



**PetroSA**

**PetroSA's Role  
in Building the  
South African  
Upstream  
Industry**

**Everton  
September  
29 July 2010**





PetroSA

# PetroSA Upstream and Midstream

- **Gas Production**



- **Gas-to-Liquids**



- **Oil production**



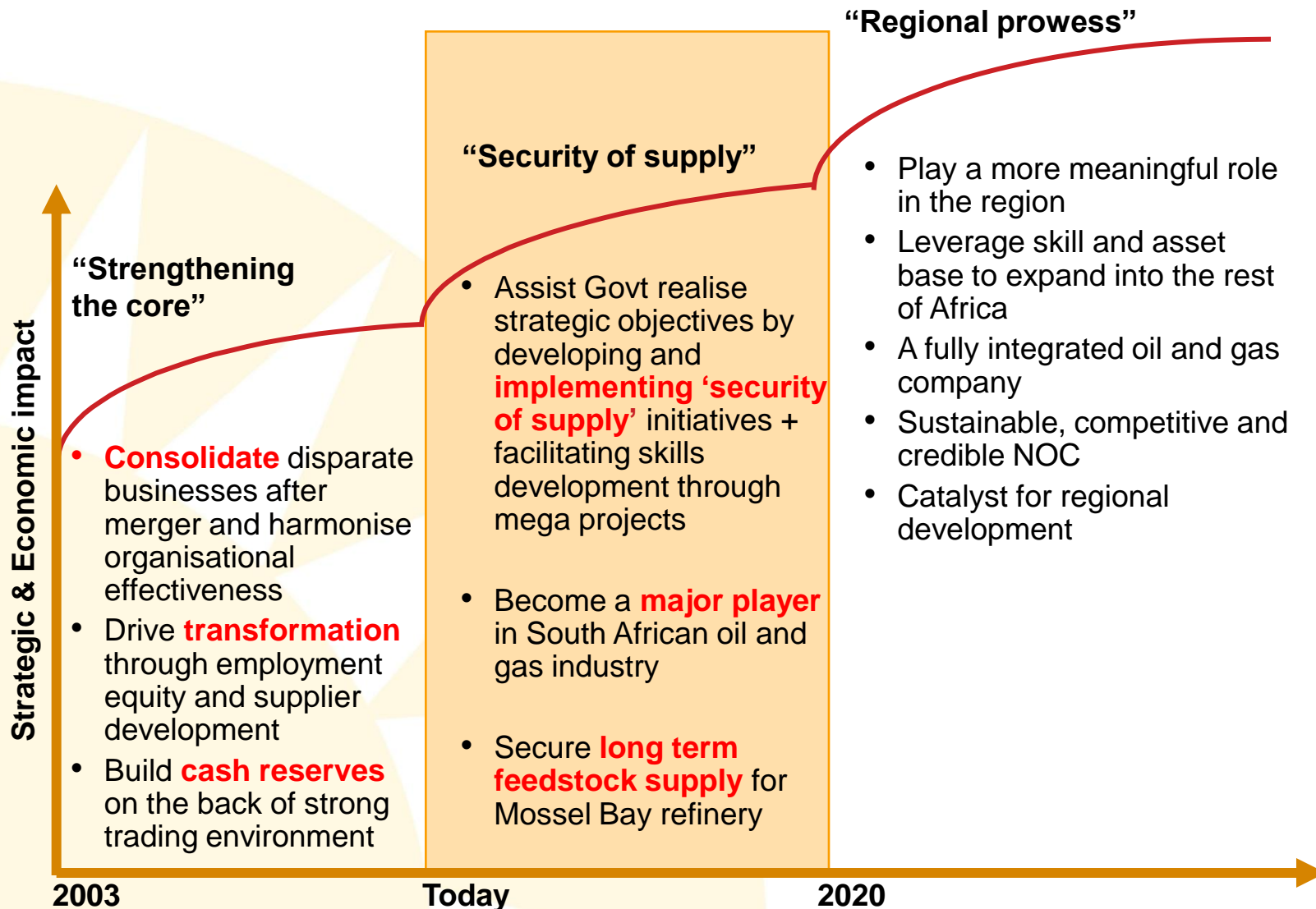
- **International E&P**



- South Africa's national oil company,
- Established in 2002\*,
- Business spans entire petroleum value chain,
- Owns the world's 2<sup>nd</sup> largest GTL refinery,
- Produces eco-friendly diesel, gasoline, kerosene and specialty products,
- Produced ~70 MMbbl of crude from Oribi, Oryx and Sable,
- Produced ~ 1 tcf of natural gas,
- Employs about 1800 people,
- Operates in at least 3 other countries in Africa
- Has trading offices in Rotterdam & Houston
- Produces 5% of South Africa's fuel needs.



# Our focus is on assisting Government meet security of supply, as well as facilitating skills development in the energy sector





# Indigenous Resources: Domestic gas is produced via the FA platform

- 100 km south of Mossel Bay
- 220 m high
- 105 m water depth
- 9 platform wells, 14 subsea wells
- 7 wells by remote control through EM buoy





PetroSA

# GTL plant – Mossel Bay



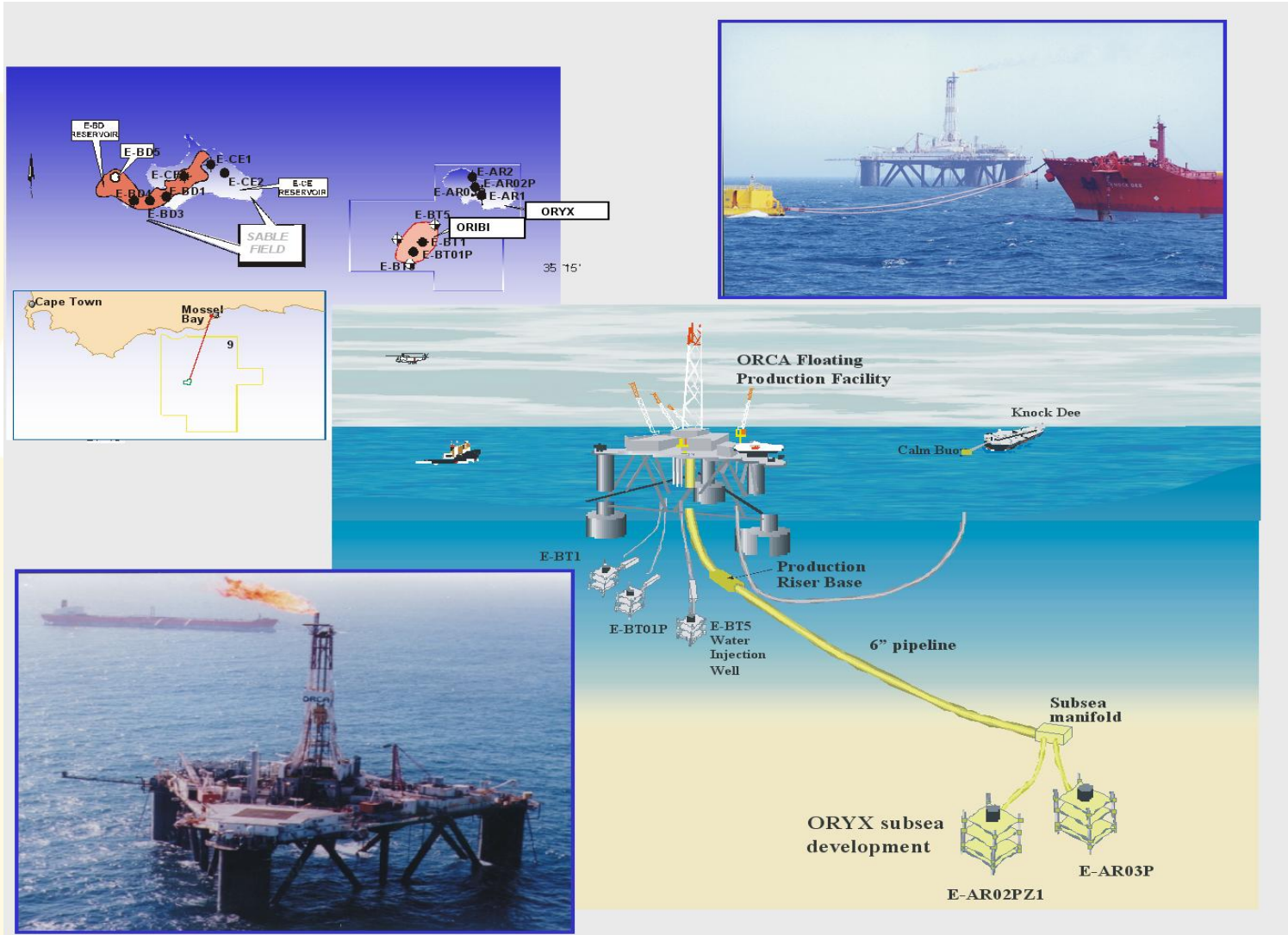
- Gas-to-Liquids (GTL) conversion through Fischer-Tröpsch process
- World's 2<sup>nd</sup> largest commercial natural gas to fuels plant
- Just above 200 MMscf natural gas (73 bcf per year) and 12,000 bbls condensate per day (Design)
- 36,000 bbls finished product per day
- Initial investment in excess of R10 billion
- Commissioned in April 1992
- Has developed and proved, on a semi-commercial scale, unique award winning LTFT technology



PetroSA

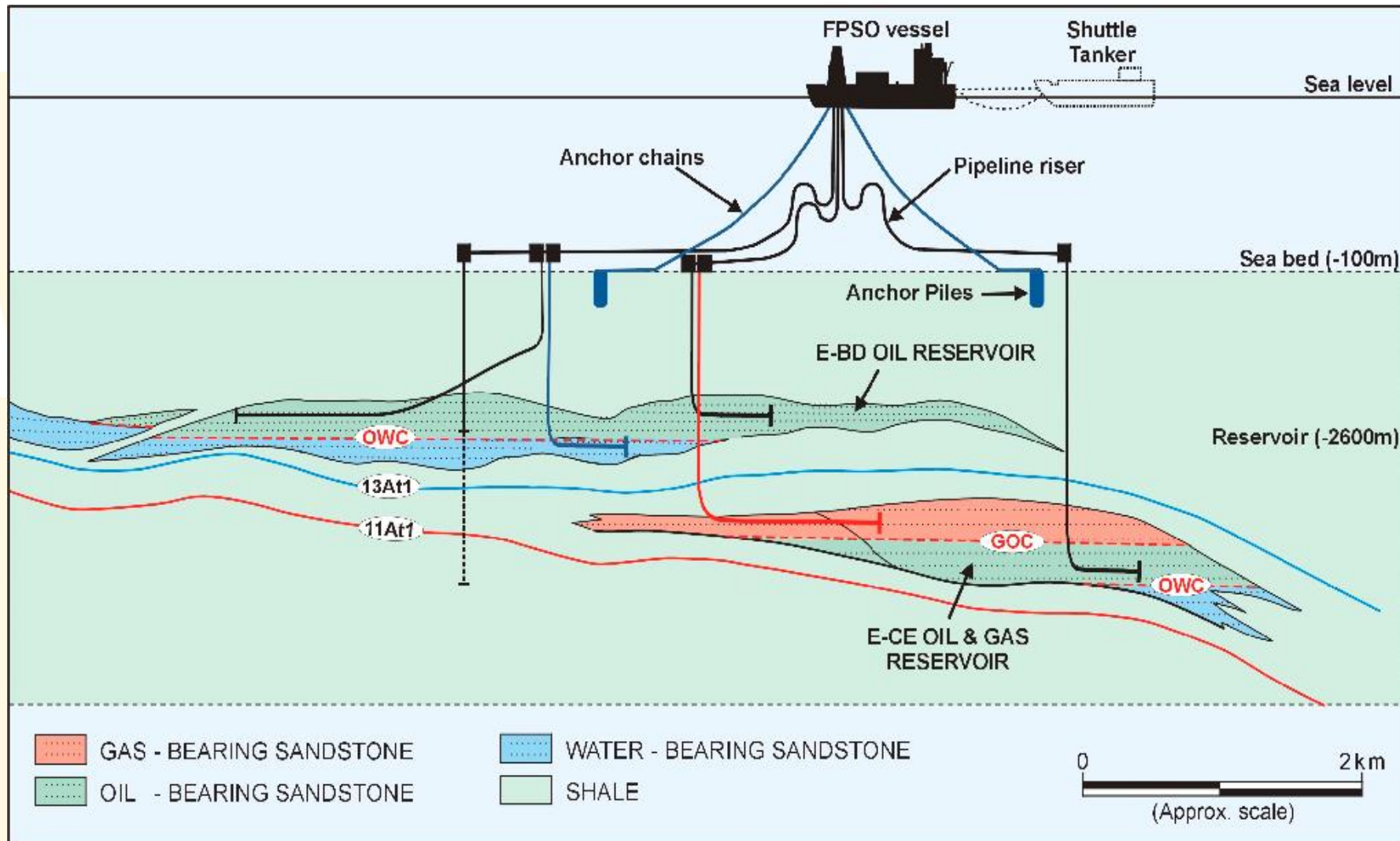
# Oribi (1997) and Oryx (2000) oil fields

South Africa's first crude oil production, still producing





# Sable oil field (2003-2008), now producing gas to F-A platform





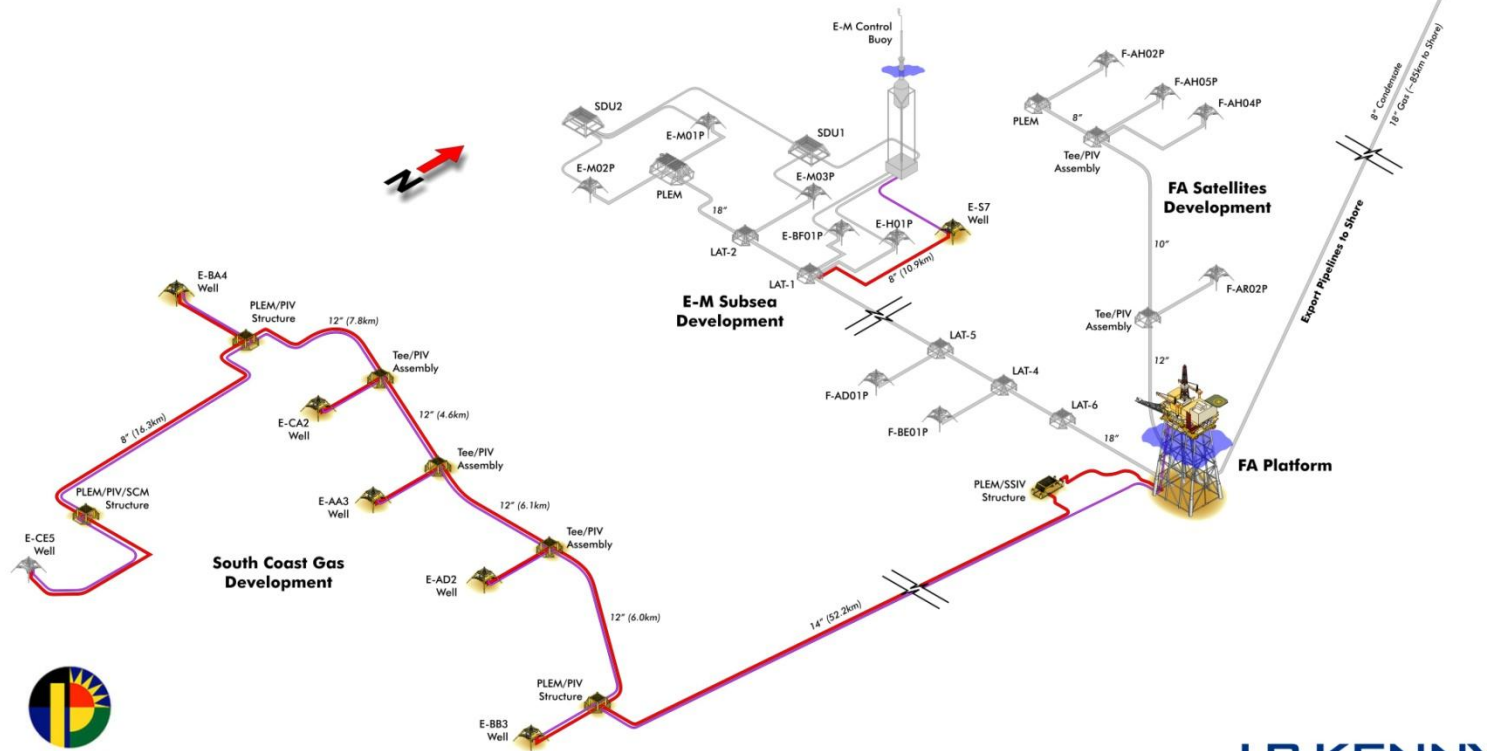
PetroSA

# 5 additional South Coast Gas fields (2008) pipelined 100km to F-A Platform

## South Coast Gas Development Overall Field Layout

### KEY

- Production/MEG Pipeline
- Control/Chemical Injection Umbilical
- Existing Pipelines



J P KENNY

U:062374.1\South Coast Field Layout.odt



PetroSA

# **PetroSA / Upstream Industry Sustainability Initiatives**

## **F-O Gas Field Development**

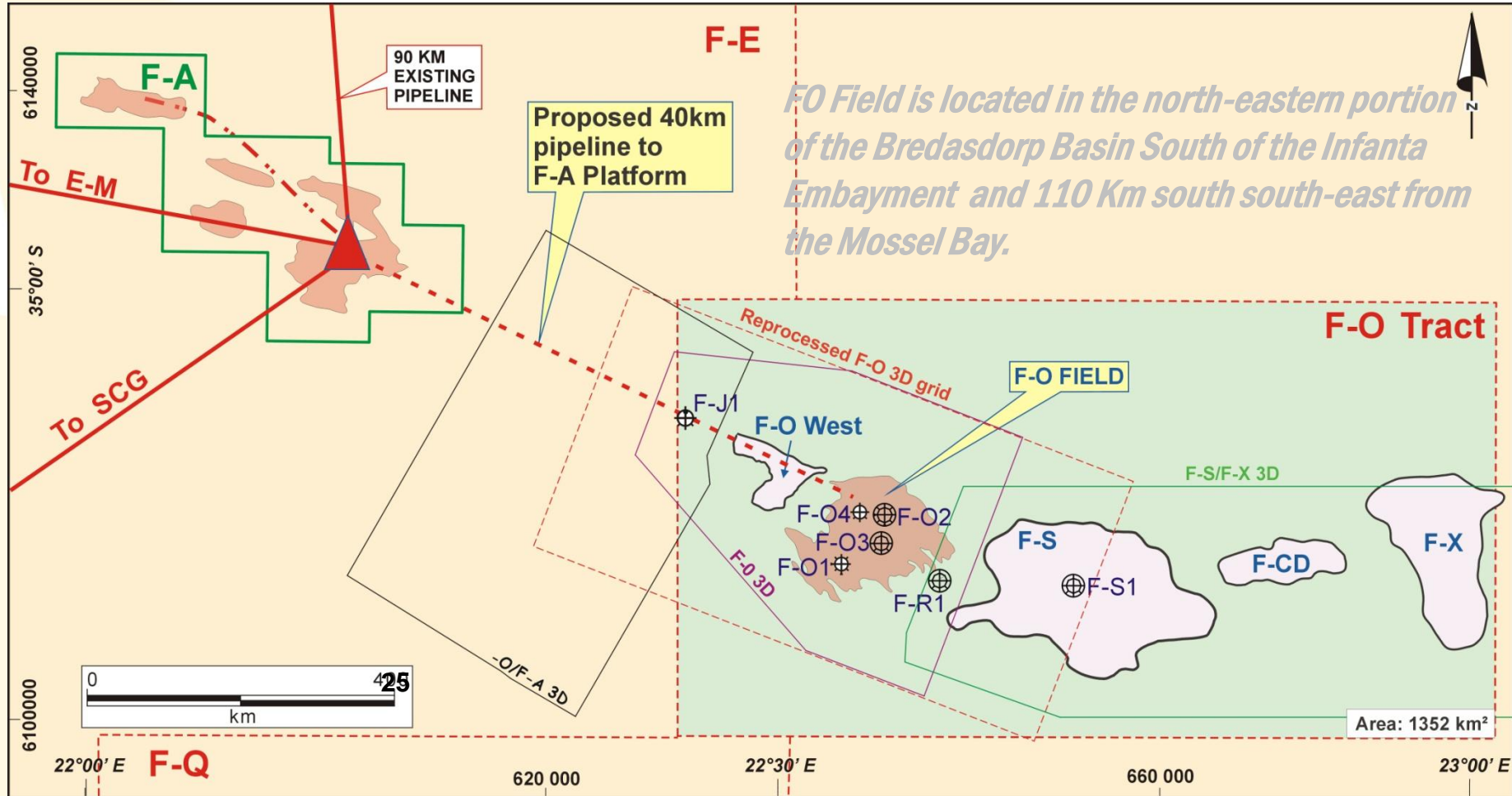
## **West Coast Exploration / Appraisal**



PetroSA

# Future Gas - F-O Gas Field

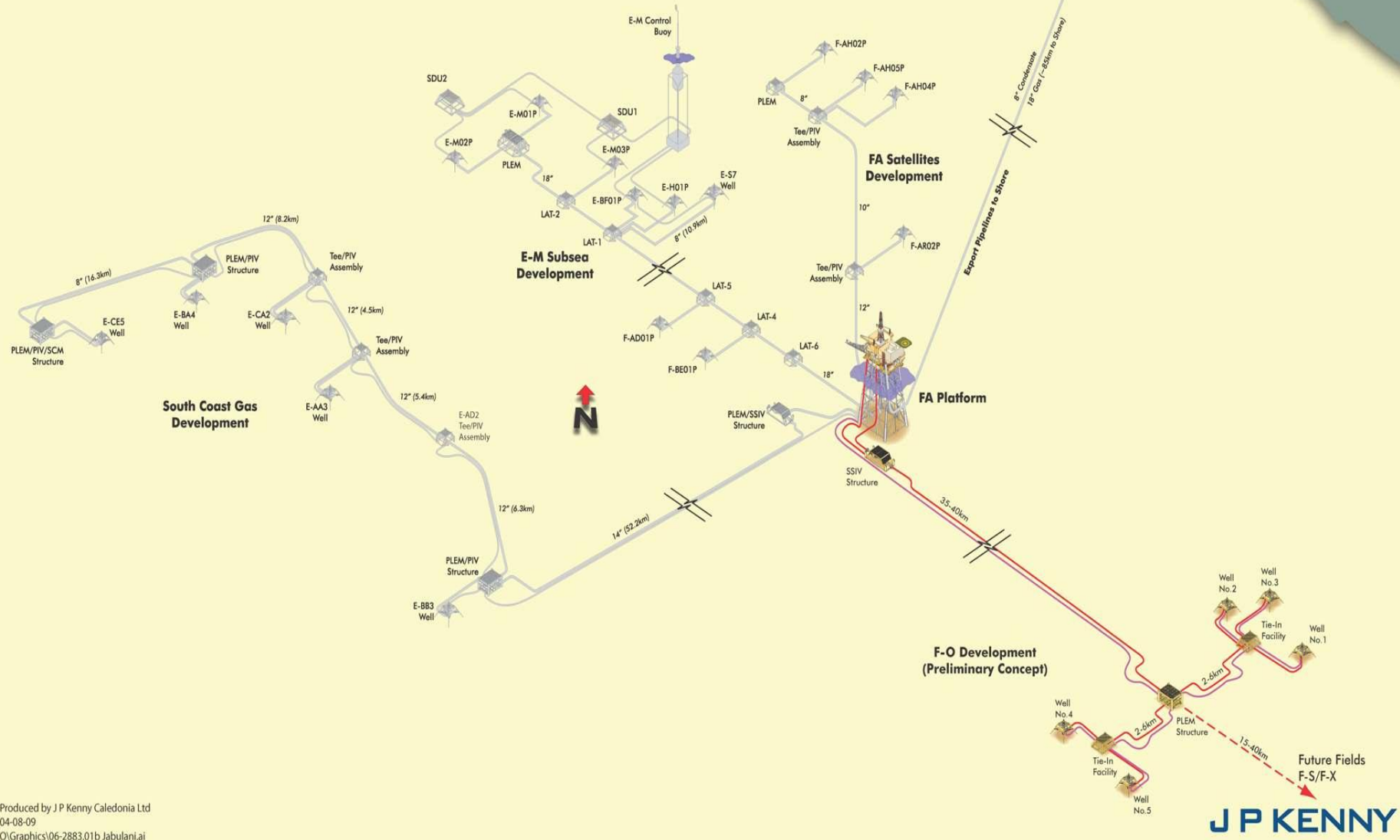
**FO Field – 1TCF**  
**FO Tract 2-3TCF**



SOUTH AFRICA

MOXSELE BAY

- KEY**
- Production/MEG Pipeline
  - Control/Chemical Injection Umbilical
  - Existing Pipelines



Produced by J P Kenny Caledonia Ltd  
 04-08-09  
 O:\Graphics\06-2883.01b Jabulani.lai

**J P KENNY**



PetroSA

# PetroSA's South African Exploration Blocks



# Typical Upstream Project Services

## Mainly International Contractors – Opportunities for Local Contractors



**Sable FPSO Upgrade - \$60 million local content and BEE**

FPSO Upgrades

Drilling Rig repairs

Drilling – multiple contracts for materials and services

Subsea Trees and Controls – One EPIC Contract

Pipelines, umbilicals and subsea facilities – One or two EPIC contracts

Line Pipe Coating and Logistics – One or two separate contracts

Platform modifications – multiple contracts for materials and services

**Thank you**

**[www.petrosa.co.za](http://www.petrosa.co.za)**

