 30%** and shrinking **in unfavourable areas by 10%** allows to **improve** the branch's LR by 2%

Research shows shift in motor risk modelling and pricing

Telematics is the first step in helping insurers transition to new business models

Deliver added value to today's consumers

Traditional risk pricing model



- Age
- Driving years
- Territory
- Vehicle data
- Previous claims

Risk proxy

UBI pricing model



- Driver behaviour
- Context of driving
- Surrounding information
- Comparison to other drivers

Behavioural rating

Automated vehicles model



- UBI pricing model
- Advanced driver assistance systems assessment
- Usage of autonomous features
- Vehicle "behaviour"

Behavioural & vehicle rating

Why telematics?

Telematics is creating benefits for consumer and insurer along the value chain



Increasing safety

- Safer driving through driver coaching
- Stolen vehicle recovery (black box only)



Convenience

- Easier and quicker claims handling



Customer experience

- Gamification
- Driver rewards
- Value-added services (e.g., location-based services, theft recovery)



Adequate premiums

- Satisfying demand for risk-adequate insurance premiums
- Transparency on, and ability to influence insurance premiums

Distribution/Sales

- Customer engagement
- Customer interaction/loyalty
- Cross-selling opportunities

Product Development

- Product suite e.g., PAYD, PHYD, Pay Per Trip
- Analytics skillset to assess ADAS/AV

Underwriting/Pricing

- Risk selection
- UW accuracy

Claims/Accounting

- Duration of claims process
- Claims cost
- Fraud (and theft)

Operations

- Admin efficiency

Telematics: connecting the dots

Swiss Re telematics solutions for better risks and fairer premiums

Unveiling the full potential of telematics

How connected insurance brings value to insurers and consumers: An Italian case study



What keeps you most from implementing Telematics?

a. Converting data into useable insight



b. Sales channel



c. Big Data



d. Telematics Service Providers Management



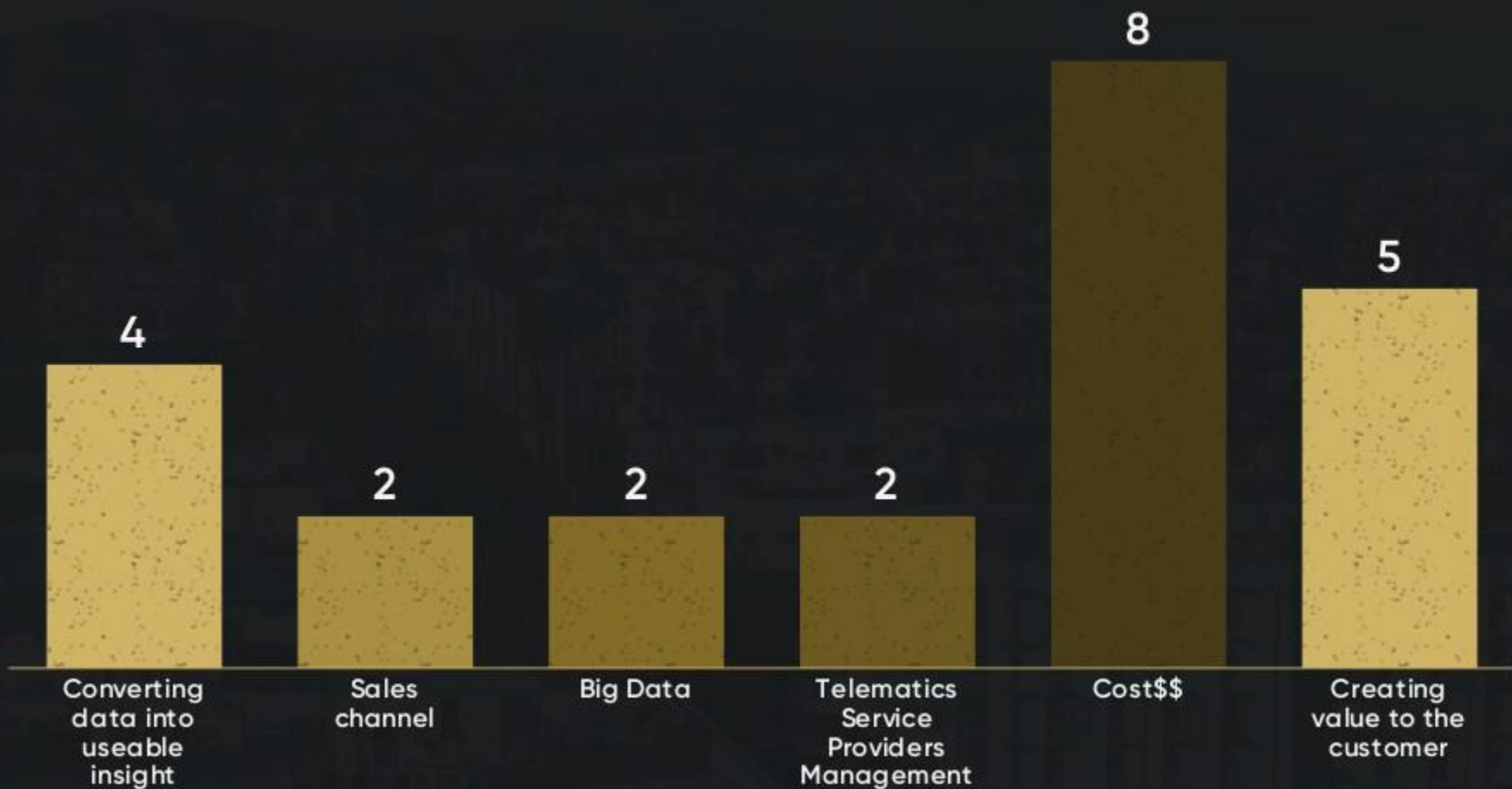
e. Cost\$\$



f. Creating value to the customer



What keeps you most from implementing Telematics?



Swiss Re's modular, end-to-end personal telematics solution

Customisable to meet your changing needs

1

App +
platform



App (white-labelled app or SDK) + Device-agnostic IoT telematics platform

2

Scoring +
actuarial support



Dynamic, machine learning-based scoring platform developed by data scientists and actuaries

3

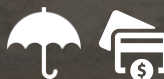
Go-to-market
support



Support in product roll-out from client segmentation and product definition, through incentive design, to positioning

+1

Reinsurance



Swiss Re shares the risk and helps insurers deploy telematics solutions

A client story: New Usage-Based Insurance (UBI) product for growth

Swiss Re deployed white-label telematics app, IoT platform, scoring & analytics and supported go-to-market to launch innovative motor product on the market for growth



Ansvar is a Dutch insurer interested in growing through an innovative UBI product offering.

Challenges

- Creating an engaging app and insurance product to attract customers
- Launching a telematics product with minimal IT integration efforts and in line with GDPR regulation



- Safe driving app developed by Swiss Re is on the market since summer 2018
- IT integration was minimal

- GDPR compliance
- Scoring & analytics for quarterly cash backs and rewards
- No gamification

Using data in a smart way helps you to grow

- Expanded data availability and new technologies can help you boost profitable growth in motor if used well
- Swiss Re's Motor Market Analyzer and Telematics App/expertise can help you do so
- Companies that have the capabilities to use these new data sources in their risk assessment and improve customer experience are ahead of the game ... others will lag behind





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