Trucking monitoring by GPS for Corridor Transport Observatories

SSATP Annual Meeting
July 2\textsuperscript{nd}-6\textsuperscript{th} 2018
Abuja, Nigeria
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

Frequency distribution for border crossing

Routes Durban - Lubumbashi

Route Dar - Lubumbashi

- Dar es Salaam to Lubumbashi
- Lubumbashi to Dar es Salaam
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
Thank you
Merci

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