

## Maersk Oil – Unlocking Potential

Capital Markets Day, October 9<sup>th</sup> 2012



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## Agenda

10:00	Introduction by Jakob Thomasen, CEO		
10:20	Portfolio Performance by Kenny Murdoch, CFO		
10:35	World-Class Assets by Jón Ferrier, Head of Business Development and Strategy		
11:05	Break		
11:25	The Road to 400,000 bpd by Troels Albrechtsen, Head of Technology and Projects		
11:45	Exploration by Lars Nydahl Jørgensen, Head of Exploration		
12:05	Levers for Success by Jakob Thomasen, CEO		
12:15	Q&A		
12:30	Lunch		





Introduction

Jakob Thomasen, CEO





Increasing production 50% by 2020



Creating value by maturing existing resources to reserves



Spending USD 3-5 billion annually on development projects



#### Strong Financials



#### World-Class Assets



#### Rich Project Portfolio



## Disciplined Exploration



Kenny Murdoch Chief Financial Officer

- High returns
- A step change in investment
- Reserves & resources are growing



Jón Ferrier Head of Business Development and Strategy

- A portfolio by design
- Playing to our strengths
- Successful step outs



Troels Albrechtsen Head of Technology and Projects

 A pipeline of worldclass projects taking production to 400,000



Lars Nydahl Jørgensen Head of Exploration

- Transformation of performance
- Sustaining the business

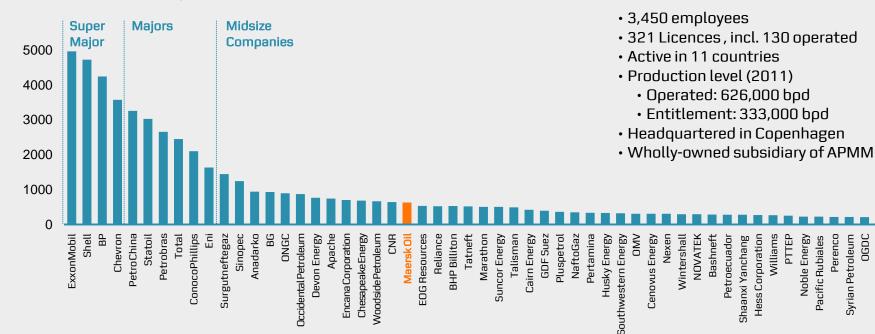


Maersk Oil at a glance

### Maersk Oil – A Top 30 oil company

#### Gross Production by Operator, 2011 ('000 bpd)

Note: Data from Wood Mackenzie. National Oil Companies are not included.





Murphy Oil

Perenco

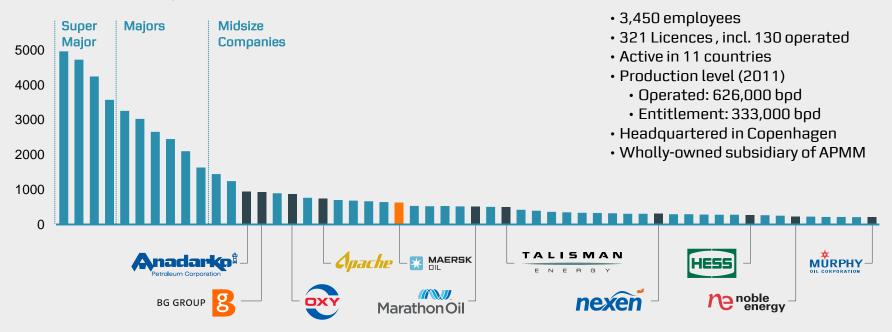
Noble Energy

Pacific Rubiales

Maersk Oil at a glance

### Maersk Oil – A Top 30 oil company

#### Gross Production by Operator, 2011 ('000 bpd)



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## Maersk Oil – from local to global player

#### The value chain



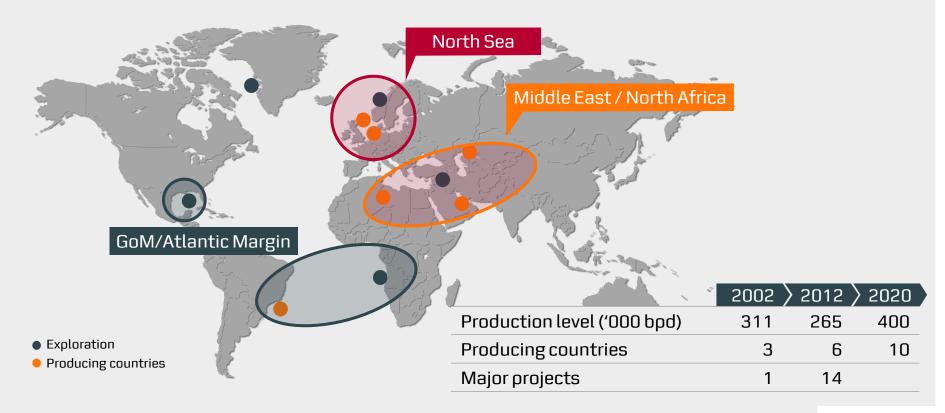
#### Expansion of geographical focus







## A balanced portfolio



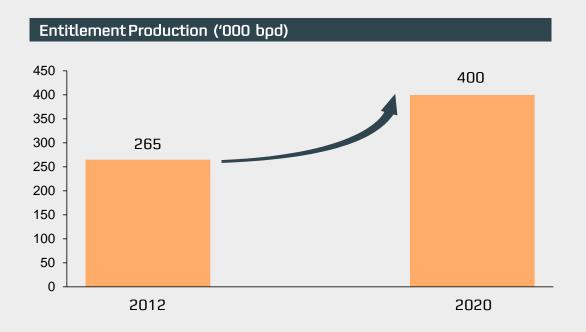


# Target production level of 400,000 bpd, achievable through identified projects

#### Entitlement Production ('000 bpd) Kazakhstan Brazil UK Algeria Qatar Denmark

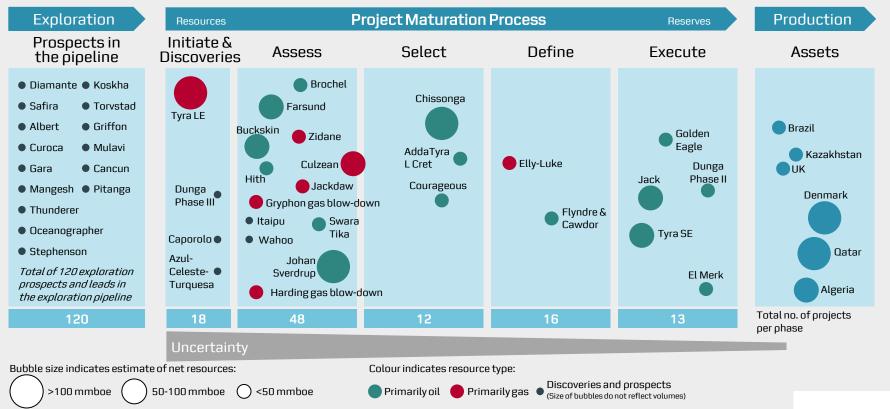


## 50% increase in entitlement production by 2020





#### Maersk Oil's portfolio





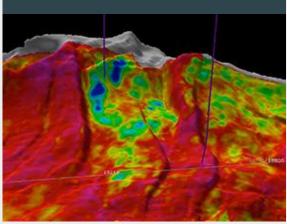
## Three pillars of our growth strategy

Asset Management

Major Development Projects



Exploration



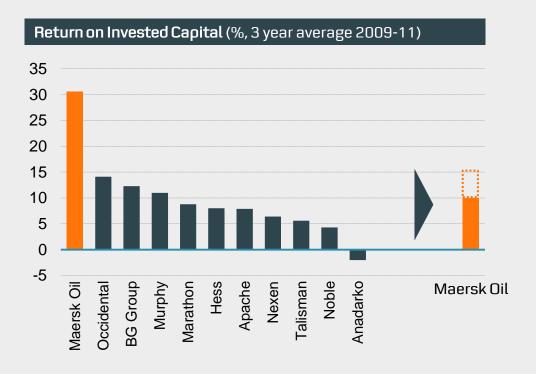
SAFETY - INCIDENT FREE

**TECHNOLOGY** 

PEOPLE AND LEADERSHIP



## Returns to remain at double-digit levels



Note: Peer group data based on Evaluate Energy information



Maersk Oil: A medium sized oil company with the financial power and the global network of a major oil company



Asset Management



Major Development Projects



Exploration

- 1) Increasing production 50% by 2020
- 2) Creating value by maturing existing resources to reserves

3) Spending USD 3-5 billion annually on developments



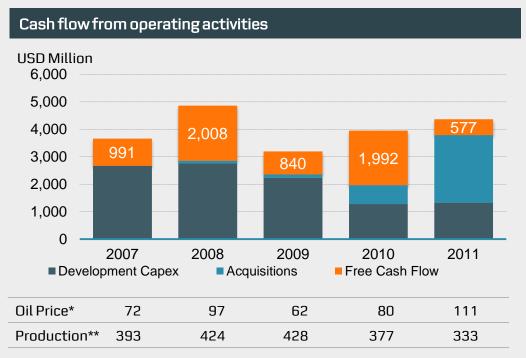


## Portfolio Performance

Kenny Murdoch, CFO



## Historically strong cash flow



- Past five years, total cash flow from operations after exploration costs, USD 20 billion
- Investments; USD 10 billion in development Capex and USD 3.5 billion on acquisitions
- Net cash flow of USD 6.5 billion
- Development Capex towards 2020, USD 3-5 billion/year and USD 1 billion/year on exploration

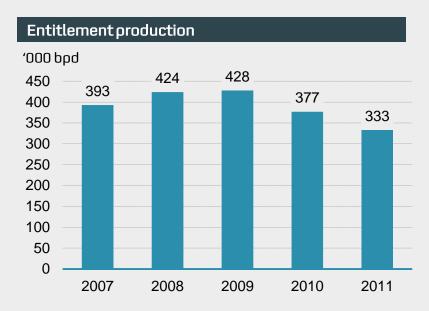


<sup>\*</sup>Average Oil price (USD/bbl)

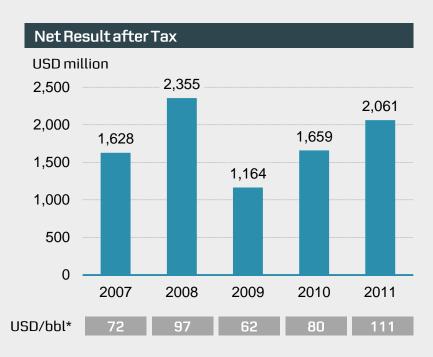
<sup>\*\*</sup> Production level ('000 bod)

#### Maersk Oil has delivered solid financial results

#### Combined profit of USD ~9 billion in past five years



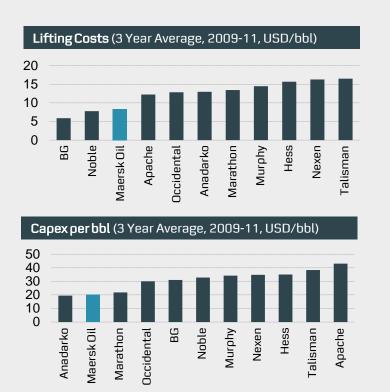
 Entitlement production peaked in 2007-09 due to large investments in Qatar

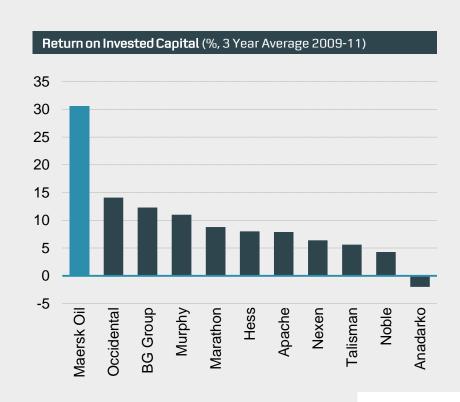


<sup>\*</sup>Average annual oil price (Brent)



## Cost efficient operations have resulted in high ROIC

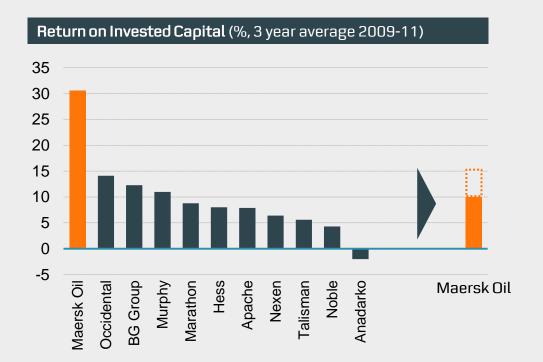




 $Note: Peer \, group \, data \, based \, on \, IHS \, Herold \, for \, lifting \, cost \, and \, Evaluate \, Energy \, for \, Capex \, and \, ROIC \, cost \, and \, Evaluate \, Energy \, for \, Capex \, and \, Evaluate \, Energy \, for \, Capex \, and \, Evaluate \, Energy \, for \, Capex \, and \, Evaluate \, Evaluate$ 



## Return on Invested Capital better than historic peer average



- Recent period of high return on capital reflects solid performance but also lower investment in portfolio
- Peer average 3-year return ~8%
- Disciplined approach to capital management
- Maersk Oil's ROIC expected to remain at double-digit levels

Peer group data based on Evaluate Energy information (September 2012). Oil price assumption USD 100/bbl.

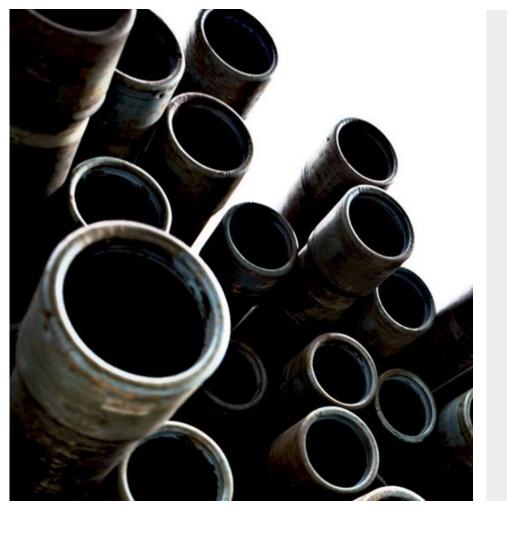




# Reserves and Resources

- Reserves and resources are compliant with the Society of Petroleum Engineers' Petroleum Resources Management System (SPE-PRMS)
- Reserves are certified by Ryder Scott





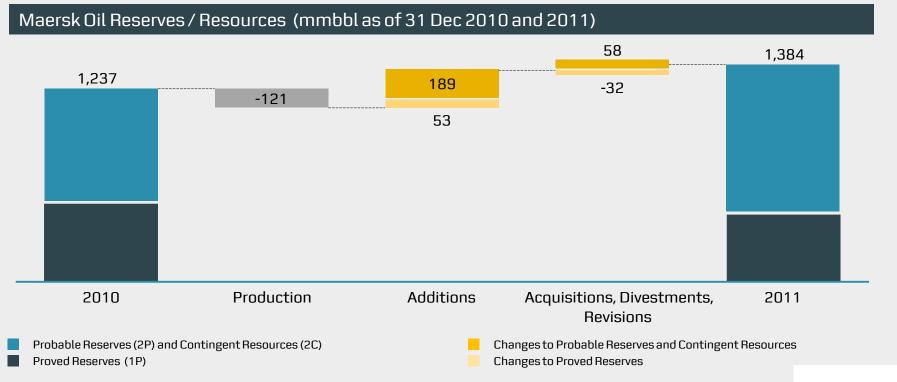
#### A robust resource base

(mmbbl)	End-2010	End-2011
Reserves & resources	1,237	1,384
Proved reserves (1P)	515	443

- From 2010 to 2011, resources increased 12%
- Post-2017 Qatar reserves or resources not included



## Maturing the resource base





## Key financial messages



- Solid financial results with high ROIC over the last five years
- A robust resource base focus on maturing resources to production

- Development Capex level expected to increase to USD 3-5 billion/year
- Exploration spending to continue at USD 1 billion/year
- ROIC expected to remain at double-digit levels during heavier investment phase



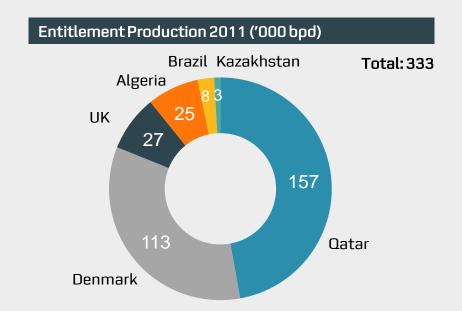


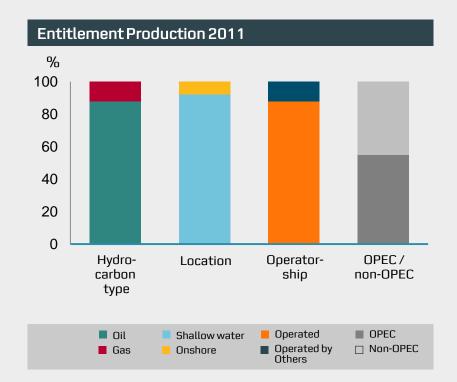
## World-Class Assets

Jón Ferrier, Head of Business Development and Strategy



## A portfolio that plays to our strengths







#### An evolving portfolio

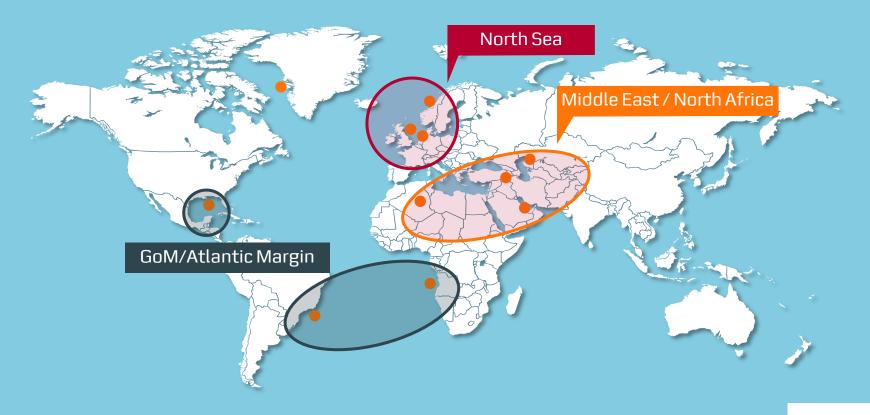
Maersk Oil Entitlement Production, 2011 and 2020



 $Note: Future\ production\ excludes\ contributions\ from\ Exploration\ portfolio$ 



## A portfolio that plays to our strengths





#### The North Sea

#### Denmark

#### First licence in 1962

Foundation of the Maersk Oil story 40 years of oil production Pioneered development of chalk reservoirs Large EOR potential

#### **United Kingdom**

#### Active since 2003

Significant growth in 2005 via Kerr McGee acquisition A growing part of the portfolio Mature assets

HPHT capability centre

**Continued Exploration success** 

#### Norway

#### Country entry: 2004

Actively building portfolio through licence rounds and acquisitions

PL 501 (Johan Sverdrup) awarded in 2008

Pre-discovery farm-in to Zidane

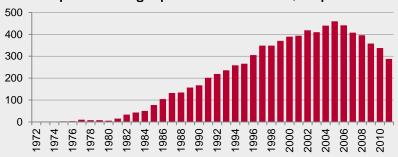




#### Denmark

## Our heritage asset

#### Historic operated oil & gas production - Denmark, boepd



- Maersk Oil is operator for DUC and has to date produced 85% of all oil and gas in Denmark (2011)
- Concessions cover gross acreage of ~2,100 km<sup>2</sup>
  - Four hubs: Tyra, Gorm, Dan and Halfdan
  - 16 fields
  - 50 platforms
  - 279 producing and 110 injection wells
  - Employing ~3,100 people, incl. contractors





Denmark

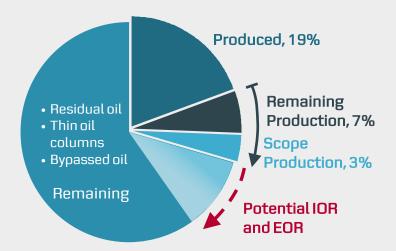
# The foundation of our skill set

- A successful business created from very challenging fields
  - Developed new technologies to unlock potential of tight carbonates
  - Leading edge in extended reach horizontal well drilling and stimulation technology
- Incubator of talent for Maersk Oil worldwide
- In 2011, new asset teams were introduced in the Danish Business Unit
- Ambition to be a leading mature operator



#### Denmark

#### The Danish North Sea will remain a core area



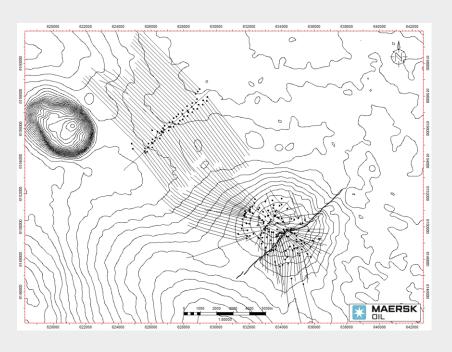
Source: Danish Energy Agency, Maersk Oil

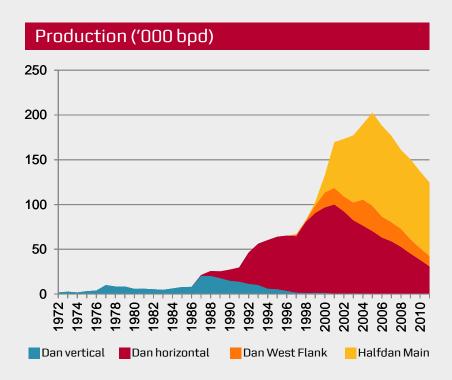
- Exploration and development potential remains
- Continued investment and development of technology
- Asset focus to effectively manage mature fields and maximise recovery
- High operational efficiency
- Deep knowledge of subsurface in Danish North Sea; ideally positioned to maximise return on assets



#### Dan Field - Case History

## The Impact of Technology: Unlocking Potential







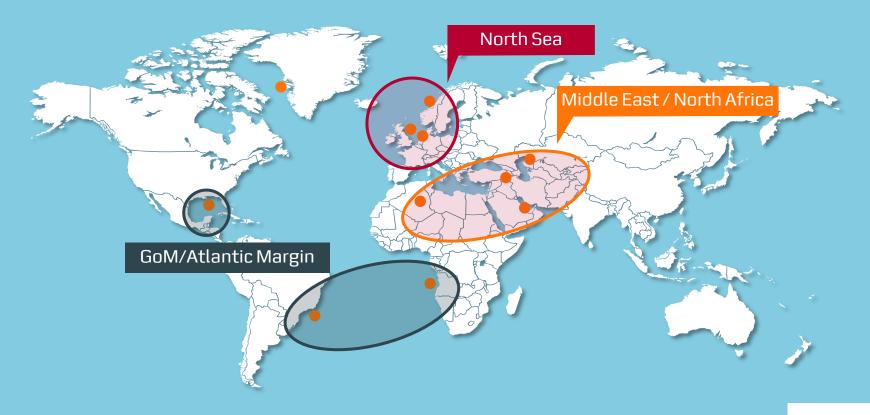
#### Norway

## Contiguous North Sea growth

- Leveraging our 40+ years of development and production experience in the Danish and UK sectors
- Maersk Oil Norway established in 2004, today employing ~60 people
- 19 licences, 6 operated
- Confirmed operating capability; planned and executed first exploration well during winter 2011-2012
- Significant commercial discoveries:
   Johan Sverdrup, Zidane and Flyndre



## A portfolio that plays to our strengths





Middle East / North Africa

#### Qatar

Country entry: 1992

Largest offshore oil field operator 1.2 billion barrels oil produced 1/3 of Qatar's oil production

#### Algeria

Country entry: 1990
Operated by Anadarko
Reliable production from major assets
Attractive outlook as El Merk comes on stream

#### Kazakhstan

Country entry: 2000

Leveraging our tight reservoir capabilities to unlock large resource base 200 well drilling programme initiated

#### Kurdistan

Country entry: 2011

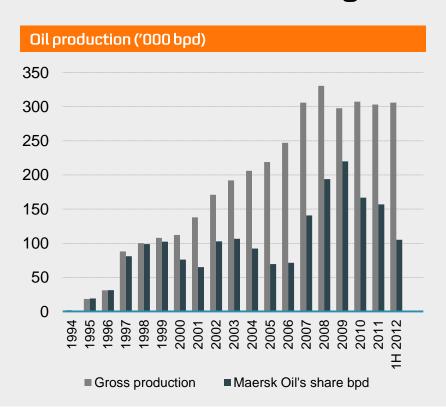
Risk-managed entry 30% share-holding in HKN Energy Sarsang PSC; Large, multi-prospect, oil prone World-class discovery



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#### Maersk Oil Qatar

### Success in Qatar through technology and innovation



- 1.2 billion barrels produced to date
- USD 8 billion invested in field development since 1992
- Stable long term partnership with Qatar Petroleum (QP)
- Maersk Oil technology deployment well suited for the large remaining development potential





## A broader role in Qatar

- Maersk Oil Qatar employs 800 people, of which 25% are Qataris, plus 650 contractors
- Maersk Oil Research and Technology Centre established in 2011
- Corporate Social Responsibility programme including "Action on Diabetes" – nominated for Best MENA CSR Initiative at ADIPEC 2012

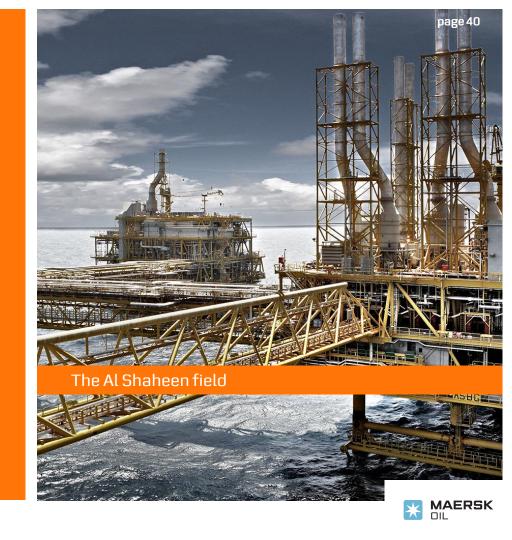
ADIPEC = Abu Dhabi International Petroleum Exhibition and Conference



#### Qatar

# Well positioned for extension beyond 2017

- Operator of the largest offshore oil asset in Qatar
- Maersk Oil succeeded where others had failed
- Technological innovation unlocked the potential of Al Shaheen; Technology will lead to increased recovery from the field
- Project execution
- Successful, 20 year relationship with QP
- Maersk Oil's accomplishments in Qatar wellrecognised, especially in the Middle East



#### **Turkey** Gas Sarsang Block Oil Iran Swara Tika Fact Box Location: Northern Kurdistan (Irao) · Elevation: 1473 m amsl · Licence: Sarsang PSC · Operator: HKN (75%) - Maersk Oil has a 30% shareholding Partner: Marathon (25%) · Discovered: 2011 (Swara Tika-1) · Reservoir Age: Jurassic & Triassic Fluid Type: Oil (35-38ºAPI) · Activity: Swara Tika-2 appraisal well in operation • 4 other prospects mapped within the licence area – exploration drilling ongoing

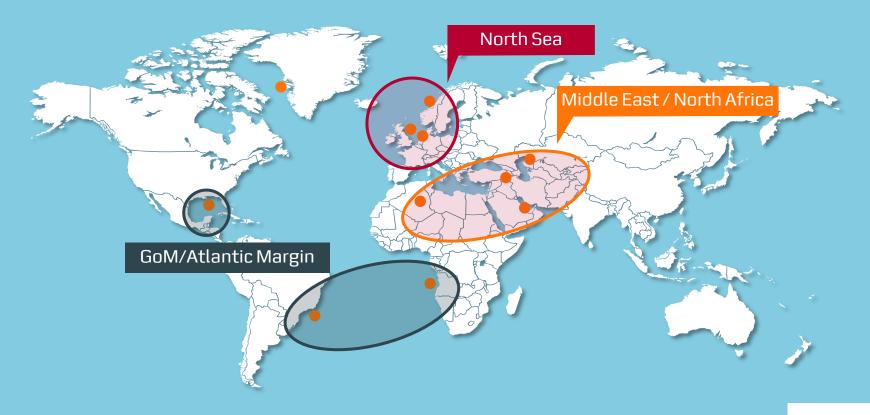
Kurdistan Region of Iraq

# A new frontier opens

- Entered in 2011; our newest business area
- Underexplored, world class basin
- Low technical risk very large oil prospects
- Above ground challenges remain but longerterm outlook improving
- Risk managed entry via shareholding



## A portfolio that plays to our strengths







# Building a substantial business

- Maersk Oil is one of 7 APMM Group Business Units in Angola
- Substantial acreage position secured;
  - Exploration entry in 2005 Block 16 previously held by Shell and CNR
  - Blocks 8 and 23 secured in 2006
- Chissonga discovered in 2009
- Pioneering 2011 discovery in the Kwanza Basin Block 23 – first deepwater pre-salt discovery in Angola
- Significant leads and prospects being matured





#### Angola

# Building a substantial business

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World class assets

# Playing to our strengths

- An evolving portfolio
- · Unique identity technical DNA
- A history of unlocking potential and the ability to unlock future potential
- Focused international footprint





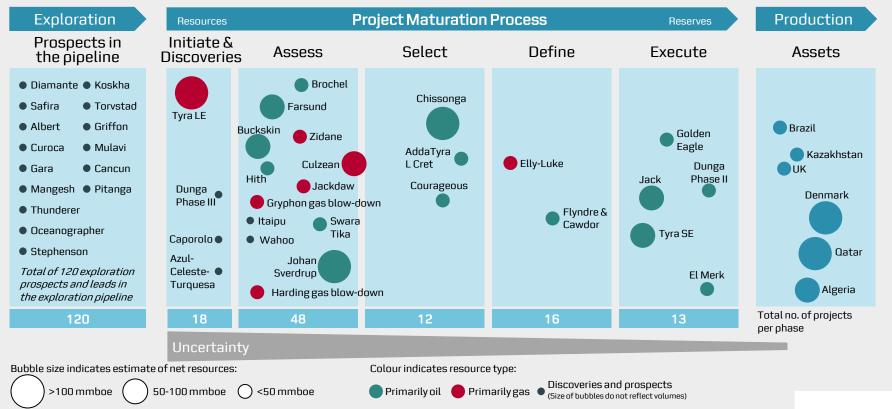


# The Road to 400,000 bpd 4

Troels Albrechtsen, Head of Technology and Projects



### Maersk Oil's portfolio





## The road to 400,000 barrels per day

#### Key projects

2012-2014 Sanctioned major development projects						
Project	First Production	Equity Share	<b>Net Sanctioned Capex</b> (Billion USD)	Plateau Production (Entitlement, boepd)		
Dunga (Kazakhstan)	2012	60%	0.6	15,000		
El Merk (Algeria)	2012	~11%	0.5	15,000		
Golden Eagle (UK)	2014	32%	1.1	20,000		
Jack (USA)	2014	25%	0.7 <sup>1</sup>	8,000		

<b>2015-2020 Discoveries under evaluation</b> (Pre-Sanctioned Projects²)						
Project (Country)	First Production	Equity Share	<b>Net Capex Estimate</b> (Billion USD)	Plateau Production Estimate (Entitlement, boepd)		
Elly-Luke (Denmark)	2015	80%³	0.9-1.3	8-15,000		
Chissonga (Angola)	2017-18	65%	TBD	TBD		
Johan Sverdrup (Norway)	2018	20%4	2.0 <sup>5</sup>	50,000 <sup>5</sup>		
Culzean (UK)	2017-19	49.99%	1.6-2.3	20-45,000		
Buckskin (USA)	2019	20%	TBD	TBD		

<sup>&</sup>lt;sup>1</sup> Phase 1 Maersk Oil estimate

<sup>5</sup> Wood Mackenzie data, estimated at a 10% pre-unitisation share



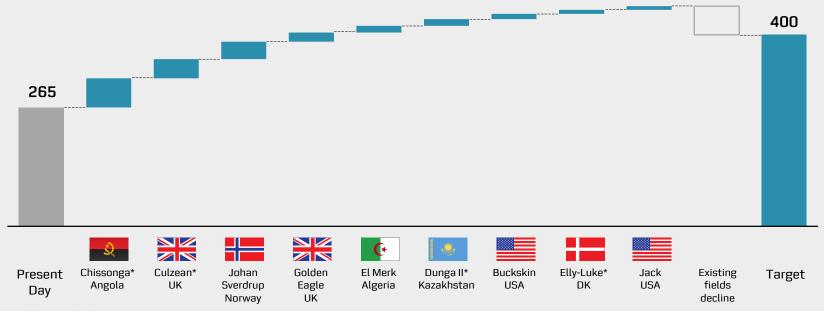
<sup>&</sup>lt;sup>2</sup> Significant uncertainties about time frames and production forecast

<sup>&</sup>lt;sup>3</sup> Subject to partner participation

<sup>&</sup>lt;sup>4</sup> Equity 20% of Block PL501 – unitisation with PL265 is being prepared

## The road to 400,000 barrels per day

#### Key projects



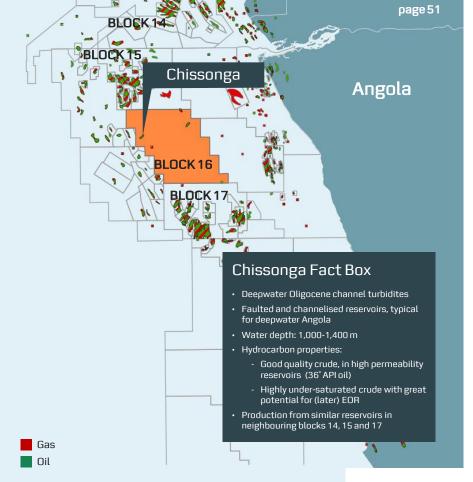
\*Operated by Maersk Oil

Note: Existing fields decline is net of work programmes to increase well potential  $\,$ 

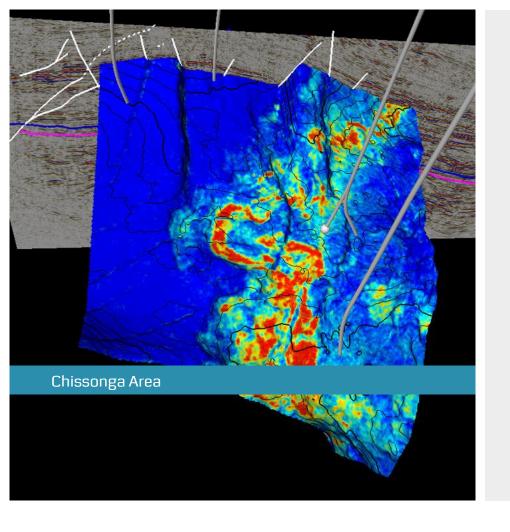


# A world class deepwater discovery in Block 16

- Discovered by Maersk Oil in 2009
- Appraisal drilling near complete
- Chissonga-4 currently drilling
- Future near-field expansion options;
   Caporolo-1 discovery made in 2012







# Chissonga, Angola Commercialising a discovery

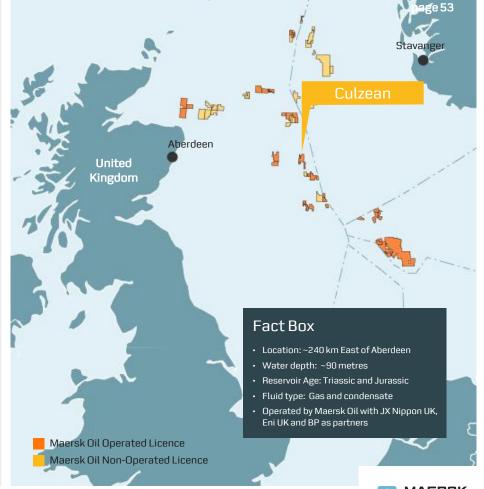
- Seismic imaging the key to unlocking Chissonga
- First operated deepwater development
- Likely stand-alone FPSO development
- First oil in 2017-18 dependent on final development plan, market conditions and concessionaire approval
- Upside; Potential for satellite tie-in



#### Culzean, UK North Sea

## A major future UK gas supplier

- Discovered in 2008
- Significant operated gas discovery with potential to be one of the largest gas discoveries in the UK sector in recent years
- HPHT capability established; strengthening our position to grow in the North Sea and beyond
- Estimated first production in 2017-2019;
   estimated net plateau production of 20-45,000 barrels of oil equivalent per day
- The field is projected to make up 5-10% of the total UK gas consumption in 2020

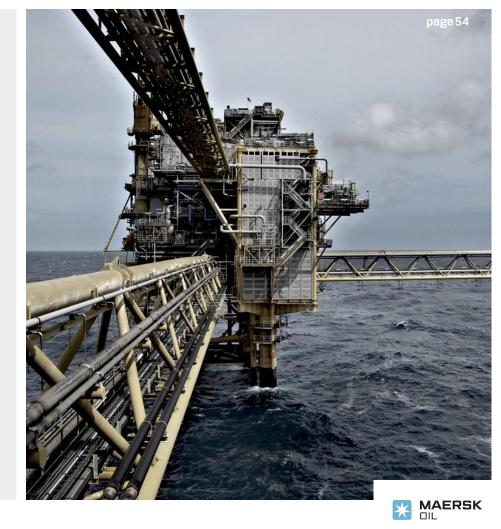


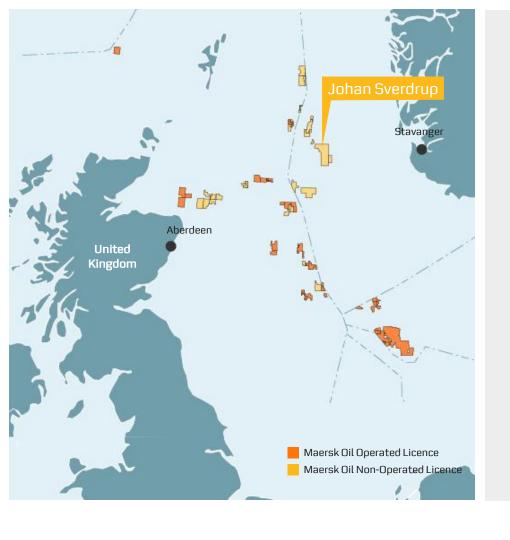


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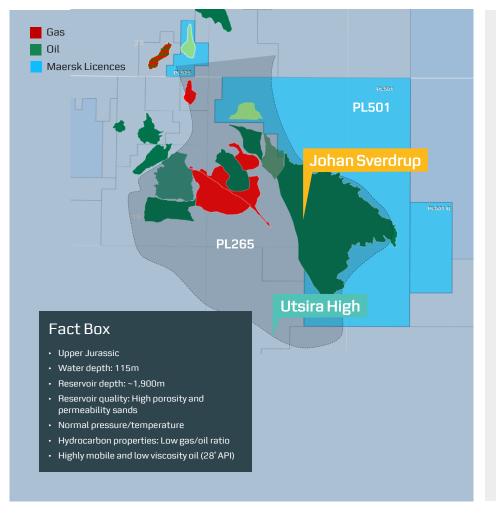


# Johan Sverdrup, Norway A new giant in Norway

- A world class discovery one of Norway's Top 5 discoveries
- Excellent reservoir quality and fluid properties
- Maersk Oil share of resources estimated at 160-360 mmboe\*
- Extensively appraised
  - 8 wells drilled to date, 4 appraisal wells still to be drilled
- Pre-unit agreement in place
- Development concept selection Q4 2013
- First oil expected in 2018



<sup>\*</sup> Operator estimate (Lundin Petroleum, August 2012)



# Johan Sverdrup, Norway A new giant in Norway

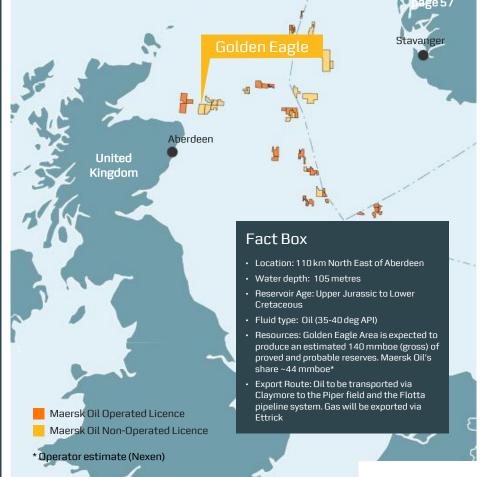
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# One of the largest UK oil discoveries in recent years

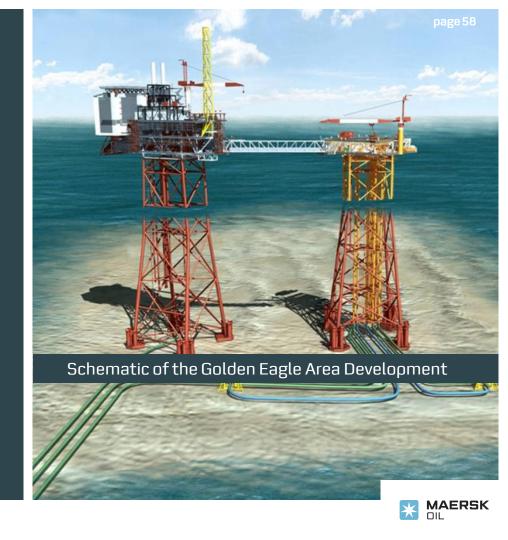
- Fields were discovered 2007-2009
- Excellent sandstone reservoirs, good quality oil
- Operated by Nexen, Maersk Oil holds 31.56%
- CNOOC's planned acquisition of Nexen not anticipated to impact project
- Upside; Possible future production hub
- On schedule for first oil in 2014





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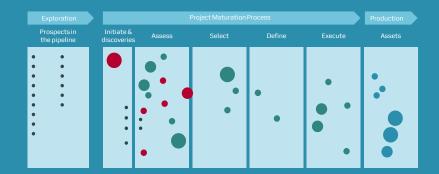
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The road to 400,000 bpd

# A robust project portfolio

- We have a diverse project portfolio and a robust project delivery plan in place to deliver our target
- Expanding our footprint with production from 10 countries by 2018
- A sharp focus on project execution we have the people, capabilities and technology to get it done



#### Project portfolio

- 14 major projects, incl. operated and non-operated megaprojects in Angola and Norway
- 95 medium to small projects, including high-value projects to increase recovery from already producing assets





# Exploration

Lars Nydahl Jørgensen, Head of Exploration



We have delivered...



# Exploration strategy in place

- Strategy step change in 2007:
  - · One global portfolio
  - One global budget
  - One exploration process
- Explore in world-class basins
- Proactive in areas where we are familiar with the geology and risks; avoid being opportunistic outside these areas

# Common technical processes

- High-grading of basins with highest prospectivity
- Global ranking of prospects
- Benchmarking against industry

# Delivering solid results

Exploration prospects drilled 65

Discoveries

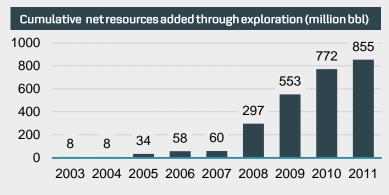
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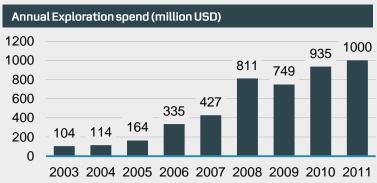
Success Rate

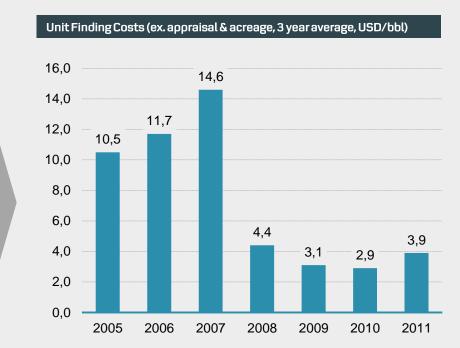
41%



### The strategy is delivering





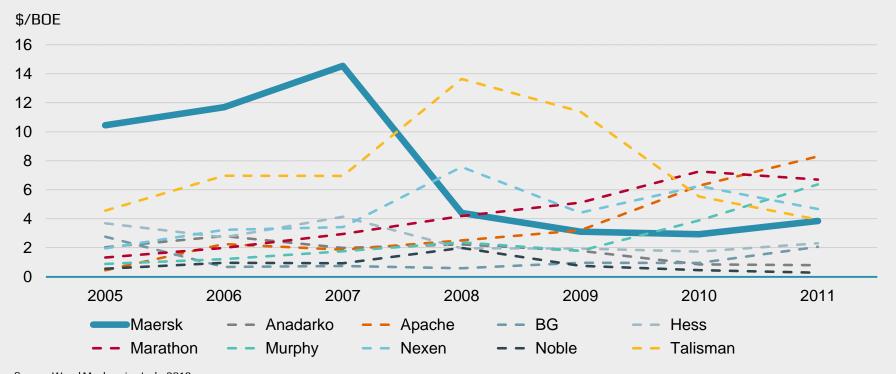


Source: Maersk Oil data, Wood Mackenzie methodology, 2012



## **Unit Finding Costs**

Maersk vs. peers (3 year average)



Source: Wood Mackenzie study, 2012



## High impact successes

#### Discovery

Golden Eagle (Including Hobby) UK

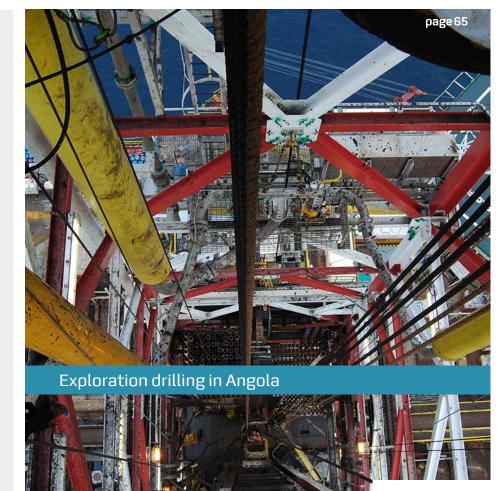
Chissonga <sup>Angola</sup>

Johan Sverdrup

Norway

Buckskin US Gulf of Mexico

Culzean uk



MAERSK DIL



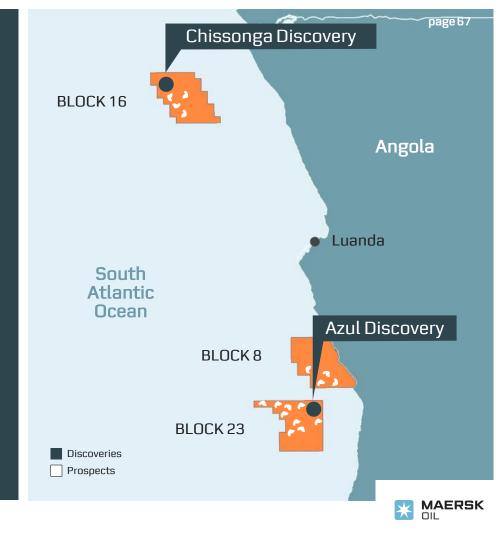
## Angola

#### **BLOCK 16**

- Chissonga Hub
- Discovery in Caporolo
- Four similar prospects to be drilled
- Pre-salt prospectivity being worked with new seismic acquisition planned for 2013 with a well planned for 2014/2015

#### BLOCK 8 and 23 pre-salt

- Azul was the first pre-salt discovery in the Kwanza Basin
- Diamante prospect to be drilled in 2013
- Further pre-salt exploration activities Opala, Safira, Celeste and Turquesa
- Further pre-salt prospectivity





# Investing for long-term growth; accessing world-class potential

- Less than 10% proven basins under licence in Santos and Campos: substantial access potential
- Established position in proven world class Campos Basin, exploring since 2006
- 2010 acquisition of pre-salt Itaipu and Wahoo discoveries, and the producing Polvo field
- Assessing Equatorial Margin potential and high-grading areas in Santos and Campos for continued growth



# North Sea Exploration Activities 2013-2014

#### Denmark

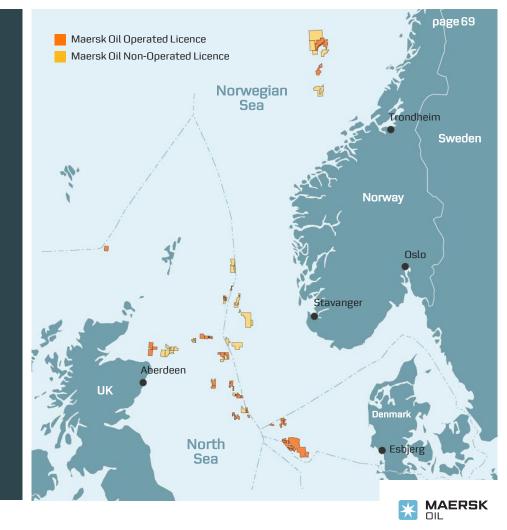
- Operate 1-2 exploration and appraisal wells and 1 high potential HPHT well (Xana-1X)
- Participate in the planned 7th licencing round

#### UK

- Operate/participate in 6–10 conventional and HPHT exploration (Culzean) and appraisal wells
- Participate in licencing rounds and farm-ins

#### Norway

- Operate/participate in 4-6 exploration and appraisal (Johan Sverdrup) wells
- Participate in licencing rounds and farm-ins







Levers for Success

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Jakob Thomasen, CEO



#### Strong Financials



#### World-Class Assets



#### Rich Project Portfolio



# Disciplined Exploration



Kenny Murdoch Chief Financial Officer

- High returns
- A step change in investment
- Reserves & resources are growing



Jón Ferrier Head of Business Development and Strategy

- A portfolio by design
- Playing to our strengths
- Successful step outs



Troels Albrechtsen Head of Technology and Projects

 A pipeline of worldclass projects taking production to 400,000



Lars Nydahl Jørgensen Head of Exploration

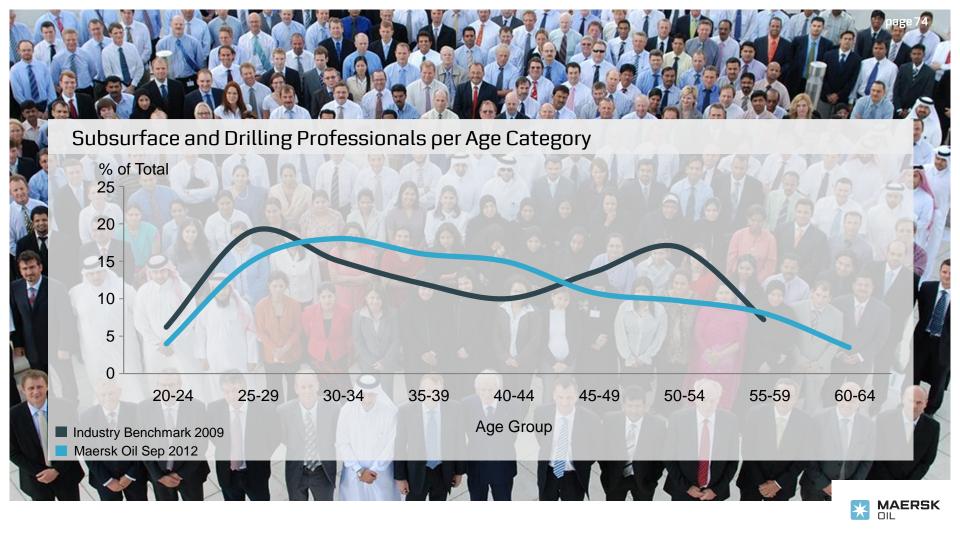
- Transformation of performance
- Sustaining the business



## Levers for success







### The Maersk Oil Executive Team



Jakob Thomasen Chief Executive Officer



Troels Albrechtsen Head of Technology and Projects



Mikkel Falkenberg Head of Legal



Jón Ferrier Head of Business Development and Strategy



Wells Grogan Head of HSE



Kenny Murdoch Chief Financial Officer



Kevin Manser Chief Operating Officer



Bruce Laws Head of the Houston Office



Lars Nydahl Jørgensen Head of Exploration



Stina Bjerg Nielsen Head of Human Resources





### Safety – our licence to operate

#### Maersk Oil safety performance

Lost Time Injury Frequency (LTIF) - per million working hours



#### Dumbarton Prod. Efficiency and Incident Rate





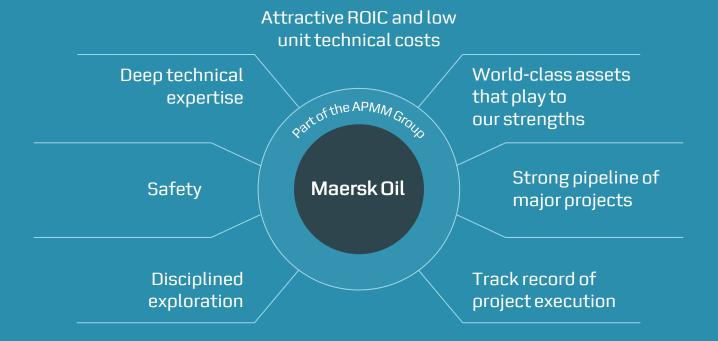
Deploying technology to unlock potential

### Maersk Oil is known for

- Turning marginal and challenging fields into commercial successes
- Early adoption and deployment of technology
- World-class project execution



## Maersk Oil – Strong fundamentals





Maersk Oil: A medium sized oil company with the financial power and the global network of a major oil company







Major Development Projects



Exploration

1) Increasing production 50% by 2020

2) Creating value by maturing existing resources to reserves

3) Spending USD 3-5 billion annually on developments



