



Transport Industry committed to the future

Presented by Magda Hugo

Transportation innovation in Africa

- Transportation is about to get a technology-driven reboot. Future transport systems will certainly be connected, data-driven and highly automated
- Africa is home to seven of the 10 fastest-growing economies in the world
- As trade improves on the continent, transportation in Africa is gaining a spotlight with the need for **easier movement of goods, services and people across borders**
- China began large-scale trade activities with African Countries and made its business interests with the continent a top priority



Transportation innovation in Africa

- Africa is developing smarter, greener cities and more efficient distribution of freight and consumer deliveries
- Beijing is more than willing to extend its **One Belt, One Road initiative across the continent**
- Last year, **Nairobi-Mombasa railway line in Kenya was completed** where **China financed 80 percent of the \$11.17 billion project**
 - The new line has reduced travel times between the country's two most important cities to 4.5 hours and helped Kenya push it's proportion of **freight trade up towards its 40 percent target**



Autonomous Vehicles



- Six key areas are considered to be poised for profound transformation; automotive, **shipping and logistics**, insurance, **government**, media, and **data security** and privacy.
- Sales and revenue forecast for autonomous trucks and buses reached \$84 million in 2017 and will grow to \$35 billion at the end of 2022
 - Increased unit sales from 343 units to 188 000 units in 2022
- The trucking industry is desperate for drivers — autonomous vehicles can help
 - Solution to **dangerous conditions for drivers in Africa**



Africa's drone revolution – Reaching the unreachable



Africa's drone revolution

- Africa is leading the way in terms of drone usage
- The world's first commercial drone delivery service began operations from **a hill in the middle of Rwanda**
 - Zipline, a San Francisco-based robotics company, delivers blood by drone to almost half of all **Rwanda's** blood transfusion centres. Orders are made online, by text, phone, or WhatsApp
 - **South African** National Blood Service will shortly be using drone technology to deliver blood
- **Kenya's** Astral Aviation purchased two Falcon **cargo drones**
 - Astral, operates air cargo services in Sudan, Tanzania, Somalia and Rwanda, connecting to European hubs that **import perishables products like flowers from East Africa.**



Africa's drone revolution



- Exciting prospects of further expansion in the wider East Africa region
- **Kenya's** Astral Aviation uses a 2,000kg payload drone that can travel up to 1,200km, solving the logistics challenge of **transporting cargo to remote areas with no infrastructure** to accommodate manned cargo planes
- **Cargo drones will bring about quick delivery of cargo** to remote areas with inadequate transport infrastructure.
- **Forwarders using drones will have a competitive advantage**



Number plate recognition



- Vehicle registration plates of the Democratic Republic of the Congo have various security features to make counterfeiting difficult
 - For example, the background of all letters has a hologram foil labelled authentic
 - The DRC plates are produced by Ferrari and Gucci
- The backflip to the implementation of these number plates was that it caused a lot of delays because not everybody was aligned



Movement of Customs Data

- **Customs to Customs Connectivity project** –between South Africa and Swaziland /eSwatini (Swaziland)
 - This project has **enabled the movement of data between the Customs authorities increasing trade facilitation** and the **safety** aspect
 - It is going to become necessary for the Customs world to adapt to new technologies without restraining it.



Thank you!



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