TRANSNET

delivering on our commitment *to you*

Transportation Of Products Existing And Future Pipelines

Carlos Galego

Transnet Capital Projects Portfolio Executive: NMPP

13 November 2008

Current Transnet Pipelines

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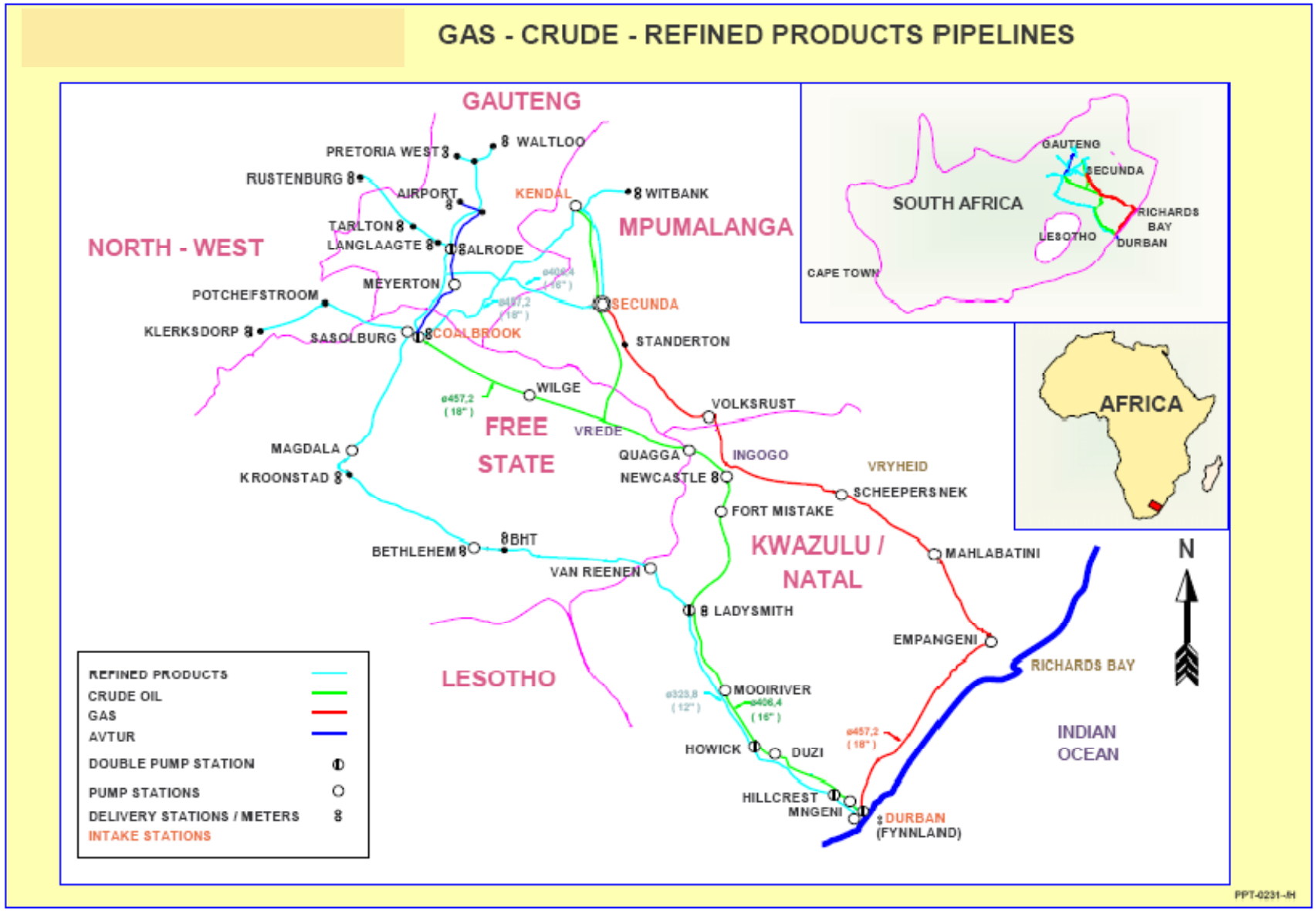
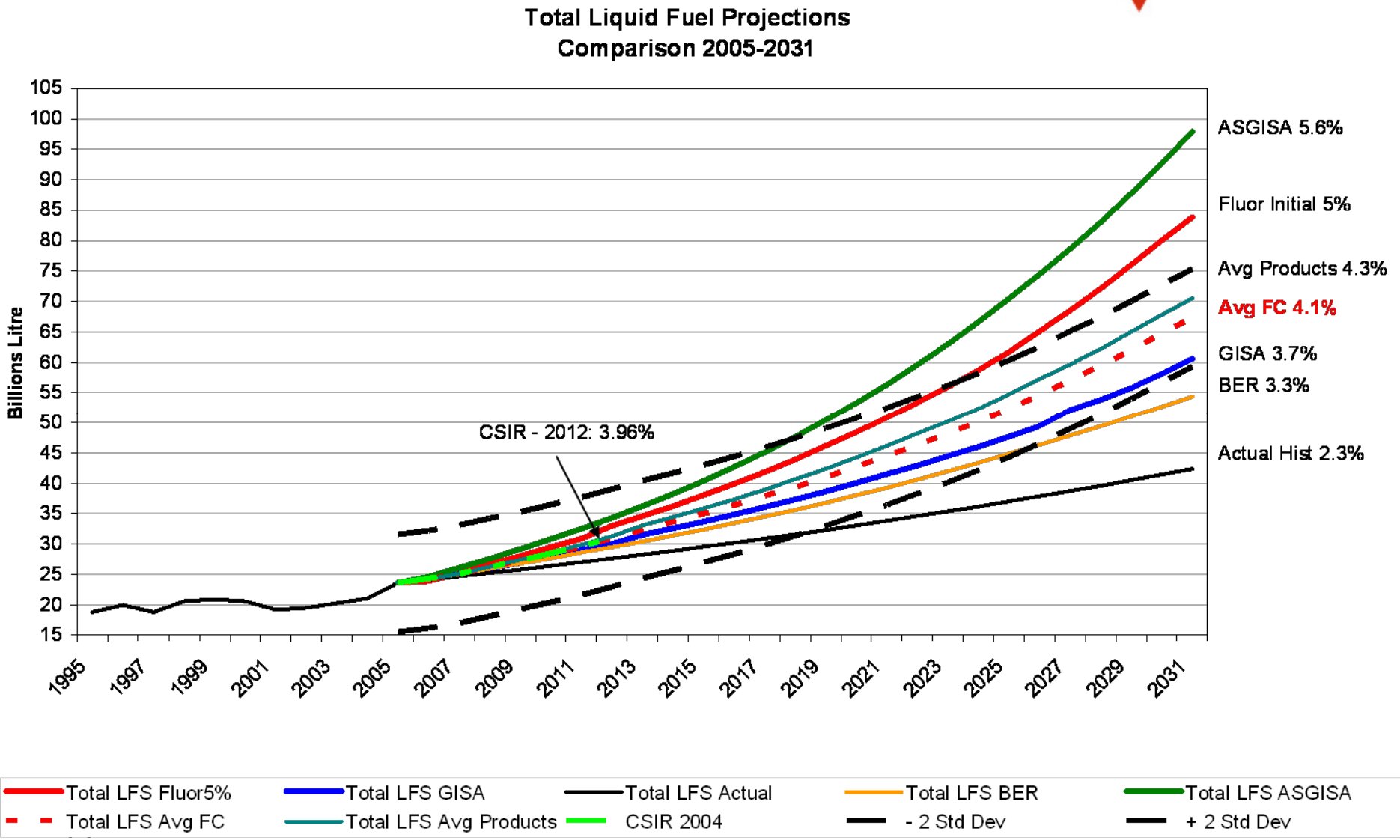


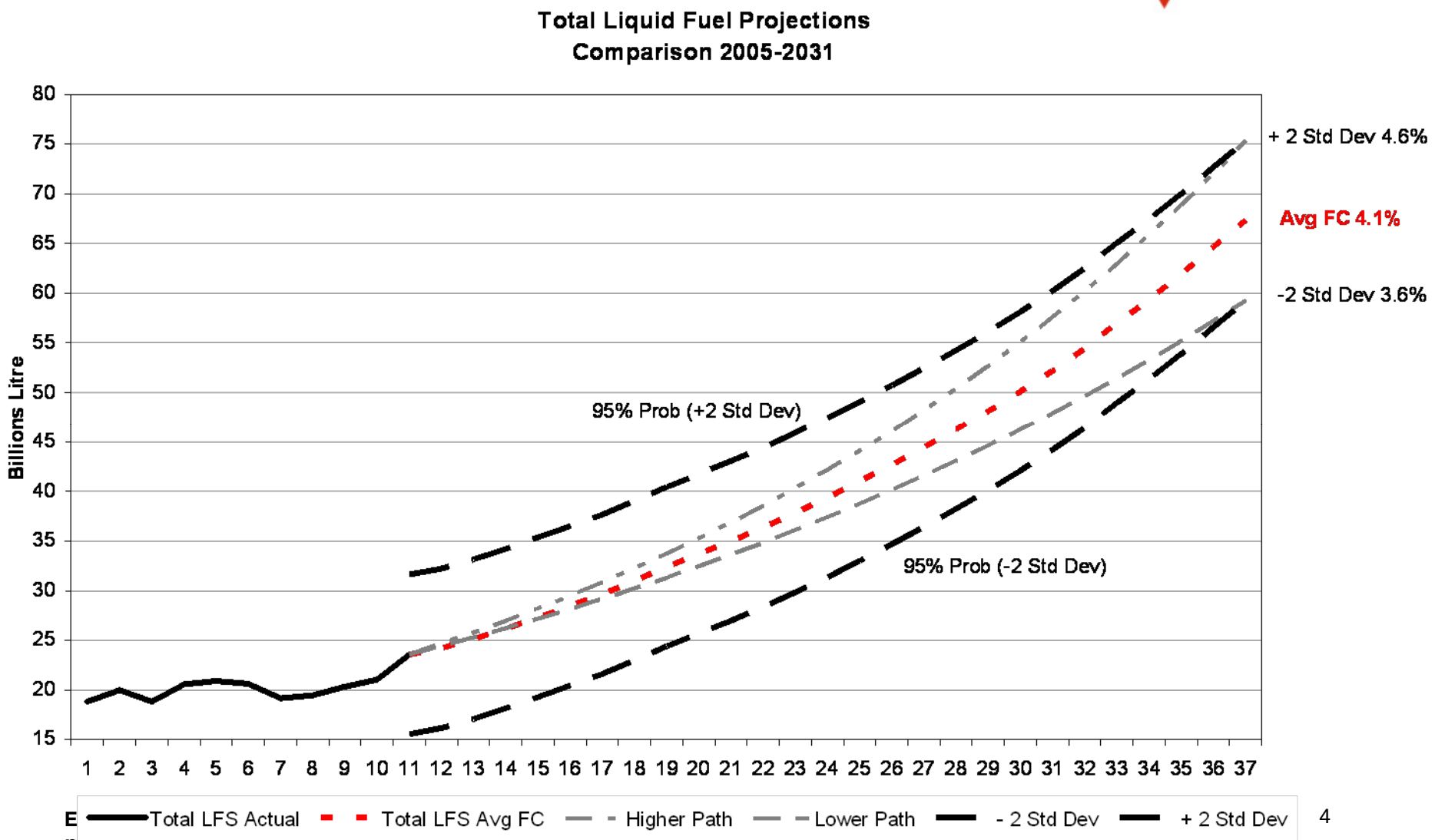
pipelines, November 08

Liquid Fuels Growth Forecasts



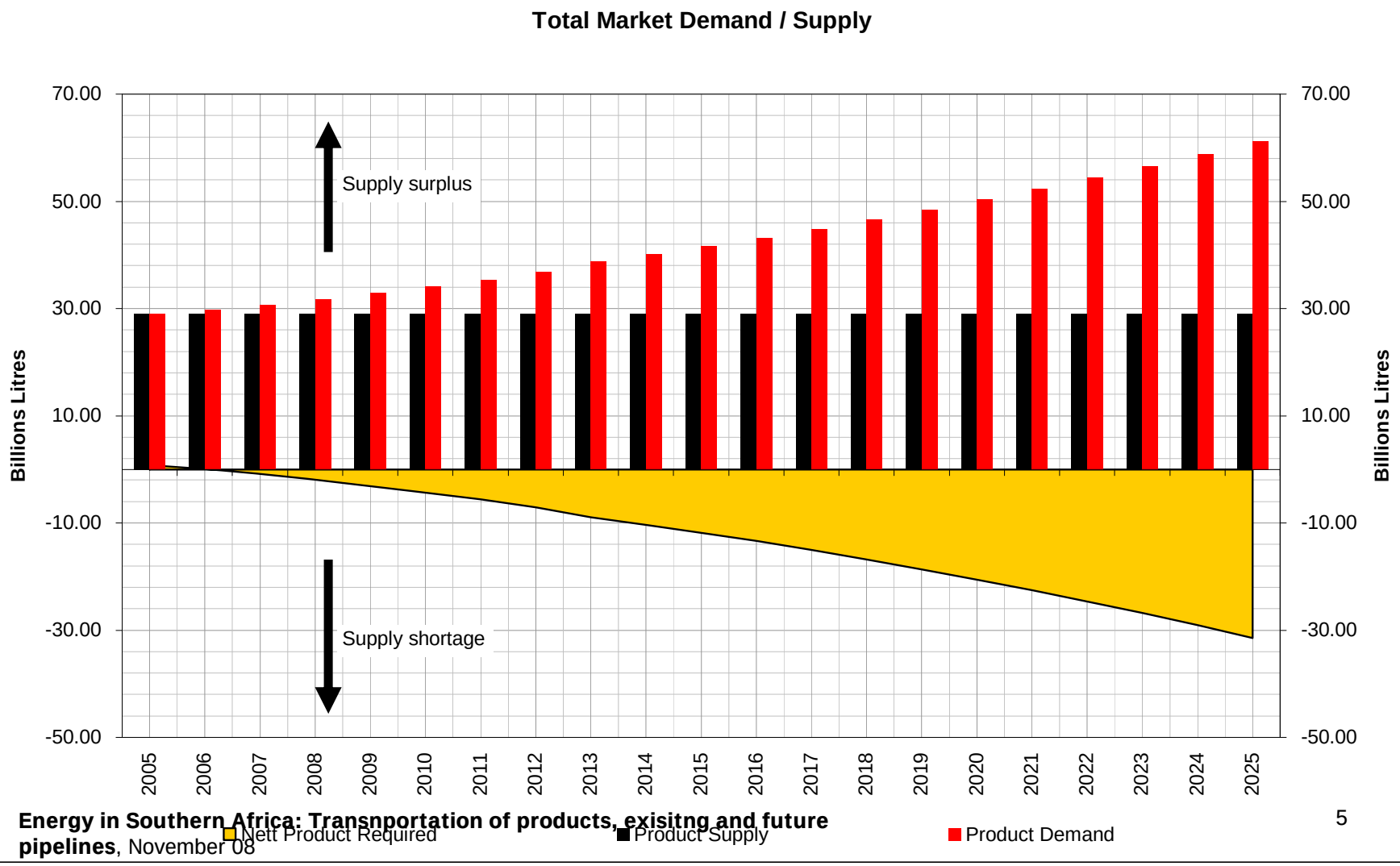
Liquid Fuels Demand

Basis for NMPP Sizing



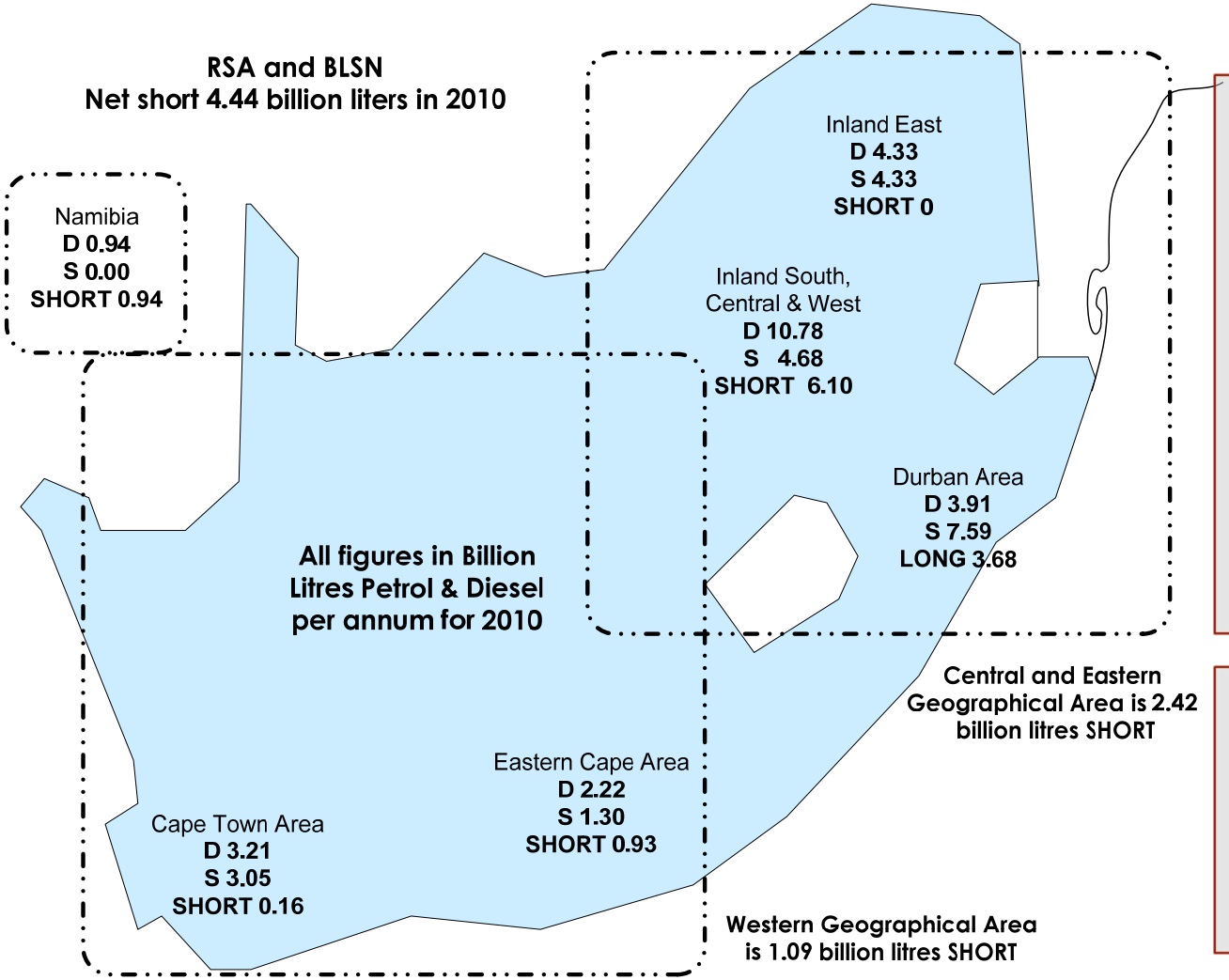
RSA Supply and Demand

2005 to 2025



2010 Liquid Fuels Supply & Demand

RSA, Botswana, Lesotho, Swaziland and Namibia



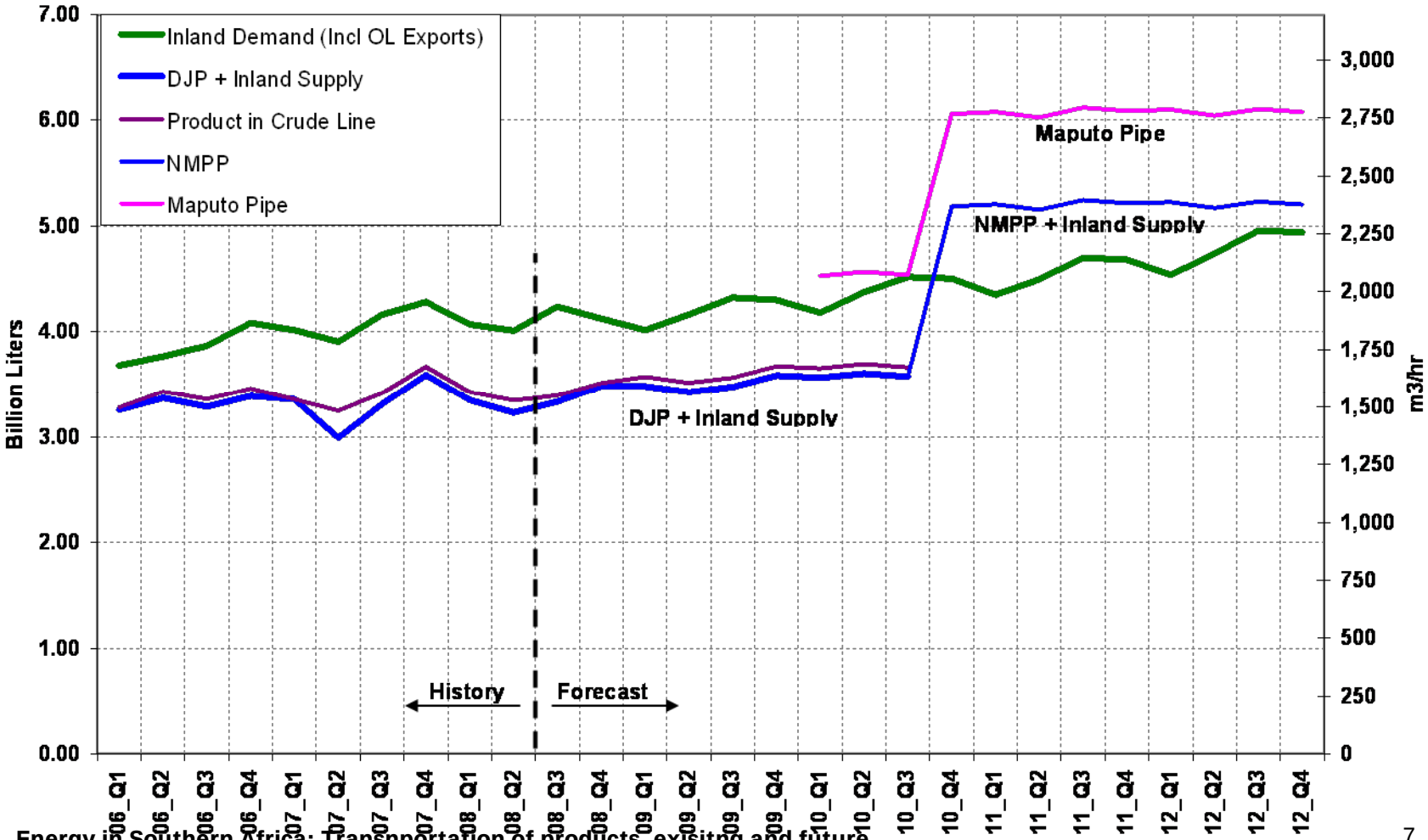
Inland liquid fuel market requirement to be supplied ex coast by pipeline is approx. 6.1 billion litres p.a. in 2010

Current DJP capacity with flow improvers approx. 4.26 billion litres p.a.

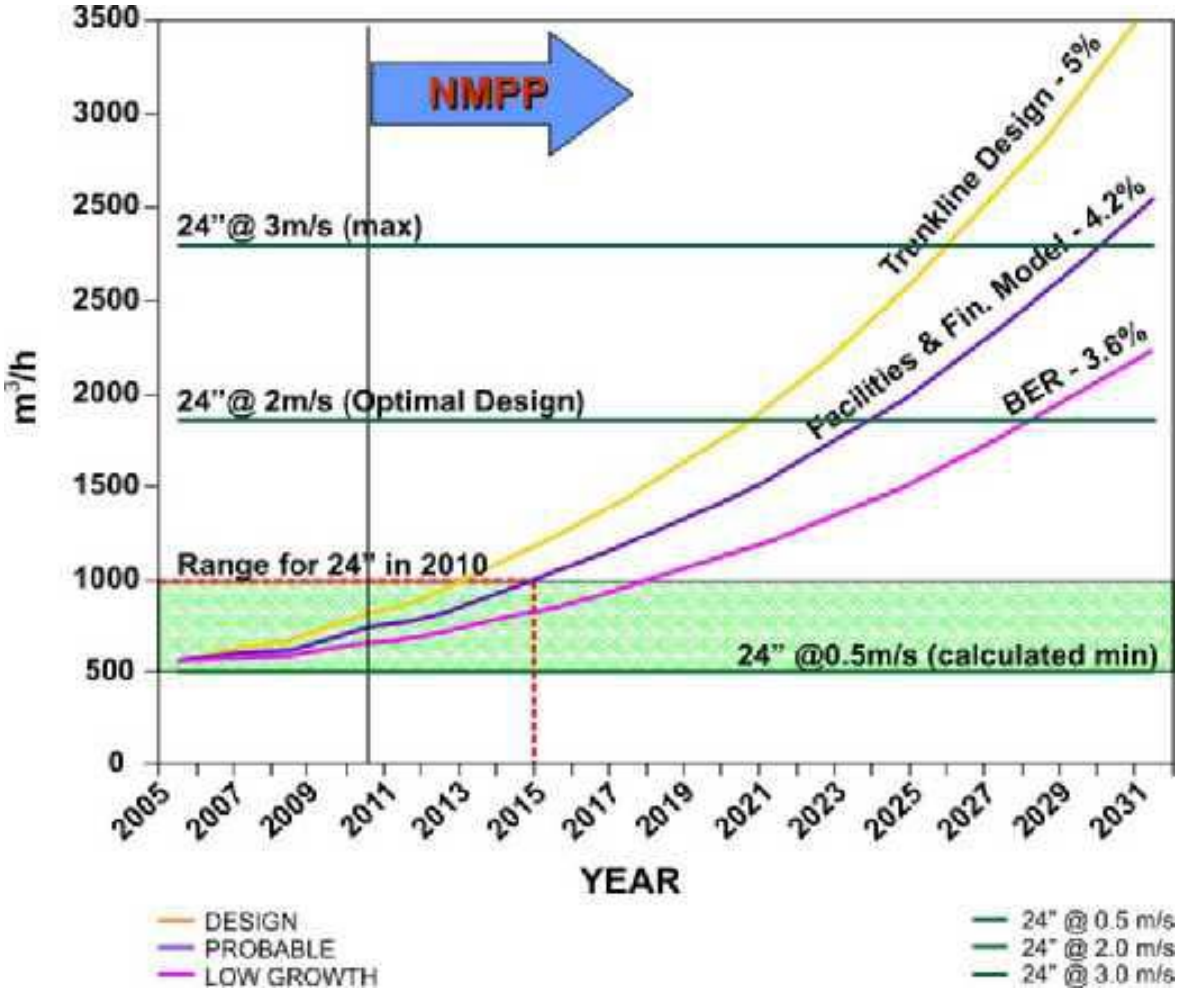
Region will be net short of product and imports are estimated to be approx. 4.44 billion litres in 2010.

Inland Supply and Demand

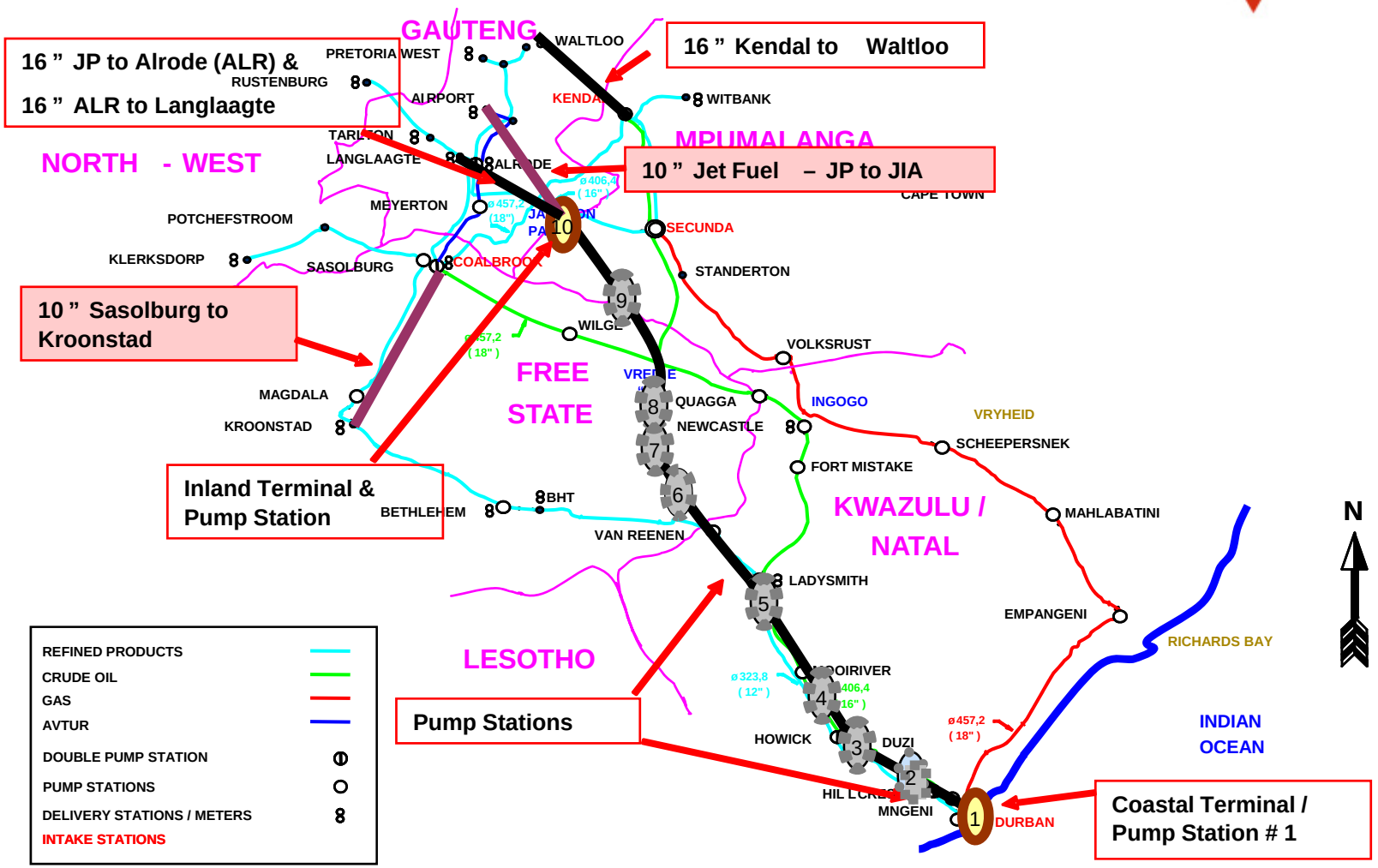
2006 to 2012



Design Basis NMPP



NMPP Configuration

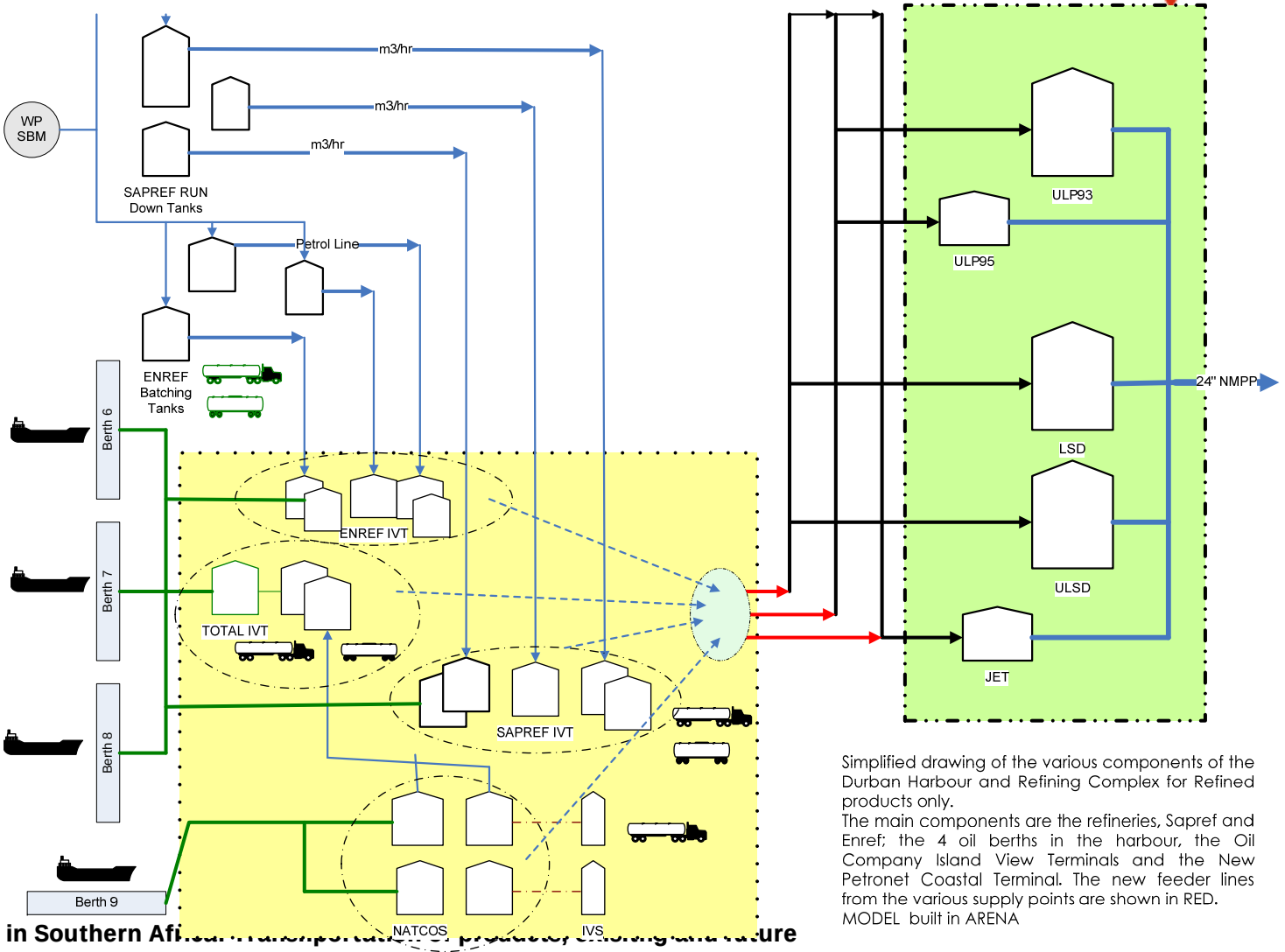


ANNEXURE A

NMPP Routing and Construction

Durban Supply Complex

Logical Flow Diagram



Simplified drawing of the various components of the Durban Harbour and Refining Complex for Refined products only.
The main components are the refineries, Sapref and Enref; the 4 oil berths in the harbour, the Oil Company Island View Terminals and the New Petronet Coastal Terminal. The new feeder lines from the various supply points are shown in RED.
MODEL built in ARENA

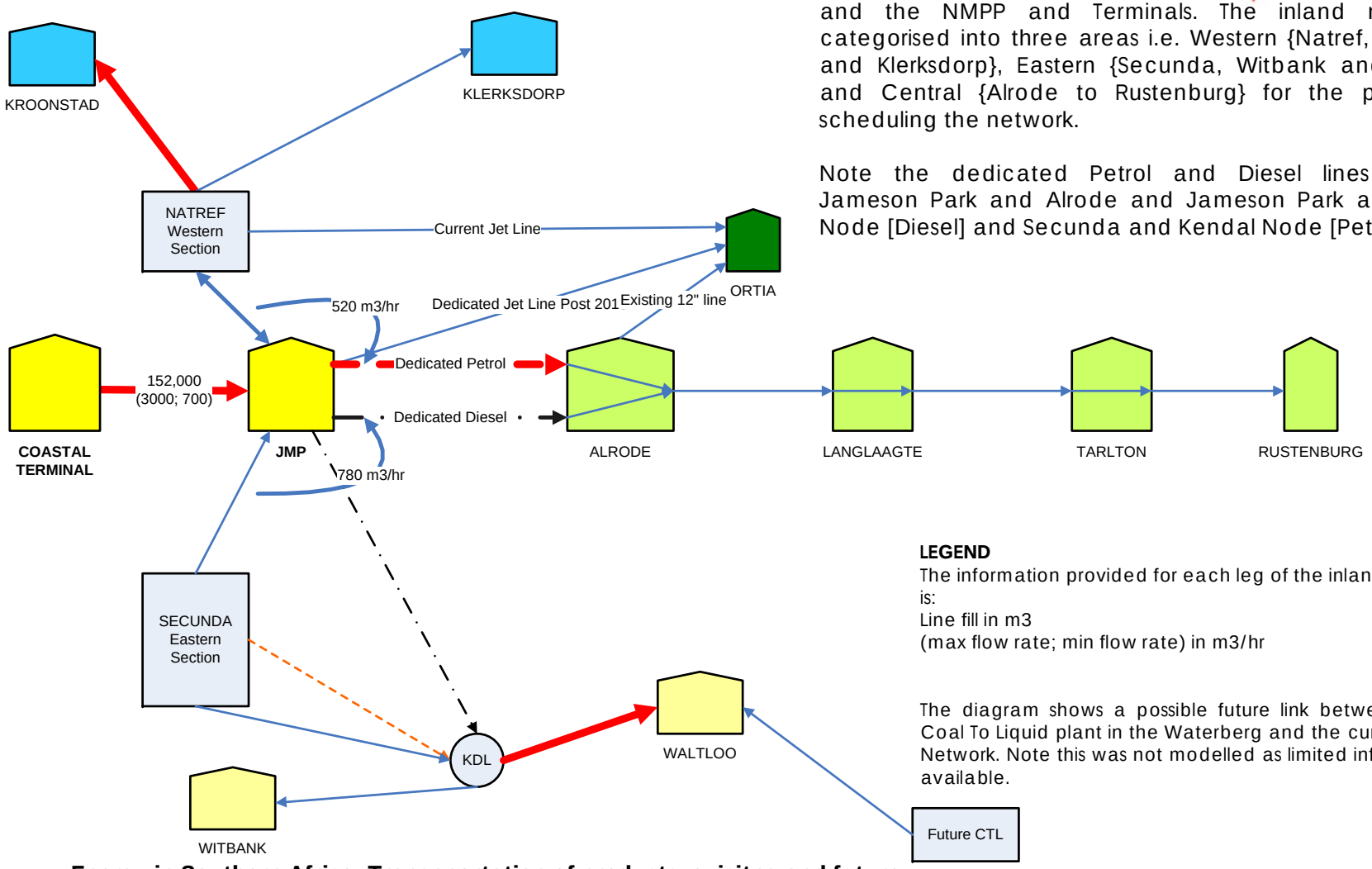
Coastal Terminal Site

Island View Durban

Development

PORTNET

Inland Liquid Fuels Network



The following diagram depicts the inland network depots and the NMPP and Terminals. The inland network is categorised into three areas i.e. Western {Natref, Kroonstad and Klerksdorp}, Eastern {Secunda, Witbank and Waltloo} and Central {Alrode to Rustenburg} for the purpose of scheduling the network.

Note the dedicated Petrol and Diesel lines between Jameson Park and Alrode and Jameson Park and Kendal Node [Diesel] and Secunda and Kendal Node [Petrol].

LEGEND
The information provided for each leg of the inland network is:
Line fill in m3
(max flow rate; min flow rate) in m3/hr

The diagram shows a possible future link between a new Coal To Liquid plant in the Waterberg and the current inland Network. Note this was not modelled as limited information is available.

Petroline ex Maputo to Kendal

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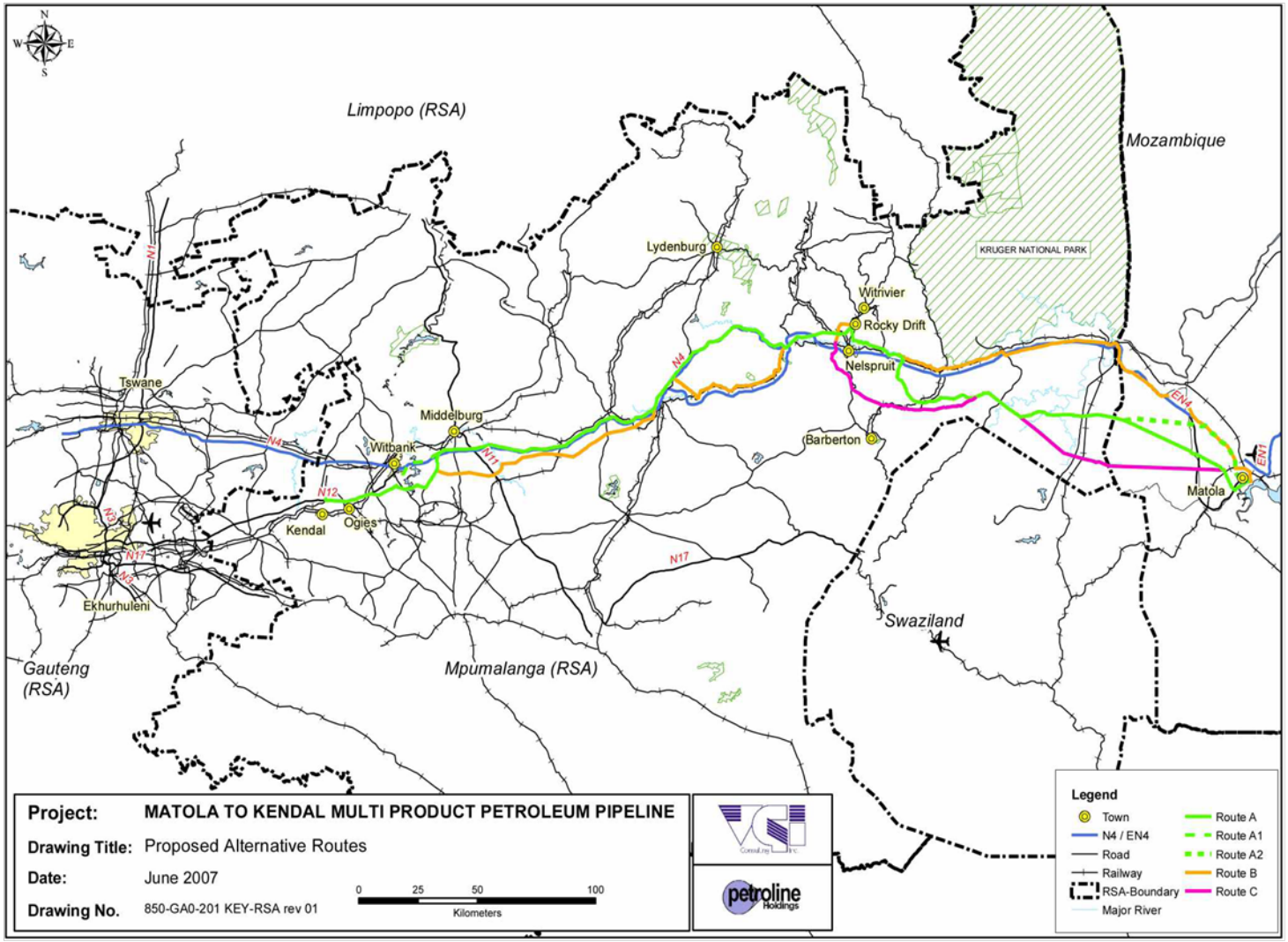

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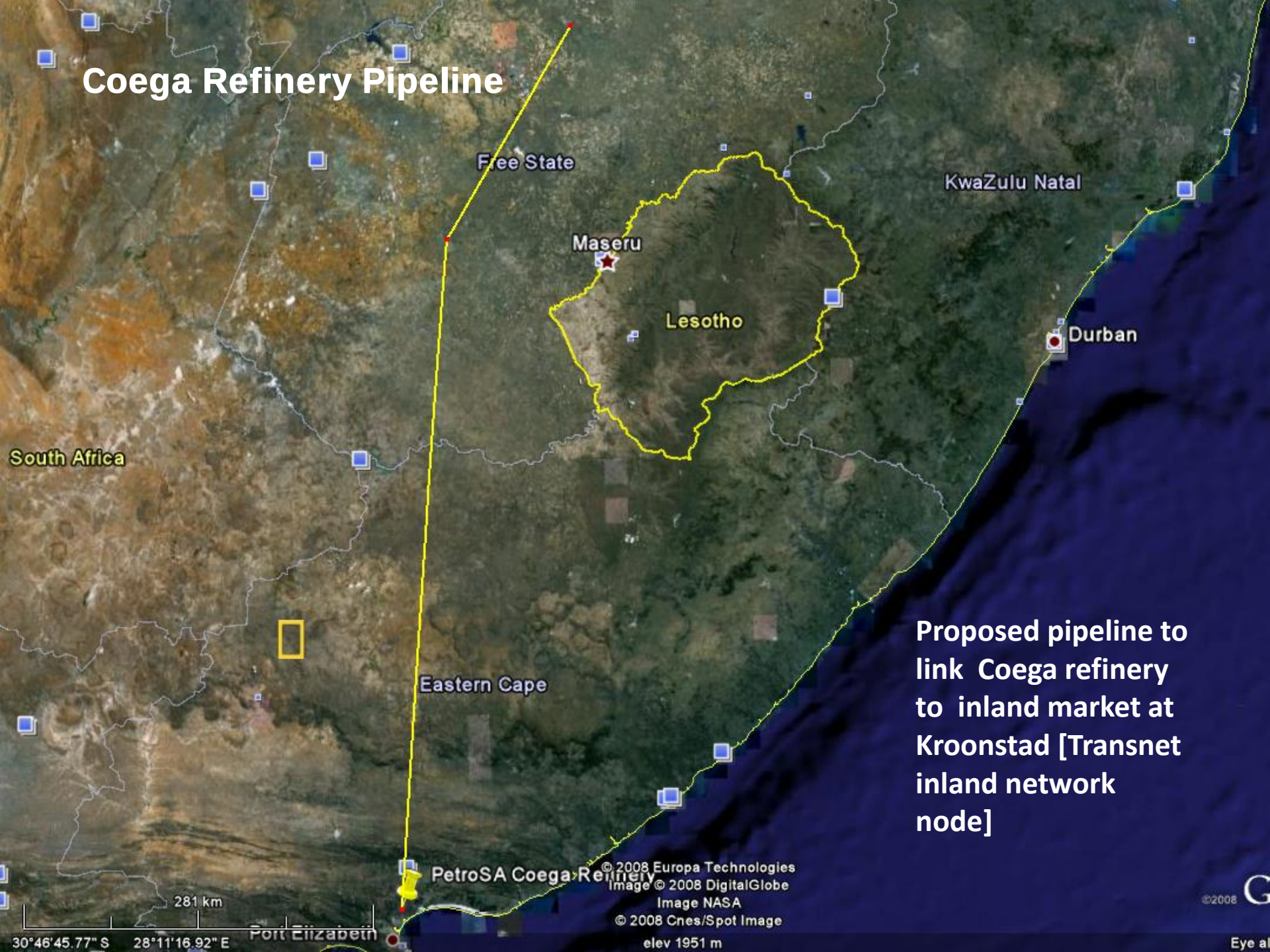
Final stages of EIA

Terminals at Matola in Maputo and Kendal

Estimated commissioning date ~ early 2011


Coega Refinery Pipeline
Free State
KwaZulu Natal
Maseru
Lesotho
Durban
South Africa
Eastern Cape
PetroSA Coega Refinery
© 2008 Europa Technologies
Image © 2008 DigitalGlobe
Image NASA
© 2008 Cnes/Spot Image
elev 1951 m
281 km
30°46'45.77" S
28°11'16.92" E
Port Elizabeth
Proposed pipeline to link Coega refinery to inland market at Kroonstad [Transnet inland network node]

THANK YOU