

APPEX CONFERENCE

MOZAMBIQUE: INCREASING THE VALUE OF GAS



LONDON 2019



BY: ENH MONICA JUVANE,
SENIOR GEOLOGIST

PRESENTATION LAYOUT

1

Mozambique Location

2

Oil & Gas Shares & Structure

3

Rovuma Basin Gas Resources

4

The LNG Liquefaction Plants

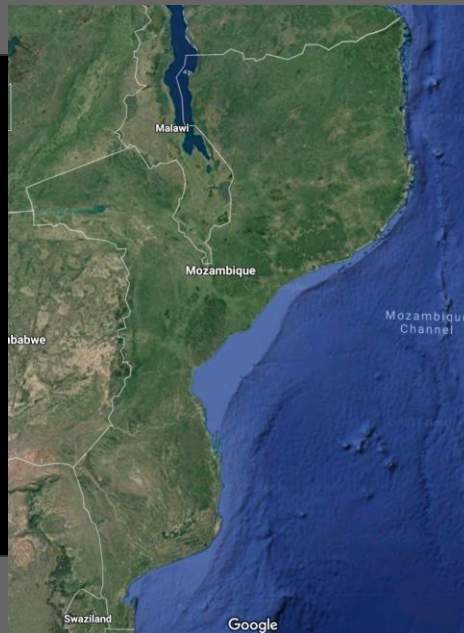
5

Mozambique Gas Master Plan

6

Final Remarks

MOZAMBIQUE LOCATION VS POPULATION GROWTH



GDP

3.2

POPULATION

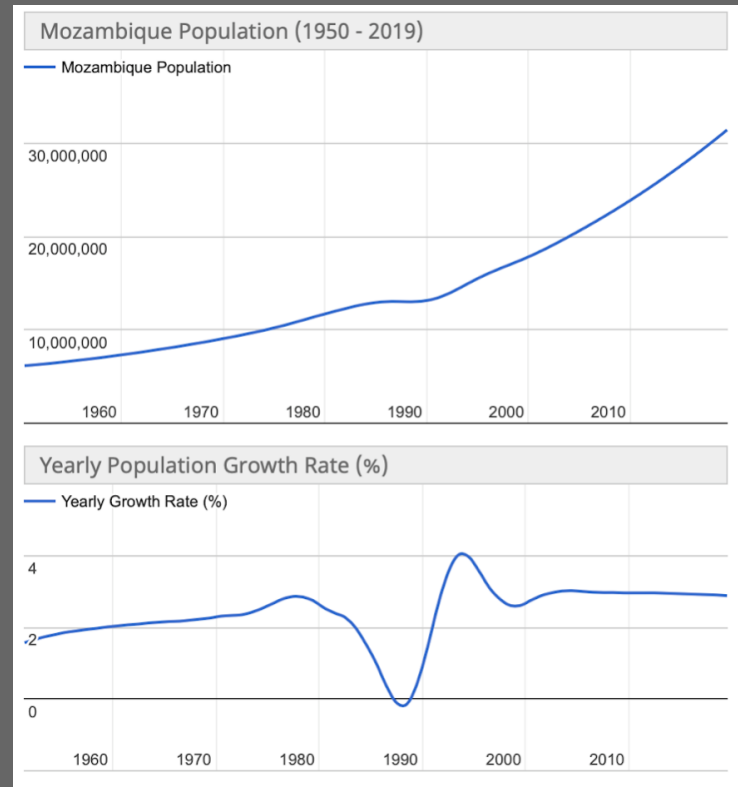
31.118.551

CURRENCY

Metical (\$1.0 - 62,4 Mt)

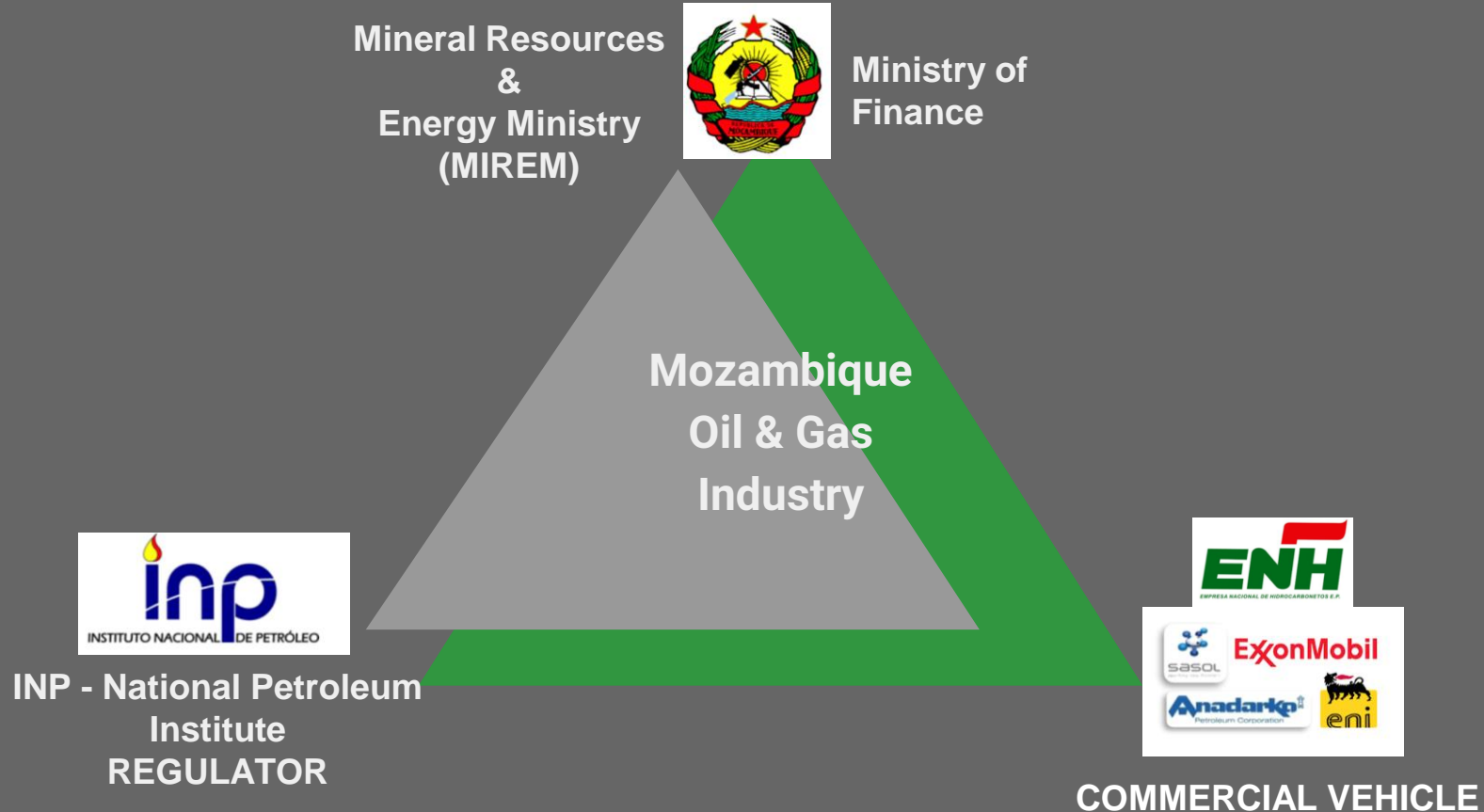
GROWTH RATE

2.88%/YEAR



Source: World metro

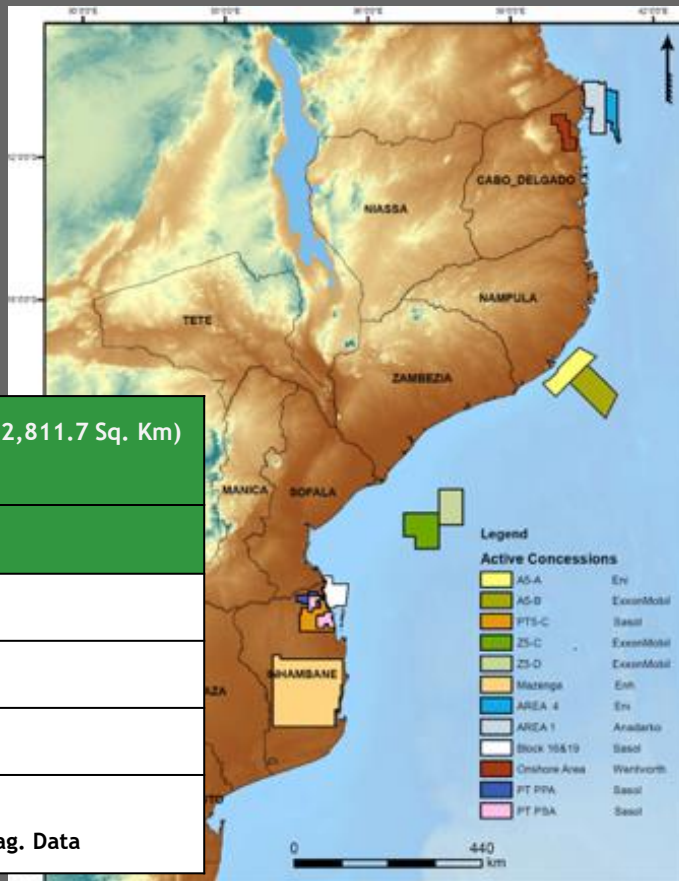
MOZAMBIQUE OIL & GAS STRUCTURE



ENH SHARES PARTICIPATIONS IN OIL & GAS ACTIVITIES

FARMIN BLOCK

| ONSHORE - MAZENGA BLOCK | % | AREA MAZENGA (22,811.7 Sq. Km) |
|-------------------------------|-----|---|
| Operator | 100 | ENH |
| First Period Duration: | | 2 Years |
| First Financial Commitment: | | 25 M\$ |
| First Period Work Commitment: | | N/A |
| First Period Work Commitment: | | 1,500 km of 2D 15,000 km Grav. Mag. Data |



AMA1 15%
Area#4 10 %
Rov Onshore 30%

Angoche
A5-A 15%

Zambeze
A5-B/Z5-C/Z5-D 20%

PT/PSA 30%
PT5 - C 20%

ENH STRUCTURE vs ENH SPV's

EXPLORATION INFRASTRUCTURES



PRODUCTION



TRANSMISSION



DISTRIBUTION



JV CONCEPT PHASE

SHIPPING



UPSTREAM
PARTNERS



ExxonMobil



OIL & GAS
AGGREGATOR



enmar



subsea 7

FROM THE GAS DISCOVERIES TO ECONOMIC GROWTH

Massive Gas Fields Discovered Off Mozambique

International energy companies say they have discovered potentially massive natural gas fields off the coast of Mozambique.

The Italian energy firm ENI last month announced two major finds in the Mamba South gas field off Mozambique's northeastern coast. The company said the field, located 45 kilometers off Cabo Delgado province, could yield more than 22 trillion cubic feet of natural gas.

The announcement follows that of the American oil company Anadarko, which said its gas fields in the same area could yield up to 10 trillion cubic feet of natural gas. And, Britain's Cove Energy PLC estimates its exploration field in the same area could eventually yield 40 trillion cubic feet of gas.

Gas flows are expected to come on line between 2014 and 2016.

"It is big," noted Tony Twine is director and senior economist at Econometrix, South Africa's largest independent macro-economic consultant firm. "It would provide about \$150 billion at 2010 gas prices, it really is a significant find. Incidentally, \$150 billion is equivalent to ten full years of Mozambique gross domestic product. So relative to their other sources of income, this is massive."

Twine says the fields are huge by any standards and promise an enormous financial windfall for the country.

Boom time for Mozambique, once the basket case of Africa

As African lions outpace Asian tigers, one of the world's poorest states is moving from civil war bust to boom - but who will gain?

Massive gas discovery transforms Mozambique backwater into boomtown

Mozambique: Gas discovery with first deep-water well

FINAL CHANCE TO BOOK YOUR PLACE!

Support The Guardian

Available for everyone, funded by readers

Contribute → Subscribe →

The Guardian

Search jobs · Dating · Sign in · Search · UK edition ·

News · Opinion · Sport · Culture · Lifestyle · More ·

World · Europe · US · Americas · Asia · Australia · Middle East · Africa · Inequality · Cities · Global development

Mozambique

Sub and

DANGOTE

Massive gas discovery transforms Mozambique backwater into boomtown

Updated 1246 GMT (2046 HKT) February 3, 2015

News & buzz

Warner: Trump overrides advice of intelligence community

Eni Barnett calls out Trump's lie about Jared Kushner

Read M&A INSIGHTS

you won't find elsewhere

PROJECT STRUCTURE VS LIQUEFACTION PLANT

ROVUMA LNG PROJECTS



18.000 Ha for
constructions project
Future Gas City

2 Liquefaction
plants 12.88 mtpa

AMA1, ENH, Mitsui
E&P, ONGC
Videsh, Bharat
Petroleum
Resources, PPT



I Phase: 2
Liquefaction plants
7.8 mtpa

ENI, CNPC, EXXON
MOBIL, ENH,
KOGAS, GALP

THE ROVUMA BASIN MAIN DISCOVERIES & LNG PROJECTS



FID LNG PROJECT ON STREAM

- 2 trains LNG Facility
- 12.88 mtpa
- 5000 construction phase job
- 1500 long term jobs for mozambicans



MOZAMBIQUE GAS MASTER PLAN - MGMP



REPUBLIC OF MOZAMBIQUE
CABINET COUNCIL

NATURAL GAS MASTER PLAN



Adopted at the 16th Ordinary Session of the Council of Ministers

24th June 2014

Growth in domestic public and private sector institutional competencies;

Growth in domestic industry and businesses, especially small and medium scale industries

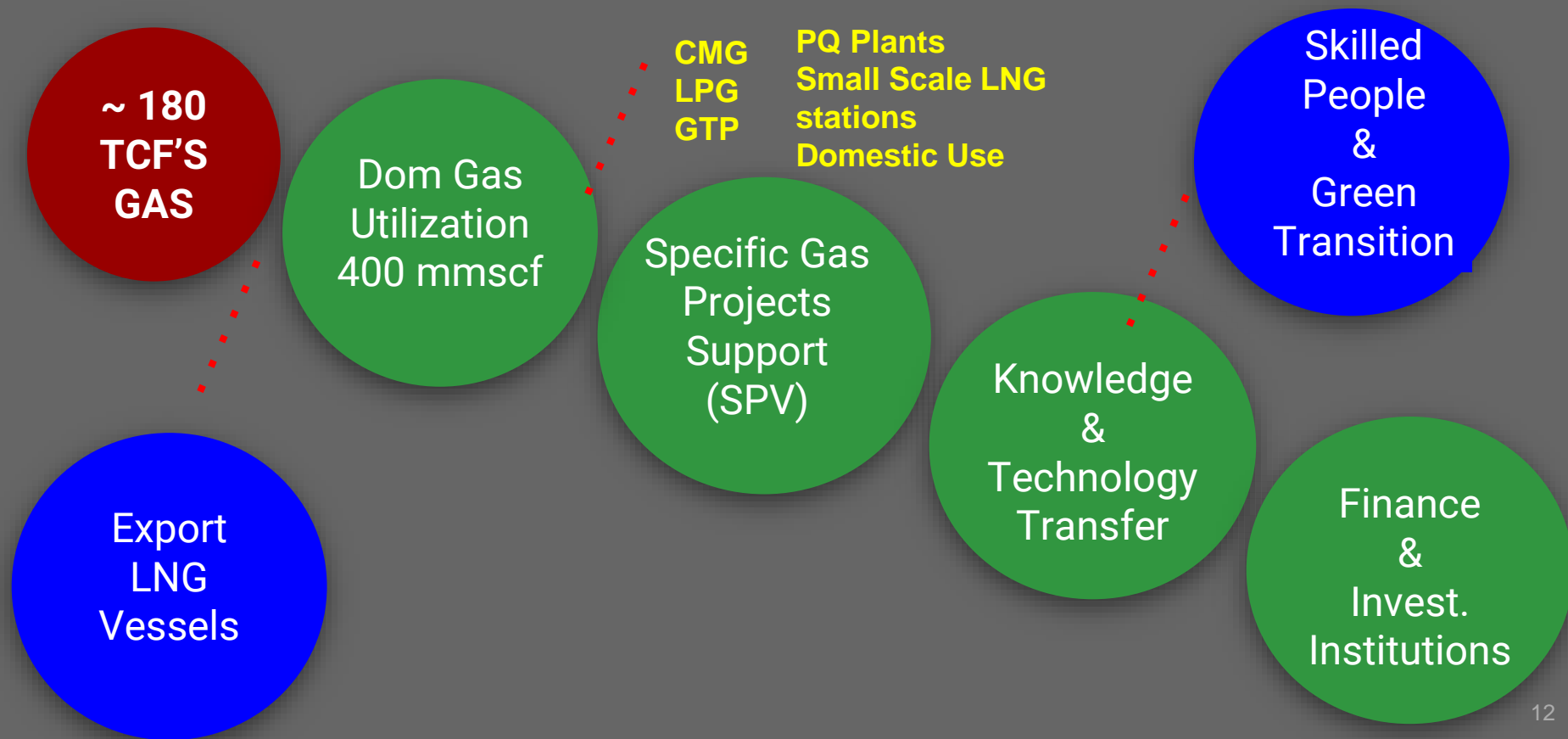
Increased employment across the country, especially less developed provinces

Infrastructure to support expanded economic activities, especially in less developed provinces, and

Expanded access to training and education in order to improve the quality of life for the people of Mozambique,

while minimizing adverse social and environmental impacts

BUSINESS MODEL CHALLENGES



FINAL REMARKS

The country defines gas as source of their development:

The new assets Mazenga Block still open for farmin potentials investors

Gas utilization may grant the future development and welfare of the citizens

The domestic gas provision in the GMP with improve the economy of the country

Moving the a green world, Mozambique intent to find K-parthners in order to develop applicable BM along to gas the value chain

In order to improve the growth economy (GDP) and contribute to improve to the Paris Agreement and improve the SDG

THANK YOU FOR YOUR ATTENTION

