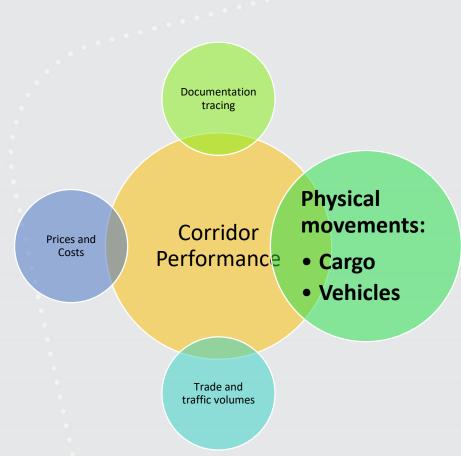
Trucking monitoring by GPS for Corridor Transport Observatories

SSATP Annual Meeting November 25-29, 2019 Victoria Falls, Zimbabwe



Corridor Transport Observatories



- CTO are a toolbox of instruments measuring the multiple dimensions of corridor performance tapping into multiple data sources:
 - Port authorities
 - Customs
 - Terminals and ICDs
 - Weighbridge operations
 - Railways
 - Logistics industry associations
- Truck monitoring through GPS fills a critical information gap in that toolbox in describing route trip patterns and crossing times at choke points

Proof of concept for truck monitoring by GPS in E&S Africa

- Almost all trucking companies in E&S Africa have vehicle fleet management systems using GPS
- Entry point is the GPS service provider, not individual truck fleets:
 - On the plus side: one interface / data collection point for large truck fleet
 - One the negative side: less information on the characteristics of the truck fleet and the companies
- That enables collecting and processing large amount of tracking data throughout the region

Close to 100,000 trucks

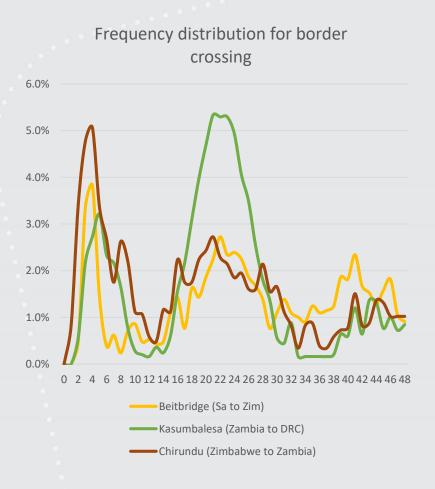
Over 2 billions records per month

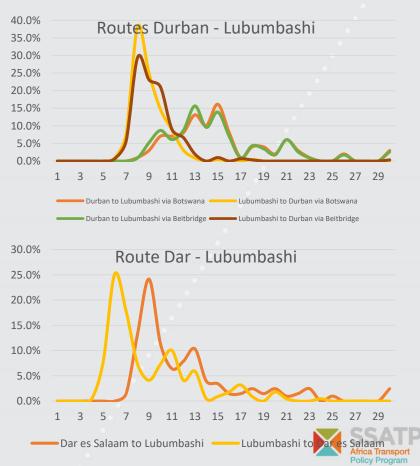
50,000 monthly crossings over 42 borders

25,000 monthly trips over 50 routes



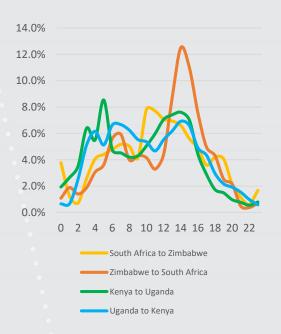
The complex realities of border crossing and driving patterns

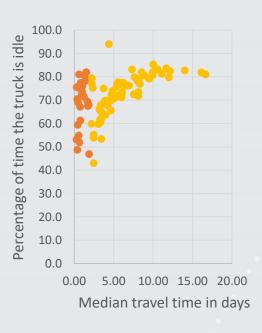


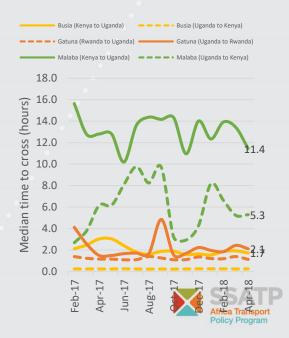


But data connects to the wider corridor and logistics agenda

- Opening borders 24/7?
- Two drivers per truck to maximize driving time?
- Impact of border procedures changes?







Data is good, but it needs to be interpreted to support advocacy

- Several regional institutions have the knowledge to add value to the data:
 - The trucking industry, through their regional industry federation FESARTA
 - The Tripartite RECs
 - The Corridors, through their African federation ACMA
 - Universities
 - ...



- The SSATP supported the development of the TMS until March 2018, and since, USAID Southern Africa has taken over the funding of the system
- A more sustainable solution needs to be defined jointly



Lessons and challenges

- The proof of concept works, but under a specific set of conditions:
 - Access to data (go / no go criteria)
 - Technical capability to process the data (requires a specific skillset but manageable)
 - Funding cannot be on a commercial basis, so requires public funding (donors for the moment)
- The route chosen by SSATP was to partner with a technical provider for both access to data and its processing - Crickmay

- Discussions are still ongoing for the sustainability of the system
 - SSATP funding Nov 2016 to March 2018
 - USAID funding April 2018 to March 2019
- Discussions on possible funding from TTTFP stalled
- NEPAD intends to fund the system under its 2020 budget
- Once funding becomes stables, upgrades of the system that were put on hold will resume



Thank you X SSATP Policy Program Merci



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