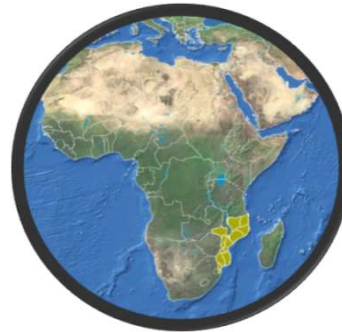




MINISTER OF MINERAL RESOURCE AND ENERGY

NATIONAL PETROLEUM INSTITUTE

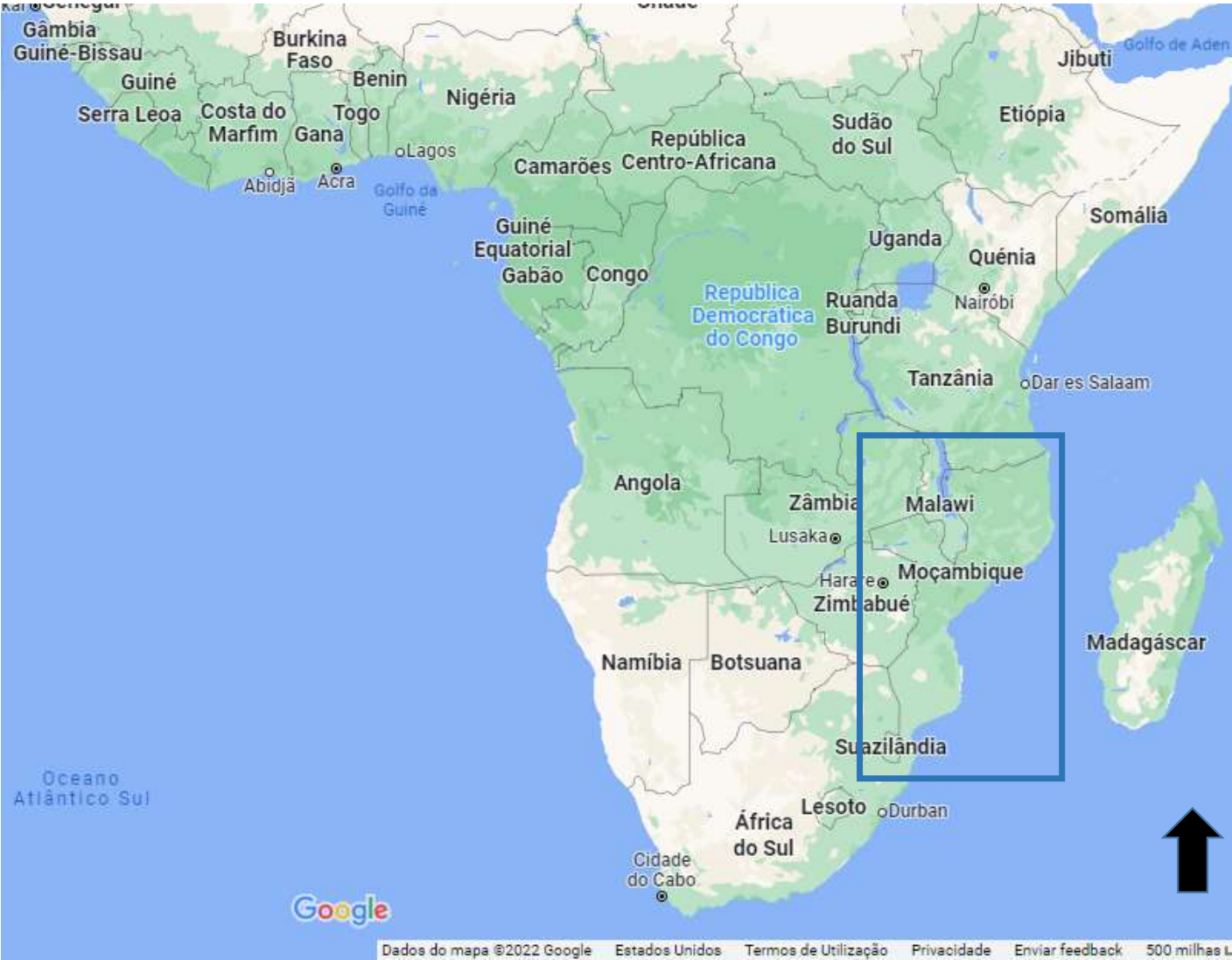
INVESTING IN MOZAMBIQUE



Content

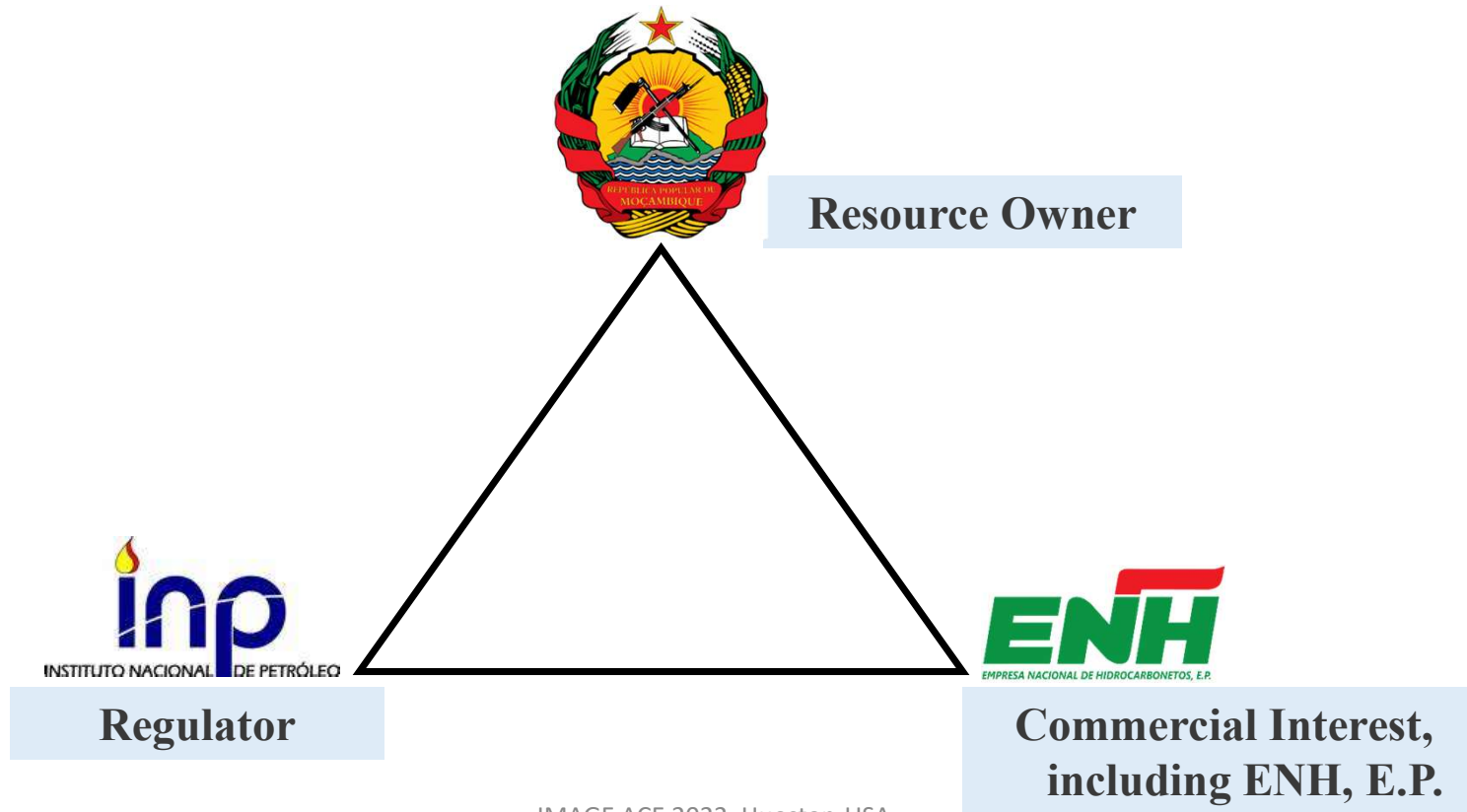
- **Legal Framework (Institutional, conditions and EPCC)**
- **Sedimentary Basins**
- **Licencing Strategy**
- **6th Bidding Round**
- **Hydrocarbon Potencial**
- **Data**
- **Licencing Procedure**
- **Remarks**

COUNTRY'S LOCATION

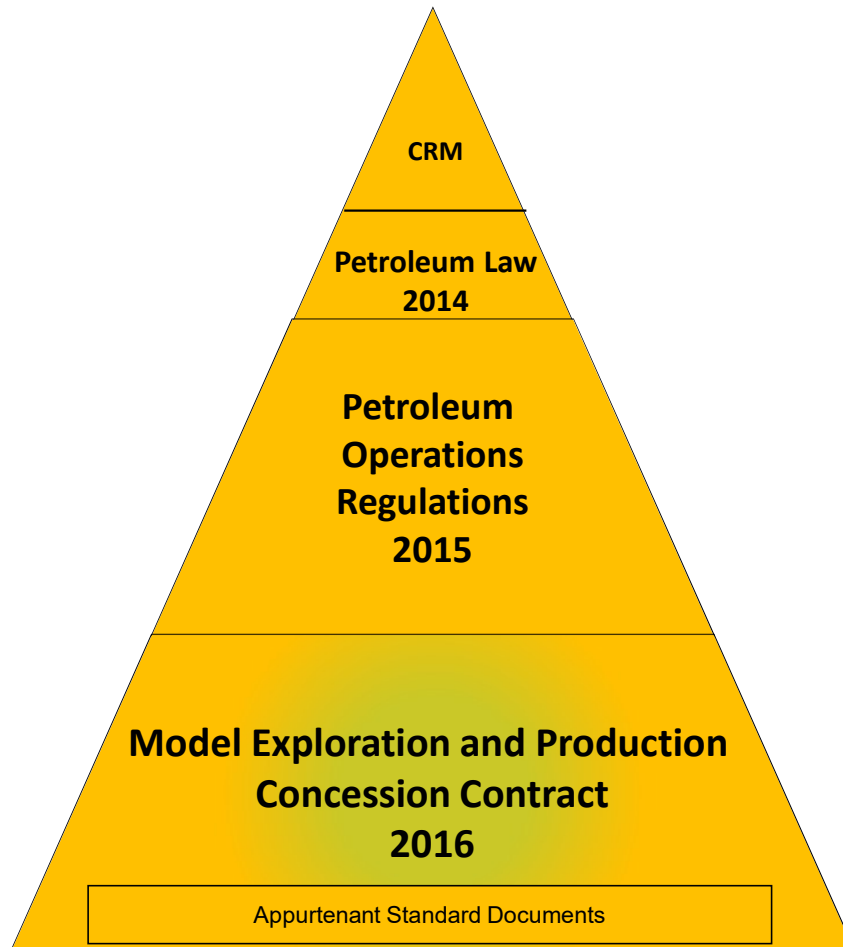


Institutional Framework

The Petroleum Law of 2001 followed by the **Petroleum Law of 2014** form the legal and regulatory foundation for granting rights to commercial entities allowing Petroleum Operations and establishing the governance structure clarifying roles and interests:

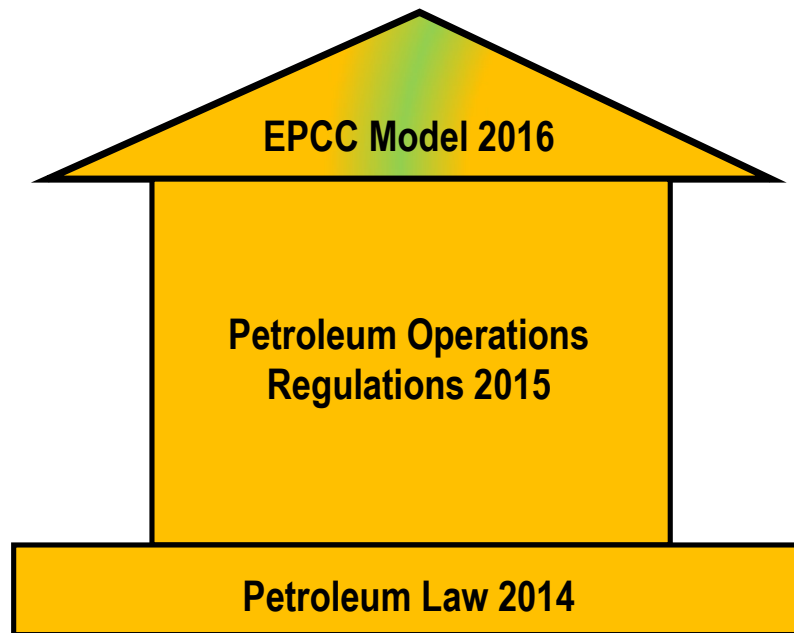


Mozambique Framework Conditions



- Constitution of the Republic of Mozambique (CRM)
- Petroleum Law 21/2014, of 18 August
- Petroleum Operation Regulations, Decree n.º 34/2015, of 31 December
- Fiscal Law 14/2017 de 28 de Dezembro
- Exploration and Production Concession Contract Model, Resolution n.º 25/2016 of October
- Retaining requirement for EPCC standards:
 - Joint Operations Agreement,
 - Account and Financial Procedures,
 - Bank Guarantee for Obligatory Work Commitments,
 - Ultimate Parent Company Guarantee related to Petroleum Operations causing loss or damage to Government or Third Party Claimant
- PL 2014 rules regarding:
 - Publication of EPCC's
 - Natural Gas offtake
 - Domestic market requirement : 25% of the oil and gas produced in the national territory must be allocated to the national market
 - Role and content of ENH participation and activities
 - Registration of companies
 - Need for partnership with local goods and service providers

Mozambican Regulatory System - EPCC



Complementary Legislation:

- Environmental law no. 20/97, of 1 October
- Regulation for the environmental impact assessment process, Decree nº 54/2015 of 31 December
- Environmental regulation for petroleum operations, Decree nº 56/2010 of 22 November.

Exploration and Production Concession Contract

Grants the following rights

Exploration for a maximum of 8 years.

Exclusivity on undertaking petroleum operations.

Exclusivity to construct and operates infra-structures (Pipeline).

Assesement of commerciality in case of discovery for a period of 2 years.

Development and production for a maximum period of 30 years.

Exploration and Production Concession Contract

FISCAL REGIME	
PRODUCTION TAX	Crude Oil: 10%. Natural gas: 6%.
STATE PARTICIPATION	• <u>Minimum 20%</u> , with exceptions.
PRODUCTION SHARING	<u>Between 85% (Concessionarias) -15% (Government)</u> , sladding scale up to 60% (Government) and 40% (Concessionaires).
COST RECOVERY	Up to <u>60%</u> .
PRODUCTION BONUS	Non recoverable
OTHER EPCC OBLIGATIONS	<ul style="list-style-type: none"> • Social support • Training • Institutional support
FISCAL STABILITY	Stabilized up to 10 years from the production.

Sedimentary Basins

6th Bidding Round & Hydrocarbons Potential

Licensing Strategy

- **Define the need to have a systematic assessment of Petroleum potential**
- **Define areas to be covered by data acquisition**
- **States that the Licensing rounds are undertaken bi-annually**
- **Licensing can only be undertaken over areas covered by data**

SEDIMENTARY BASINS AND MAIN GEOLOGICAL STRUCTURES

Explored basins

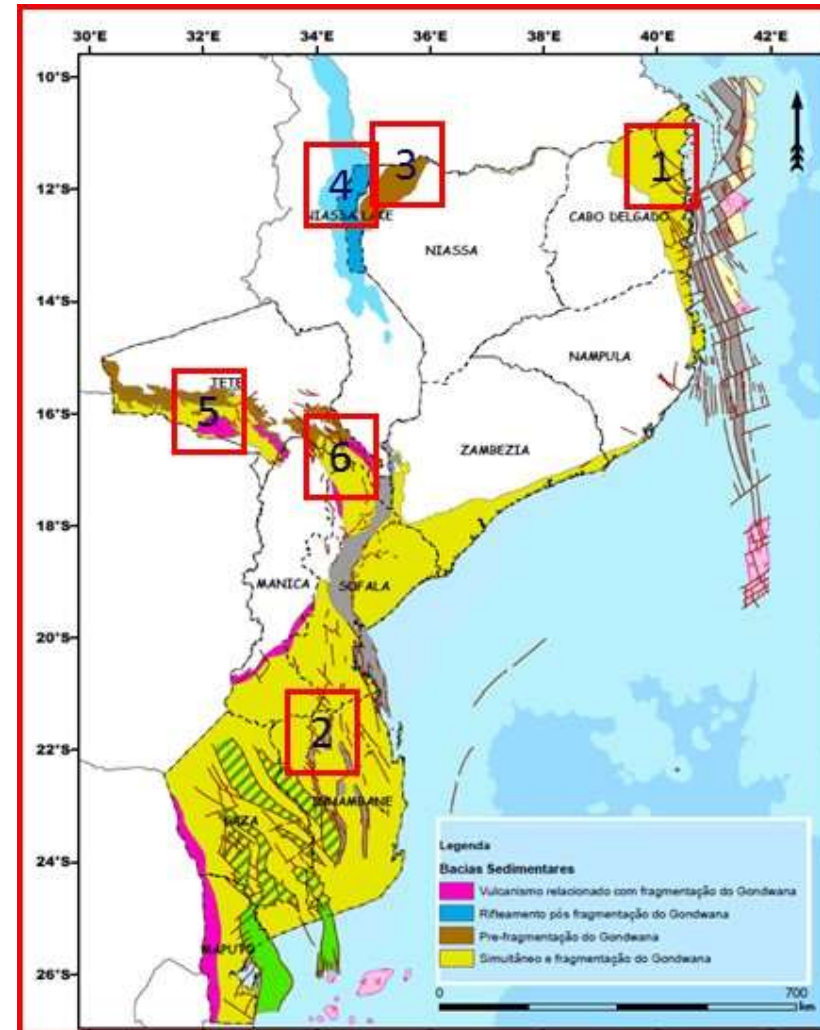
Passive Continental Margin basins:

- Rovuma Basin (1)
- Mozambique Basin (2)
And Angoche Area (Northern MB)

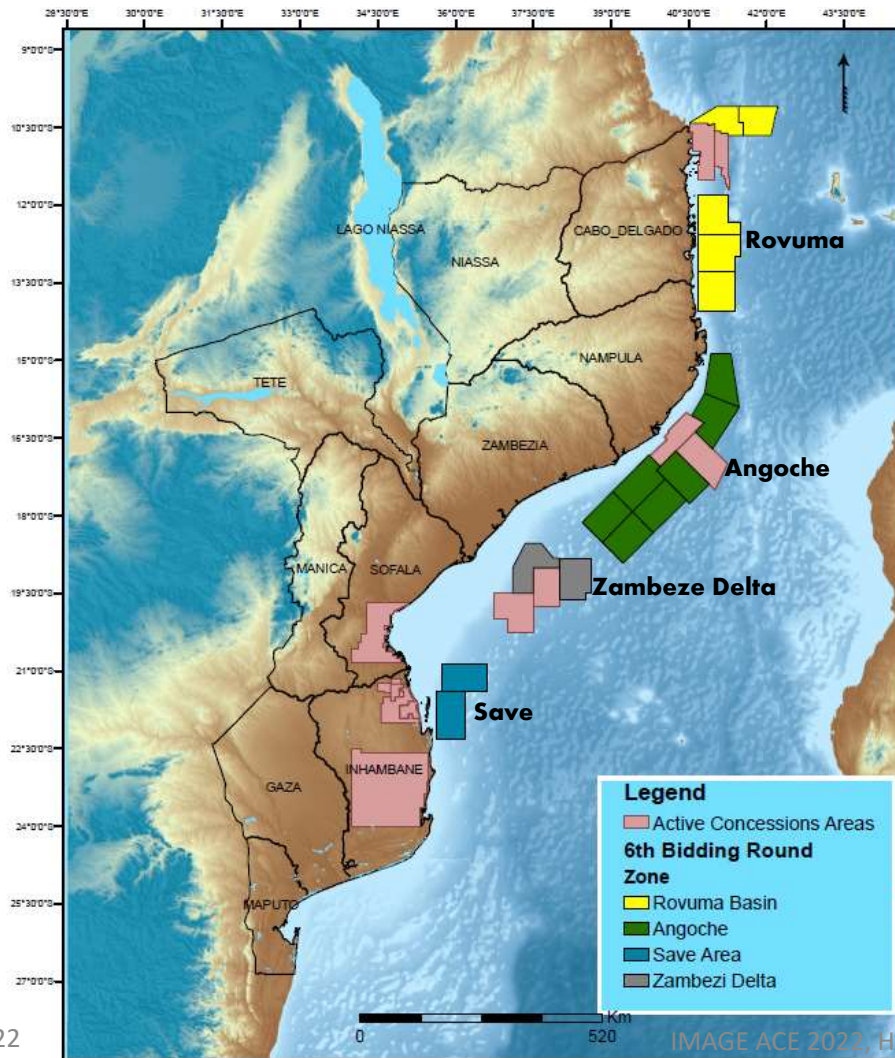
Unexplored basins

Graben and Rift Type basins:

- Maniamba Basin (3)
- Lake Niassa Basin (4)
- Lower Zambeze Graben (5)
- Middle Zambeze Basin (6)



Areas for the 6th Licensing Round ongoing



Rovuma Areas (R6-) 5 Areas 28241.01 SqKm

Angoche Areas (A6-) 7 Areas 40420.79 SqKm

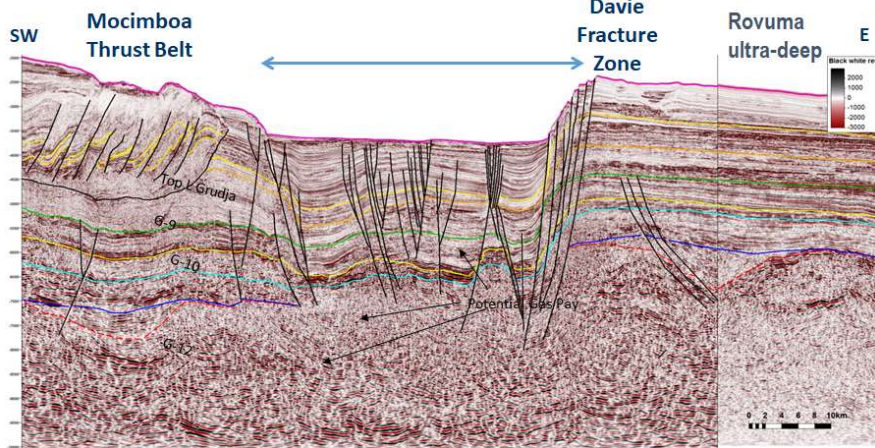
Zambeze Delta Areas (ZD6-) 2 Areas 11474.6 SqKm

Save Areas (S6-) 2 Areas 11479.35 SqKm

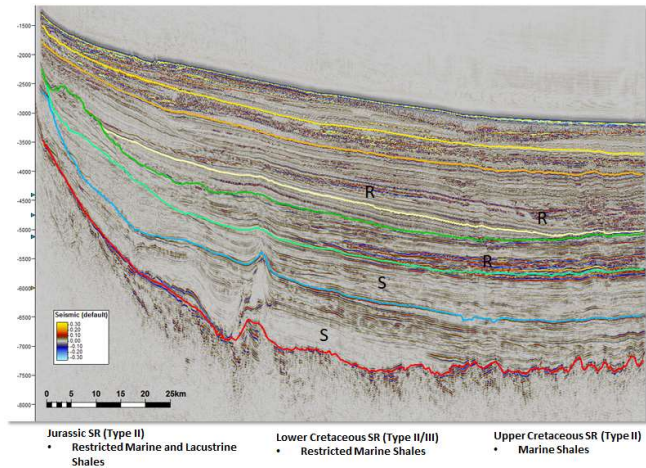
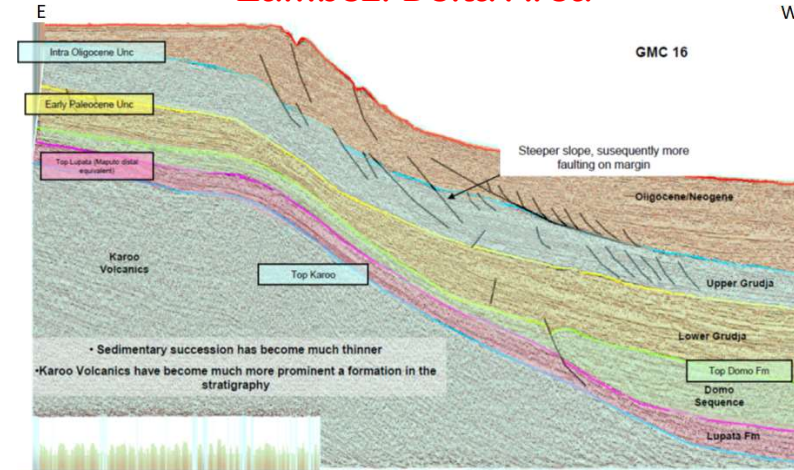
Total: 16 Areas 91,615.75 SqKm

Hydrocarbon Potential

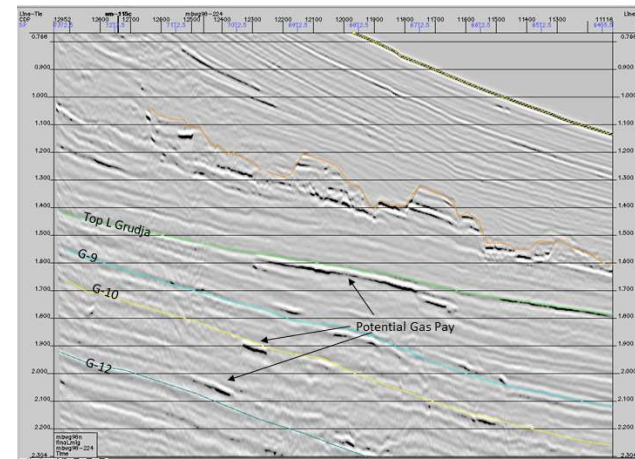
Rovuma Basin



Zambezi Delta Area



Angoche Area

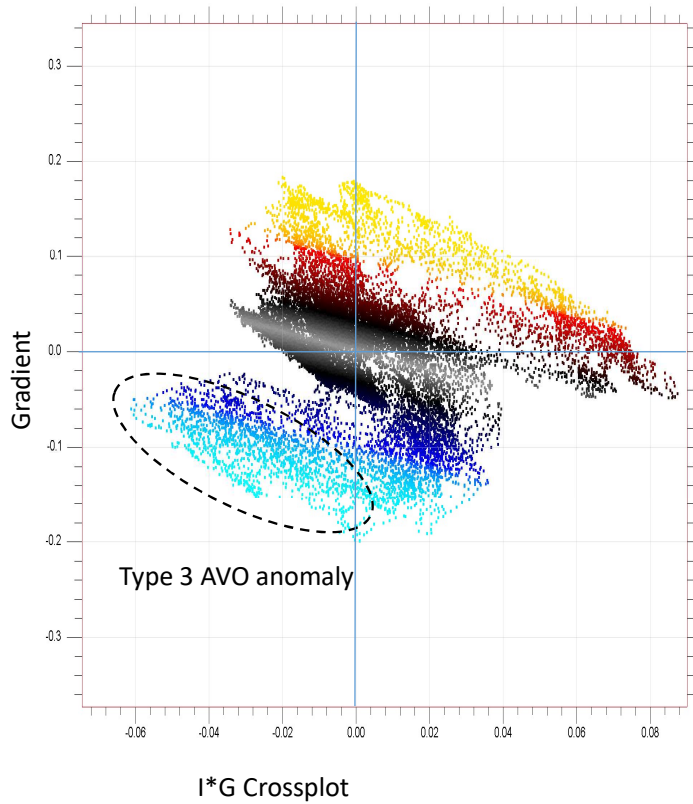


Save Area

Hydrocarbon Potential_Frontier Exploration Angoche Area

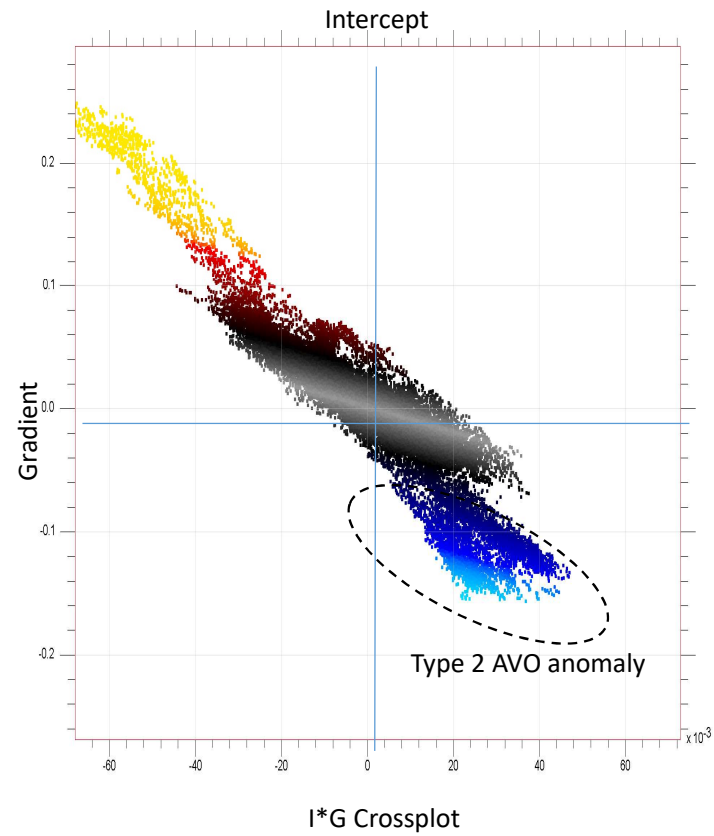
Eocene AVO analysis

AVO analysis indicates Eocene shelf fan is a **Type 3**
AVO anomaly
Intercept



Cretaceous AVO analysis

AVO analysis indicates Upper Cretaceous fan is a **Type 2**
AVO anomaly
Intercept



Exploration Data

Geotechnical Data

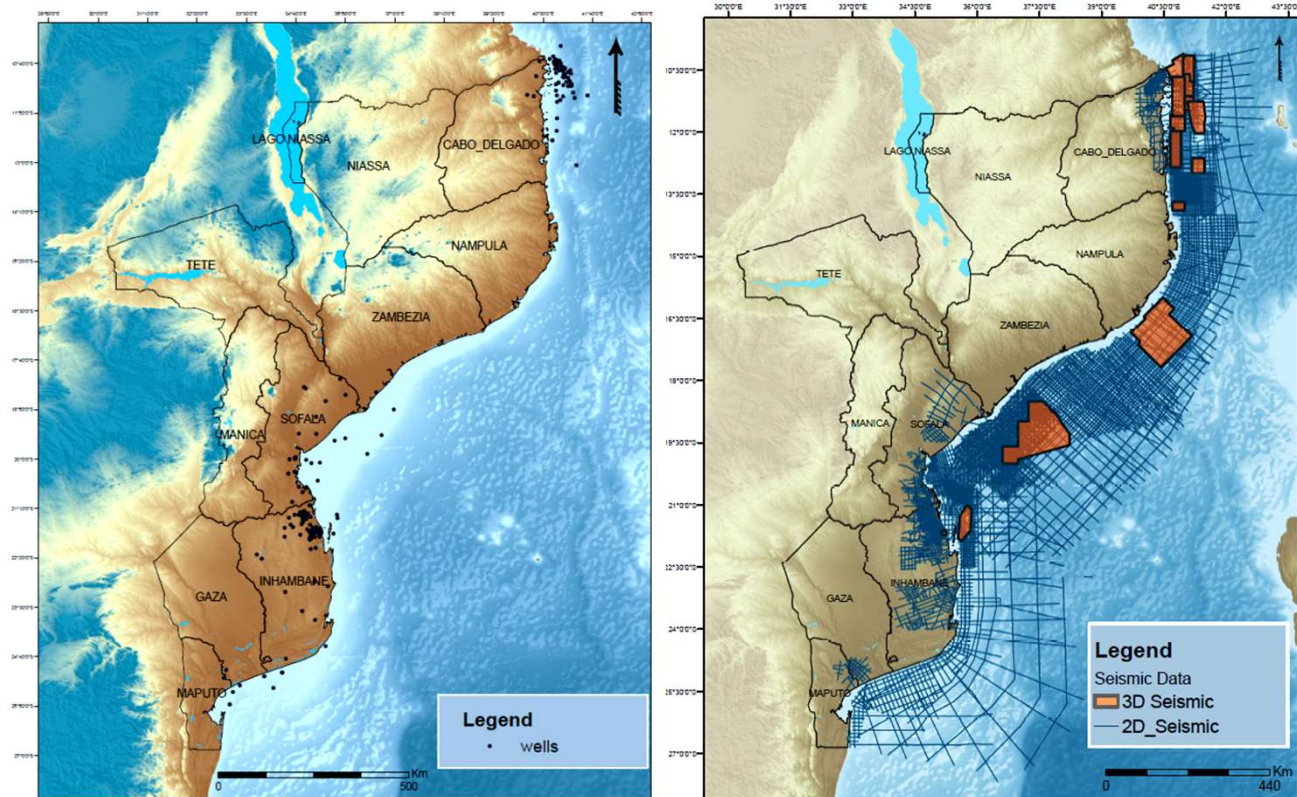
The geotechnical Data includes:

- Seismic 2D/3D
- Grav/Mag
- Wells
- Regional reports

Access to the Data through a Master License

Agreement

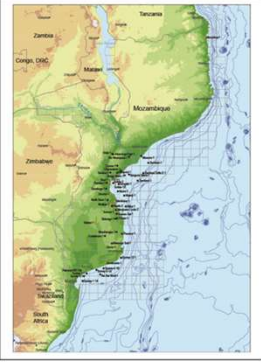
- Fisical Data Room
- Virtual Data Room



 D E L F I | Virtual Data Room

Geotechnical Data (cont.)

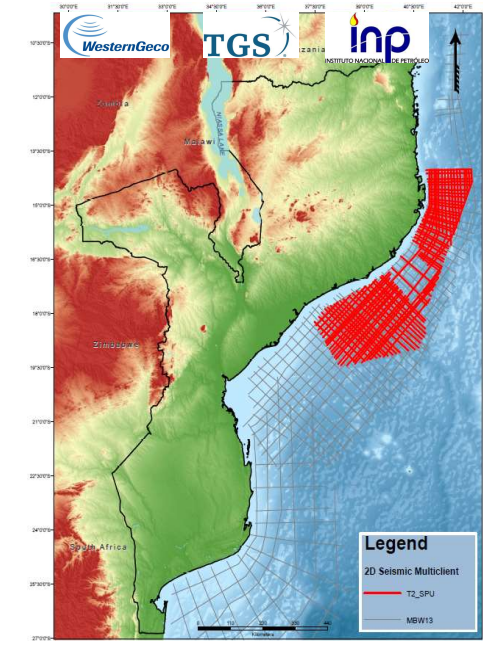
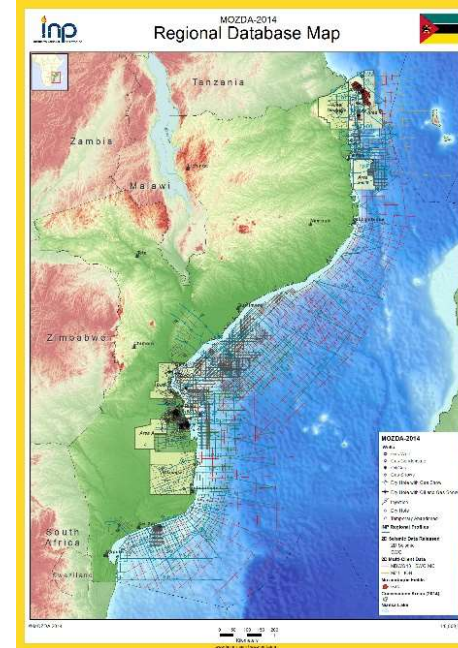
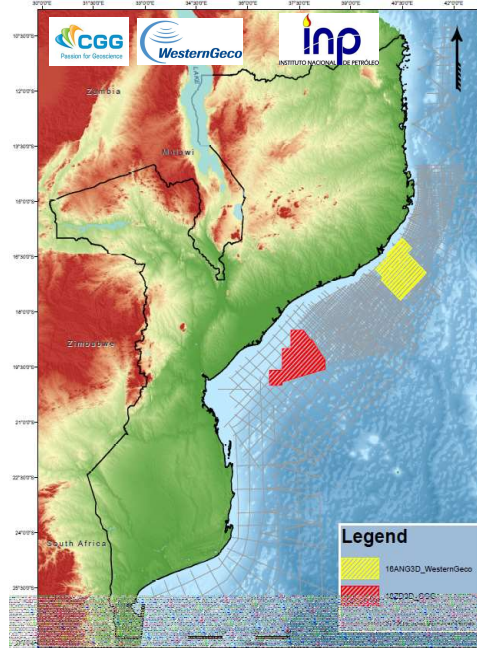
CORE LABORATORIES
MOZAMBIQUE REGIONAL
RESERVOIRS & SEALS



A non-exclusive study presented by
INSTITUTO NACIONAL DE PETRÓLEO
 and
CORE LABORATORIES SALES N.V.

- Reservoir & Core Description
- Petrophysics
- Rock Property Evaluation
- Rock Typing
- Seal Analysis
- Biostratigraphy
- Regional Paleogeography
- Cyclostratigraphy
- ODM Database
- GIS Shape Files
- Digital Geological & Petrophysical Database
- HTML browser of the study dataset and report

Project Website Available Now
www.corelab.com



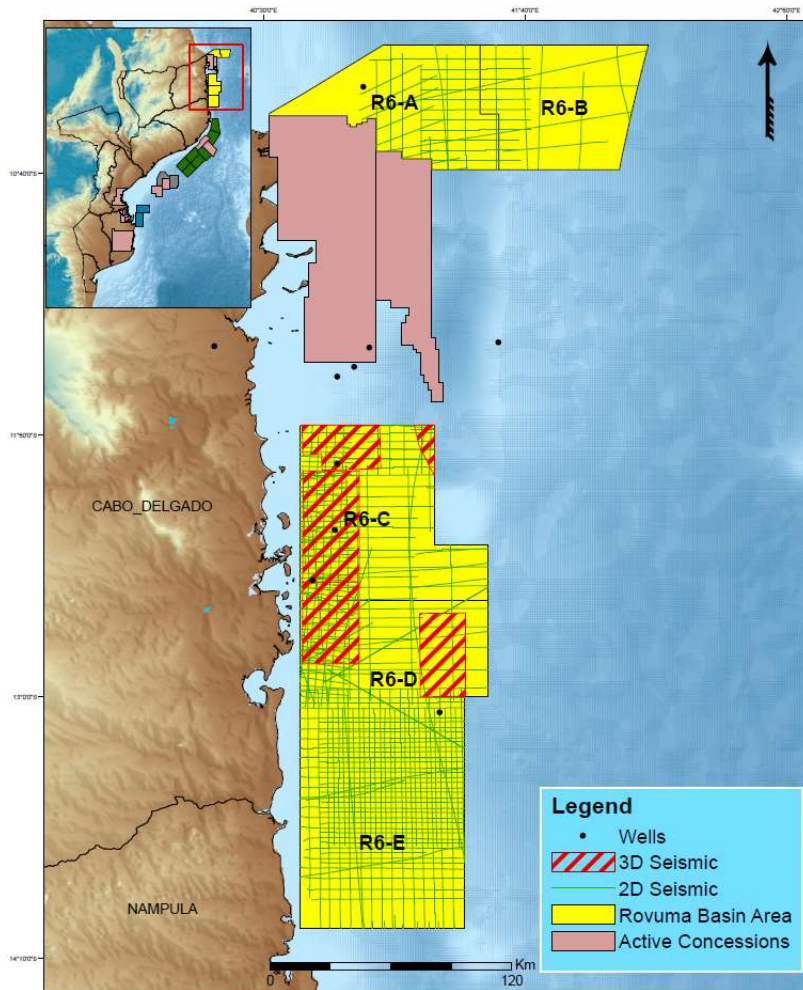
Data is available to license from



Minimum Data Package

- The INP prepared data packages and recommends companies interested to participate for the sixth licensing round to licence;
- There are two option of the packages for each region:
 - OPTION 1: Regional package
 - OPTION 2: Package per single Area
- MOZDA and CORELAB reports are included in all data packages;
- The licensing of minimum data package in the area of interest is mandatory, except for the companies that already have the data for that particular area;
- The licensing of the minimum data package will allow companies to evaluate the petroleum potential and prepare there proposals
- The price list for the minimum data package is available at INP on request;
- Note that the Multiclient seismic data only can be licensed through the service companies as described on 6th Lic Rnd Technical Data PT/EN available on www.inp.gov.mz
- Details about seismic data per area and per region can be found on GIS interactive map or on the 6th Lic Rnd Technical Data PT/EN document available on www.inp.gov.mz

Seismic and Well Data



- Rovuma Areas - Data**
- ☐ Legacy 2D – 13,179 km
 - ☐ Multiclient – 2,495 km
 - ☐ 11 wells

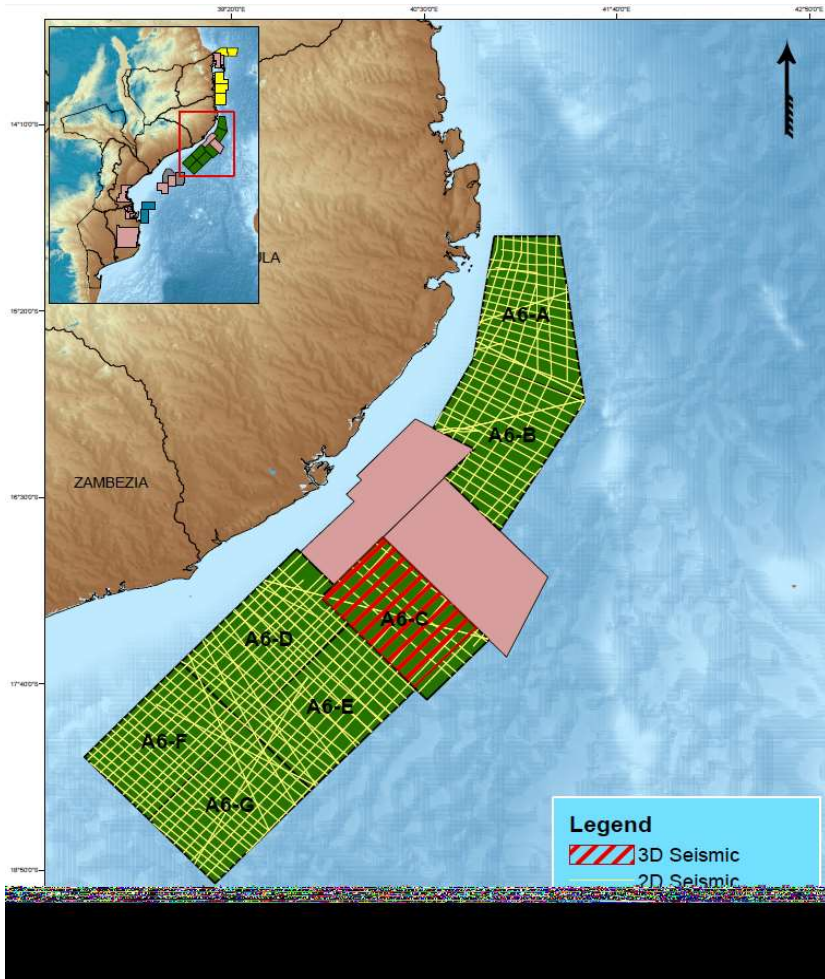
OPTION 1

ÁREAS	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
R6-A	414	180	1	1. MOZDA
R6-B	122	418	1	
R6-C	681	31	3	2. CORELAB
R6-D	557	256	1	
R6-E	628	222	1	

OPTION 2

Region	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
Rovuma	2402	1107	7	1. MOZDA 2. CORELAB

Seismic and Well Data (cont.)



Angoche Areas - Data

- Legacy 2D – 1,359 km
- Multiclient – 7,997 km
- No wells

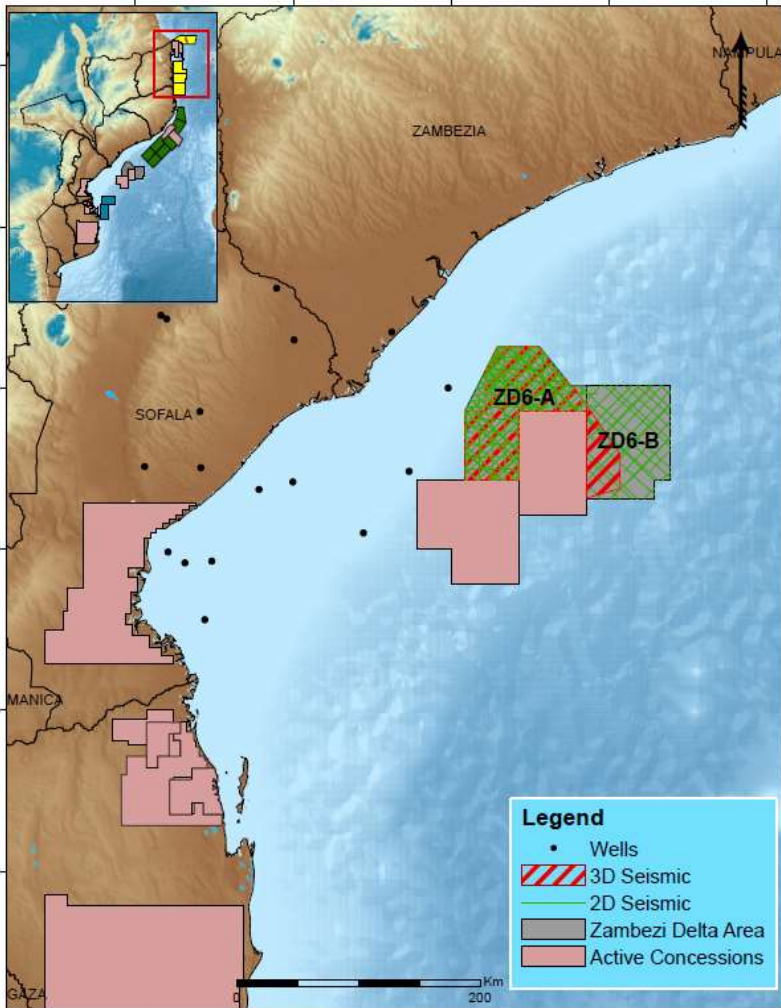
OPTION 1

ÁREAS	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
A6-A	191	558	0	1. MOZDA
A6-B	118	688	0	
A6-C	111	639	0	
A6-D	141	704	0	1. MOZDA
A6-E	130	593	0	
A6-F	53	651	0	
A6-G	144	565	0	

OPTION 2

Region	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
ANGOCHÉ	888	4398	0	1. MOZDA 2. CORELAB

Seismic and Well Data (cont.)



Zambeze Areas - Data

- Legacy 2D – 4,415 km
- Multiclient – 1,488 km
- 13 wells

OPTION 1

ÁREAS	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
Z6-A	384	384	1	1. MOZDA
Z6-B	391	391	1	2. CORELAB

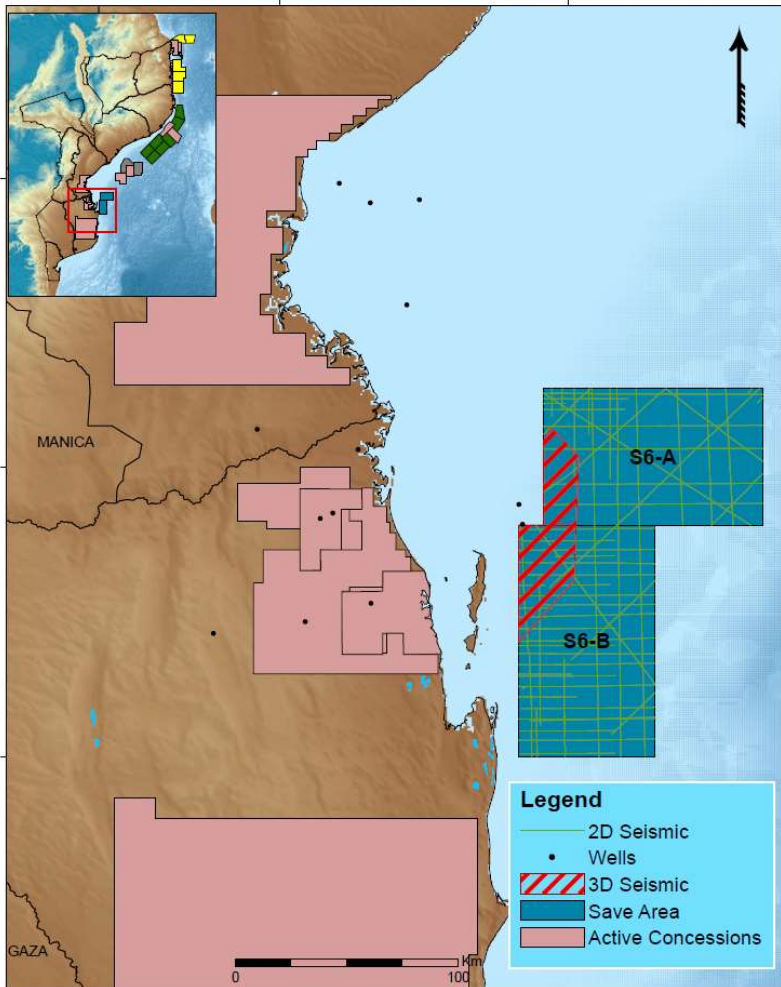
OPTION 2

Region	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
ZAMBEZE	775	775	2	1 . MOZDA 2. CORELAB

10/7/2022

IMAGE ACE 2022, Houston-USA

Seismic and Well Data (cont.)



- Save Areas - Data**
- Legacy 2D – 3,016 km
 - Multiclient – 954 km
 - 13 wells

OPTION 1

ÁREAS	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
S6-A	373	373	1	1. MOZDA
S6-B	392	392	1	2. CORELAB

OPTION 2

Region	Legacy Data (km)	Multiclient Data (km)	Nr. of wells	Regional Reports
SAVE	765	765	2	1 . MOZDA 2. CORELAB

10/7/2022

IMAGE ACE 2022, Houston-USA

Regional Well Package

			TD (m)	TD Formation/Age	Company	Status	Hydrocarbon indicators	Completion date
Rovuma Basin Wells								
Linguado-1	1	Onshore	5232	Oligocene	Anadarko	P&A	dry	5/8/2013
Collier-1	2	Onshore	3176	Paleocene	Anadarko	P&A	dry	4/12/2010
Baracuda-1	3	Onshore	4584	Eocene channel fill	Anadarko	P&A	dry	1/24/2013
Ironclad-1	4	Onshore	5277	Cretaceous	Anadarko	P&A	Oil&Gas show	8/11/2010
Perola-Negra-1	5	Onshore	5437	Cretaceous	Anadarko	P&A / gas show	dry	11/22/2012
Cachalote-1	6	Onshore	2447	Upper jurassic / Tithonian - karro super group	Statoil	P&A	dry	7/23/2013
Cachalote-1A	7	Onshore	3163	Upper jurassic / oxfordian	Statoil	P&A	dry	4/4/2013
Buzio-1	8	Onshore	3305	Pemba Fm./cachalote sandstone unit	Statoil	P&A	dry	11/8/2013
Rov Marlin-1	9	Onshore	5375.8	Lower cretaceous	Petronas	P&A	dry	11/1/2012
Dugongo-1	10	Onshore	5075	Creaceous	Eni	P&A	dry	5/27/2014
Mocimboa - 1	11	Onshore	3494	Albian sands	Esso/Shell	P&A	Oil&Gas shows	6/30/1986
Zambezi Area Wells								
Chite 1	1	Onshore	3500	Jurassic	DNO/ASA	P&A, Dry	Dry	12/26/2010
Corone-1	2	Onshore	2074	Upper Domo Shale	DNO/ASA	P&A, Dry	Dry	8/21/2004
Inhaminga High 1	3	Onshore	3600	Jurassic Formation	DNO/ASA	P&A, Dry	Dry	3/21/2011
Micaune - 1	4	Onshore	4608	Domo sand	Gulf	P&A	Oil shows (traces)	11/18/1966
Nhamura-1	5	Onshore	5489	Pre Camb Basalts	Aquitaine	P&A	Dry	3/2/1972
Rio Nhanguzi-1	6	Onshore	3348	Sena	Aquitaine	P&A	Dry	8/16/1971
Sangussi Marin-1	7	Offshore	3662	Turonian	Aquitaine	P&A	Dry	12/29/1971
Sangussi-1	8	Onshore	2033	Domo	DNO/ASA	P&A Gas Shows	Dry	7/24/2008
Savane 1	9	Onshore	1856	Domo	DNO/ASA	P&A, Dry	Dry	7/13/2004
Sengo Marin-1	10	Offshore	4283	Sena	Aquitaine	P&A	Dry	11/30/1971
Zambezi - 1	11	Offshore	4653	Lower Grudja	Hunt	P&A	Gas shows & oil staining	2/21/1971
Zambezi - 3	12	Offshore	4506	Lower Grudja	Hunt	P&A	Some gas shows & traces of heavy tar	9/10/1971
ZDE-1	13	Offshore	3600	Upper Grudja	Petronas	P&A		7/21/2007
Save Area Wells								
Njika 1	1	Offshore	1614	Late Cretaceous	ENH & Petronas	P&A	Gas	11/3/2008
Njika2	2	Offshore	1925	Late Cretaceous	ENH & Petronas	P&A	Gas	1/1/2009
Chameil-1	3	Onshore	1795	Late Cretaceous	Moz Gulf Oil Co.	P&A	Gas Shows	5/2/1967
Temane-1	4	Onshore	3507	Cretaceous/ Sena Fm	Moz Gulf Oil Co.	P&A	Gas	2/1/1957
Teca-1	5	Onshore	3196	C retaceous/ Sena Fm	Moz Gulf Oil Co.	P&A	Gas Show	3/3/1962
Pande-2	6	Onshore	1677	Late Cretaceous/ grudja fm	Moz Gulf Oil Co.	P&A	Gas	1/15/1963
Pande-7	7	Onshore	1215	Late Cretaceous/ Grudja Fm	ENH	P&A	Gas	3/17/1990
Mambone-1	8	Onshore	3611	Jurassic/ Lupata Fm	Mo Gulf oil Co.	P&A	Gas show	7/26/1957
Save North-1	9	Onshore	2025	Late Cretaceous/ grudja fm	Sasol	P&A	Dry	12/15/1910
Nemo - 1x	10	Offshore	4123	Neocomian Volcanics	Gulf	P&A	Dry	3/17/1970
Sengala-1	11	Offshore	3290	Domo	Sasol	P&A		10/27/2000
Sofala-1	12	Offshore	3230	Lower Grudja	Gulf	P&A, Gas Shows	Dry	4/26/1970
Sofala-2	13	Offshore	2040	L.Grudja	Sasol	P&A Gas Shows	G9 gas shows registered on mud log	9/29/2000

10/7/2022

IMAGE ACE 2022, Houston-USA

Licensing round procedure


Application documentation

- Pre-qualification Guidelines
- Bid round guidelines
- Geotechnical Data
- Schedules
 - Petroleum Law
 - Regulation of Petroleum operations
 - Fiscal Law
 - Model EPCC Agreement

This information is available at INP Webpage www.inp.gov.mz

Procedures for Pre-Qualification





 REPUBLIC OF MOZAMBIQUE
 MINISTRY OF MINERAL RESOURCES AND ENERGY

APPENDIX A

APPLICANT DETAILS AND FINANCIAL INFORMATION (FOR PRE-QUALIFICATION)

Completed Applications should be sent to:

Please send / deliver your application to:


INSTITUTO NACIONAL DE PETRÓLEO
 Rua da Desportividade, Pórtico 205 Alameda Marquês,
 Maputo - Moçambique
 Call: +351 21 876 11 000
 E-mail: info@inp.gov.mz

APPLICATION FORM FOR PRE-QUALIFICATION FOR HYDROCARBON EXPLORATION IN MOZAMBIQUE

Principal applicable legislation: Law No. 21/2014, of 18 August (Petroleum Law) and Decree No. 34/2015, of 31 of December (Petroleum Operations Regulations)

Type of Licence

What type of licence or licences are you applying for?

Exploration and Production Concession Contract (Please tick appropriate box)

Part I Name(s) of Pre-qualifying Applicant(s) and Proposed Operator

1. Where there is more than one applicant, please list the names in decreasing order of respective proposed percentage interest:

Name(s) of Applicant(s) (as in Certificate of Incorporation)	
1	OPERATOR
2	NON-OPERATOR

1.1 Details of the Company Representative in Mozambique


a. Name of proposed company Representative:

b. Address of contact:

Post Code:

c. Tel / Fax number of contact:

d. E-mail address of contact:


 REPUBLIC OF MOZAMBIQUE
 MINISTRY OF MINERAL RESOURCES AND ENERGY


MOZAMBIQUE SIXTH LICENSING ROUND

APPENDIX D

HSE REQUIREMENTS

Completed applications should be sent to:

Please send / deliver your application to:


INSTITUTO NACIONAL DE PETRÓLEO
 Rua da Desportividade, Pórtico 205 Alameda Marquês,
 Maputo - Moçambique
 Call: +351 21 876 11 000
 E-mail: info@inp.gov.mz

HSE REQUIREMENTS

1. OPERATOR REQUIREMENTS

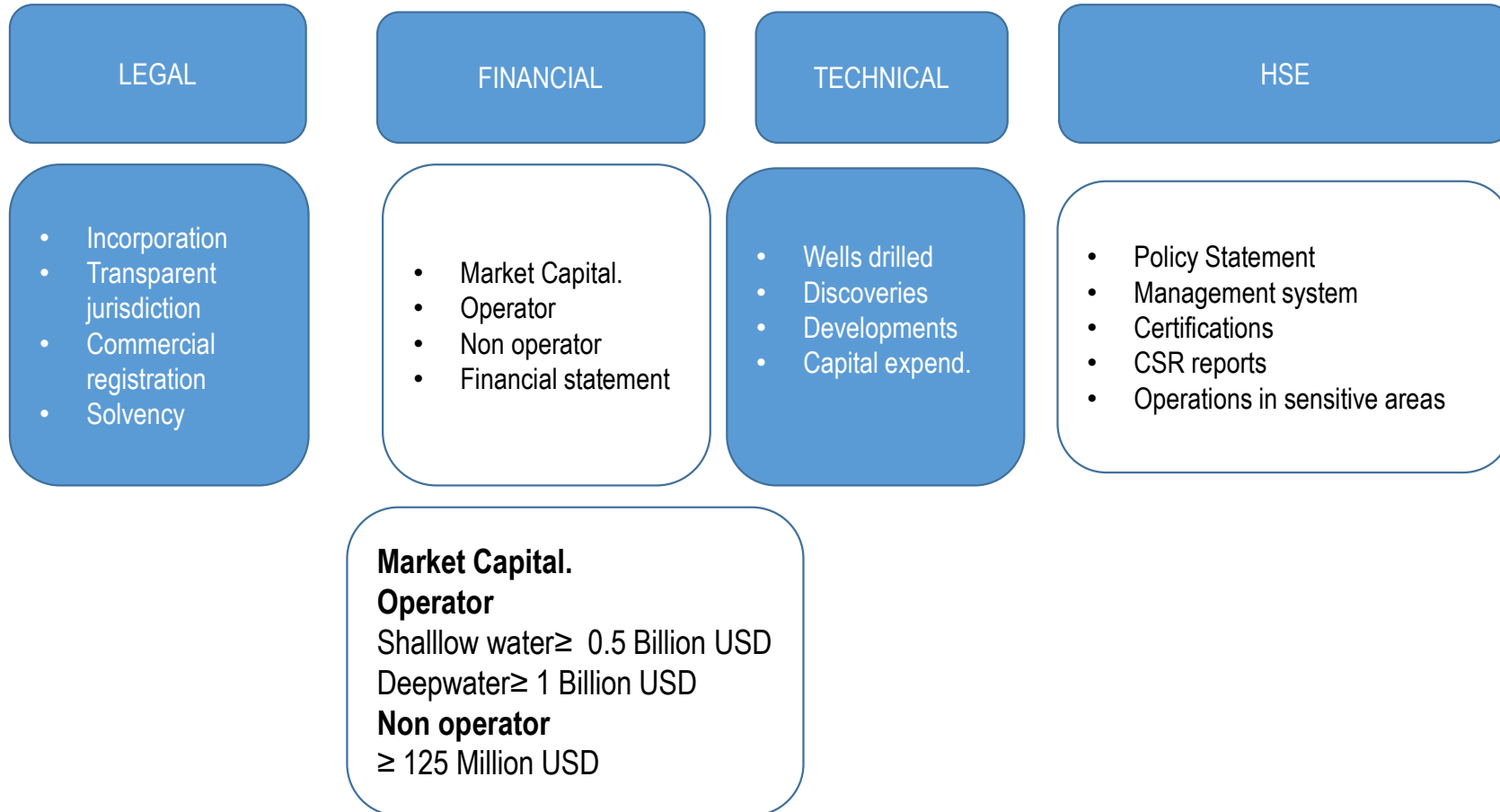
- QHSE Policy Statement(s)
- Evidence of established and implemented QHSE Management System(s)
- QHSE certification(s) according to best international industry practice (e.g., ISO certification 9001, ISO 14001 and/or OHSAS 18001), with copies of certificates approved by the awarding official entities.
- A copy of the Quality, Health, Safety and Environment Management System(s) (QHSEMS), or equivalent.
- A copy of Corporate Social Responsibility reports or initiatives for the past three (3) years.
- Experience as operator in environmentally sensitive areas.
- QHSE record of material events for the previous three (3) years including oil spills, site fatalities and injuries, major fires and explosions, mechanical/structural failures, emissions and waste, and main remedial efforts.

2. PARTNER REQUIREMENTS (Non-Operator)

- QHSE Policy Statement(s)
- Evidence of established and implemented QHSE Management System(s)
- QHSE certification(s) according to best international industry practice (e.g., ISO certification 9001, ISO 14001 and/or OHSAS 18001), with copies of certificates approved by the awarding official entities.

Note: Approval will be needed if a Partner is to become Operator (at a later date), as it will have to meet the then current QHSE Operator requirements and be in compliance with the appropriate laws and regulations.

Pre-qualification Criteria



Pre-qualified companies

Operators

- CHINA NACIONAL OFFSHORE OIL CORPORATION HONG KONG HOLDING LIMITED “CNOOC”;
- SINOPEC INTERNATIONAL ENERGY INVESTMENT LIMITED;
- ENI MOZAMBICO SPA;
- EXXONMOBIL MOZAMBIQUE (OFFSHORE 6) LIMITED;
- PETROCHINA INTERNACIONAL IRAQ FZE;
- TOTAL ENERGIES EP NEW VENTURE.

Non operators

- RN ANGOCHE PTE (Not Available)
- JOINT STOCK COMPANY NOVATEK
- QATAR PETROLEUM MOZAMBIQUE LIMITADA
- SASOL AFRICA (PTY), LTD
- ONGC VIDESH LIMITED
- DISCOVERY EXPLORATION LIMITED (Renounced)

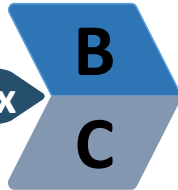
Benefits for the Pre-qualified companies


- Opportunity to license and interpret data**
- Pre-qualified companies are already known and it is time to form applicants groups**
- Significant Petroleum potential is available over the areas in offer**
- Mozambique offers competitive and attractive Legal and Fiscal regime**
- Submission of competitive bids to explore for further petroleum resources**
- Contribute to bring resources for the energy transition strategy**

Procedures for Submission of Final Proposal

APPLICATION FEE AND SUBMISSION

Appendix





 REPUBLIC OF MOZAMBIQUE
 MINISTRY OF MINERAL RESOURCES AND ENERGY


APPENDIX B

TECHNICAL SUBMISSION

All the technical documentation from the Applicant to be given here:

Completed applications should be sent to:



 NATIONAL PETROLEUM INSTITUTE
 Rua dos Desportistas, Pólo 250 Alameda Manuano, P.O. Box 4724
 Maputo - Mozambique
 Call: +358 8986 11000
 Maputo - Mozambique


 REPUBLIC OF MOZAMBIQUE
 MINISTRY OF MINERAL RESOURCES AND ENERGY

APPENDIX C

FINANCIAL PROPOSAL


Completed Applications should be sent to:


 NATIONAL PETROLEUM INSTITUTE
 Desportistas Road, Pólo 250 Alameda Manuano, P.O. Box 4724
 Maputo - Mozambique
 Call: +358 8986 11000
 Maputo - Mozambique

SUMMARY OF PROPOSED WORK PROGRAM (EPCC APPLICATION)				
<i>(Please complete the appropriate boxes and provide proposal cost)</i>				
First Exploration Period: ... months	Other:	2D Seismic Acquisition:	3D Seismic Acquisition:	Drill Expl. Well:
	Size: _____	Size: _____	Size: _____	Depth: _____
	USD: _____	USD: _____	USD: _____	Target _____
Second Exploration Period: ... months	Other:	2D Seismic Acquisition:	3D Seismic Acquisition:	Drill Expl. Well:
	Size: _____	Size: _____	Size: _____	Depth: _____
	USD: _____	USD: _____	USD: _____	Target _____
Third Exploration Period: ... months	Other:	2D Seismic Acquisition:	3D Seismic Acquisition:	Drill Expl. Well:
	Size: _____	Size: _____	Size: _____	Depth: _____
	USD: _____	USD: _____	USD: _____	Target _____
RE-PROCESSING AND RE-INTERPRETATION OF EXISTING GEOTECHNICAL DATA (SEISMICWELL)				
<i>(Please Refer: Valid for EPCC application)</i>				
		Line 14, km Within the area applied for	Line 14, km Within Region	
Reprocessing				
New Interpretation				
Other (special studies)				

FINANCIAL PROPOSAL SUMMARY		
Exploration Production Concession Contract		
Candidata:		
Items	US \$ (Anual)	%
Treinamento		
Apoio Institucional		
Apoio Social		
Financiamento		
Petróleo custo		
	1c R	15%
	1c R < 1.5	25%
	1.5c R < 2	35%
	2c R < 2.5	50%
	2.5c R	60%
* Bonus de Produção em US Dollar	No início da produção comercial: Quando a produção da Área do EPCC atingir pela primeira vez _____ BOE/day average for a month: When Production from EPCC Area first reaches each further tranche of _____ BOE/day average for a month:	
Total Expenditure Commitment (US \$ million)	First Exploration Period	
	Second Exploration Period	
	Third Exploration Period	
	Total EPCC Expenditure	

Bid Evaluation criterias/Score card

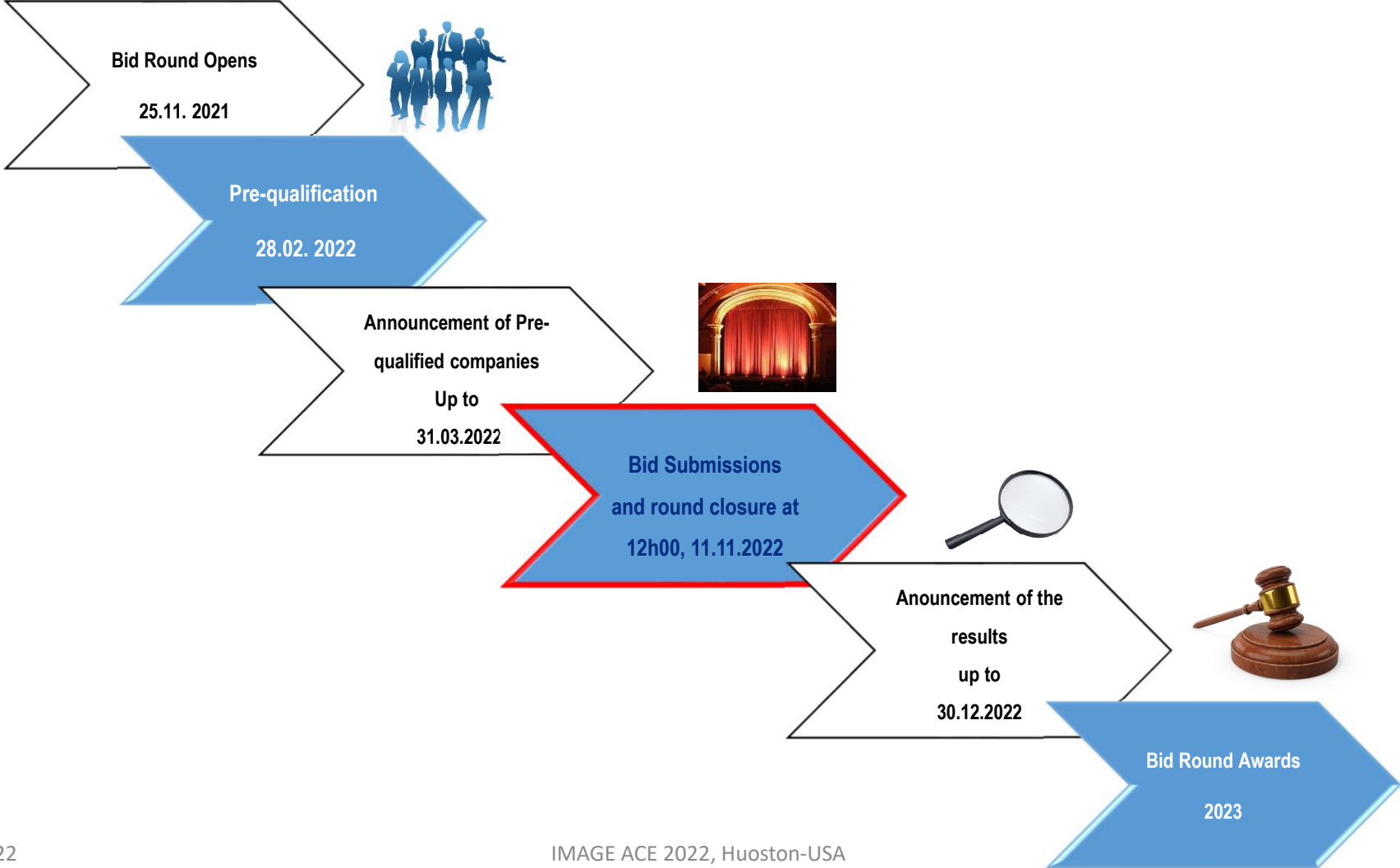
Appendix A		
Appendix A	Applicant Details and Financial Information	5.00
	Total Investment in E&P Exploration	1.00
	Value (Market Cap) - Small to Large	2.00
	Production of Oil and Gas	1.00
	Affordability of work Program Bid	1.00
	Applicant Technical Expertise	8.00
	Number of E&P wells drilled	2.00
	Technology - relevant to Area	4.00
	Number of discoveries	2.00
	Appendix B	
Appendix B	TECHNICAL WORK PROGRAM	50.00
	Technical Database	8.00
	G&G evaluation already completed	10.00
	License Prospectivity	4.00
	First Exploration Period	22.00
	Second Exploration Period	5.50
	Third exploration Period	0.50
Appendix C		
Appendix C	FINANCIAL PROPOSAL	37.00
	Training	2.00
	Institutional Support	5.00
	Social Support	2.00
	State Participation (ENH) 	5.00
	Production Bonus	4.00
		19.00
Appendix D		
App D	APPENDIX D - HSE	
	Pass or Fail	
	Total	100

- Financial strength and Technical capabilities
- Technical database used in technical evaluation
- Technical Work programme
- Financial proposal
- HSE Policy and Standards



- State participation in each area has a minimum of 20%, excluding for Area **A6C**, with a minimum of 40%.

LICENSE ROUND SCHEDULE



Final Remarks

- Petroleum potential has been proved around Rovuma, Zambezi and Save Regions**
- Mozambique offers competitive and attractive Legal and Fiscal regime**
- Stimulate foreign direct investment in the Petroleum sector**
- Contribute to implement the energy transition process and use the available opportunity to license and explore more acreage**
- Mozambique offers prospective acreage and Oil companies are encouraged to participate in this 6th licensing round and in the upcoming opportunities.**

THANK YOU