

Usage Based Insurance:
Challenges and Opportunities for African (Re) Insurers.

20 May 2021 Jean Aymar Sahe





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## Why should we care about UBI in a (post) COVID19 world?





### Local insurers offer premium relief

11 May 2020

Gareth Stokes



On 21 April (Santam) added R155 million to cover the cost of refunding 20% on all motor vehicle premiums paid by its commercial and personal lines clients during April 2020. Lizé Lambrechts, Santam CEO, said the insurer was "absolutely committed to playing [its] part to help alleviate some of the devastating impacts of the virus.

"Old Mutual Insure has set aside R60 million towards 15% motor premium discounts in April 2020 and 10% in May for qualifying personal lines customers. Qualifying commercial and agriculture customers will receive a 10% motor premium discount for both months"

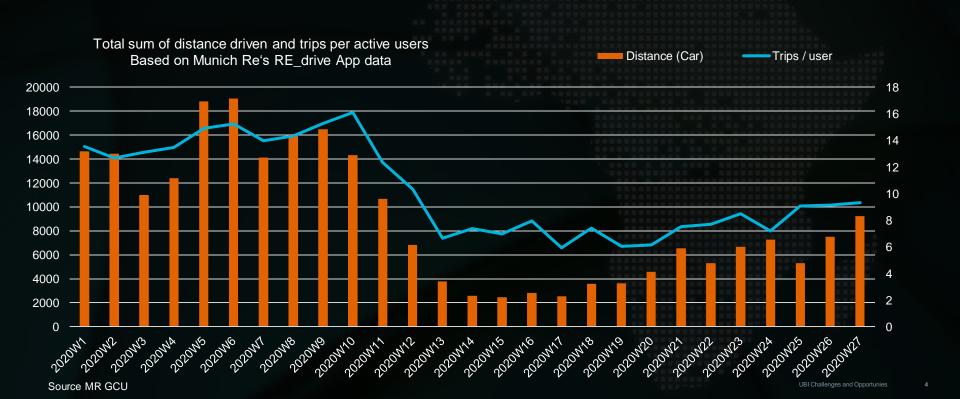




"COVID19 relief has been offered via May premium reductions based on actual kilometres travelled in April. Drivers on the Vitality Drive programme would qualify for a 25% premium reduction on vehicles that covered fewer than 500km. A 15% premium discount would apply to all other motor insureds."

# Why should we care about UBI in a (post) COVID19 world?





# Usage-Based Insurance Description

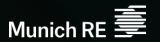








# Usage-Based Insurance Description



#### Flexible coverage:

- Policyholder can adjust sum insured anytime.
- Add/Remove items

#### **Flexible Duration:**

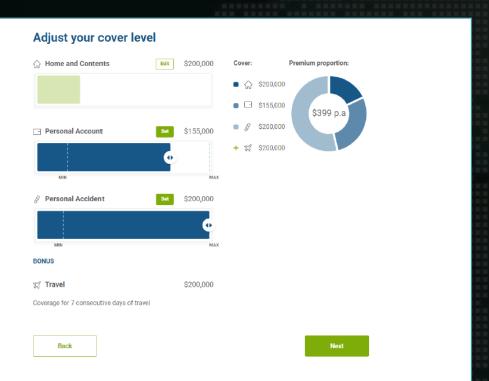
- Easy activation: "switch on and off"
- "Pay per trip" accident or life insurance



#### **FlexiSafe**









### **Usage-Based Insurance Types**



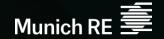


#### "Pay As You Drive":

- One major factor: e.g.: km driven
- Price varies with usage (e.g.: number of km driven)

#### "Pay How You Drive":

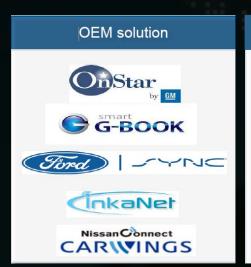
- Driving score based on a number of behavioral factors: e.g.: braking, acceleration, cornering etc.
- Price discounts based on score
- Other rewards/services (gamification)
- Powered by telematics technology



#### Motor Vehicle Telematics

#### Types of telematics devices









#### Motor Vehicle Telematics



#### Choice of a telematics hardware



#### **OEM** solution

- most complete data capturing capability
- + added-value and services
- + risk follows the vehicle, not the driver.
- only available to certain vehicle brands
- high service fee with low renewal ratio
- barriers to data sharing

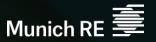
#### OBD including box

- + permanent data transmission
- added-value and services easy to implement
- risk can follow both driver and vehicle
  - Higher cost than APP only
- Box needs professional installation
- OBD can be easily remove
- around 0.5% failure rate

#### APP only

- lowest cost
- + software is easy to upgrade
- built-in camera for crash investigation and fraud
- risk follows the driver, not the vehicle
- data-noises
- driver identification

Motor Vehicle Telematics



#### Munich RE's App Only Example: the RE\_ Drive App

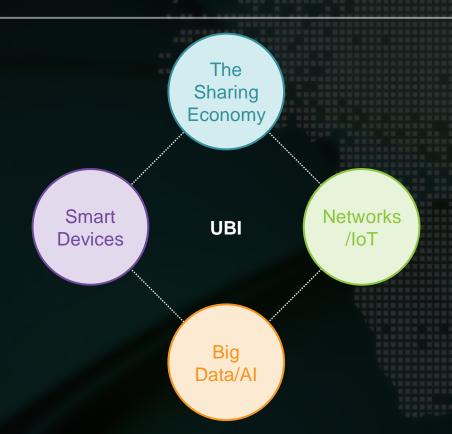




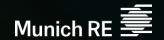
"RE\_Drive" is available. Download for free on Google Play & Apple App Store

# What major factors will be decisive for UBI expansion in Africa?

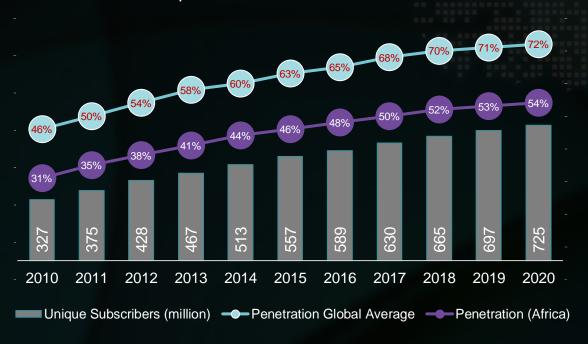


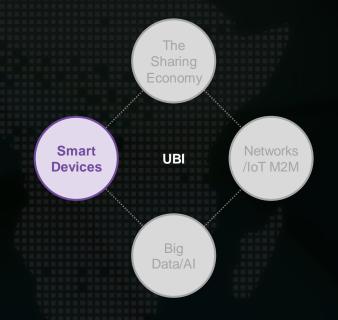


## What major factors will be decisive for UBI expansion in Africa?

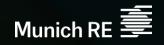


#### Unique mobile subscribers in Africa



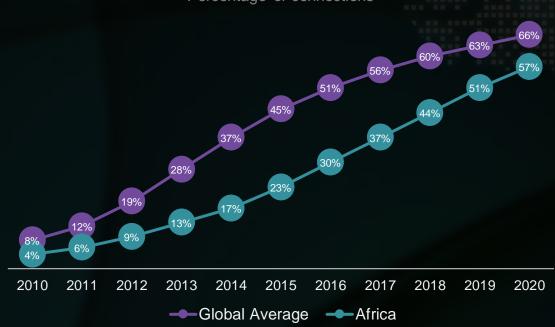


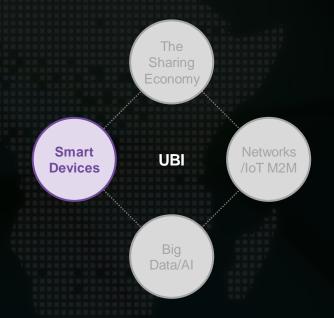
# Smart Devices their evolution in Africa



#### Smartphone adoption growing in Africa

Percentage of connections

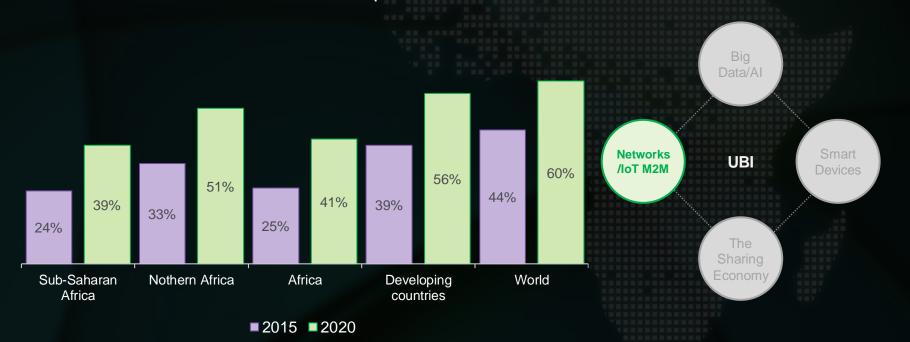




## Network infrastructure and IoT readiness

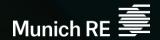


#### Mobile-internet subscriber penetration



Source: GSMA Intelligence 2017

#### Network infrastructure and IoT readiness



# **Gartner**

"...8.4 billion connected things in use worldwide ..."



"...there will be 75 billion connected devices by 2020...."



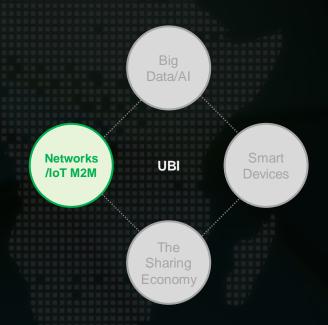
"2015 Global Social Venture Competition Winner"



"MTN and Huawei jointly launched the Smart Water Metering solution, the first Narrowband Internet of Things (NB-IoT) solution in Africa..."



"Vodacom's Narrow Band Internet of Things Network now commercially available ..."



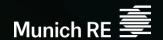
Source: press review 2017

# The Sharing Economy causing a drastic shift in customer expectations



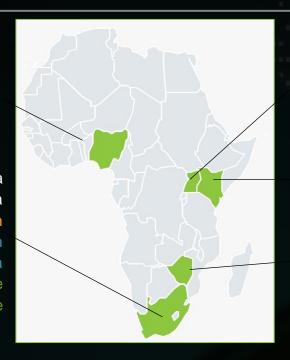


# The Sharing Economy causing a drastic shift in customer expectations



Imeela.com

CarTrip.co.za
JumpInRides.co.za
Afristay.com
ThundaFund.com
Startme.co.za
Naked Insure
Pineapple



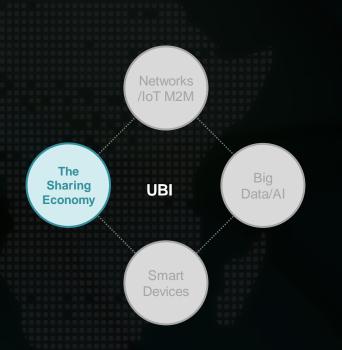
SafeBoda.com

Little.bz

Changa.co.ke mukuru.com

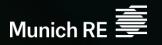
mukuru.com

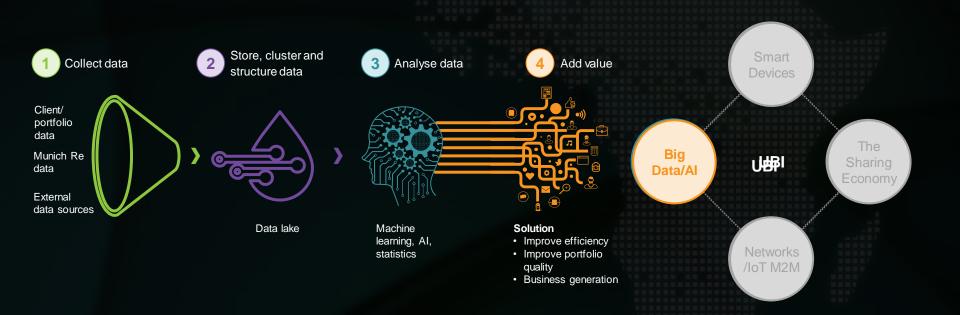
- Car Sharing
- P2P Accommodation
- P2P Finance/Crowdfunding
- P2P Insurance



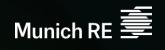
Some Examples of Africa-Based Sharing Economy Start Ups

# Big Data / Artificial Intelligence Data is the new gold!





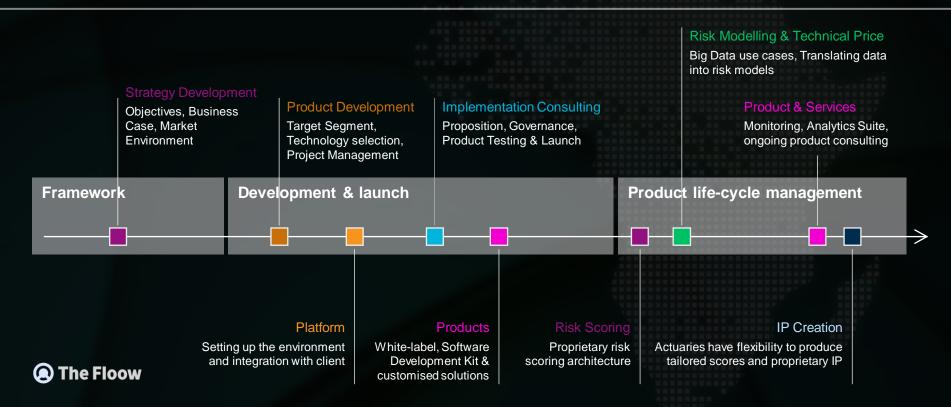
## How can Munich Re assist? Our integrated offering



FloowKit Software Development Kit (SDK)		FloowDrive <sup>1</sup> White label app
Proprietary core technology stack (incl. risk scoring, crash detection etc.) for a scalable, smartphone-based telematics PHYD product	Product	Proprietary core technology stack (incl. risk scoring, crash detection etc.) for a scalable, smartphone-based telematics PHYD product
Proven and highly flexible SDK, allowing for telematics integration into existing member app	Technology	Standalone telematics program with white label app that can be tailored to clients' look and feel
<ul> <li>Seamless integration in existing app</li> <li>Fully customizable: front-end, features etc.</li> <li>Cost effective telematics capabilities within any mobile app</li> </ul>	Benefits	<ul> <li>Can be deployed very quickly</li> <li>Effective path for PHYD</li> <li>Incl. all continuous app updates</li> </ul>
<ul> <li>Higher development effort on clients' side</li> <li>Development updates potentially at higher cost</li> </ul>	Challenges	<ul> <li>Multiple apps in the app stores</li> <li>Customization limited to branding and wording</li> <li>Higher cost than FloowKit</li> </ul>

# How can Munich Re assist? The Munich RE Global Consulting Services







# Thank you!

May 2021

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