

# Refining & Marketing Welcome

November 30th



### Iain Conn Chief Executive – Refining and Marketing

November 30th

### **Cautionary statement**



#### Forward-looking statements - cautionary statement

This presentation and the associated slides and discussion contain forward-looking statements with respect to the operations and businesses of BP and certain of the plans and objectives of BP with respect to these items. These statements generally, but not always, are identified by the use of words such as "will", "expected to", "is intended to", "project" or similar expressions. In particular, these include certain statements regarding: anticipated improvements, increases, sources and timing in operating cash flow and margins; refinery divestment plans; anticipated timing of exploration and production projects to come on stream by 2014 and the expected margins from such projects; repositioning of US Fuels Value Chains and halving US refining exposure; the anticipated timing for completion of and final proceeds from the disposition of certain BP assets; the timing and composition of major projects including expected start up, completion and margins; expectations regarding the impact on costs of turnaround and related maintenance expenditures; expectations or plans for increased investment; investments in technology and capability; improvements in refining efficiency; expectations for fourth-quarter refining margins; the disclosure of refining and marketing results in BP's Group financial reporting; the timing for completion of the Whiting refinery upgrade, other refining upgrades and logistics optimization; the expected level of operating cash flow to be generated and production potential following the Whiting refinery upgrade; the projected marketing to refining cover after the Carson and Texas City divestments: the expected impact on fourth-guarter production of the ongoing seasonal turnaround activity across BP's portfolio: expected fourth-guarter and full-year 2011 production; expectations for returns and earnings momentum in refining and marketing; the ability of the fuels business to continue to deliver competitive returns; performance outlook including the anticipated level of earnings delivery in 2011 and earnings growth by the end of 2012; earnings and returns momentum beyond 2012; the proportion of earnings derived from growth markets; the anticipated level of market growth in Australasia. Turkey, South Africa and Poland: the level of further earnings growth generated by the base business; the increase of investment that will deliver sustainable growth; the projected volume of petrochemicals and lubricants growth and demand by 2020; the deployment of Cativa to the joint venture with Indian Oil Corporation; improvements in Eastern hemisphere Fuels Value Chains including growth in access; the deliverability of new technologies and growth projects in the Middle East and Asia and growth earnings from the Petrochemicals business; the proportion of earnings from non-OCED markets by 2015 in the lubricants business; relationships with large resource holders. By their nature, forward-looking statements involve risk and uncertainty because they relate to events and depend on circumstances that will or may occur in the future. Actual results may differ from those expressed in such statements, depending on a variety of factors including the timing of bringing new fields onstream; future levels of industry product supply; demand and pricing; OPEC guota restrictions; PSA effects; operational problems; general economic conditions: political stability and economic growth in relevant areas of the world: changes in laws and governmental regulations; changes in taxation or regulation; regulatory or legal actions including the types of enforcement action pursued and the nature of remedies sought; the impact on our reputation following the Gulf of Mexico oil spill; exchange rate fluctuations; development and use of new technology; the success or otherwise of partnering; the successful completion of certain disposals; the actions of competitors, trading partners, creditors, rating agencies and others; natural disasters and adverse weather conditions; changes in public expectations and other changes to business conditions; wars and acts of terrorism or sabotage; and other factors discussed under "Principal risks and uncertainties" in our Form 6-K for the period ended 30 June 2011 and under "Risk Factors" in our Annual Report and Form 20-F 2010 as filed with the US Securities and Exchange Commission (SEC). Reconciliations to GAAP - This presentation also contains financial information which is not presented in accordance with generally accepted accounting principles (GAAP). A guantitative reconciliation of this information to the most directly comparable financial measure calculated and presented in accordance with GAAP can be found on our website at www.bp.com.

**Statement of Assumptions:** The operating cash flow projection for 2014 stated in this presentation reflects our expectation that all required payments into the \$20 billion Trust Fund will have been completed prior to 2014. The projection does not reflect any cash flows relating to other liabilities, contingent liabilities, settlements or contingent assets arising from the Macondo incident which may or may not arise at that time. As disclosed in the Stock Exchange Announcement, we are not today able to reliably estimate the amount or timing of a number of contingent liabilities. **Cautionary note to US investors:** We use certain terms in this presentation, such as "resources", "non-proved resources" and references to projections in relation to such that the SEC's rules prohibit us from including in our filings with the SEC. U.S. investors are urged to consider closely the disclosures in our Form 20-F, SEC File No. 1-06262. This form is available on our website at <u>www.bp.com</u>. You can also obtain this form from the SEC by calling 1-800-SEC-0330 or by logging on to their website at <u>www.sec.gov</u>. Tables and projections in this presentation are BP projections unless otherwise stated.

## Agenda



#### **Refining & Marketing overview**

Fuels

#### **Breakout sessions:**

Petrochemicals

Lubricants

Fuels & lubricants technology tour

Wrap up

lain Conn and Richard Hookway

Steve Cornell and Tufan Erginbilgic

Nick Elmslie

Tufan Erginbilgic

Angela Strank

lain Conn



# The R&M team here today





#### Iain Conn

Chief Executive Refining & Marketing



Tufan Erginbilgic Chief Operating Officer Eastern Hemisphere Fuels, Global Lubricants, Aviation and LPG



Steve Cornell Chief Operating Officer US Fuels



Nick Elmslie

Chief Operating Officer Global Petrochemicals



**Richard Hookway** 

Chief Financial Officer Refining & Marketing



Charles Cameron Head of Technology Refining & Marketing



Jeanne Johns Head of S&OR Refining & Marketing



Angela Strank Technology Vice President Fuels & Lubricants

# Moving BP Forward Safety : Trust : Value Growth

# Putting safety and operational risk management at the heart of the company

- New Safety and Operational Risk organization
- Investment in maintenance
- Reorganized upstream

#### **Rebuilding trust**

- \$20bn Trust Fund: now 50% funded
- Settlements with Mitsui/Weatherford/Anadarko

#### Pursuing value growth

- Dividend resumed
- \$19bn<sup>(1)</sup> divestments agreed
- New access: India, Trinidad, Australia, Azerbaijan, UK, Indonesia, South China Sea, Brazil
- Iraq initial production
- Refining & Marketing earnings momentum continues







# Moving BP Forward A 10 point plan

#### What you can expect

**1.** Relentless focus on safety and managing risk

#### 2. Play to our strengths

- Exploration
- Deepwater
- Giant fields
- Gas value chains
- World class downstream business
- Relationships and technology
- 3. Stronger and more focused
- 4. Simpler and more standardized
- 5. More visibility and transparency to value



# Moving BP Forward A 10 point plan

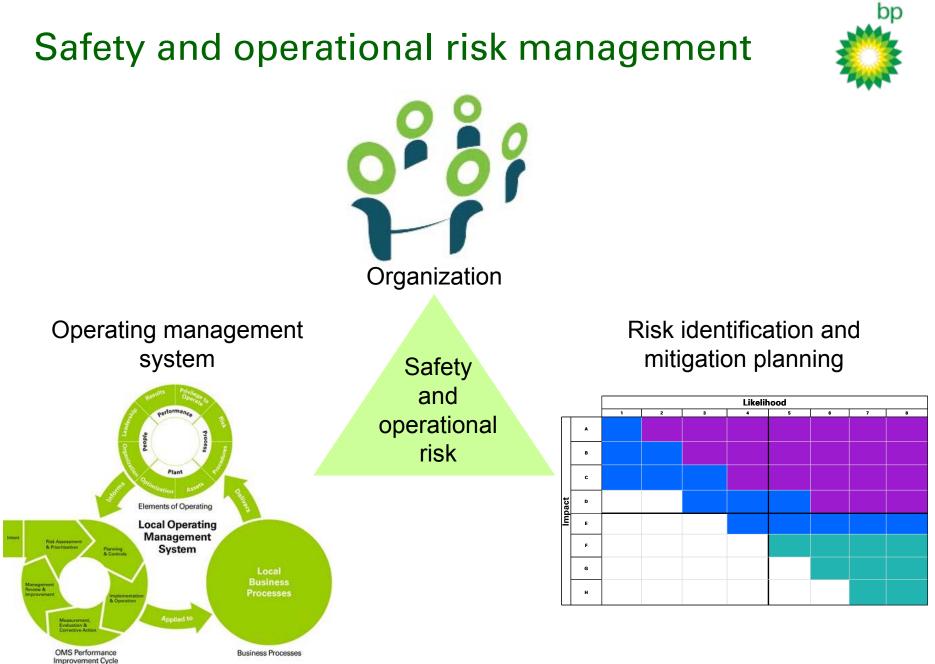
# bp

#### What you can measure

- 6. Active portfolio management to continue
  - Further \$15bn over the next two years including two US refineries
- 7. New upstream projects onstream with higher margins
  - Unit cash margins on new wave of projects expected to be double existing average<sup>(1)</sup>
- Generate around 50% more annually in operating cash flow by 2014 versus 2011 at \$100/bbl
  - Around half from ending US Trust Fund payments<sup>(2)</sup> / around half from operations
- 9. Half of incremental operating cash for re-investment, half for other purposes including distributions

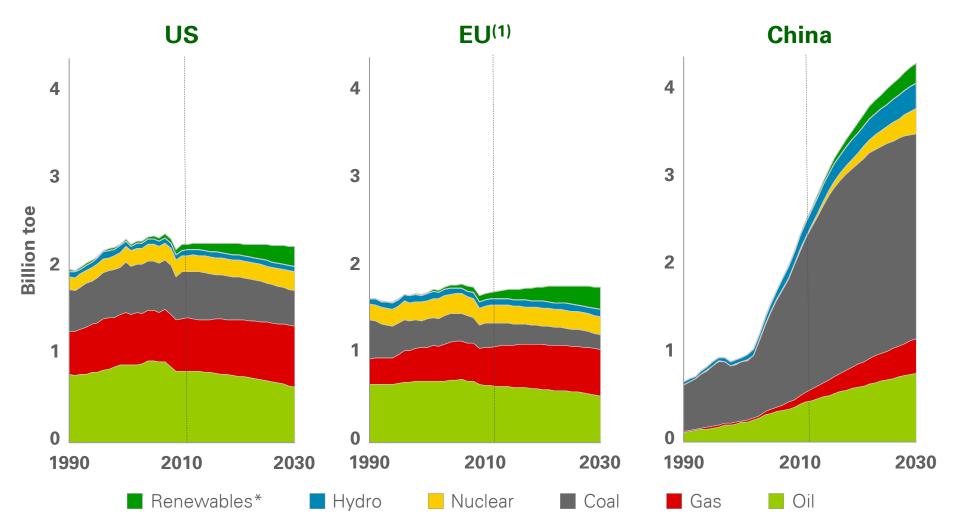
#### **10. Strong balance sheet**

Gearing in lower half of 10–20% range









(1) Today's borders\* Includes biofuelsSource: BP Energy Outlook 2030

# **R&M** operates three business models

#### Fuels:

 Integrated refining, marketing, logistics, supply, optimization and trading linked to global markets

#### Lubricants:

 High growth, high return global business leveraging brand, technology and relationships

#### **Petrochemicals:**

 High growth, high returns with leading technology – Asia focused with strong global market shares









# R&M: How we are organized



### Strategy / Policy / Code of Conduct Fuels Petrochemicals Lubricants Safety and operational risk Technology Finance Information technology and BSCs<sup>(1)</sup> HR, PSCM<sup>(2)</sup> and other functions 11 Number of strategic performance units 1 Supply optimization and trading

(1) Business service centre

(2) Procurement supply chain management

# Our five priorities since 2007







- Safe operations and OMS<sup>(1)</sup>
- Behaviours and core processes
- Restoring missing revenues and earnings momentum
- Business simplification
- Repositioning cost efficiency

# R&M today



13 Strategic Performance Units (SPUs)

Focused on quality, not quantity

Two significant divestments in progress

• Texas City refinery and Southern West Coast fuels business<sup>(1)</sup>

On-track for record earnings<sup>(2)</sup> in 2011

50%+ of earnings<sup>2</sup> sourced from growth markets<sup>(3)</sup>

#### **Pre-tax operating returns**<sup>(4)</sup> of ~11%

#### Material contribution to Group operating cash flow growth

- (1) Including Carson refinery
- (2) Based on pre-tax underlying replacement cost profit which is pre-tax replacement cost profit or loss adjusted for non-operating items and fair value accounting effects
- (3) Asia (including China and India), Australasia, Central and Eastern Europe, Former Soviet Union, Southern Africa, Middle East, South and Central America
- (4) Pre-tax returns based on pre-tax average capital employed including goodwill (based on 12 months to 30 Sep 2011)

# R&M key financial and operating dimensions



	12 months to end Sept 2011
Pre-tax capital employed inc goodwill	~\$55bn
Earnings <sup>(1)</sup>	~\$6bn
Organic investment <sup>(2)</sup>	~\$4bn
Pre-tax operating returns <sup>(3)</sup>	~11%
Refining capacity <sup>(4)</sup>	~2,700 kbpd
Total marketing sales	~3,300 kbpd
Petchems capacity <sup>(4),(5)</sup>	~18,300 ktpa
No. of countries R&M markets within	~70
No. of employees	~35,000
	Plus ~15,000 site employees

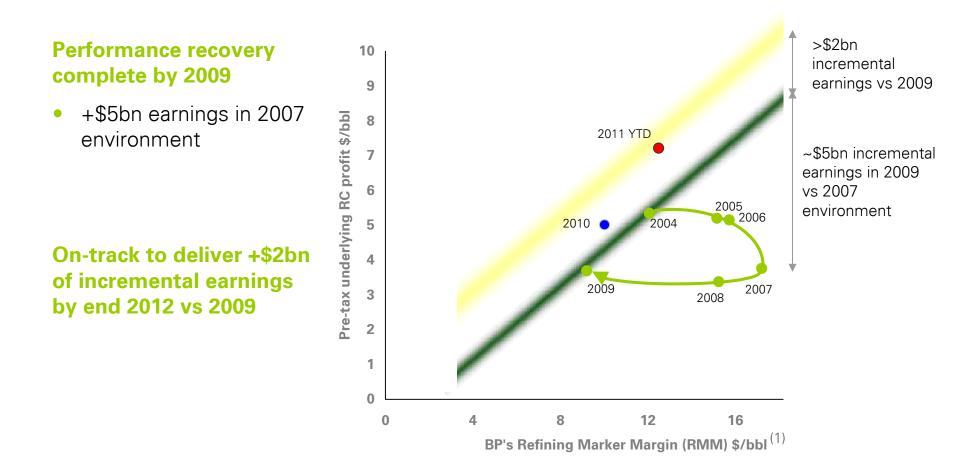
<sup>(1)</sup> Pre-tax underlying replacement cost profit or loss adjusted for non-operating items and fair value accounting effects

(4) As at 31st December 2010

(5) Including Gelsenkirchen and Mulheim petrochemical volumes which are financially reported within the Fuels business

<sup>(2)</sup> Organic capital expenditure excluding acquisitions and asset exchanges

<sup>(3)</sup> Pre-tax returns based on pre-tax average capital employed including goodwill



# Underlying performance improvement

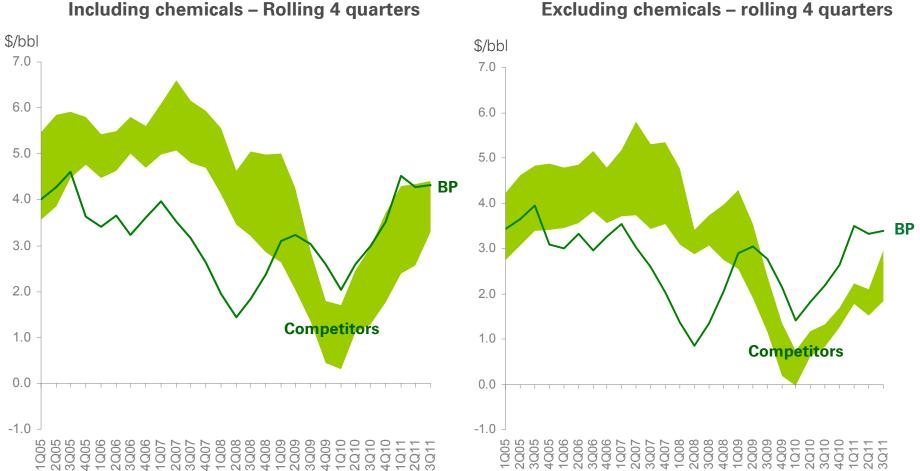
Yellow regression line represents \$2bn incremental earnings guidance, 2012 vs 2009

(1) RMMs are simplified regional margin indicators based upon product yields and a "marker" crude oil deemed appropriate for the region.



## **Competitive position – Net Income per** barrel





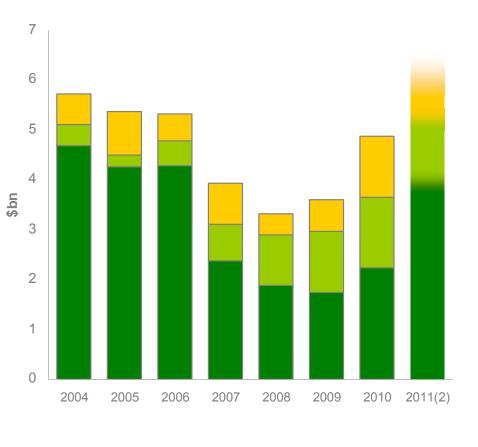
**Excluding chemicals – rolling 4 quarters** 

Note: BP Net Income = Pre-tax underlying replacement cost profit (less 30% notional tax rate) divided by refining capacity *Competitor set = ExxonMobil, Shell, Total and ConocoPhillips* 

# Historical portfolio performance

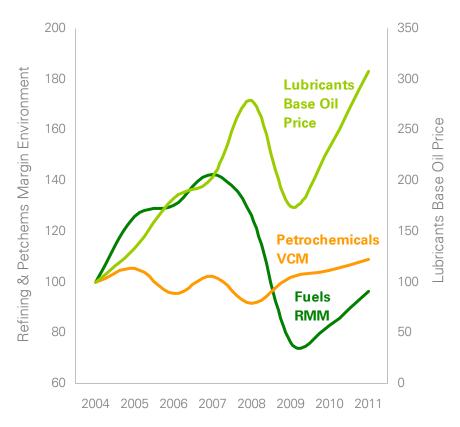


Pre-tax underlying replacement cost profit by business - \$bn



**Business Environment** 

(Indexed 2004 = 100)



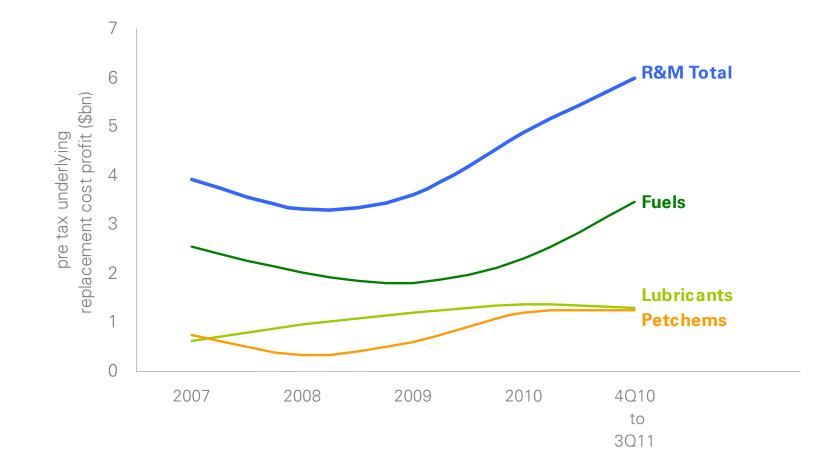
(1) Segment costs have been allocated to the Fuels business(2) 2011 data is BP estimate

Petrochemicals

Fuels<sup>(1)</sup> Lubricants

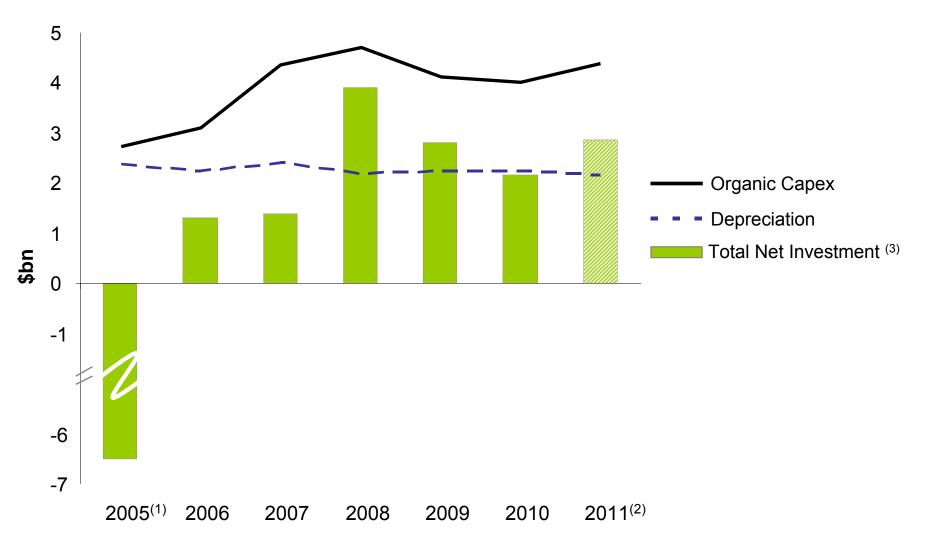
# R&M earnings volatility





# Net Investment





(1) Includes \$8.3bn proceeds for Innovene sale

(2) 2011 BP projections

(3) Total net investment = organic capital expenditure less proceeds from disposals

# Value growth – world class downstream business



# The highest quality downstream business

 Hydrocarbon value chains delivering leading returns and cash flow growth



- Fuels (including optimization and trading)
- Lubricants
- Petrochemicals





# World class downstream business



#### Safe and reliable operations

- Becoming a leader in process safety
- Industry leading reliability and availability

#### **Excellent execution**

- Compliance, rigour, discipline, efficient use of resources
- Effective organization and capability

#### Portfolio quality and integration driving leading cash margin capability

- Right asset configuration, technology, channels, brands and integration
- Enables advantaged operations to deliver leading utilization rates
- Drives cash margins and cash flow delivery

#### Growing margin share – exposure to growth

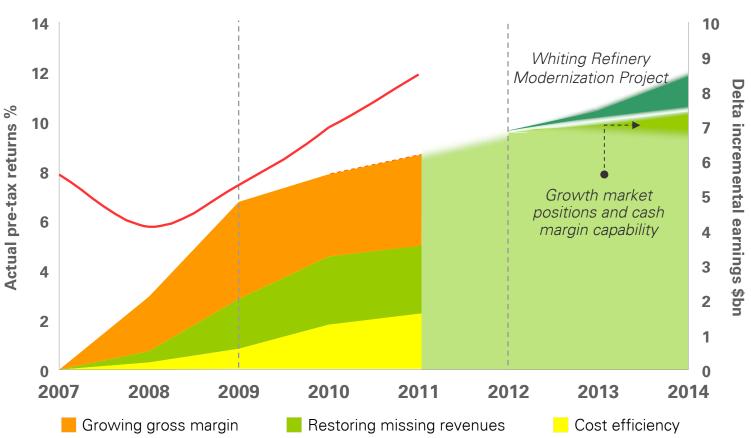
- Expansion of competitive margin capability
- Building growth market positions

#### **Disciplined investment and portfolio management**

- Financial framework
- Operating cash flow growth

## Earnings momentum





#### Sources of earnings growth in a 2009 refining environment

 Pre-tax returns based on pre-tax average capital employed including goodwill (%); actual 2007-2010, 2011 BP projection

# Operating cash flow momentum



#### Sustaining leading returns in the base

- Invest to maintain competitive position
- Improve efficiency and margin capture capabilities
- Working capital efficiency

#### Improving cash margin capability

- Whiting Refinery Modernization Project
  - on-stream 2013
- Cherry Point clean diesel
- Toledo continuous catalytic reforming
- Integration, trading and optimization
- Premium fuels, Castrol Edge
- Petrochemicals and lubricants technology
- Marketing channel management

#### **Growth market positions**

- Petrochemicals Asia
- Lubricants growth markets
- Refining and fuels developments

#### **Operating cash flow**



# Moving R&M forward

# bp

#### What you can expect

- Focus on safe, reliable, excellent operations
- Delivery of >\$2bn pa of pre-tax underlying performance improvement by 2012 vs 2009
- Industry leading returns
- Material earnings and operating cash flow growth
- Portfolio management
  - Focus on cash margin quality
  - Exposure to growth markets
- Leveraging technology innovation
- Disciplined investment
- Increased transparency of performance

#### What you can measure

- Pre-tax underlying replacement cost profit growth
- Annual net income per barrel
- Annual pre-tax operating returns



### Fuels Steve Cornell and Tufan Erginbilgic

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# The fuels business

Fuels value chain supply enabled by optimization and trading



# Refining and manufacturing

# Supply and distribution



Crude

product

Refined produ



# Sales and marketing









# Consumers

#### **Supply optimization and trading**

## Fuels: Where we operate



- Key sales & marketing operations
- BP owned refinery
- Joint BP owned refinery
- Refineries announced for divestment

#### **Global aviation fuels and LPG**

**Global supply optimization and trading operations** 

# How we capture refining margins

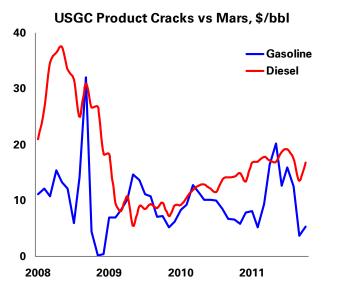


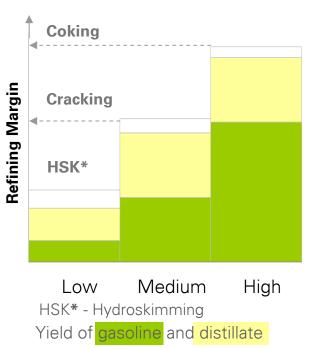
#### External value driver:

#### **Product Cracks/Margins**

#### **Strategic value driver:** Configuration and scale

#### Operational value driver: Availability Efficiency

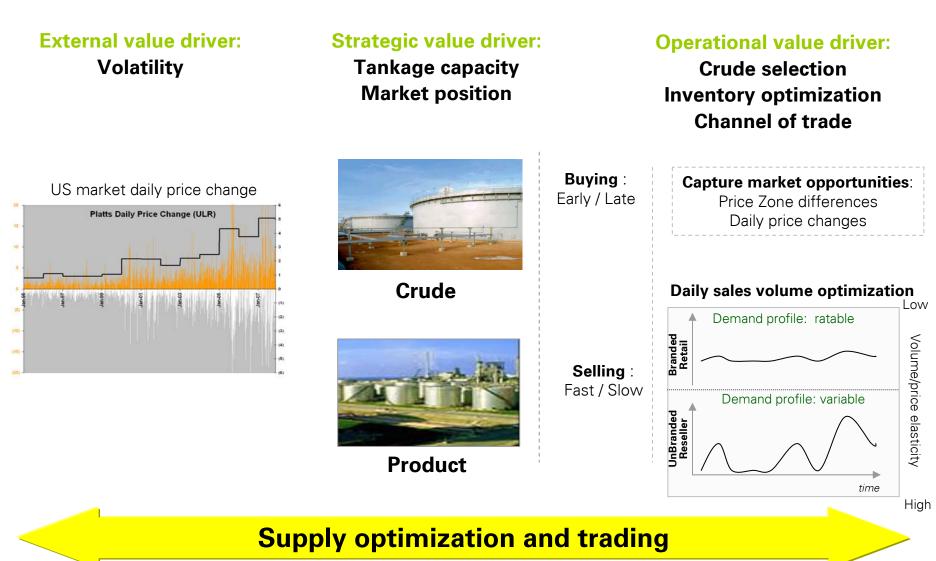






# How we optimize supply/distribution margins





# High-graded portfolio - Refining



**Refining utilization vs competition**<sup>(1)</sup>

#### 250 100% Current BP Divestment plans '11 - '12 Texas City Post 2013 95% Carson Average Refinery Size (kbd) **BP Divestments** '00-'10 Competitors ExonMobil Alliance 200 Mombasa 90% Coryton Reichstett Grangemouth Salt Lake ConocoPhillips Lavera Singapore Divested Yorktown Mandan 00>12 85% BΡ 150 80% 75% Competitor Range - BP 100 70% 8 9 10 11 7 **Nelson Complexity** Source: Oil & Gas Journal 2010 Size represents absolute scale of Refining portfolio

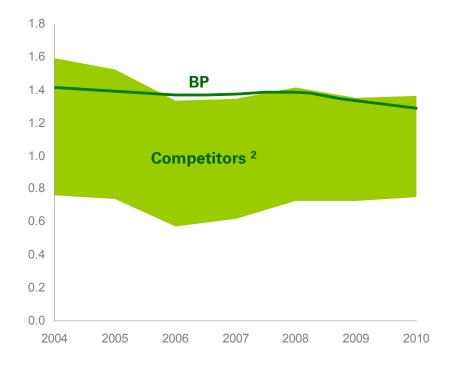
#### Global refining quality

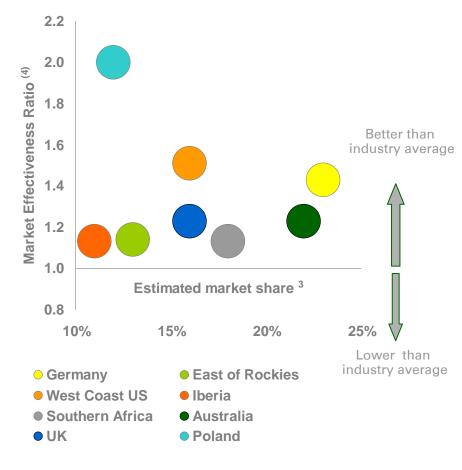
(1) Competitor set is other International Oil Companies reported crude throughput divided by crude capacity

# High-graded portfolio – fuels marketing



#### Marketing cover<sup>(1)</sup> of refining capacity





**Retail asset quality** 

(1) Total marketing sales divided by refining crude distillation capacity

(2) Competitors include ExxonMobil, Shell and Total

(3) BP share of industry retail sales – BP data estimates

(4) BP market share divided by BP share of site numbers for branded sites – BP data estimates

# How we drive sales and marketing margins



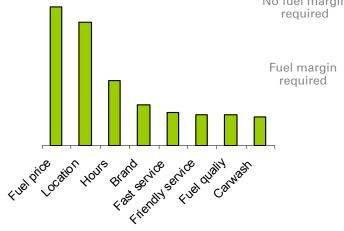
**External value driver:** 

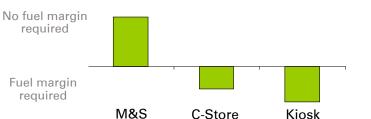
**Consumer preferences** 

#### Strategic value driver: Format / Operating Efficiency

Germany – Importance of site factors to consumers

**BP UK – Relative fuel margin** required for cash break even



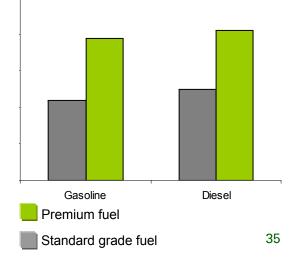


#### **Operational value driver: Differentiated Offers**



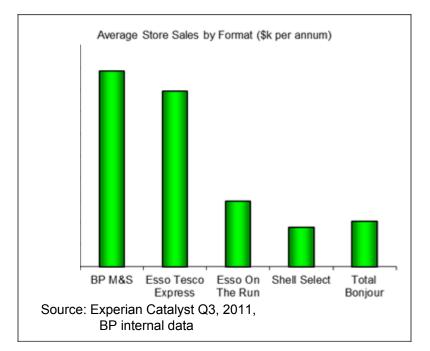
#### **Premium Fuels**

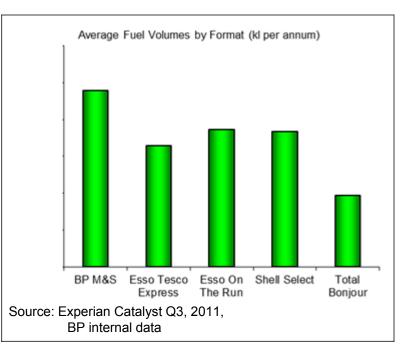
**UK Relative Fuel Margins** Premium v Standard Fuels



# BP and M&S in the UK: How we secure sales and marketing margins





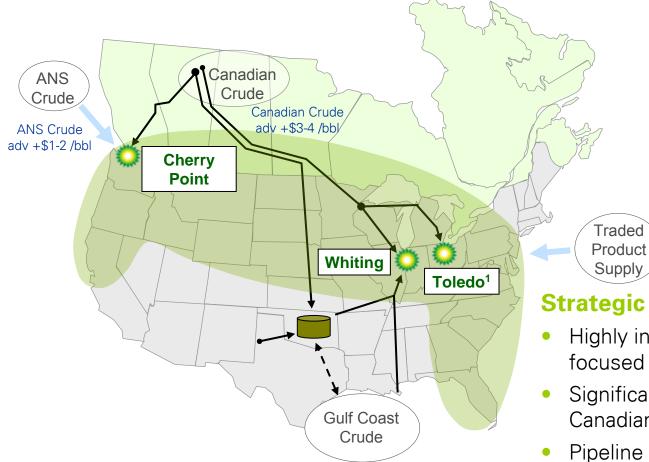


- BP/M&S partnership now extends to 135 stores
- Strong growth in store sales in M&S partnership stores post conversion
- Format is the market leader in the forecourt industry



# **Repositioned US Fuels business**





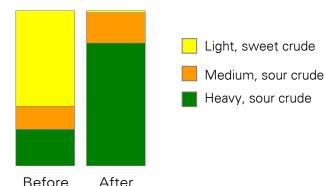
#### **Strategic Fit of US Portfolio**

- Highly integrated value chains focused in northern tier of US
- Significant location advantage for Canadian crude access
- Pipeline access provides unique competitive flexibility related to mid continent crudes
- Product logistics provide good support for refinery production 37

# Whiting Refinery Modernization Project

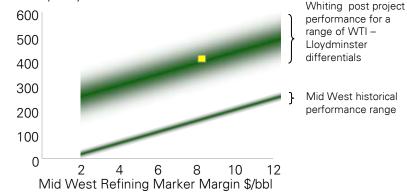


#### Whiting's capacity to process heavy crude is transformed

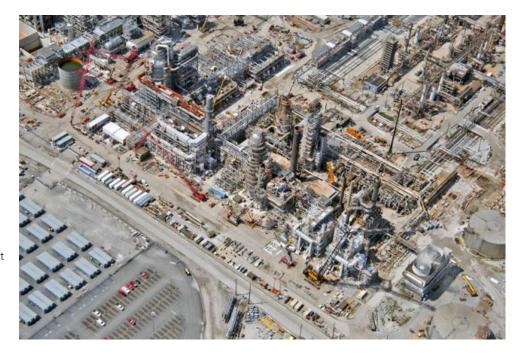


#### Whiting's sources of value

Indexed Pre-tax underlying RC profit \$/bbl of capacity



On-stream performance at average 3Q 2011 refining environment
 Regression line established from rolling 4Q average 1Q'02–1Q'07
 Based off nameplate capacity as stated in F&OI = maximum sustainable rate for a 30 day period



# Key global margin capture opportunities



# US

### Margin growth

- Whiting refining modernization project
- Cherry Point clean
  diesel
- Toledo continuous catalytic reforming

### Global

 Aviation: Building positions in growth markets especially BRIC<sup>(1)</sup> countries

### Key sales & marketing operations

### Eastern Hemisphere

Market growth

- Fuels: Australasia, Turkey, South Africa, Poland, China
- Convenience: Rhine, Australasia, Poland, UK

### Margin growth

 Gelsenkirchen yield improvement

### New access

 China: pursuing refining options

# Moving the fuels business forward



### What you can expect

- Focus on safe, reliable, excellent operations
- Industry leading refining availability and utilization
- Active portfolio management
  - Re-position US fuels business
  - Continued focus on quality
- Strengthen "winning" fuel value chain positions
  - Whiting investment
  - Focus on margin capability
  - Focus on growth geographies and market segments
- Continued focus on efficiency
- Competitive returns

### What you can measure

- Pre-tax underlying replacement cost profit
- Annual pre-tax operating returns
- Solomon availability and refining utilization



### Lubricants Tufan Erginbilgic

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## Lubricants: What is the business



We create superior value for our customers & consumers through the development & sale of differentiated lubricants and related products

## **Automotive**

### ~70% of sales

### Industrial, Aviation, Marine ~30% of sales



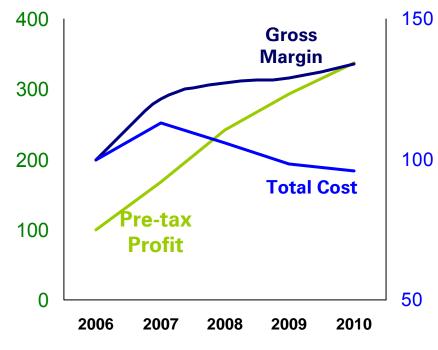
# Lubricants: Profit track record

Indexed Gross Margin &

**Total Costs** 



Indexed pre-tax underlying replacement profit

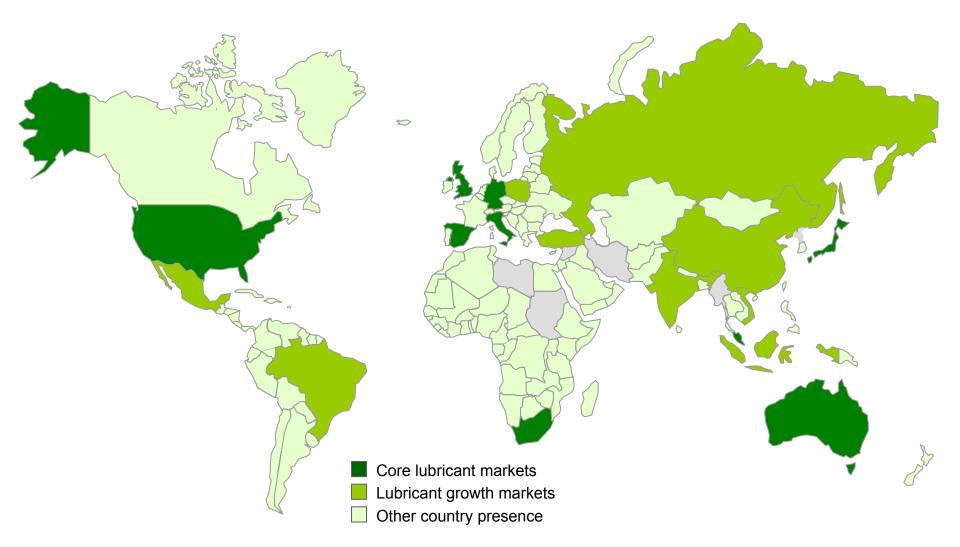


Data indexed to 2006 Total cost includes cash & non-cash costs Important source of growth for R&M

- ~\$1billion of pre-tax profit added since 2006
- Profit driven by top line and efficiency
  - Gross margin growth of 7%pa 2006-10
  - Costs below 2006 level
- Capital employed below 2006 level
- Pre-tax returns on capital employed now in excess of 20%

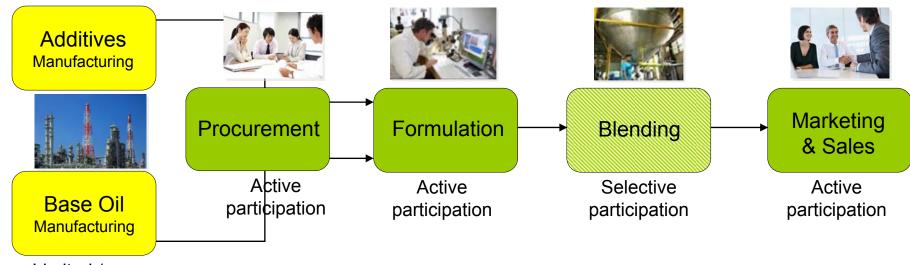
## Automotive lubricants: Where we participate





## Lubricants value chain



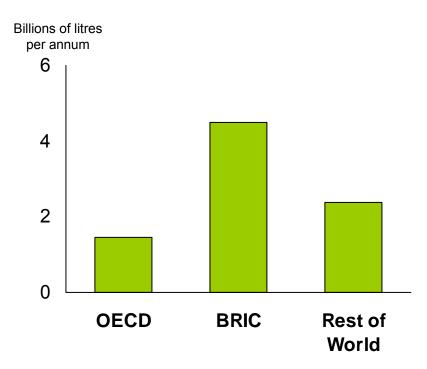


Limited / no participation

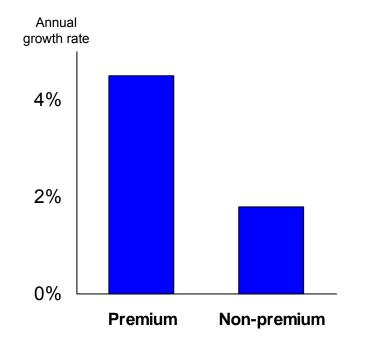
## The lubricants environment



### Increase in lubricants demand<sup>(1)</sup> 2010 to 2020



# Growth in premium lubricants<sup>(1)</sup> 2010 to 2020



## How do we win?





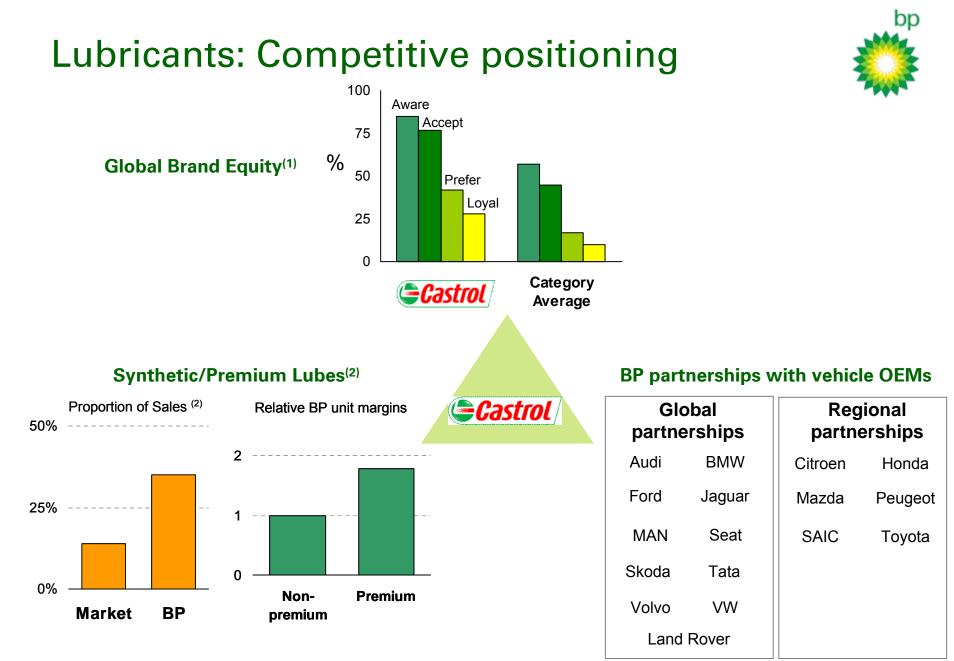
**Castrol** 







### Customer Relationships



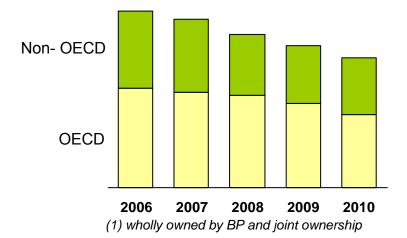
(1) Based on a Millward Brown 2011 survey of customers in 18 key automotive market-segment combinations

(2) BP estimates based on available industry data and internal analysis. Expressed as a percentage of total automotive engine lubes sales.

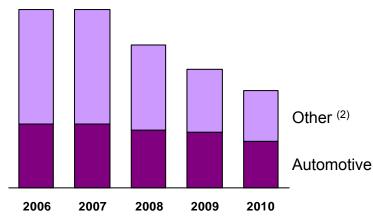
# Lubricants: Supply chain efficiency and simplification



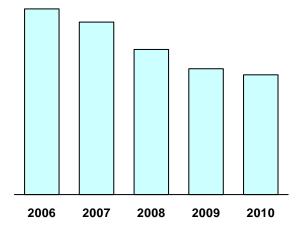
Number of blending plants<sup>(1)</sup>



### Number of product and pack variants



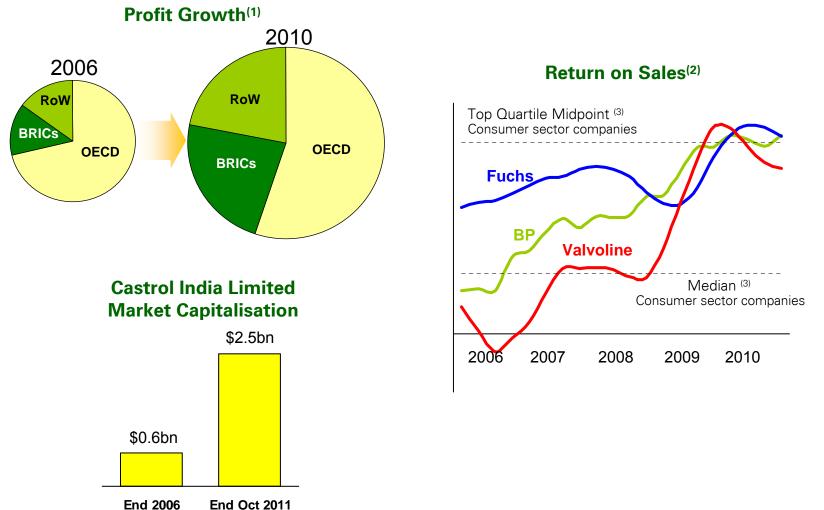
Number of countries with direct presence



(2) Industrial, Marine and Aviation products

# Lubricants: Our portfolio and performance





- (1) Pre-tax underlying replacement cost profit size of pie represents relative size of profit
- (2) Rolling four quarters, pre-tax basis
- (3) Based on average 2006-10 performance of around 3,000 consumer sector companies

# Moving the lubricants business forward

### What you can expect

- Focus on safe, reliable, excellent operations
- Growing margin share
  - Increasing exposure to growing non-OECD markets
  - Increasing premium share of sales
- Ongoing disciplined investment in
  - Lubricant technology
  - Brand
  - Customer relationships
- Sustaining leading returns in the industry

### What you can measure

- Pre-tax underlying replacement cost profit
- Annual return on sales
- Annual ratio of premium to total lubricant sales





### Petrochemicals Nick Elmslie

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# Petrochemicals: A global manufacturing and marketing business

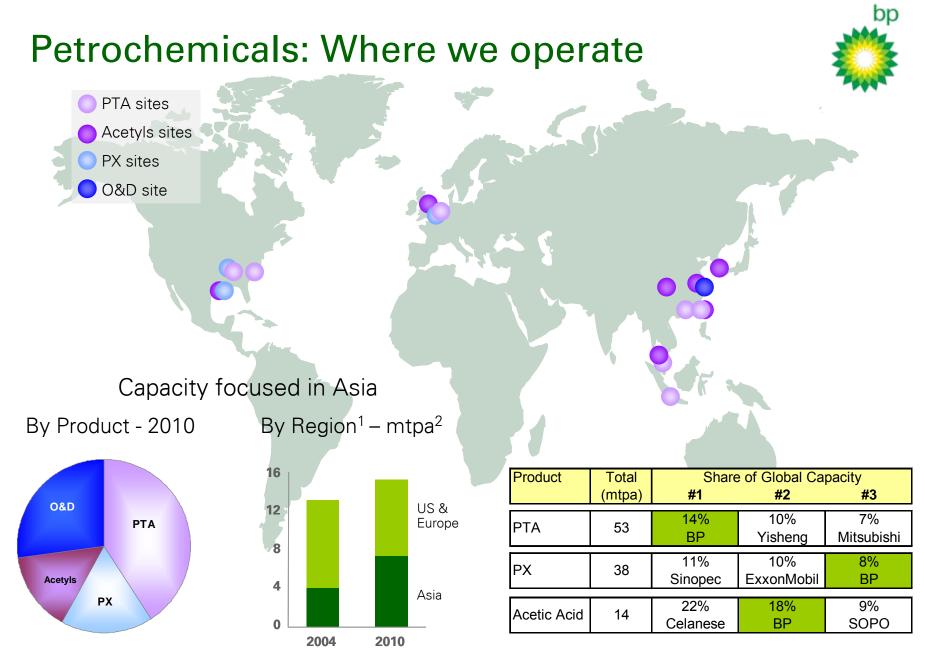


Feedstocks

**Develop and Deploy Proprietary Technology** 



**Customers** 

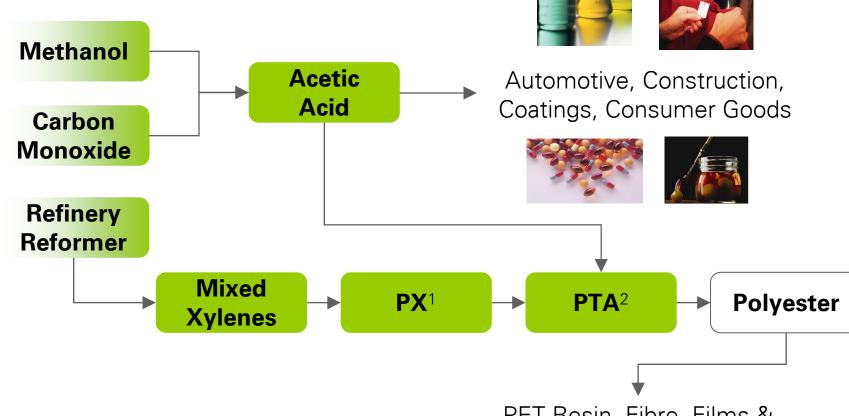


(1) Excludes Gelsenkirchen and Mulheim volumes reported within fuels business

(2) Million Tonnes per Annum

# Value chains – PTA, PX & Acetic Acid





PET Resin, Fibre, Films & Specialities

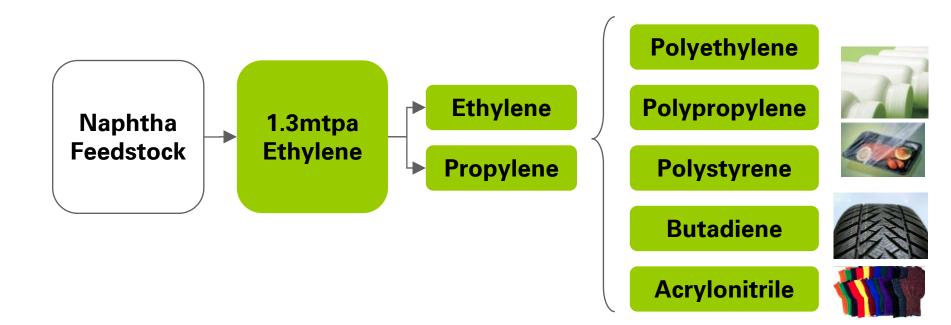




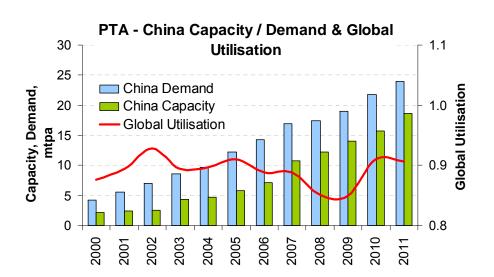


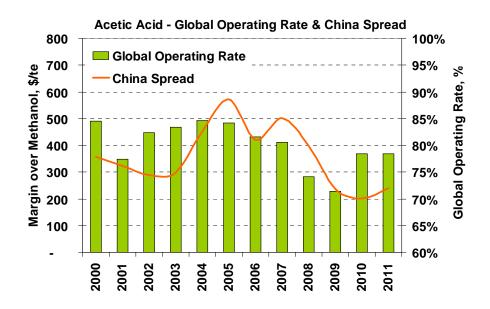
# Value chains – Olefins and Derivatives (O&D)





## The petrochemicals environment





- PTA & Acetic Acid are forecast to grow at 6.5%pa
- China PTA demand has grown by 15% CAGR<sup>(1)</sup> over the last decade
- Petrochemical margins driven by supply demand balance

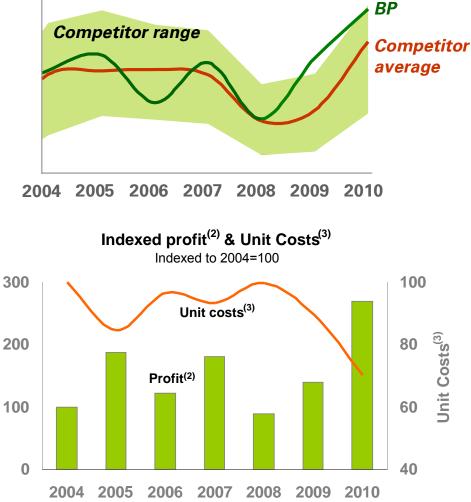
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# Petrochemicals: Our performance

Indexed profit<sup>(2)</sup>

- Performance vs. our competitors is top of the range in terms of RoS
- Differentiated returns are the result of advantaged technology, market access and operational efficiency
- In 2010 our profit exceeded \$1bn for the first time with 60% coming from the high growth markets of Asia





- (1) Post tax adjusted to comparable basis
- (2) Pre-tax underlying replacement cost profit indexed to 2004
- (3) Cash Fixed Costs indexed to 2004

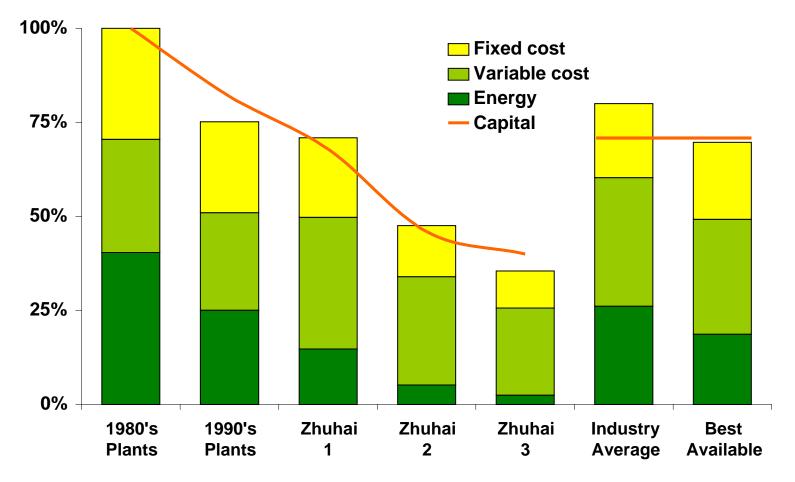




# Advantaged technology – PTA example



### PTA Technology Evolution, \$/te Indexed



Industry Average and Best Available are calculated using The PCI Consulting Group published information

# **Moving Petrochemicals forward**

# bp

### What you can expect

- Focus on safe, reliable, excellent operations
- Growing margin share
  - Extension of JV model in Asian growth markets
  - Development of next generation technologies
- Deployment of new and existing technology
- Ongoing disciplined investment
  - Sustain leading cost position
  - Focus on cash generation in US / Europe

### What you can measure

- Pre-tax underlying replacement cost profit
- Petrochemical volumes
- Annual return on sales



### Iain Conn Chief Executive – Refining and Marketing

November 30th

# Value growth – world class downstream business



# The highest quality downstream business

 Hydrocarbon value chains delivering leading returns and cash flow growth



- Fuels (including optimization and trading)
- Lubricants
- Petrochemicals





# Moving R&M forward

# bp

### What you can expect

- Focus on safe, reliable, excellent operations
- Delivery of >\$2bn pa of pre-tax underlying performance improvement by 2012 vs 2009
- Industry leading returns
- Material earnings and operating cash flow growth
- Portfolio management
  - Focus on cash margin quality
  - Exposure to growth markets
- Leveraging technology innovation
- Disciplined investment
- Increased transparency of performance

### What you can measure

- Pre-tax underlying replacement cost profit growth
- Annual net income per barrel
- Annual pre-tax operating returns