

# Tullow Oil plc

# 2011 FULL YEAR RESULTS

14 March 2012



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Tullow Oil plc – 2011 full year results

Introduction – Aidan Heavey

# TULLOW

# Positioned to deliver next stage of growth



- Jubilee production drives record financial results
- Uganda farmdown transforms the balance sheet
- Exploration opens third major new basin
- Appraisal success drives TEN development towards sanction
- Material new acreage positions acquired





Tullow Oil plc – 2011 full year results

Finance – Ian Springett

# TULLOW I j š

## Creating shareholder value

#### Consistent and repeatable strategy

- Sustainable long term value growth
- · Balance exploration, major projects & funding
- Safety, environment, stakeholders & people

- High-impact exploration portfolio
- Ghana; Jubilee production, progressing TEN project
- Uganda: farm-down completed; new partnership Total/CNOOC
- Opened new basin French Guiana
- Nuon; EO acquisitions

#### Underpinned by financial strategy

- Strong, well funded balance sheet to enable growth
  - Debt and equity funding
  - Portfolio management
- Significant operational cash flow

- \$3.5bn RBL debt facility
- \$650m Corporate facility
- Proceeds Uganda farm-down
- Jubilee production ramp-up
- Managing mature production

# 2011 full year results summary

	2011	2010	Change
Sales revenue	2,304	1,090	+111%
Operating profit	1,132	262	+332%
Net profit	689	90	+670%
Basic earnings per share	72.5	8.1	+795%
Dividend per share	12.0	6.0	+100%
Capital investment <sup>1</sup>	1,432	1,235	+16%
Cash generated from operations <sup>2</sup>	1,832	789	+132%
Net debt <sup>3</sup>	2,854	1,943	+47%

<sup>&</sup>lt;sup>1</sup>2011 excludes Nuon acquisition

Record financial results; transformed by higher production & increased commodity prices. Balance sheet further transformed in February 2012 by Uganda farmdown.

<sup>&</sup>lt;sup>2</sup> Before working capital movements

<sup>&</sup>lt;sup>3</sup> Net of all cash balances and before 2012 Uganda farmdown

### Net income 2011 v 2010

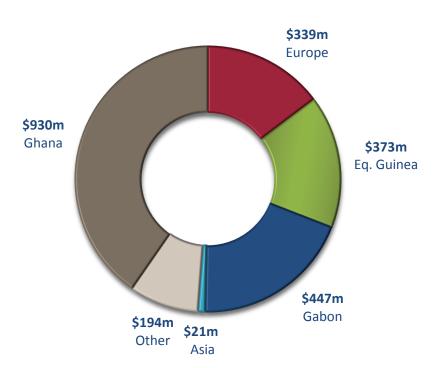


Net Income up 670%; higher prices and production volumes partially offset by related cost and tax increases.

### Revenue 2011 vs 2010



2011 - \$2,304m



2010 - \$1,090m



2011 Revenues increased by 111%; production from the Jubilee field and higher commodity prices; significant contribution from existing fields.

### Sources and uses of funds

#### Cash inflow \$2,870m

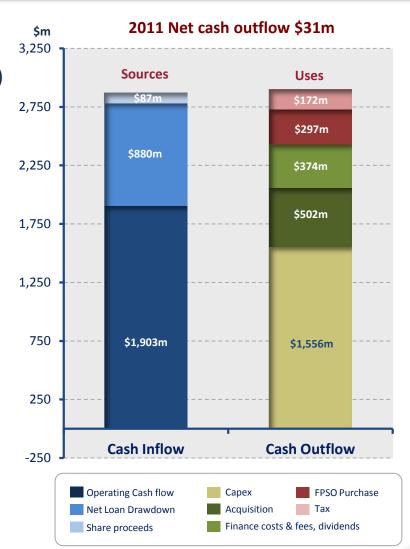
- Operating cash flow \$1,903m\* (2010:\$818m\*)
- Net loan drawdown \$880m (2010:\$886m)
- Share proceeds \$87m Ghana share issue

#### Cash outflow \$2,901m

- Cash Capex \$1,556m (2010:\$1,178m)
- Acquisitions \$502m Nuon \$404m and EO \$98m
- Finance costs & fees and dividends \$374m (2010:\$178m)
- 2011 Ghana FPSO purchase \$297m
- Cash tax paid \$172m (2010:\$86m)

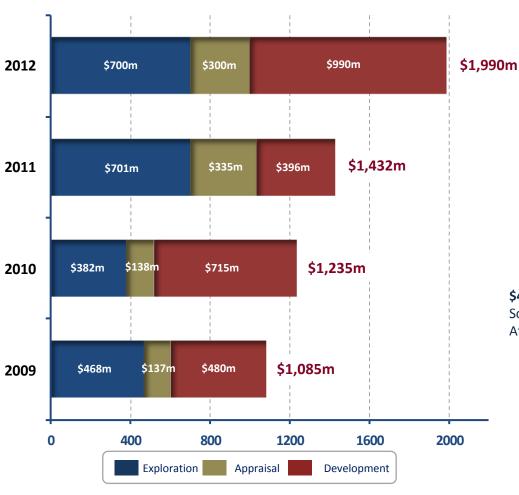
#### Net cash outflow \$31m

- Decrease in cash balances
- \* After working capital



# TULLOW I A

# 2011 capital expenditure

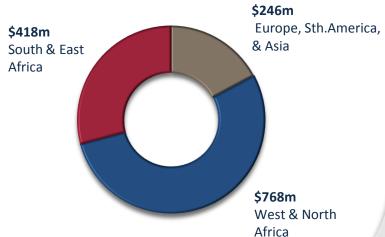


#### • \$1,990m for 2012

- Ghana: Jubilee remediation and phase 1A & TEN developments
- Uganda: Lake Albert
- Other Africa: WATM, Kenya
- ROW: South America, Europe

#### • 2011 capital split:

- >57% Ghana & Uganda; >83% Africa



#### Notes:

i) 2011 Capital Expenditure excludes the Nuon and Ghana EO acquisition expenditure .

ii) 2010 Capital Expenditure excludes the Heritage licence and Ghana FPSO lease acquisition expenditure

# Strong balance sheet; Financed to deliver next stage of growth

- Record results and Uganda farmdown have transformed Tullow's financials
- Strong, well funded balance sheet
  - Significant unused debt facilities
  - Step change in ongoing operational cash flow
- Significant value growth opportunities
  - Third material new basin opened; further opportunities being matured
  - Significant development projects: Phase 1A, TEN, Lake Albert
  - Appraise and develop future successes
- Drive funding strategy even harder in next phase of growth
  - Increased portfolio high grading / monetisation along value chain
  - More diversified funding strategy
  - Ensure healthy balance of Exploration vs. Developments vs. Funding

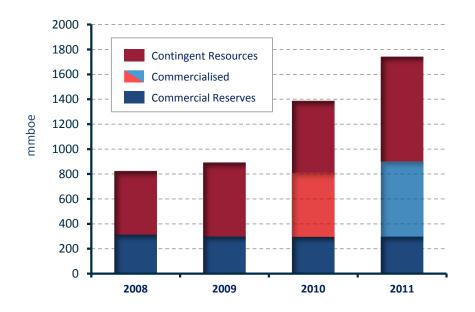


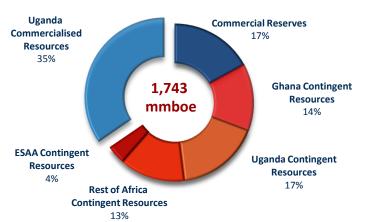
Tullow Oil plc – 2011 full year results

Development and Operations – Paul McDade



### Commercialising Reserves and Resources



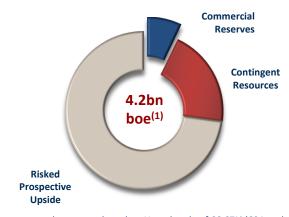


#### Reserves and Resources 1,743 mmboe

- Commercial reserves 298 mmboe
- Contingent resources 841 mmboe
  - 2011 additions 235 mmboe
- Uganda resources commercialised 604 mmboe

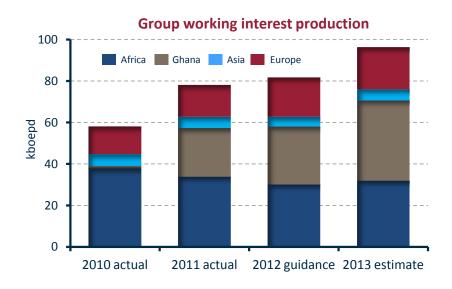
#### Total resource potential 4.2 billion boe

- Commercial Reserves 7% of total
- Reserve and Resource life >35 years
- Risked Prospective Upside increased to c.3.1bn boe



(1) Adjusted reserves and resources based on Uganda sale of 66.67% (604mmboe)

## Strong production growth in 2011

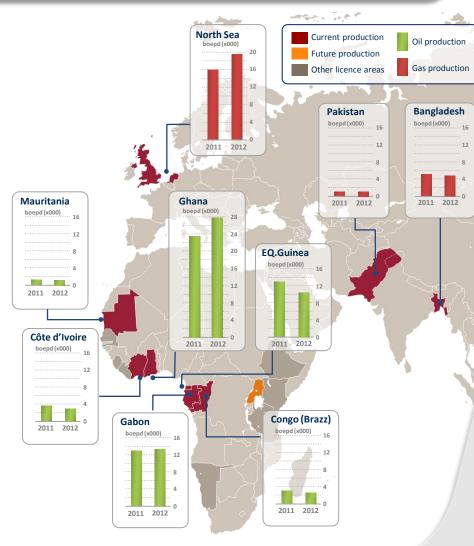


#### 2011 Production: 78,200 boepd (+35%)

- Strong performance across UK, Africa & Asia
- Jubilee Phase 1 ramp up delayed
- 2012 guidance 78-86,000 boepd

#### Significant medium term production growth

- 2012 exit production will be > 90,000 boepd
- 2013 will benefit from full Jubilee potential
- Commercialising through sale or development portfolio potential of >200,000 boepd



# TULLOW I j š

### Jubilee – the next stage of development

#### **Jubilee Phase 1 activity continues**

#### • Current performance:

- Oil production at c.70,000 bopd
- > 30m barrels (30 cargos) safely produced & exported
- Water or gas injection support seen at all wells
- FPSO purchased end 2011; over 95% uptime

#### Remedial work:

- Underway to rebuild production rates toward capacity
- J-07 sidetrack completion being monitored
- Acid stimulations being tested
- Alternative completion designs under review
- Additional Capex expected to be c.\$400m
- Recoverable resource estimates remain unchanged

#### **Jubilee Phase 1A development commences**

- POD approved by Government of Ghana in early 2012
- Development commenced in Feb 2012 with first well spud
- 5 producers; 3 water injectors; subsea expansion planned
- Estimated \$1.1bn budget; 18 month project
- First oil on stream late in second quarter 2012
- 2012 Production average 70 90,000 bopd



Working towards Jubilee achieving FPSO production capacity of 120,000 bopd

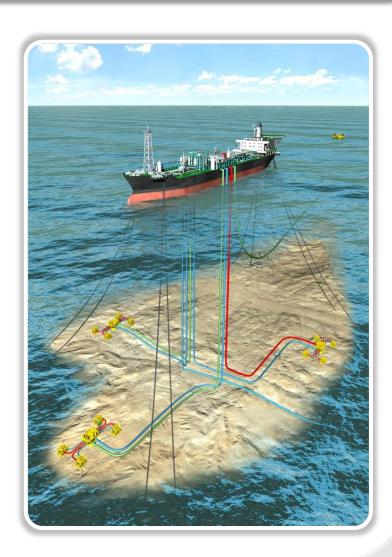
## TEN – POD submission expected in Q3 2012

#### Appraisal and testing supports field commerciality

- Appraisal drilling confirms oil at Ntomme-2A
- Successful Owo-1 flow test: combined rates of 20,000 bopd
- Successful Tweneboa-2 & 4 flow tests
- Final appraisal well Enyenra-4 currently drilling
- Complete final Ntomme & Enyenra-4 well tests end Q2 2012

#### **Development design progressing towards sanction**

- Design competition underway with 3 FPSO contractors
- Subsea FEED being complete; tenders planned for April
- Design based on:
  - 100,000 bopd
  - 200 mmscfpd gas handling
  - 175,000 bpd water injection
- ~30 injection and production wells planned
- PoD to be submitted in 2H 2012
- First oil forecast ~30 months after PoD approval



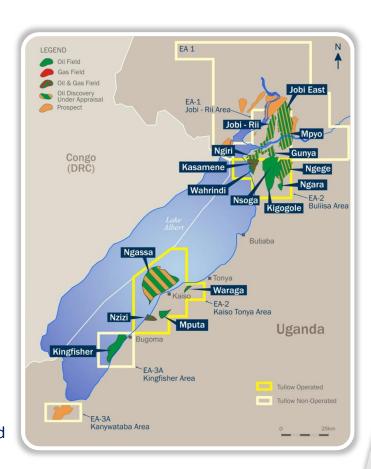
## Uganda – next phase of activity

#### Farmdown deal completed

- MoU & SPAs signed in March 2011
- New PSA's signed by the GoU in February 2012
- \$2.9bn farmdown completed in February 2012

#### Partnership poised for delivery

- Operating framework and JV structure agreed
- Tullow: CNOOC: Total three-way partnership creates alignment
- Operatorship defined; Total EA-1, Tullow EA-2 and CNOOC EA-3
- New exploration periods; 6 mths EA-3A (Kanyawataba); 1 year EA-1
- E&A and testing re-commenced at Ngege-3; 4 rigs available
- Partners progressing development plans & engagement with GoU
- Small scale production expected to start in late 2012
- Working towards sanction of Ugandan refinery & export pipeline
- Major production ~36 mths after sanction building to over 200k bopd



# TULLOW I A

# Significant development investment activity in 2012

#### **Current development activities**

#### Gabon

- Onshore infill drilling continues at Niungo, Echira and Onal fields
- Offshore 3 well development campaign at Tchatamba, Turnix & Limande

#### Equatorial Guinea

- Successful completion and tie back of Akom North to Okume facilities
- Campaign of 3 workovers and 8 infill wells commenced on Ceiba field
- Major infill campaign planned for Okume complex commencing 2013

#### · Côte d'Ivoire

- 8 well infill campaign (Espoir Phase III) commencing Q3 2012

#### UK and Netherlands

- Ketch-10 infill well being drilled; Schooner-11 well to spud in Q3 2012
- JDA area campaign of 4 infill wells and up to 25 workovers underway

#### **Future development opportunities**

#### Mauritania

- Banda oil: subsea tieback to Chinguetti under review
- Banda gas: working with GoM on gas to power

#### Namibia

- Commercial negotiations for Kudu gas sales continue
- Development concept complete; FEED to follow commercial agreements

#### 2012 D&O capex spend



# Progress to commercialise resources continues in 2012



- Uganda resources commercialised through sale; focus now on development
- Building Jubilee production through Phase 1 remediation and Phase 1A
- TEN project progressing towards PoD submission in Q3 2012
- Development portfolio opportunities being progressed
- Commercialising portfolio (>200k boepd) through sale or development

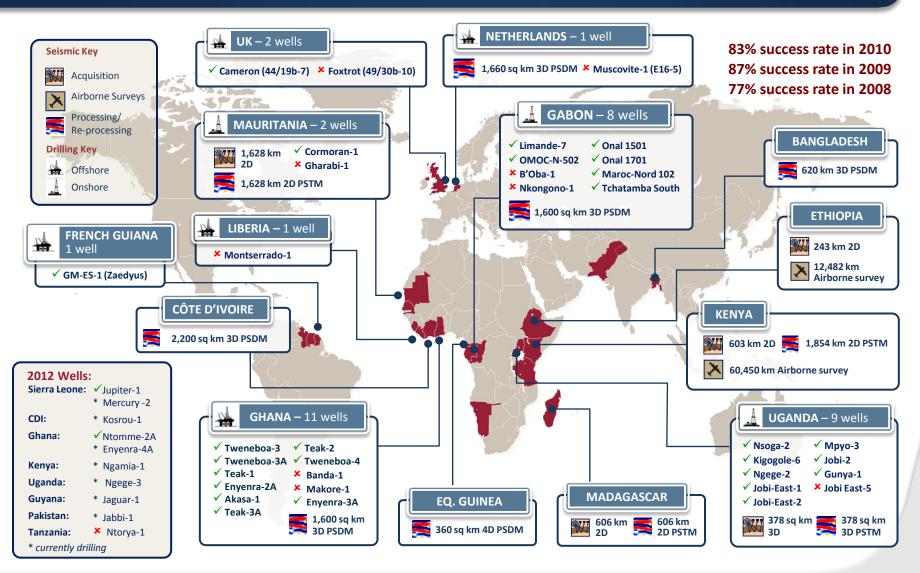




Tullow Oil plc – 2011 full year results **Exploration and Appraisal** – Angus McCoss

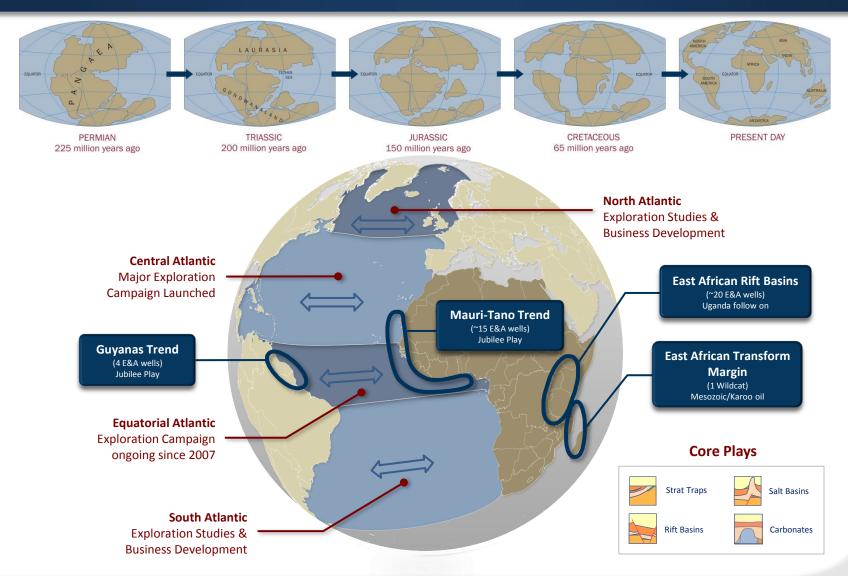
# TULLOW #

# 74% global E&A success ratio in 2011



# TULLOW | Section 1

# Exploration campaigns gather momentum over next 12 months





## Exploration enterprise – value creation and monetisation

# **Exploration Business**

# Development

#### **New Ventures**

- Core geological plays in Africa & Atlantic Basin
- Relationship development for **opportunity access**
- Strategic alliances (e.g. with Shell)

### **Basin Entry**

#### Incubation

- East African Transform Margin: Kenya offshore, Madagascar
- West Africa Pre-Salt
   Clastics:
   Gabon

### **Core Campaigns**

#### **Discovery & follow-up**

- Guyanas Transform
   Margin: French Guiana,
   Suriname, Guyana
- West African Transform Margin: Cote d'Ivoire, Liberia & Sierra Leone
- Central Atlantic Margin: Mauritania, Senegal
- East African Rifts: Kenya, Ethiopia

# Development & Operations

### **Major Projects**

#### **Appraisal**

- **Ghana** drill-out & appraisal
- Uganda drill-out & appraisal

# Near Field E&A Production

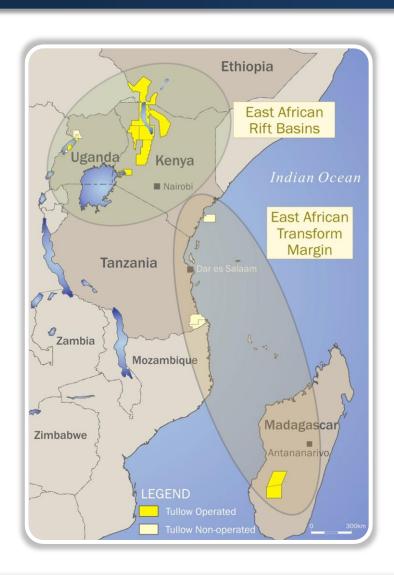
- Southern North Sea (UK & NL)
- Gabon

#### **Sales of Discoveries**

#### Monetisation

Uganda dilution

### Multiple exploration campaigns in East Africa in 2012



#### **East African Rift Basins**

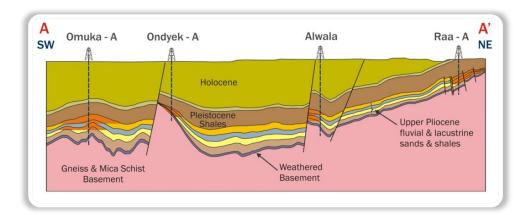
- Lake Albert Rift Basin in Uganda
  - 1.1 Bbo discovered
  - High impact West of Nile & Kanywataba campaigns
  - Accelerated appraisal in support of basin development
- Kenya Ethiopia Rift Basins
  - Seven rift basins analogous to the Lake Albert Rift Basin
  - 100,000 sq km of acreage
  - World's largest FTG survey reveals scores of leads
  - Drilling campaign commenced

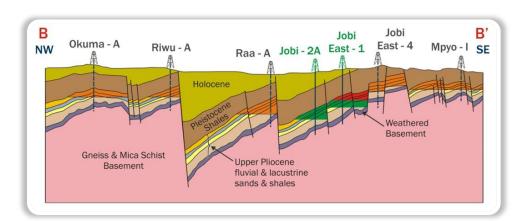
#### **East African Transform Margin**

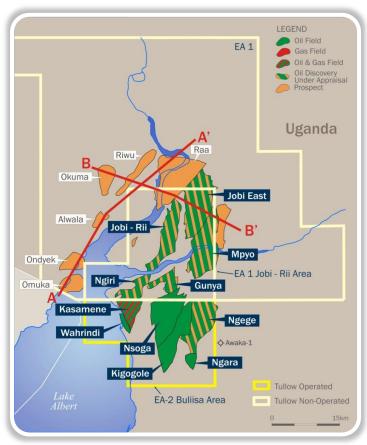
- Exploration campaigns focused on high value oil
- Morondava Rift Basin in SW Madagascar
  - De-risked by on-trend neighbouring light oil discoveries
- Offshore Kenya Block Block L8
  - High impact Mbawa-1 wildcat in Q3 2012

# TULLOW I A

# High impact E&A campaign under way in Uganda



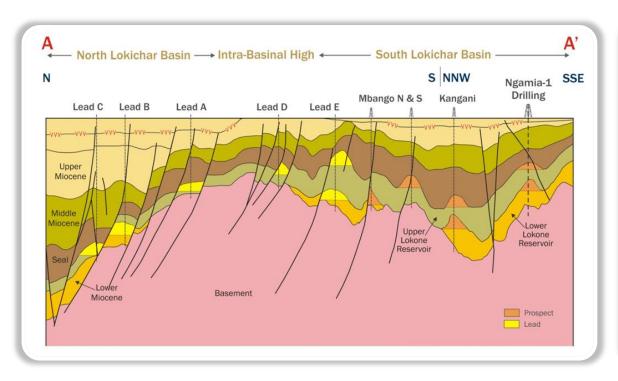


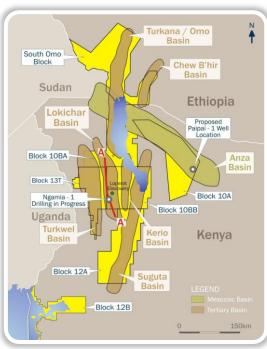


- High impact West of Nile campaign targets a cascade of prospects from Omuka to Raa
- Accelerated appraisal in support of basin development targets material undrilled fault blocks and field limits



# Kenya-Ethiopia Rift Basins – pioneering exploration





- Regional FTG gravity survey and ongoing 2D seismic campaign reveals scores of leads
- High impact drilling campaign commenced Ngamia-1 wildcat currently drilling to calibrate basin

# TULLOW I A

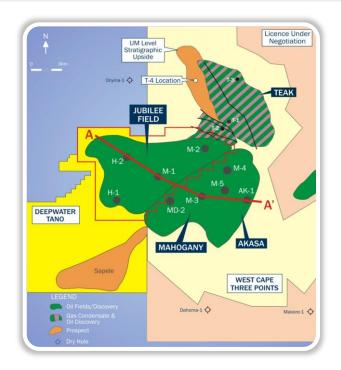
## Transatlantic nature of Jubilee play proven

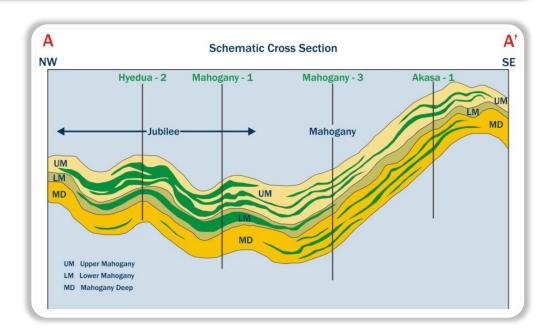


- Jubilee follow-up exploration uses high-quality 3D seismic throughout Equatorial Atlantic
- Exploration drilling campaigns target prospectivity in West Africa and South America
- High impact wells currently being drilled in Côte d'Ivoire, Sierra Leone and Guyana
- Zaedyus follow-up drilling to commence mid year



# Pursuing appraisal opportunities in West Cape Three Points





#### Positive E&A results in 2011

- West Cape Three Points exploration drill-out achieved
- Teak-1 makes important discovery in 5 reservoirs
- Teak-2 extends Jubilee up to Teak
- Teak-3 confirms northern extension of field
- Banda-1 encounters oil in new Cenomanian play
- Makore-1 water bearing; Akasa-1 light oil discovery

#### **Continuing momentum in 2012**

- Teak-4 to be drilled 2012 targeting stratigraphic upside
- Appraisal and flow test planned for Mahogany / Akasa
- Sapele-1 will target a turbidite lobe SW of Jubilee

# TULLOW #

### High impact exploration in Deepwater Tano



#### Successful appraisal programme continues

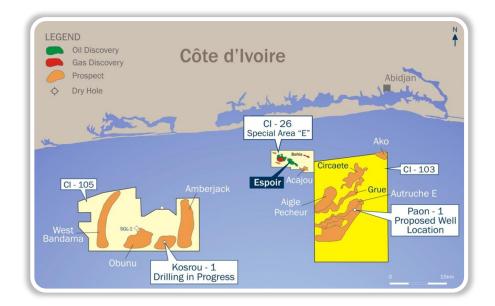
- Appraisal programme nearing completion
- Tweneboa-3 confirms rich gas-condensate
- Ntomme-2A encounters 125 metre oil column
- Owo-1 re-drill tested at 20,000 bopd
- Envenra-4 currently drilling to test southern extent

#### High impact exploration to come in 2012

- Drill-out to be achieved by end-Q1 2013
- Wawa-1 up-dip of the TEN cluster
- Sapele-1 southwest of the Jubilee field
- Tweneboa Deep material prospect below TEN cluster

# TULLOW #

### Extending the Jubilee play west of Ghana





#### Côte d'Ivoire

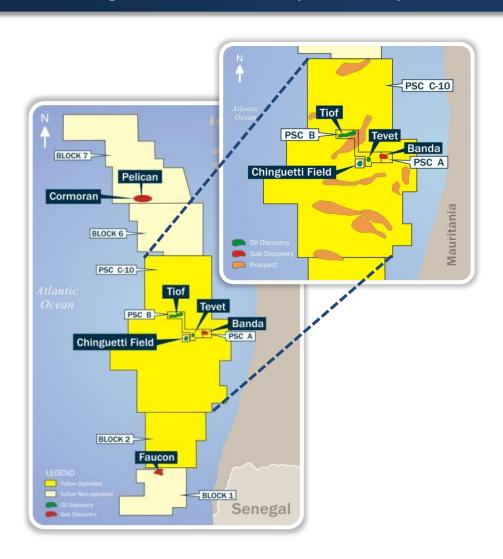
- High quality 3D seismic covers acreage
- Large Jubilee-type fans mapped
- Multiple prospects matured for drilling
- Kosrou-1 in CI-105 (non-operated 22.4%) currently drilling
- Paon-1 in CI-103 (operated 45%) to spud in Q2 2012

#### Sierra Leone & Liberia

- Large Late Cretaceous fans mapped
- Sierra Leone equity increased from 10% to 20%
- Multiple prospects for drilling, only four drilled
- Montserrado-1 made a non-commercial oil discovery
- No dry holes to date, but no hub-class discoveries yet
- Mercury-2 currently drilling



### Building an extensive operated portfolio in Mauritania

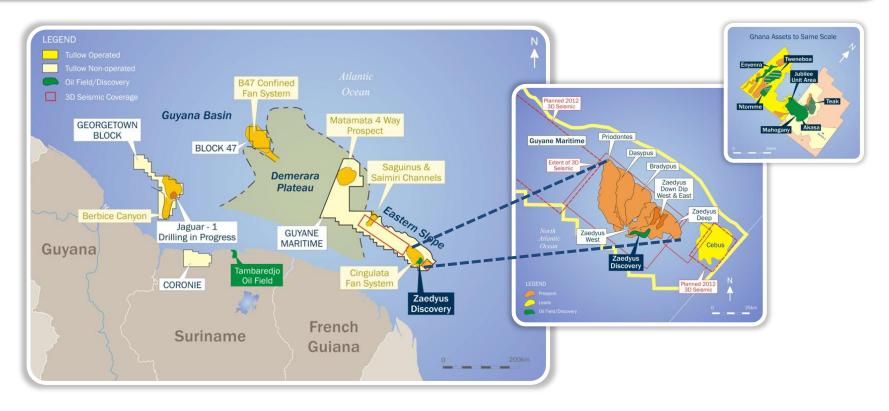


#### Initial focus on oil exploration

- Encouraging core play diversity
  - Stratigraphic Traps
  - Salt Basins
  - Carbonates
- Late Cretaceous turbidites are the initial exploration focus in Mauritania-Senegal Basin
- Cormoran-1 intersected rich gas in this play in the Petronia prospect
- Position enhanced through new C-10 licence with increased equity (66%) and operatorship
- 3D seismic and multi-well exploration campaign commencing in 2012



### Basin-opening discovery made with Zaedyus-1 well



- Cingulata Fan System offshore French Guiana tested by Zaedyus-1 wildcat (GM-ES-1)
  - 72m of net oil pay discovered; sidetrack drilled to gather core data
  - Zaedyus appraisal well to spud mid year with DST and second wildcat to follow
- Deep wildcat to target the Jaguar Fan System in Guyana currently drilling
- 3D seismic planned for large Goliathberg & Voltzberg leads within B47 Fan System offshore Suriname



# 12 month Exploration and Appraisal programme

					— mmboe ———	
Country	Block	Prospect	Interest	Mean	Gross Upside *	Spud Date
WEST & NORTH AFRICA	1					
Côte d'Ivoire	CI-105	Kosrou-1	22.37%	265	650	In progress
	CI-103	Paon-1	45% (op)	205	500	Q2 2012
Gabon	Kiarsseny	Gnondo-1	52.78% (op)	40	90	Q4 2012
Ghana		Ntomme-2A DST	49.95% (op)		Under review as appraisal ongoing	In progress
	Deepwater Tano	Owo-1RA and DST		400		In progress
		Enyenra-4A				In progress
		Wawa-1		60	150	Q2 2012
		Tweneboa Deep-1		120	320	Q3 2012
		Sapele-1		75	160	Q4 2012
	West Cape Three Points	Teak-4	26.40%	100	200	H1 2012
Liberia	LB-15/16/17	Strontium-1	25%	165	450	Q4 2012
Mauritania	Various	1 Exploration Well	Various	205	430	Q4 2012
Sierra Leone	SL-07B-11	Mercury-2A	20%	140	340	In progress

#### **SOUTH & EAST AFRICA**

Ethiopia	South Omo	Sabisa-1	50% (op)	140	390	Q4 2012
Kenya	10BB	Ngamia-1	50% (op)	35	90	In progress
	10A	Paipai-1	50% (op)	115	290	Q2 2012
	L8	Mbawa-1	15% + 5%##	230	610	Q3 2012
	EA-1	Jobi-East - 2 wells	33.33%	40	70	2012
Uganda		Mpyo - 3 appraisal wells	33.33%	140	260	2012
		Ondyek-A	33.33%	40	80	Q2 2012
		Raa-A	33.33%	85	240	Q3 2012
		Omuka-A	33.33%	85	170	Q3 2012
		Alwala-A	33.33%	10	20	Q4 2012
		Rii South-B	33.33%	15	40	Q4 2012
	EA-2	Ngege - 4 appraisal wells	33.33% (op)	50	100	In progress
	EA-3A	Kanywataba-1	33.33%	90	210	2012

<sup>\*</sup> Estimated P10 ## Option to increase interest to 20%



# 12 month Exploration and Appraisal programme (cont.)

Country	Block	Prospect	Interest	 Mean	mmboe ——Gross Upside*	Spud Date
EUROPE, SOUTH AMER	ICA & ASIA					
	K8	K8-FC-W (308)	9.95%	3	5	Top hole drilled
The Netherlands	L13	Sigma-1	9.95%	10	15	Q3 2012
	E11	Vincent-1	30% (op)	20	40	Q4 2012
	Guyane Maritime	Zaedyus-2 appraisal well	27.50%	130	210	Q3 2012
French Guiana		Zaedyus exploratory appraisal		270	630	2013
		Dasypus-1	27.50%	230	510	Q4 2012
Guyana	Georgetown Block	Jaguar Fan System	30%	430	1,180	In progress
Suriname	Coronie	5 well campaign	40%	100	250	In progress
Pakistan	Kohat	Jabbi	40%	15	35	In progress

<sup>\*</sup> Estimated P10





Tullow Oil plc – 2011 full year results

Conclusions – Aidan Heavey

# Financially strong and opportunity rich



- Jubilee production delivers record financial results
- Uganda farmdown transforms the balance sheet
- Exploration opens third major new basin
- Appraisal success drives TEN development towards sanction
- Material new acreage positions acquired



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