

# CAPITAL MARKETS DAY **2018** 29 November - London



#### **DISCLAIMER**



This presentation contains certain forward-looking statements that are subject to the usual risk factors and uncertainties associated with the oil and gas exploration and production business.

Whilst Tullow believes the expectations reflected herein to be reasonable in light of the information available to them at this time, the actual outcome may be materially different owing to factors beyond the Group's control or within the Group's control where, for example, the Group decides on a change of plan or strategy.

The Group undertakes no obligation to revise any such forward-looking statements to reflect any changes in the Group's expectations or any change in circumstances, events or the Group's plans and strategy. Accordingly no reliance may be placed on the figures contained in such forward looking statements.

Capital Markets Day 2018

## CEO INTRODUCTION

Paul McDade, Chief Executive Officer





#### TODAY'S PRESENTERS FROM OUR EXECUTIVE TEAM





**CEO INTRODUCTION** 

Paul McDade Chief Executive Officer



GROWTH THROUGH
DISCOVERED RESOURCES

Mark MacFarlane
Executive Vice President, East Africa



DRIVING OUR EXPLORATION & SUB-SURFACE CAPABILITY

Angus McCoss
Exploration Director



MAXIMISING PRODUCTION





FINDING NEW OIL

lan Cloke
Executive Vice President, New Ventures



FUNDING OUR GROWTH

Les Wood
Chief Financial Officer

#### A NEW EXECUTIVE TEAM DELIVERING ON OUR OBJECTIVES



#### CONTINUED STRENGTHENING OF BALANCE SHEET

#### FREE CASH FLOW

#### **BALANCE SHEET**

#### PORTFOLIO MANAGEMENT

## Maximising free cash flow through:

Increased production
Efficient capital allocation
Embedded cost discipline

## Strengthened balance sheet through:

Significant debt reduction

Long-term gearing of 1-2x

Secured RBL & Bond refinancing

## Progress monetisation options:

Uganda farm down
Exit non-core assets
Selective exploration farmdowns

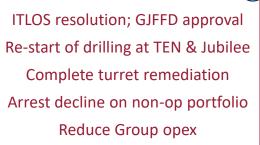
#### MAXIMISING VALUE FROM CURRENT PORTFOLIO

#### **WEST AFRICA**

#### **EAST AFRICA**

#### **NEW VENTURES**

#### **Maximise production:**



#### **Develop discoveries:**

Farm-down Uganda equity
Driving Uganda to FID
Shift from E&A to phased
development in Kenya

Target Kenya FID end 2019

#### Find new oil:



Seek new high-value opportunities



#### **OUR AMBITION TO GENERATE SUSTAINABLE VALUE**



Balancing the interests of our investors, host countries and people

#### DEFINING TULLOW'S POSITION IN THE E&P INDUSTRY



#### ————— The four pillars of our growth ambitions















A balanced E&P business, focused on oil & specialising in emerging markets

Capital Markets Day 2018

# DRIVING OUR EXPLORATION & SUB-SURFACE CAPABILITY

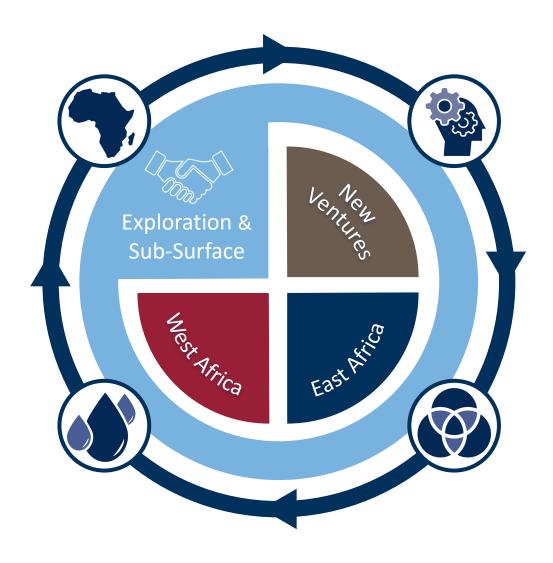
Angus McCoss, Exploration Director





### A DISTINCTIVE & COLLABORATIVE WAY OF WORKING





#### **BALANCED E&P BUSINESS**



#### Balance: Portfolio-Programme-People

- **E Exploration**: seasoned basin openers
- A Appraisal: just in time & optimised
- **D Development**: agile & efficient
- P Production: low cost & long plateau

E - #1: Finds new oil

- A Early appraisal of discoveries
- **D** Pre-drill development concepts
- P Discovery well testing

Ventures

Trusta variante automatical difference

- **E** Exploration to extend field life
- A Sequence for oil development
- **D** Develops oil to sustain production
- P #1 Produces oil for revenues

astRic

- **E** Exploration for incremental phases
- A Delineation & injection trials
- D #1 Develop major oil projects
- P New major production hub

#### **UTILISING SMART TECHNOLOGY**



#### Innovative early adoption



New tools for old challenges



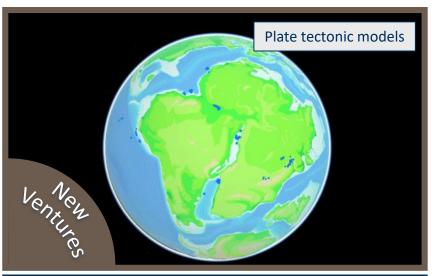
Leverage proven technologies

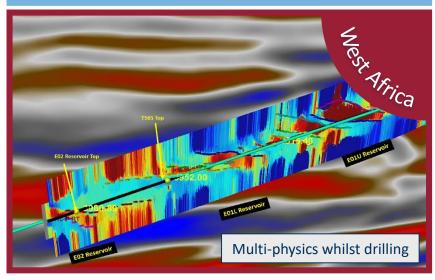


Effective cross-application



Low cost experimentation







#### APPLIED GEOPHYSICAL TECHNOLOGY



#### Centre of excellence in Dublin



World class geophysical group



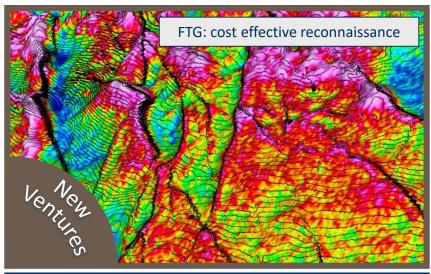
Knowledge across asset life cycle

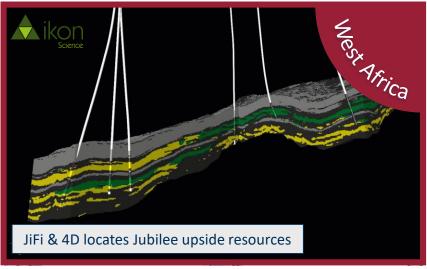


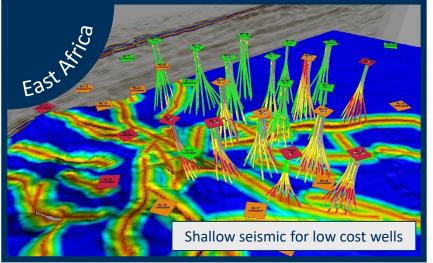
Bespoke acquisition & processing



Maximizing 'bang for buck'







#### DELIVERING VALUE THROUGH DIGITALISATION



#### Bold digitalisation goals



Culture of innovation



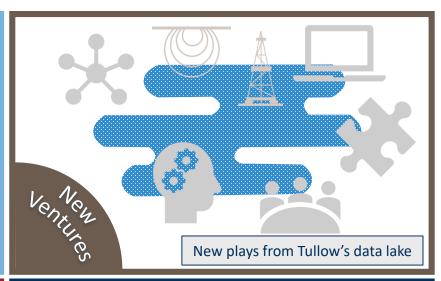
Smart people + smart data

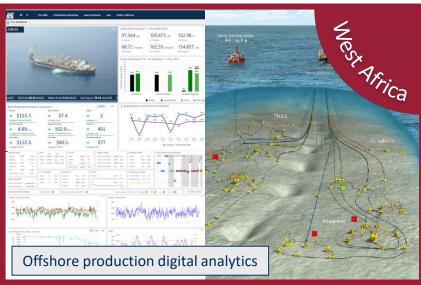


e-Enabled collaboration



Digitally enhanced performance







#### **VALUE TO OUR BUSINESS**



#### Distinctive & collaborative way of working

- Balanced E&P with full-cycle opportunity set
- Collaboration with agility, leveraging skills with deep learning
- Value creation applying leading-edge technology

#### FINDING NEW OIL

>2 Bbo

unrisked gross resource potential to be tested over next 3 years

## GROWTH FROM DISCOVERED RESOURCES

~2.3 Bbo

discovered gross 2C resources maturing towards new production

## MAXIMISING PRODUCTION

>1.5 Bbo

gross discovered resource base for production

Our distinct approach across exploration & sub-surface creates value upside

Capital Markets Day 2018

## FINDING NEW OIL

lan Cloke, EVP New Ventures





#### A BUSINESS APPROACH TO EXPLORATION













#### **Focused**

Refined
portfolio of
high-value
assets in
Africa & South
America

#### **Smart deals**

\$300m from deals completed over the last three years

#### Discipline

Rigorous, consistent & disciplined deployment of capital

#### Efficiency

Savings through agile working, turnkey solutions & new technology

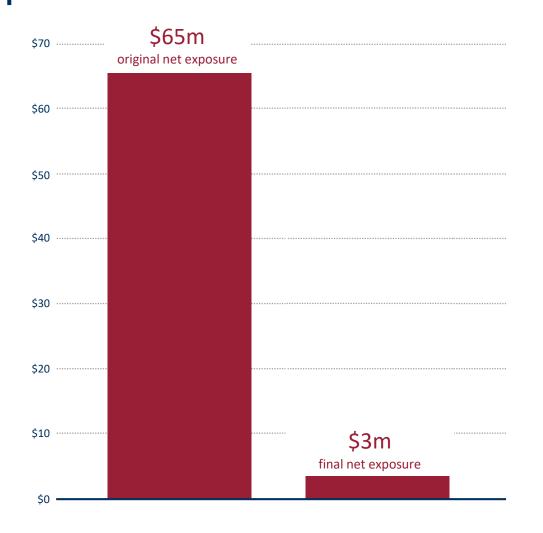
## Superior execution

Simple wells delivered safely, responsibly, on time and on budget

Maximising the value of every \$ in pursuit of exploration success in 2019 and beyond

#### STRATEGY IN ACTION – CORMORANT WELL







Focused only on shallow target



Simplified well design



Farmed down to 35% with past costs & carry



Lean, low-cost, responsible operation

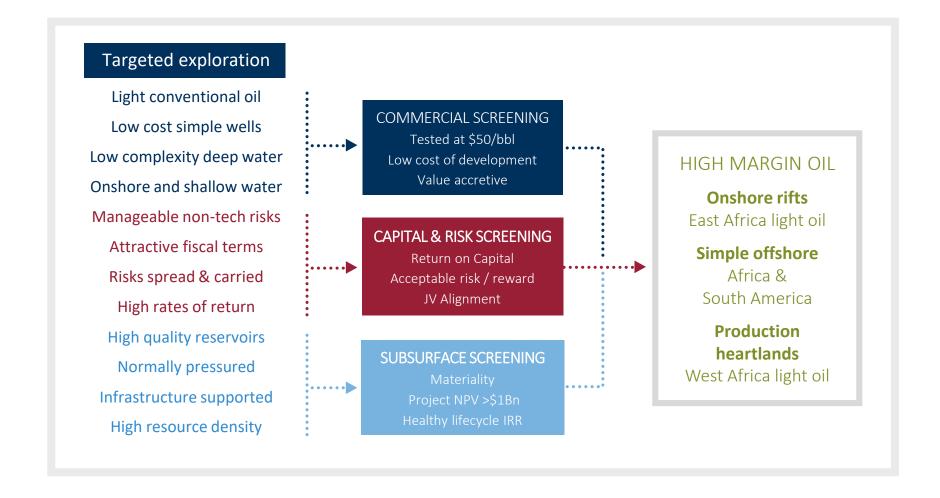


Superior delivery reducing non-productive time

Ability to test frontier basins with low-cost exposure wildcat wells

#### **EXPLORATION CRITERIA FOR VALUE CREATION**

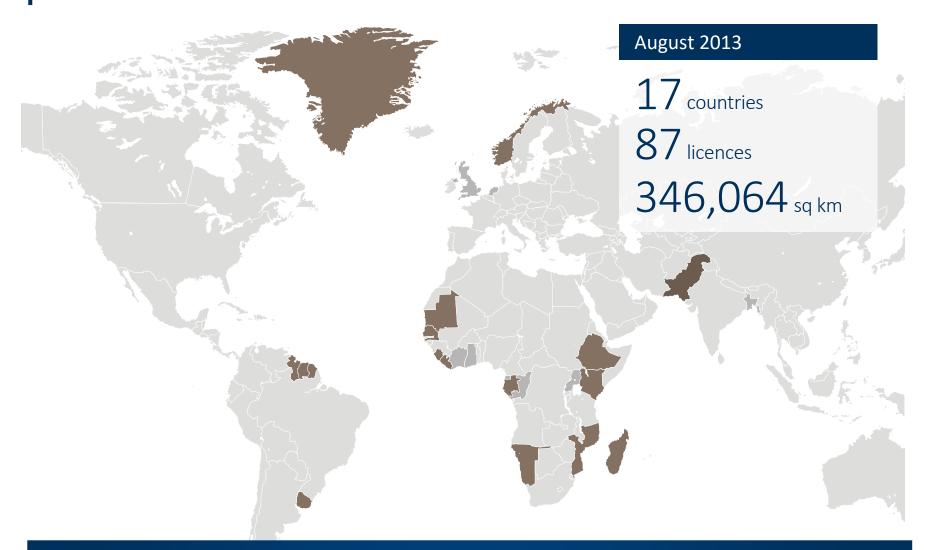




Creativity balanced by fiscal discipline, technical/commercial rigour & business acumen



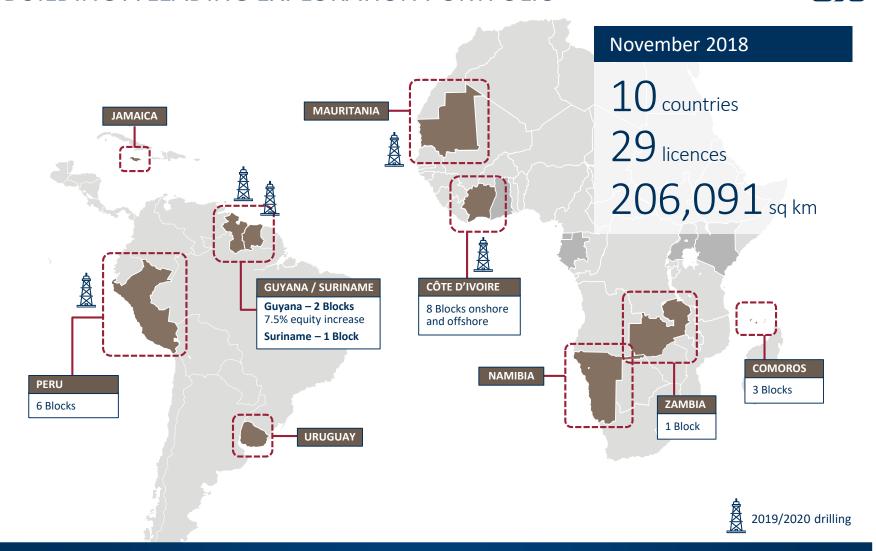
### RESETTING OUR EXPLORATION PORTFOLIO



#### Exit from non-core acreage

## TULLOW

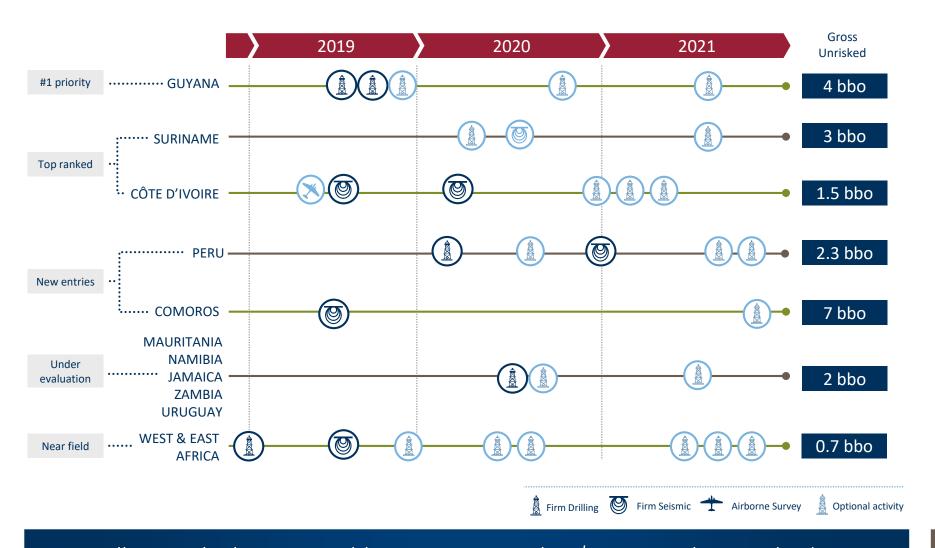
#### **BUILDING A LEADING EXPLORATION PORTFOLIO**



Focused portfolio of high value opportunities

## TULLOU

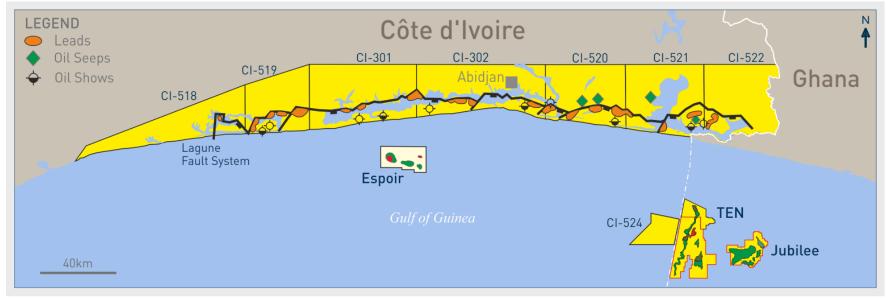
#### MULTIPLE HIGH-IMPACT CAMPAIGNS OVER NEXT THREE YEARS



Drilling 3-5 high impact wildcats per year, within \$150m exploration budget

### SPOTLIGHT ON CÔTE D'IVOIRE







Low-cost exploration in core West Africa oil province



Using both proven & innovative technology



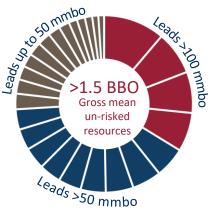
Carried work programme; 60% operated equity



High-value barrels & low breakeven



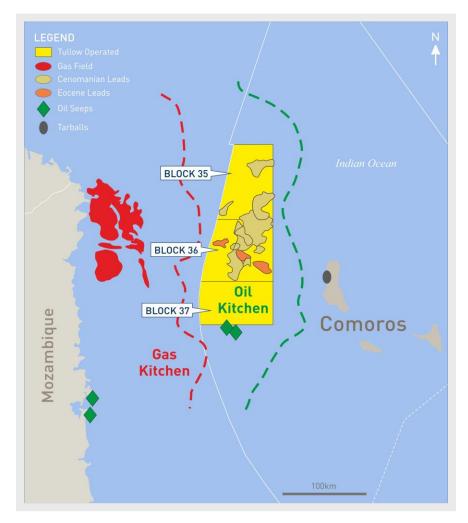
Light footprint execution across 8,000 sq km acreage



Identification of an underexplored play & rapid capture of an industry-leading position

#### SPOTLIGHT ON COMOROS







~7 BBO
17 Leads
16,063 sq km
35% equity



Large, operated, offshore oil play in East Africa



Simple drilling and attractive fiscal terms



Managed cost exposure in frontier acreage



Flexible options to leverage seismic market

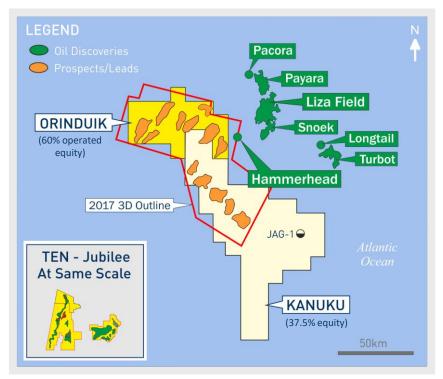


Rapid deal-making with like-minded partner

Building a sustainable frontier exploration programme for 2021 and beyond

#### SPOTLIGHT ON GUYANA









Shelf-edge acreage in industry hot-spot



Leveraging a decade of knowledge



Increased equity in Kanuku, up-dip of giant oil discoveries



Acquired 3D seismic at bottom of industry cycle

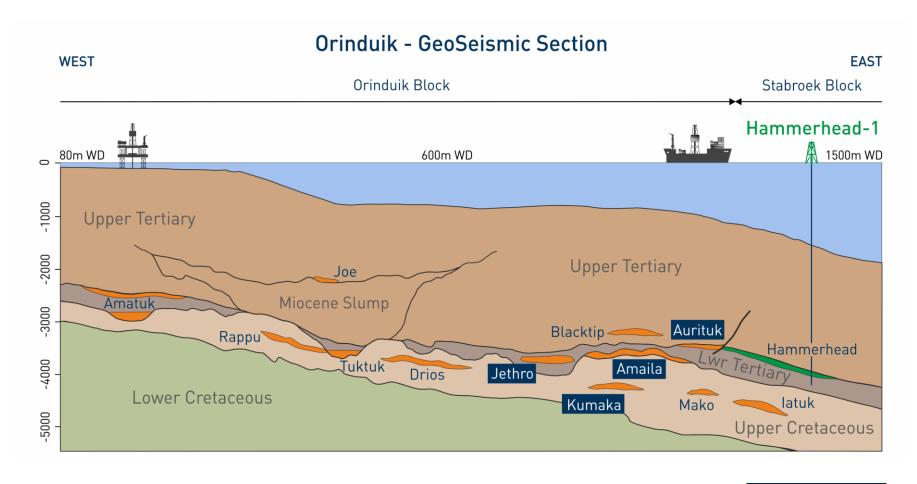


Sharing Ghana operational expertise to maximise efficiencies

>1 bbo gross unrisked resources to be tested by three wells in 2019

#### SPOTLIGHT ON GUYANA





2019 drill candidates

Transformational opportunity with multiple follow-up potential

## TULLOU

#### **OUTLOOK FOR OUR NEW VENTURES BUSINESS**

Active d	Irilli	ng p	lans

Testing five high impact areas in the next three years

Reset portfolio

Acreage in current and emerging hotspots

Gained entry at low cost

Quality validated by the calibre of farm-in partners

Rigorous & disciplined

Repeatable exploration process and capability

Fiscal discipline

Deliver programme within \$150m exploration budget

Focus on delivery

Positioned to deliver exploration success

Reset and ready to commence multi-year, high-impact exploration campaigns

Capital Markets Day 2018

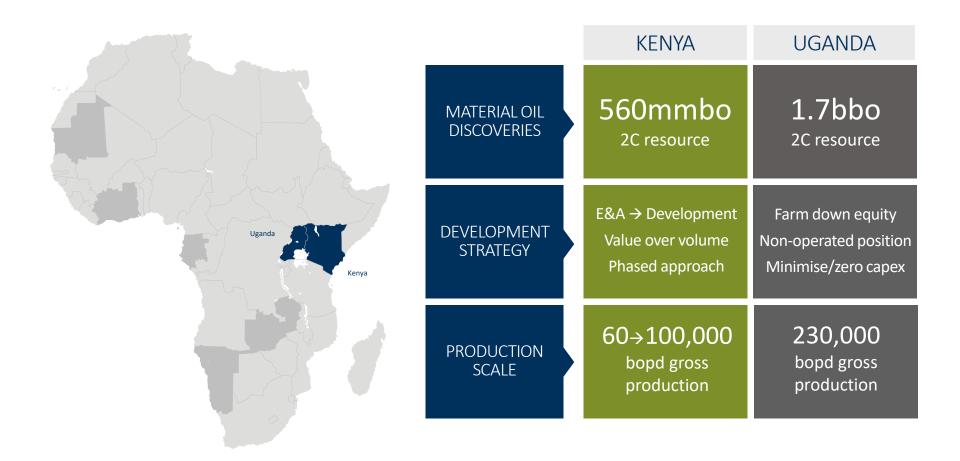
# GROWTH FROM DISCOVERED RESOURCES

Mark MacFarlane, EVP East Africa





### UGANDA & KENYA - DEVELOPING TRANSFORMATIONAL DISCOVERIES



Targeting ~300,000 bopd gross production from East Africa in the early 2020s

#### **UGANDA IS A BEST-IN-CLASS PROJECT**



#### Key project metrics

~\$3.5 billion

value of farm-downs by Tullow in Uganda since 2012



~100 mmbo

net 2P reserves to be booked at FID

~\$4.50/bbl unit upstream Capex

Final Investment Decision in 1H 2019







23,000 bopd net Tullow production 2.5bn bbls material 3C technical upside

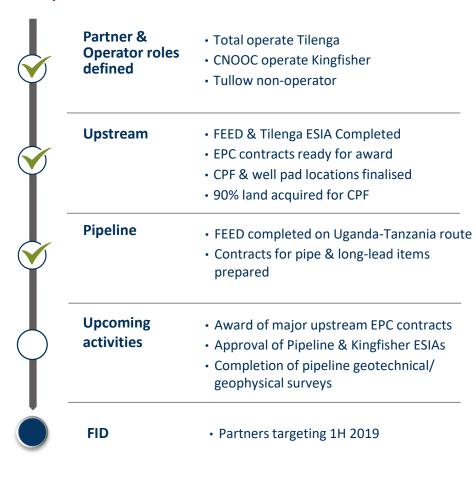


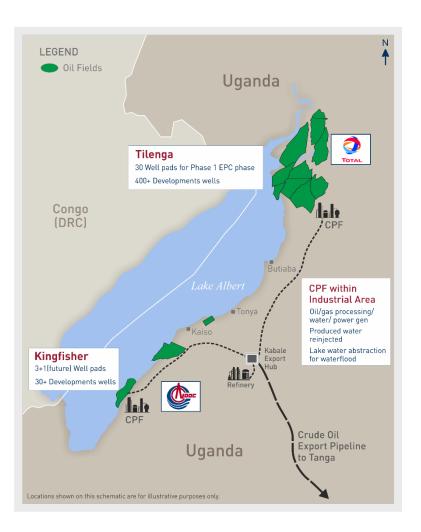
Robust development; Tullow share funded through farm down

#### **UGANDA - PROJECT UPDATE**



#### Key milestones to FID





Multiple technical milestones achieved in readiness for FID 1H 2019

## KENYA - A PROGRESSIVE APPROACH TO ONSHORE FIELD DEVELOPMENT



#### A new strategy to commercialise Kenya discoveries

Shift from E&A to development

Assess and verify resource base

Accelerate commercialisation of discoveries

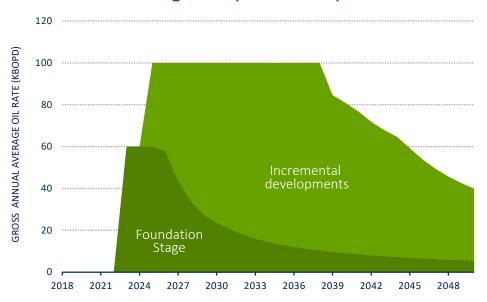
Design phased development concept

Gain full support of Government

#### South Lokichar resources



#### Long-term production profile



Single focus of accelerating the development of Kenya's resources

## TULLOW E

#### PROJECT OIL KENYA – KEY BUILDING BLOCKS TO PROJECT DELIVERY













- Alignment in Fiscal, Commercial & Legal terms
- Agreed approach to land, water & infrastructure
- Social investment & local content plans
- Implementing lessons through EOPS

- Facilitated revenue sharing agreement
- Critical technical data being received
- Raises awareness of project at all levels
- Evaluates above-ground readiness
- Supports delivery of full scale development

- Oil in place analysis complete
- Dynamic data integrated into models
- Water-injection testing complete
- Well count & spacing confirmed
- Factory drilling approach

- Optimised CPF design to minimise cost
- Lean, modular CPF to process 80kbopd oil initially
- Flexibility to expand to 100kbopd+ with minimal capex & shutdown
- 18", 821km buried, heated pipeline
- Route through existing LAPSSET corridor
- Land access engagement with county ministries under way
- Construction of Lamu Port advancing well

Significant amount of work completed by Partners and Government in 2018

#### KENYA – STEPPING STONES TO FID



#### To achieve FID in 2019, the following tasks must be completed:

Complete pipeline & upstream Front End Engineering & Design



Submit Environmental and Social Impact
Assessment



Finalise agreements over land title for upstream and pipeline

Heads of Terms for critical commercial frameworks with Govt

Finalise contract on agreed project water source

Award of Engineering,
Procurement and
Construction contracts

Implement project finance structure for the pipeline

Ambitious, clear path to achieving FID in 2019, first oil in 2022



#### CREATING TULLOW'S NEXT PRODUCTION HUB



MATERIAL OIL DISCOVERIES

~2.3bn bbls 2C resources

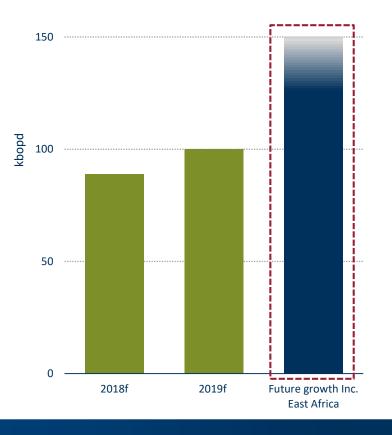
EXECUTING DEVELOPMENT STRATGY

Single focus on delivery & execution

REALISING PRODUCTION SCALE

Material step up in growth for Tullow production

FUTURE OUTLOOK Additional near-field & wider East Africa regional plays



East Africa remains core component of Tullow's growth strategy

Capital Markets Day 2018

## MAXIMISING PRODUCTION

Gary Thompson, EVP West Africa





#### CASH GENERATION FROM EXISTING ASSETS

#### WEST AFRICA BUSINESS

## PRODUCTION GROWTH

- Scope to grow net production beyond 100,000 bopd
- · Return to a multi-year drilling campaign in Ghana
- Revival of Central & West Africa portfolio

#### RESERVES GROWTH

- Significant scope for continued reserves & resources growth
- Organic delivery of Ghana business that is still growing
- Portfolio of infill, near-field, and exploration opportunities

LOW RISK/ HIGH VALUE

- Low-cost operations averaging ~\$10 opex/bbl
- High-quality, low-sulphur light crudes, appealing to global markets
- Established relationships and expertise through 30+ years in West Africa

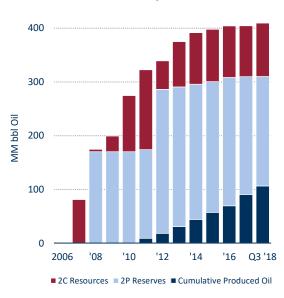


# GHANA BUSINESS DELIVERED ORGANICALLY



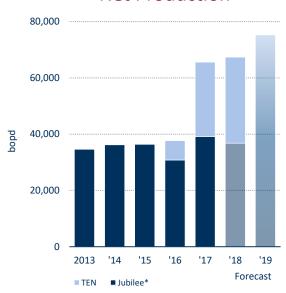
### Significant asset base early in production lifecycle

### Net Reserves/Resources



### Robust business delivering growing production

#### **Net Production**



# **Business reset &**



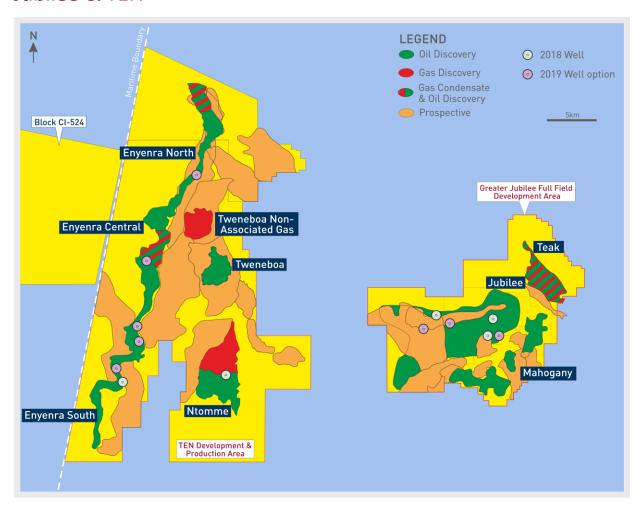




# **GHANA RESERVES & RESOURCES**



### **Jubilee & TEN**



#### Jubilee Oil (gross)

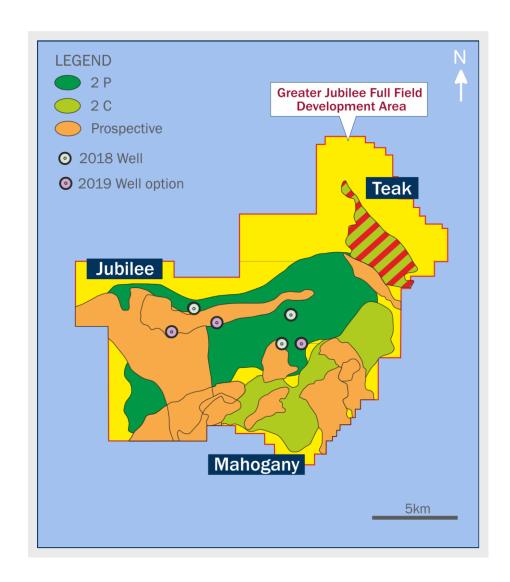


TEN Oil (gross)



## JUBILEE RESOURCES



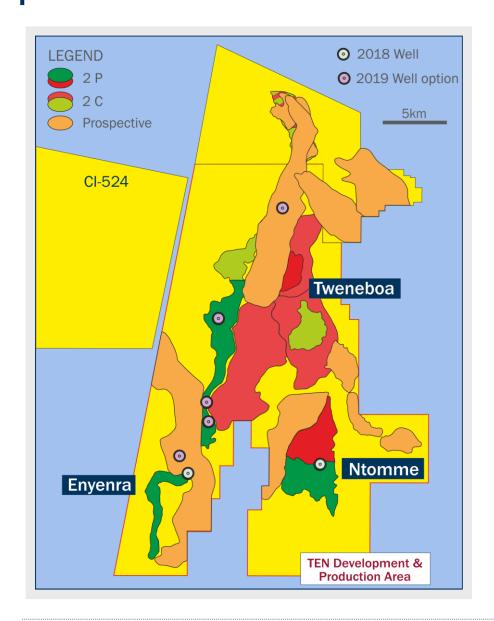


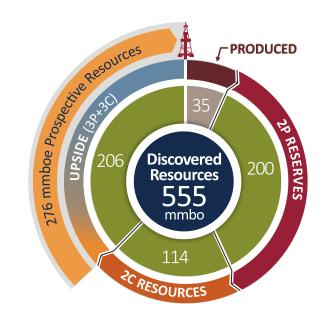


- Jubilee remains a world class asset with a significant 2P Reserves base
- 2C Contingent Resources primarily located in Jubilee & Mahogany
- Material 3P + 3C upside will be continually assessed as drilling campaign progresses
- Significant potential for organic growth through exploration in existing licence

## TEN RESOURCES



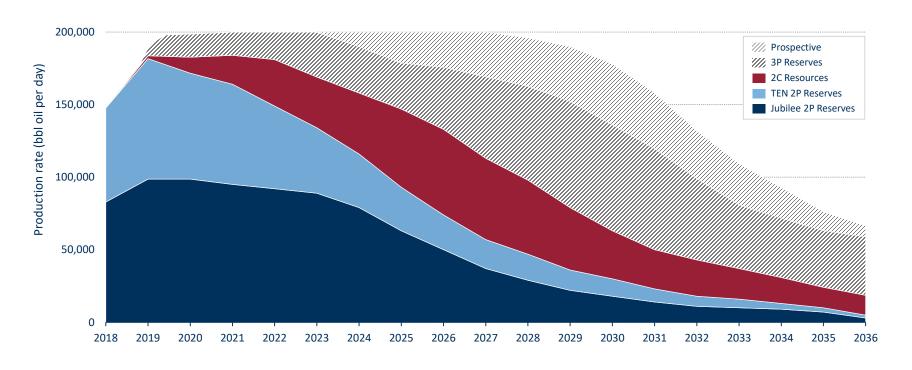




- Strong production performance from TEN with bulk of reserves still to be produced
- Material 2C Resources to be tied-back to TEN FPSO
- Significant 3P + 3C upside potential
- Portfolio of near-field exploration opportunities
- Additional exploration opportunities in Block CI-524, adjacent to TEN licence

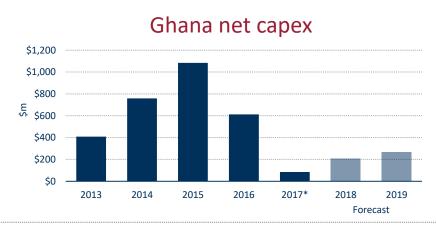
# GHANA LONG-TERM PRODUCTION OUTLOOK





### Investment to sustain production

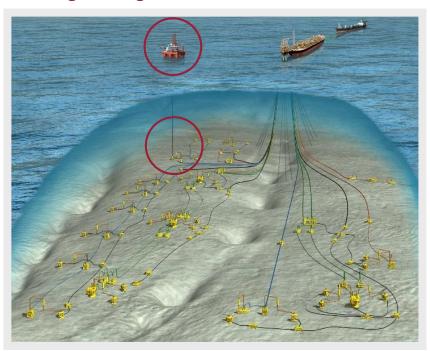
- Growing production to 180,000+ bopd
- \$200-300m annual capex to grow & sustain plateau
- Market conditions continue to facilitate capex flexibility



# **COST DISCIPLINE & PERFORMANCE: WELLS**



### Well Engineering







Maersk Venturer & Stena Forth  $6^{th}$  generation deepwater drilling rigs

# -\$52m

Average well cost difference of 2018 wells vs. previous campaign

97%

2018 drilling rig operational up-time

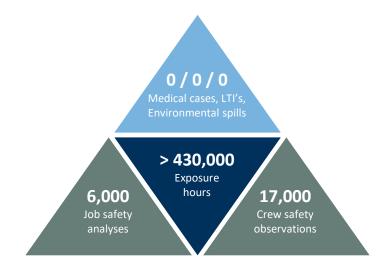
## -1.75 Days

Reduction in average drilling days per well vs. previous campaign 26

Re-tendered / re-negotiated service company contracts since 2014

# Top Quartile

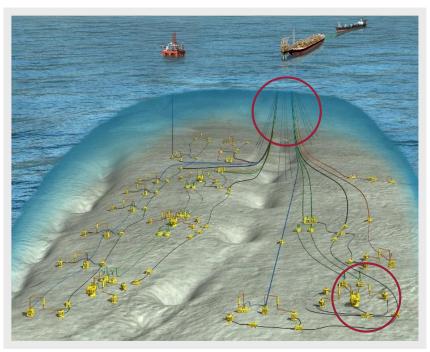
5 of last 7 wells achieved top quartile drilling performance Vs. Peers. All 7 are top 50%.



# PROJECT DELIVERY & INNOVATION: SUBSEA

# TULLOW E

### Subsea Engineering



#### Additional initiatives being pursued

- Flexible jumpers with flow access modules vs. Rigid jumpers
   Less bespoke, more standardised components to reduce lead-times
- Elimination of costly riser base structures in add-on developments
- Heated pipe vs. conventional dual-flowline architecture
  - Possible improvement in flow-assurance to increase production efficiency

# Innovation in TEN Additional Development Opportunities



Source: Enpro Subsea

Inline-Tee's concept as a cost-effective alternative to production manifolds saving ≈ \$35m each

# Rig-less well interventions at lower costs with less production deferment

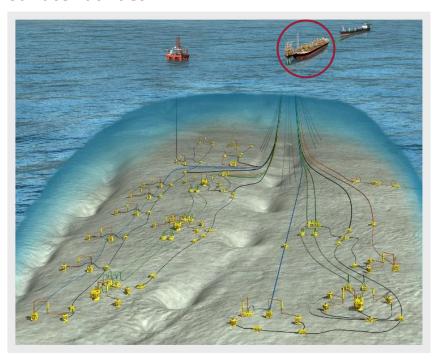


Use of construction support vessels are saving \$3-5m/well with reduced oil deferments

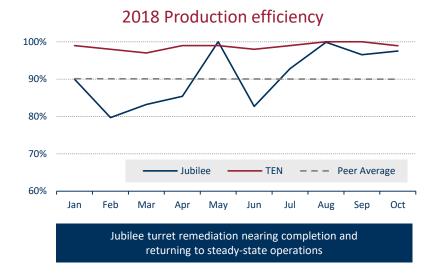
# **EFFICIENCY & UPTIME: FPSO PERFORMANCE**



#### **Surface Facilities**



- TEN FPSO operating efficiency consistently > 98%
- Jubilee FPSO operating efficiency increasing post-2018 planned shutdowns
- Increasing oil production by de-bottlenecking gas processing capacity
- Production optimisation & 'Produce-to-the-Limit' processes embedded
- Next step: implementation of digitalisation



#### Jubilee gas handling capacity



Growing production by systematically removing bottlenecks

## **DIGITAL OPERATIONS**



## INVESTING IN THE FUTURE

#### The Goal

Improve production & safety performance

Drive uptime through failure prediction

Minimise failures to lower maintenance costs

#### How

Implement digital program

Leverage proven application from other FPSOs

Digital hardware & data to implement program in place

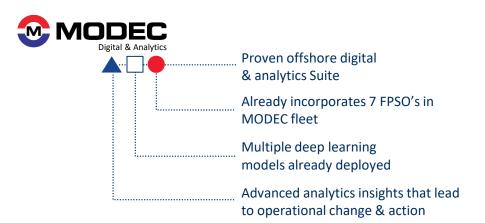
#### What next?

Launching initial initiative in 2019

Fast adoption by leveraging Brazil experience

Small 2019 CAPEX commitment

Ability to extend digitalisation benefits from FPSO to subsurface & subsea







# **CENTRAL & WEST AFRICA PORTFOLIO**



### NON-OPERATED ASSETS

### Solid production base

28% of 2018 Group production

Focus on low-investment/high-value

Stable 5+ year production profile

~\$16 opex/boe

#### Diversified & low risk

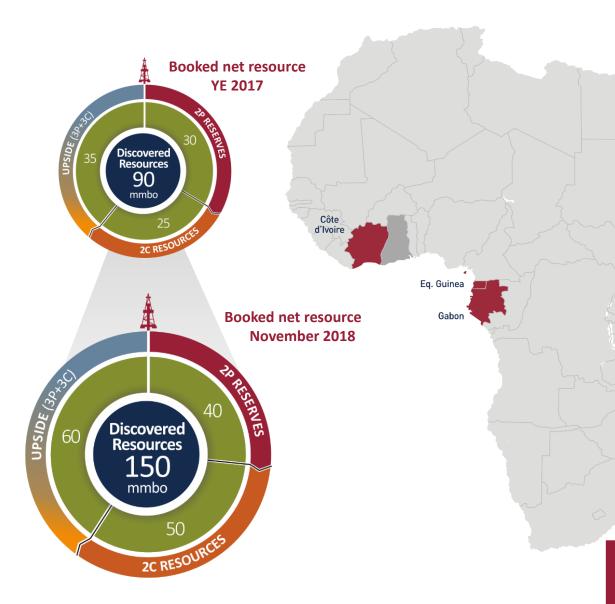
3 countries / 26 licences / 24 fields 14+ years of regional experience Primarily infill drilling & workovers

### Platform for growth

Near-field exploration

New exploration licences

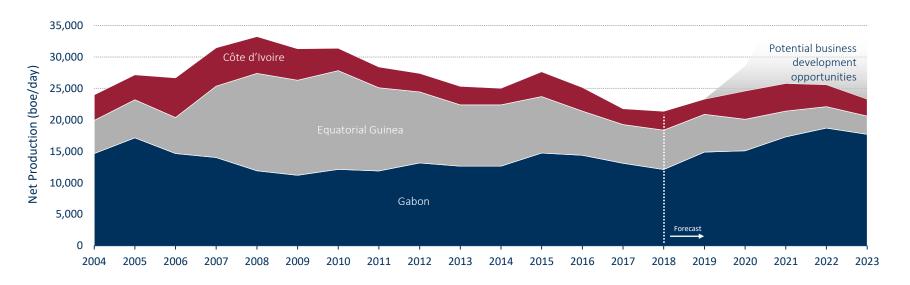
Bolt-on business development

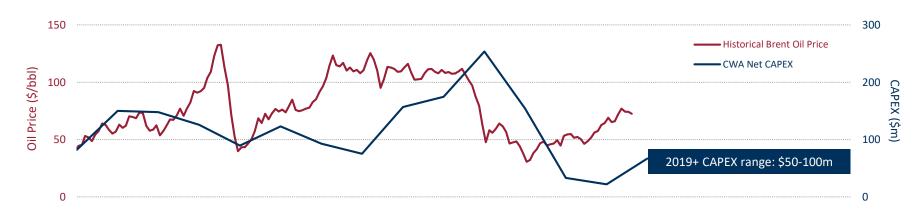


# CENTRAL & WEST AFRICA PERFORMANCE



### Reliable long-term production with capex flexibility





# **CENTRAL & WEST AFRICA REVIVAL**



160%

CWA 2P reserves replacement in 2018

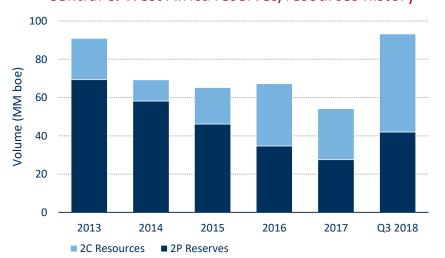
(12.5 mmboe added in 2018)

70%

CWA 2P+2C resources increase in 2018

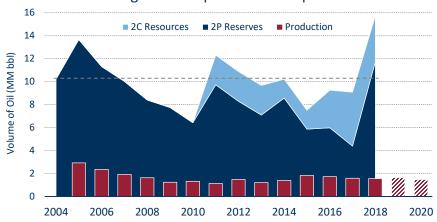
(~35 mmboe increase in 2018)

### Central & West Africa reserves/resources history



### Tchatamba







# WEST AFRICA BUSINESS SUMMARY



#### Investment overview

- Diversified portfolio of low-cost, long-life assets that continues to deliver strong cashflows
- Continued investment in Non-Operated Portfolio delivering low-risk value and diversification
- Near term growth to ~100kbopd net production
- Return to a multi-year drilling campaign in Ghana to increase production
- Significant scope for continued reserves/resource maturation and growth
- Established long-term relationships in West Africa that underpins further growth aspirations



Capital Markets Day 2018

# FUNDING OUR GROWTH

Les Wood, Chief Financial Officer



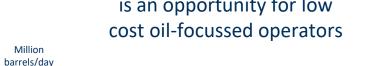


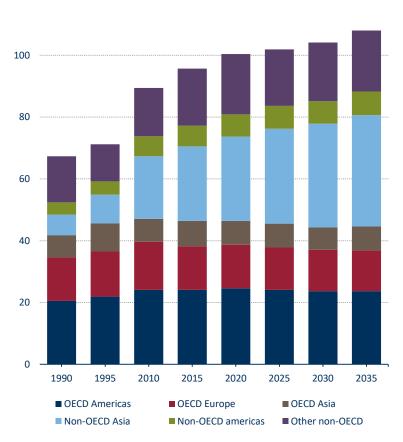


# SECTOR AND OIL PRICE OUTLOOK CREATES OPPORTUNITIES

Oil Price

## Growing long term global oil demand is an opportunity for low cost oil-focussed operators





Source: Energy Information Administration

## Flexible capital allocation creates the opportunity for growth against the backdrop of a volatile oil price

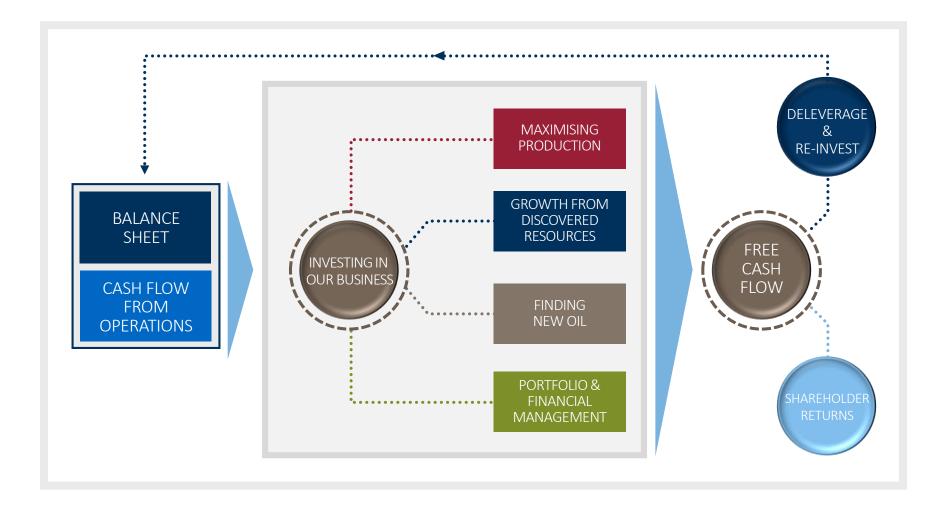


Source: Bloomberg and Tullow data @ 21/11/18

120

# A BALANCED SELF-FUNDING E&P COMPANY



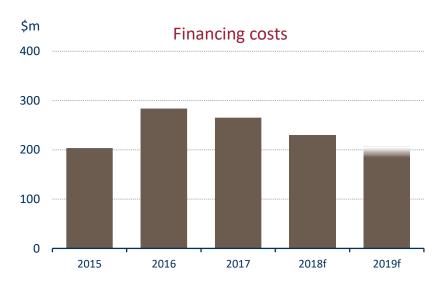


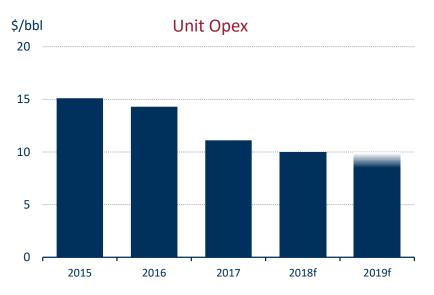
Strong free cash flow generation provides a solid platform for growth and returns

# COST BASE RESET FOR THE LONG TERM









### Continued cost discipline

- Competitive industry cost base
- · Cost conscious culture embedded
- Targeting further operational efficiencies
- Optimising capital structure
- Sustaining low cost base through the cycle

# CONTINUED PRUDENT FINANCIAL MANAGEMENT



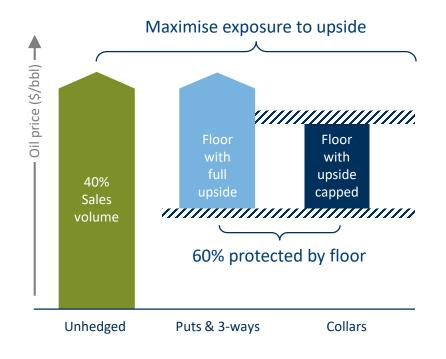
### Diversified and evolving capital structure

- A balance of funding sources
- Revolving RBL provides long-term flexibility
- Strong liquidity headroom
- No near-term maturities



### Revenue protection through hedging

- Proven hedging policy over 10 years
- Continue to systematically hedge
- Ongoing optimisation of structure and cost
- 2015-17 yielded \$850 million



## CAPITAL ALLOCATION FRAMEWORK



### **DEBT AND LIQUIDITY**

Balance sheet robust to future oil price volatility

Driving net debt below \$2 billion in near term

Retain flexibility with longer term gearing of 1x-2x

Ensuring headroom for future opportunities

#### **INVESTING IN OUR BUSINESS**

Apply strict criteria to allocate capital across the portfolio:

### **Maximising production:**

Immediate cashflow High returns, short payback

# **Growth from** discovered resources:

Future cash flow Medium-term payback

#### Finding new oil:

Significant value
New resources, capital growth

Other opportunities

#### SHAREHOLDER RETURNS

Demonstrating financial discipline and business progress

Capital Returns Policy established

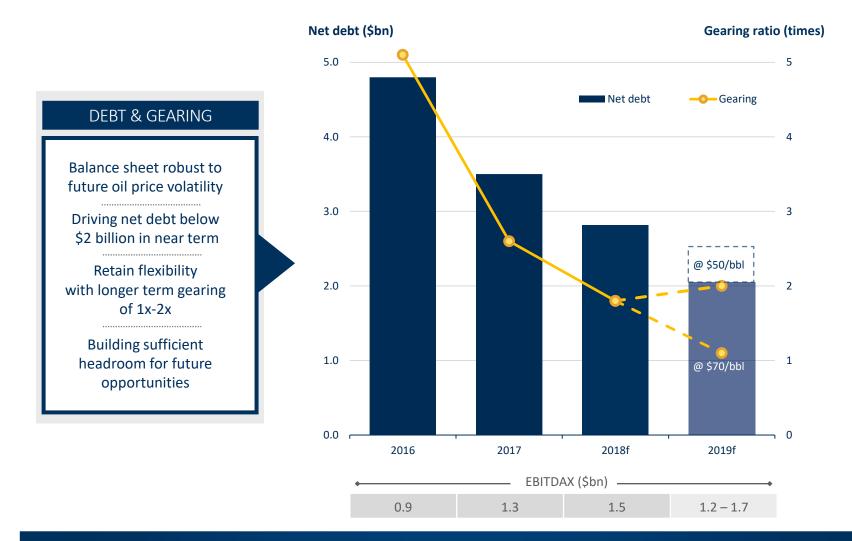
Sustainable annual ordinary dividend

Additional returns in periods of strong FCF

Balanced capital allocation focused on maximising shareholder returns



## DELEVERAGING THE BALANCE SHEET REMAINS A PRIORITY



# Robust balance sheet provides flexibility to support growth

Note: 2019 forecasts based on oil price range of \$50/bbl and \$70/bbl



# ATTRACTIVE OPPORTUNITIES FOR CAPITAL INVESTMENT

#### **INVESTING IN OUR BUSINESS**

Apply strict criteria to allocate capital across the portfolio:

#### **Maximising production:**

Immediate cashflow High returns, short payback

#### **Growth from**

#### discovered resources:

Future cash flow Medium-term payback

#### Finding new oil:

Significant value
New resources, capital
growth

Other opportunities

← Annual investment outlook — →		
MAXIMISING PRODUCTION	\$200m - \$300m Ghana	\$50m - \$100m Non-op
GROWTH FROM DISCOVERED RESOURCES	Fully covered Uganda	<b>\$75m</b> Kenya (pre-FID)
FINDING NEW OIL	Up to \$150m Exploration	
<ul> <li>Invest up to \$600m in high value assets</li> <li>Flexibility to lower capex if required with low oil price</li> </ul>		

Disciplined capital investment in opportunity rich portfolio

2019 capex forecast of ~\$570m

# TULLOW

# FINANCIAL PROGRESS ENABLES SHAREHOLDER RETURNS

#### SHAREHOLDER RETURNS

Demonstrating financial discipline and business progress

Capital Returns Policy established

Sustainable annual ordinary dividend

Additional returns in periods of strong FCF

### FREE CASH FLOW <sup>1</sup>

- Strong free cash flow generation outlook
- Balance across debt, investment and returns

# RETURNS POLICY

- Established for 2019 financial year onwards
- One-off 2018 returns to be reviewed at year-end

### ORDINARY DIVIDEND

- Ordinary dividend of no less than \$100 million
- Paid semi-annually between interim and final

# ADDITIONAL RETURNS

 In periods of particularly strong FCF, the Board will look to supplement with additional returns

Confidence in future delivery allows reinstatement of sustainable dividend

<sup>1</sup>Free cash flow: Cash after all costs, capex and financing but before dividends and debt paydown

# A BALANCED E&P DELIVERING GROWTH & RETURNS



## Cash generation

- Reset business delivering substantial free cash flow
- Balanced capital allocation to maximise returns

### **Debt & Gearing**

- Significantly strengthened balance sheet
- Deleveraging remains a priority

### Investing in our assets

- Disciplined capital investment to grow our business
- Flexibility retained to respond to oil price below \$50

### Shareholder returns

- Capital Returns Policy established
- Ordinary dividend supplemented by additional returns

## Delivering on our targets to create value for our shareholders

Follow Tullow on:









### **Tullow Oil plc**

9 Chiswick Park 566 Chiswick High Road London, W4 5XT United Kingdom

Tel: +44 (0)20 3249 9000 Fax: +44 (0)20 3249 8801 Email: ir@tullowoil.com Web: www.tullowoil.com

