



Forward thinking Supply chains continued

20 September 2023

SAPICS Spring Conference

Indaba Hotel, Fourways, Johannesburg, South Africa

Rail Reform Roundtable

Facilitated by: Evert de Ruiter, Principal Consultant, Auctoro Advisory

Meet the panellists



Evert de Ruiter
Principal Consultant
Auctoro Advisory



Professor Jan Havenga Stellenbosch University



Jaap van der Merwe Independent Rail and Logistics Expert



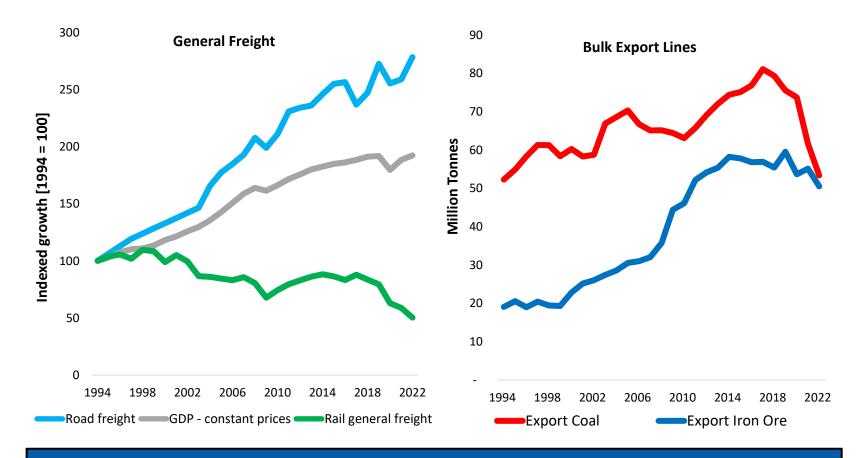
Professor Jan HavengaStellenbosch University

The economics of freight flows and network tiering



The last three decades





There were recent attempts made to address these problems.

But a lack of oversight and leadership torpedoed failings.

Source: GAIN Freight Demand Model™

Many challenges over these 30 years But three years ago = new hope

But no

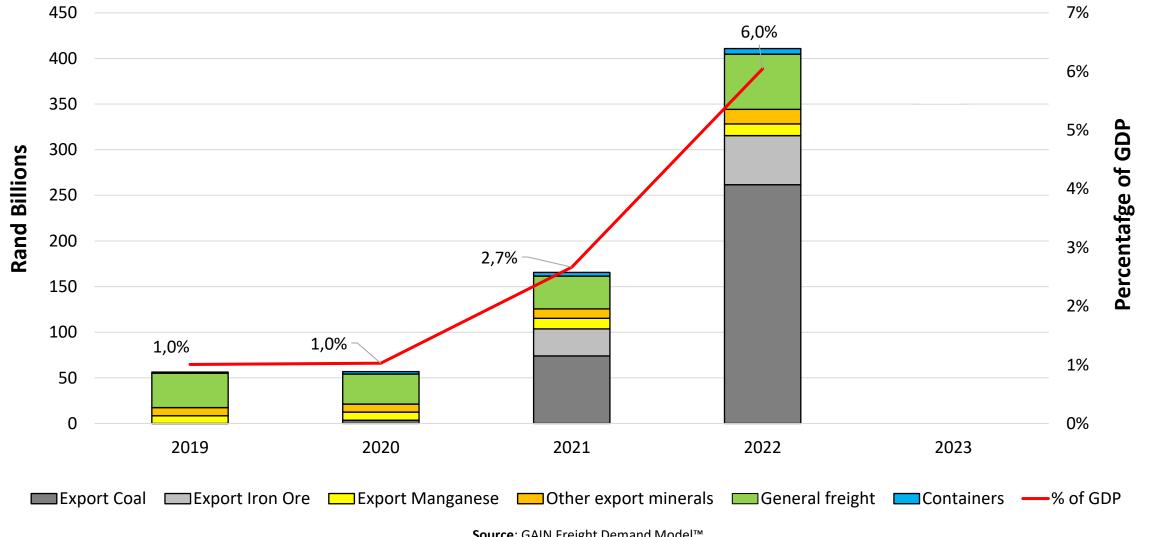
The network should have been rationalised
Skills, experience, and expertise cherished
Visionary leadership installed
Operational issues addressed
Outcomes-based security contracts in place

Social contracts around the line Maintenance prioritized



Updated research on Transnet's damage to the economy



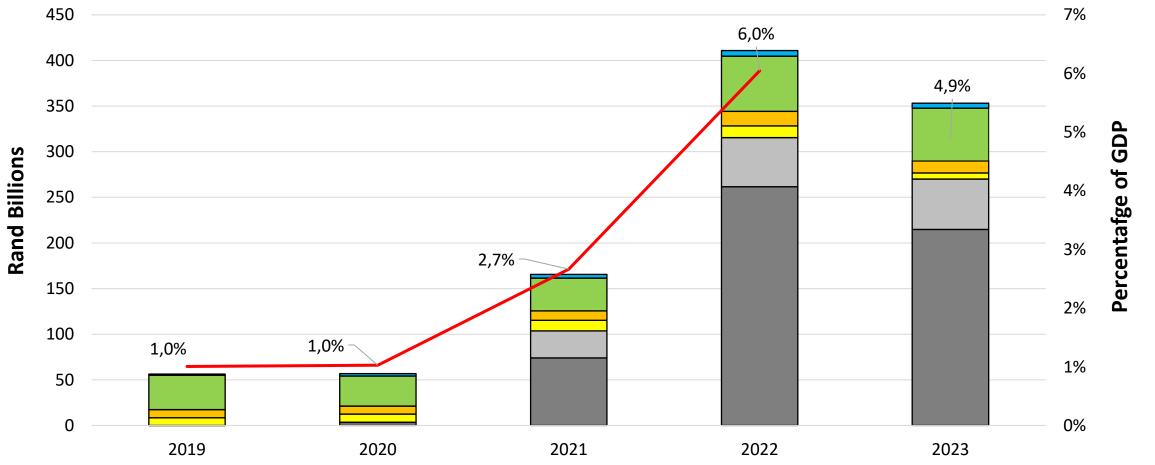


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Updated research on Transnet's damage to the economy





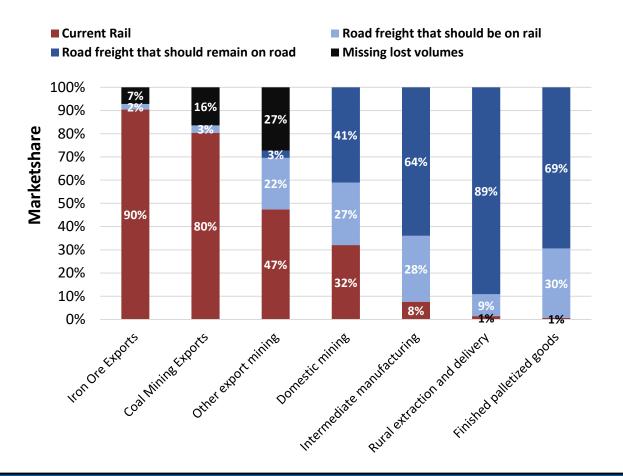
The damage is still a billion a day – good people is saving what they can

Source: GAIN Freight Demand Model™

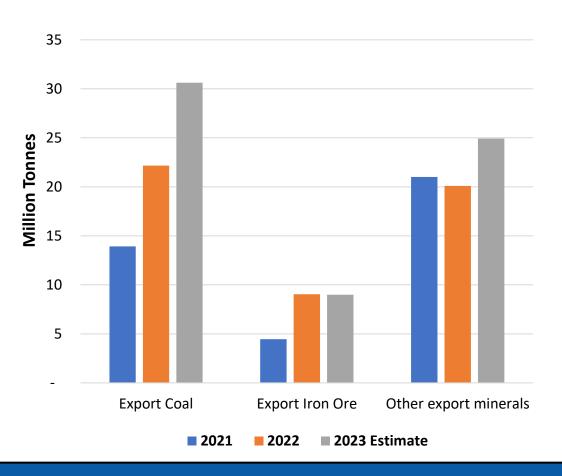


The tipping point is here

Our railway is still ignoring the key segments



And now failing what they're good at



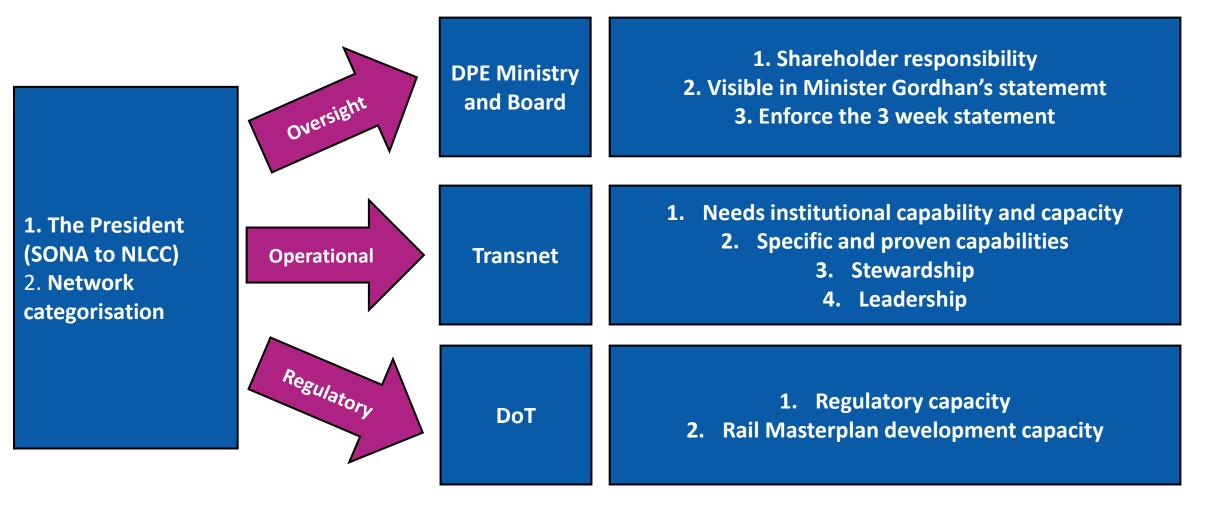
The general freight business serves 26% percent of the market that it should.

If it doesn't grow by 2050, it will be 5 times too small.

We've missed 31 million tons of coal and iron ore that we didn't export, which is R105 bn in revenue missed last year.

From panministerial to line execution?

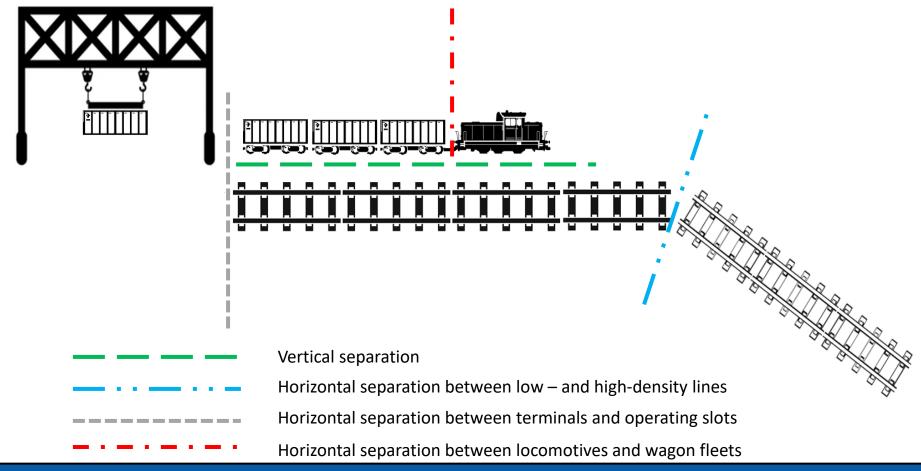






The principle of revival is separation logic





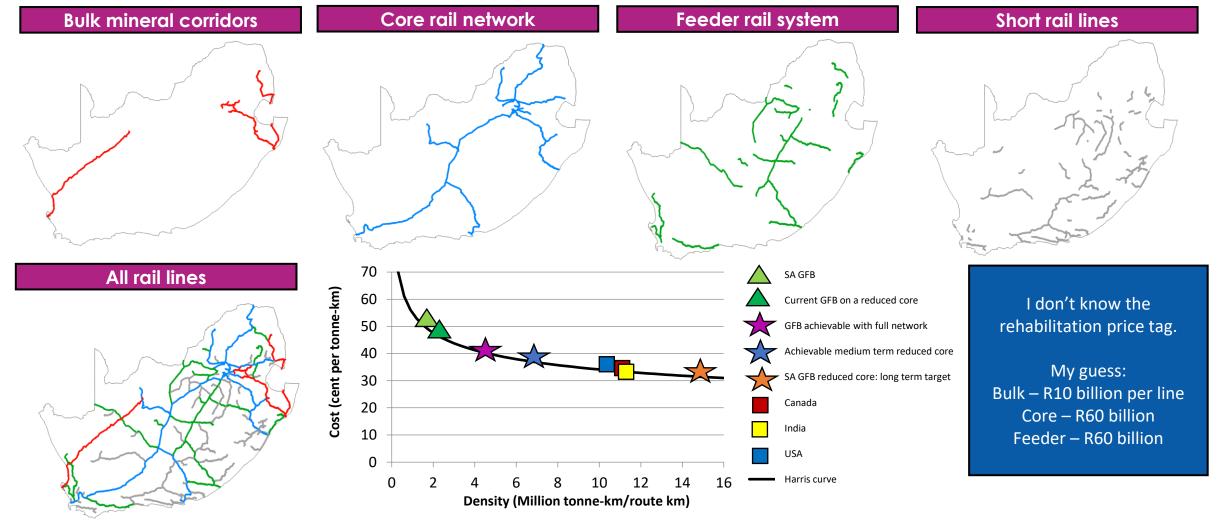
Private ownership is not a panacea. We need clarity, to know where the private sector can and should be involved.

The various components must still be inserted into value chains. When will trains run again?



Network classification examples under discussion





Source: Harris (1977) curve adaptation based on historic rail data captured in the GAIN Freight Demand Model™

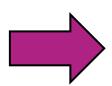


The roadmap within a roadmap



What must happen - regardless

Rehabilitate the infrastructure
Stop destroying it
Run trains again
Rationalize the network



What we will need

Private sector involvement (funding and expertise)

Development bank funding

So what is stopping us?

Lack of stewardship
Coordination, Cooperation, Collaboration
(work together to create value – stop the bleeding)



How we will get it?

Infra audit
Independent Infra owner
Independent Infra manager
Execute the roadmap
Make regulation real

All while losing a Billion Rand per day.



And now?



- We must run more trains with what we've got
- We must fix a rationalized network
- We must create the enabling conditions for private sector trains

Therefore anybody or anything that stand in our way must be removed

Too not do this is high treason



The future of rail has a direct link to mankind's survival



- A world without mass guided transport will be a failed world
- The same is true of South Africa

Public managers are neither clerks nor martyrs.

Instead they are explorers commissioned by society to search for public value.

- Moore

A failed railway will be a nail in the coffin of a failed state.





What could be done to accelerate reform in freight rail?

11 November 2022

Prof Jan Havenga

Dr Zane Simpson

Anneke de Bod

Stefaan Swarts

Henk Neethling



To survive

	Establish efficient regulator	System component preservation – saving rail (not Transnet)
Rationale:	 The system is vulnerable Leverage is impossible without certainty Transnet cannot regulate access 	 Without these the policy will fail At best resurrection will be unaffordable Leverage for all will be destroyed
Action:	 Provide strong regulation Pass the Act Rail Masterplan Intelligence support Appoint a seasoned administrator to run policy enablement process 	 Identify and preserve components Appoint a curator to implement component placement: Export lines Core lines Low density lines

The system's "custodian" is too fragmented. A single point of intervention is required. Probably the Presidency

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Thanks for your time

A year from now you will wish you started <u>yesterday</u>.

But you still have today.

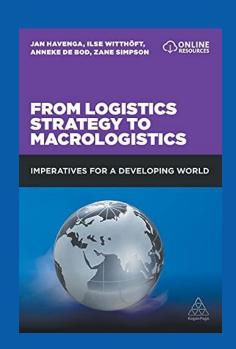
I hope <u>tomorrow</u> an additional export coal train will be dispatched.





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Book available to purchase at https://www.koganpage.com/logistics-supplychain-operations/from-logistics-strategy-to-macrologistics-9781789664010



Jaap van der Merwe Independent Rail and Logistics Expert

Key technical considerations related to implementation

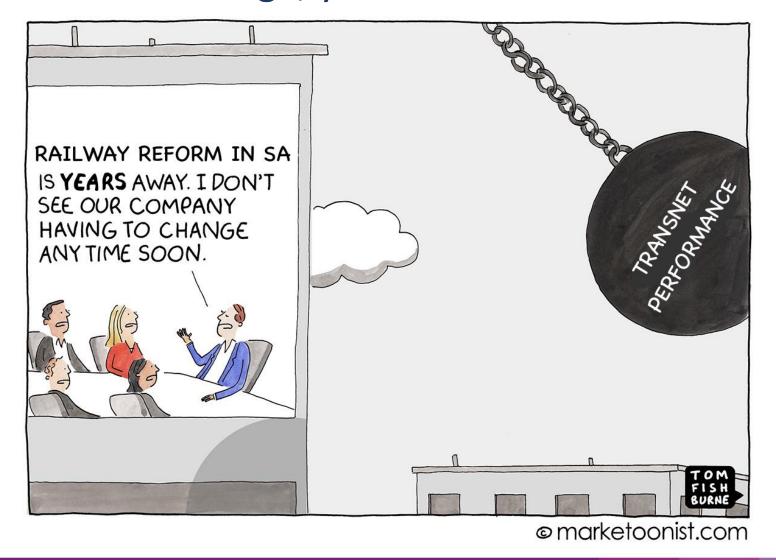


Evert de Ruiter Auctoro Advisory

A proposal for railway reform implementation



"If you don't like change, you'll like irrelevance even less..."





Setting the scene...

(Transnet is) "uncompetitively positioned, ineffectively equipped, operationally inefficient railways that have lost their ability to both dominate local logistics and mobility markets, and to support global exports".

(page 27 of the National Rail Policy White Paper)

- Key principle of railway reform: **One can't unreasonably deny access if the system has the capacity...**
 - Solution: *crowd in Private Sector capital to remedy the situation* (the private sector gets to play a meaningful role in rail in SA)
 - ARIA Legal opinion: there is <u>no impediment in law</u> preventing the implementation of third party rail access in South Africa
 - The network is a critical element that needs to be addressed...
- Momentum is building: Operation Vulindlela, NLCC (Freight Logistics Roadmap),
 Presidential State-Owned Enterprise Committee (PSEC) and Government's "HoldCo",
 etcetera...
- After 160-odd years, change is coming to the railways of South Africa....





Transportation Reform imagined...

	Road Freight		
Asset Operator	Trucking Co. Trucking Co.		
Infrastructure Manager	Concessionaire (Bakwena, N3 Toll Co., etc.)		
Infrastructure Owner	SANRAL		

Transportation Reform imagined – modal alignment

	Road Freight	Rail Freight
Asset Operator	Trucking Co. Trucking Co.	Train Operating Co. (TOC) Train Operating Co. (TOC) Train Operating Co. Co.
Infrastructure Manager	Concessionaire (Bakwena, N3 Toll Co., etc.)	Railway Operating Company (ROC)
Infrastructure Owner	SANRAL	SANTRACK / Transnet



So, what does it all mean?

- Rail regulation is on the way transparent & competitive
- The private sector is required to play a meaningful role in rail it is time for the private sector to step up to the plate
 - Proper multi-modal collaboration is long overdue
- Rail should therefore earn its rightful place in SA supply chains
- Cost of logistics should go down
- 6% annual GDP boost network effects are almost incalculable

'No force on earth can stop an idea

whose time has come' - Victor Hugo





Discussion & Questions Panel & Audience



PRESENI FUTURE

Conclusion

Thank you for your time and interest

Imagine... (Apologies to John Lennon)

Imagine there's a thriving railway

It's easy if you try

No delay hells confounding us

Around us, only trains

Imagine all the goods flowing

Smoothly every day

Imagine there's no blaming others

It isn't hard to do

Nothing to shout or scream about

And no us and them, too

Imagine all the supply chains

Running like clockwork again

You may say I'm a dreamer

But I'm not the only one

I hope someday you'll join us

And then the trains will run...



