

# **The Impact of the Oil Price Crash on the E&P Industry**

*The Royal Institution*

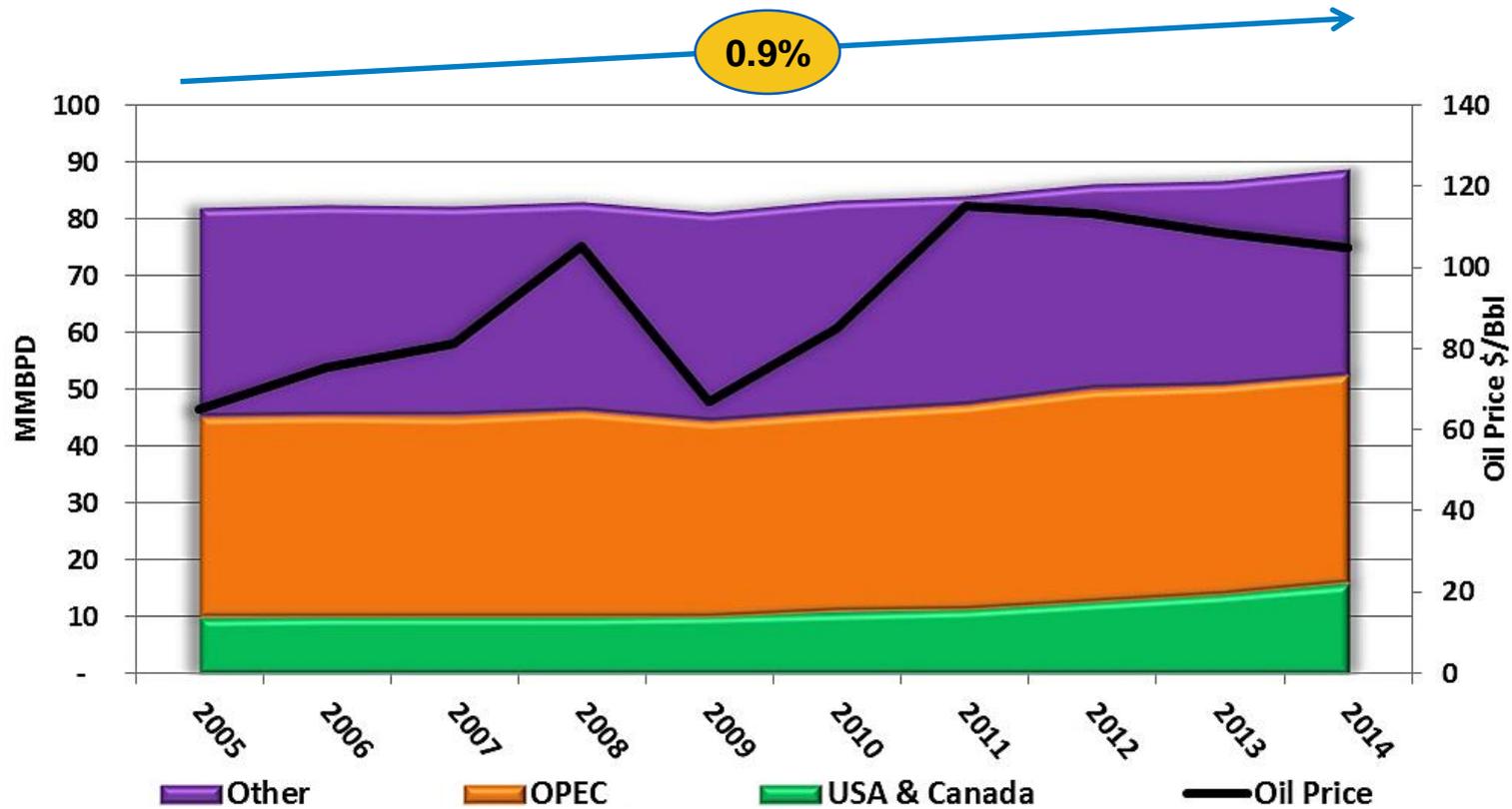
*25 February 2015*

# Today's Agenda

- ❑ What happened in the last 10 years of high oil prices?
- ❑ What might happen next?
- ❑ How to adjust to the current market situation?

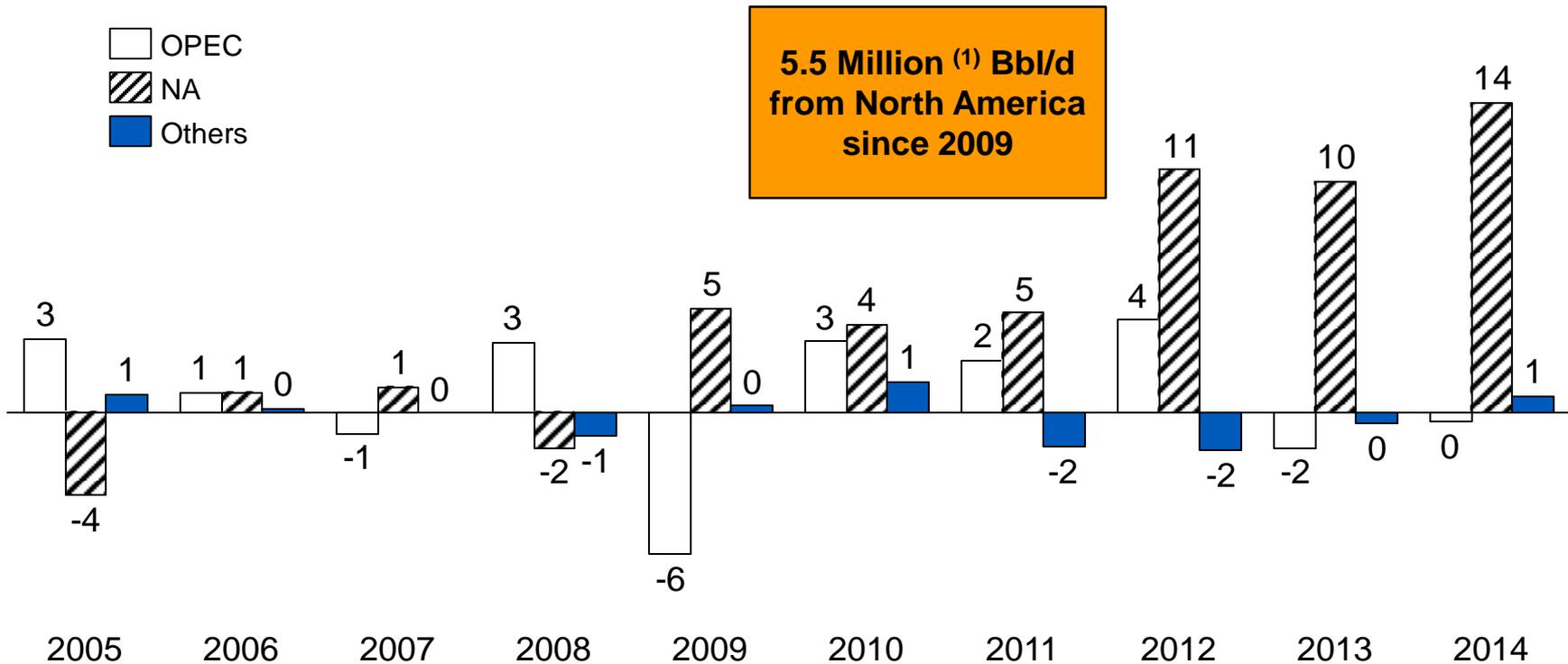
# Despite high oil prices, global output growth was modest

## World Oil production vs. (Brent) Oil Prices



# However, North America unconventional growth was strong

## Year-over-Year Production Change (%)



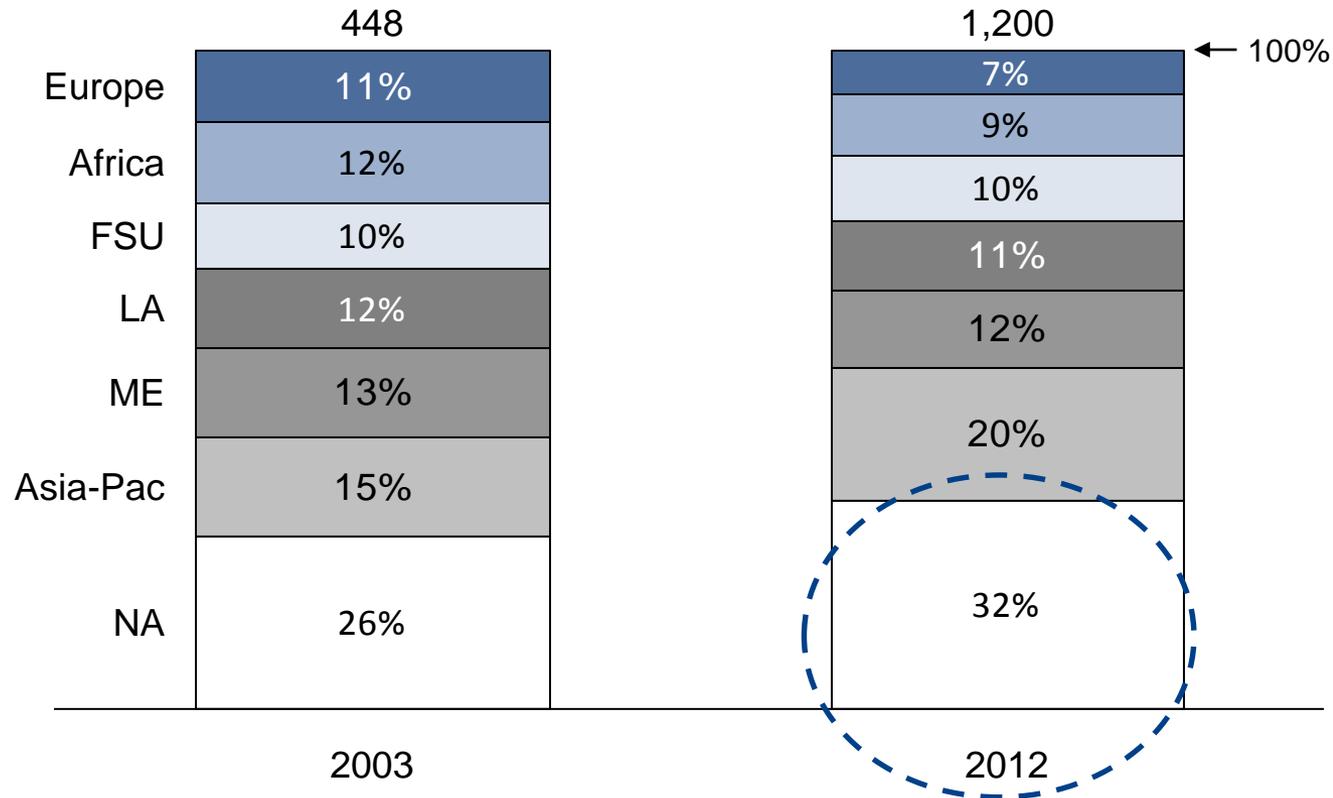
**The growth pattern in North America is unprecedented in the E&P industry – in the last 5 years output growth averaged 9% per year**

<sup>1</sup> Three times the amount of current global oversupply, reckoned by OPEC at 1.5 to 2 MMBbl

Source: BP statistical review 2013; IEA Oil Market Report; GCA analysis; OPEC; GCA analysis

# As a result, North America captured a larger share of global E&P investment

**E&P CAPEX <sup>(1)</sup> Evolution by Region, 2003 – 2012**



**Several international companies reshuffled their portfolios and increased their exposure to unconventional**

1 Including LNG/Pipelines

Source: IHS; GCA analysis

# Offshore also attracted attention with some countries providing consistent output growth

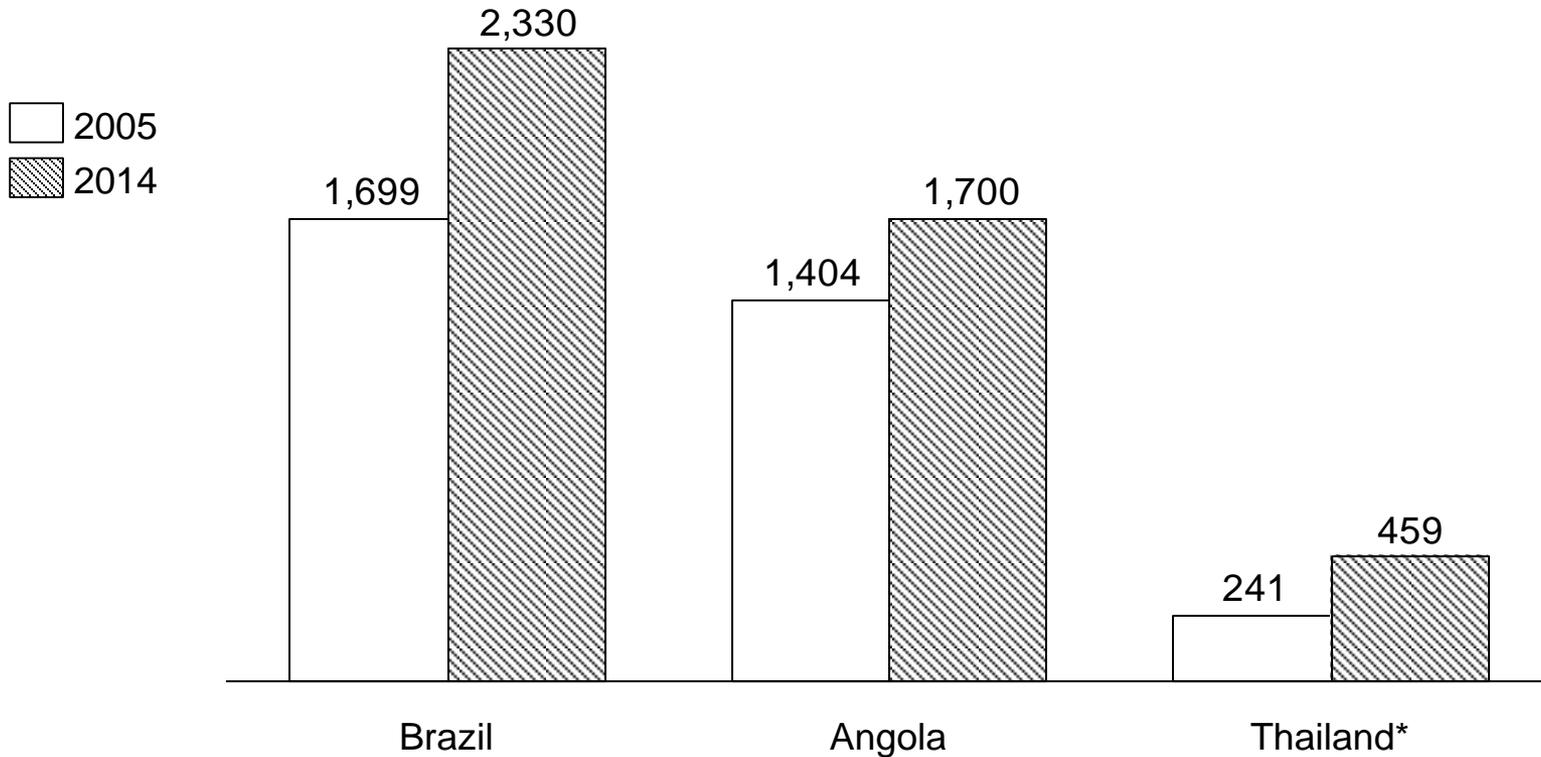
## Production Growth – “Offshore-Centric” Countries, 2005-2014 (MMBbl/d)

CAGR (%)

3.6

2.2

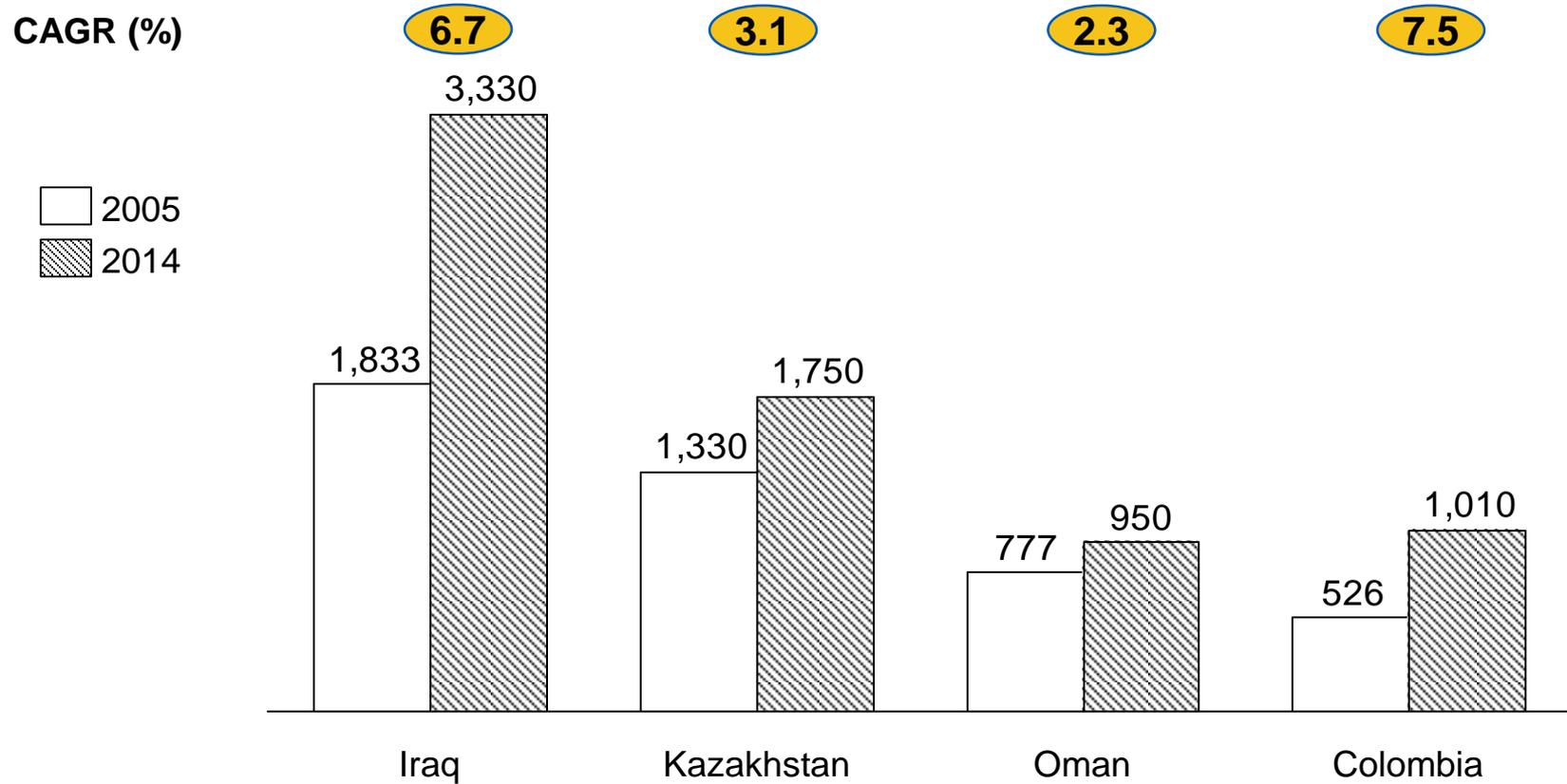
7.4



\* Thailand 2013 figures

# Some “conventional-centric” countries also provided robust growth rates...

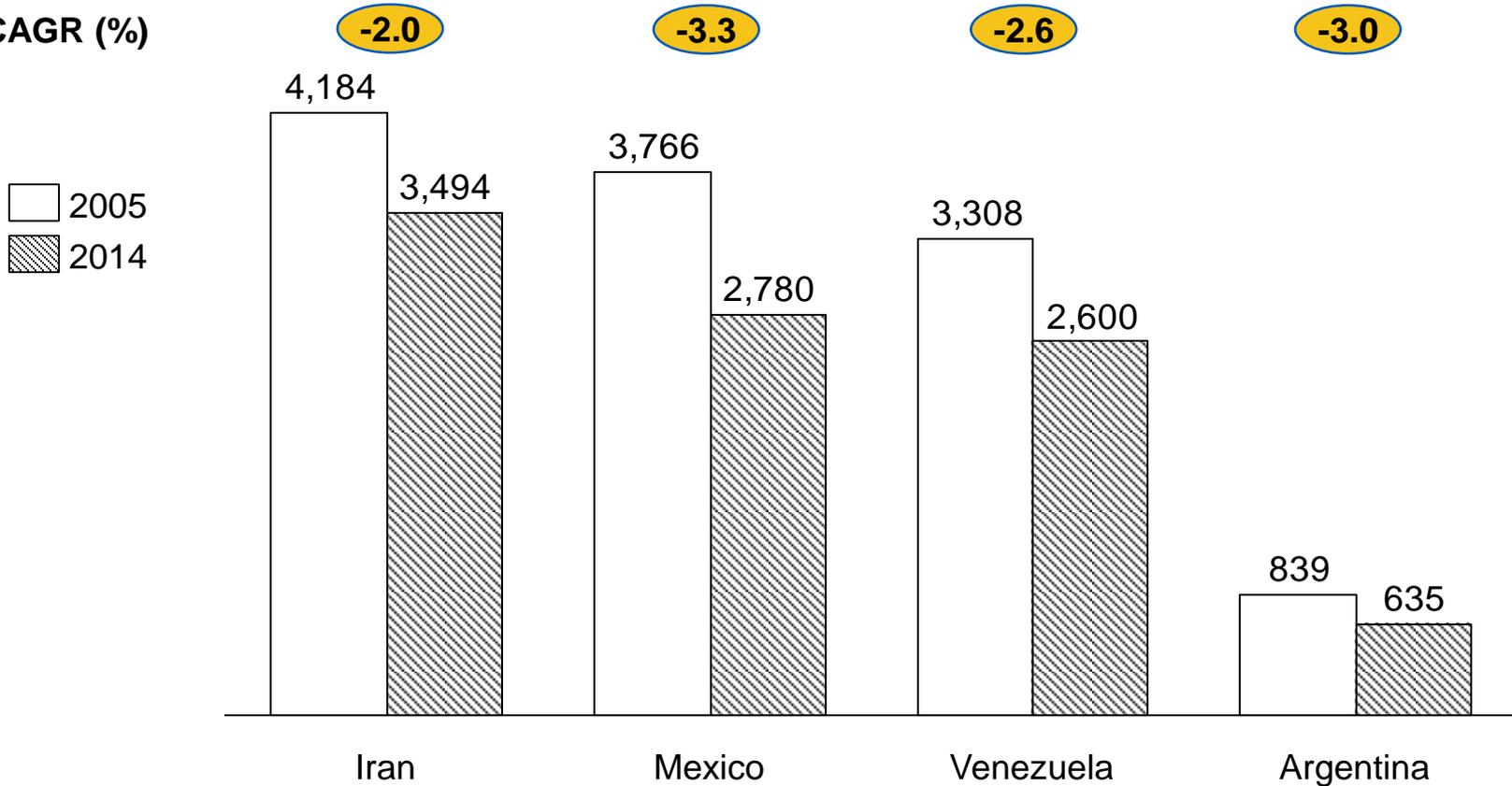
Production Growth – “Conventional-Centric” Countries, 2005-2014 (MMBbl/d)



# ...whereas others did not manage to grow their production – even with high oil prices

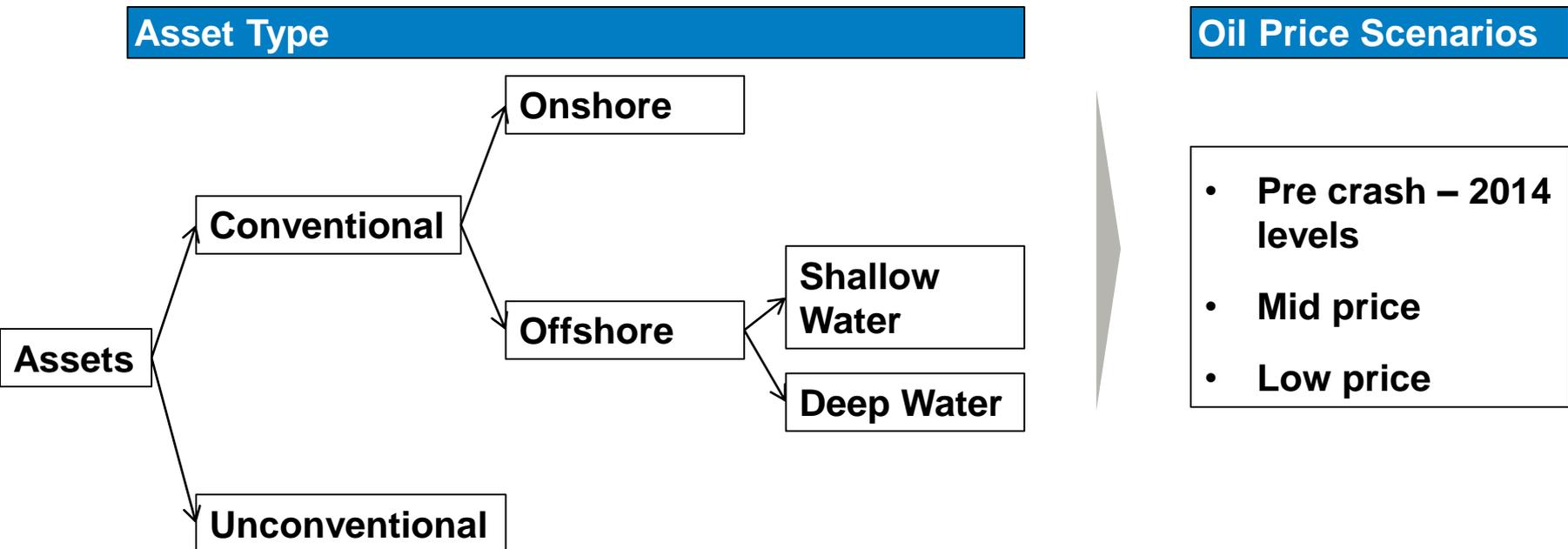
Production Growth, “Conventional-Centric” Countries, 2005-2014 (MMBbl)

CAGR (%)



# To gauge impact of low prices, we analyzed various asset types at a high level to understand industry trends

## Analysis Overview

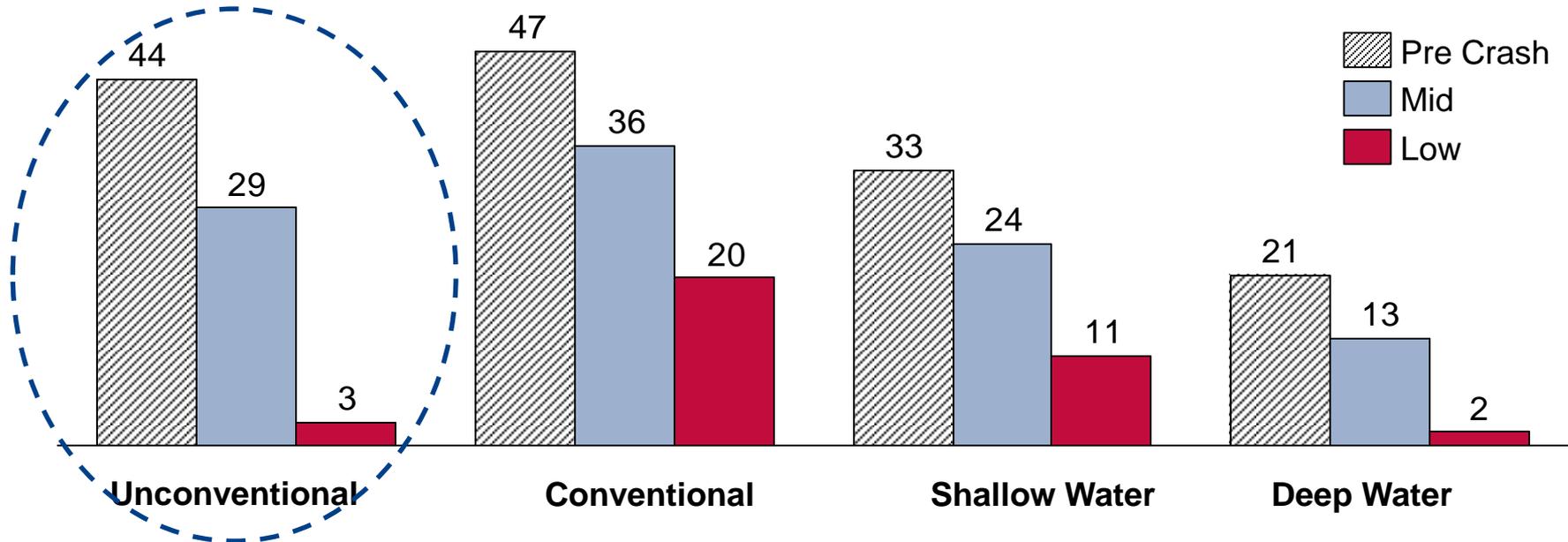


1 We considered different field sizes, maturities (exploration, development, production, respective cost profiles, different fiscal models ( Tax and Royalty; PSC Production Sharing Contracts)

Source: BP statistical review; GCA analysis

# The returns of unconventional are attractive in a high oil world, which explains their strong growth after 2008

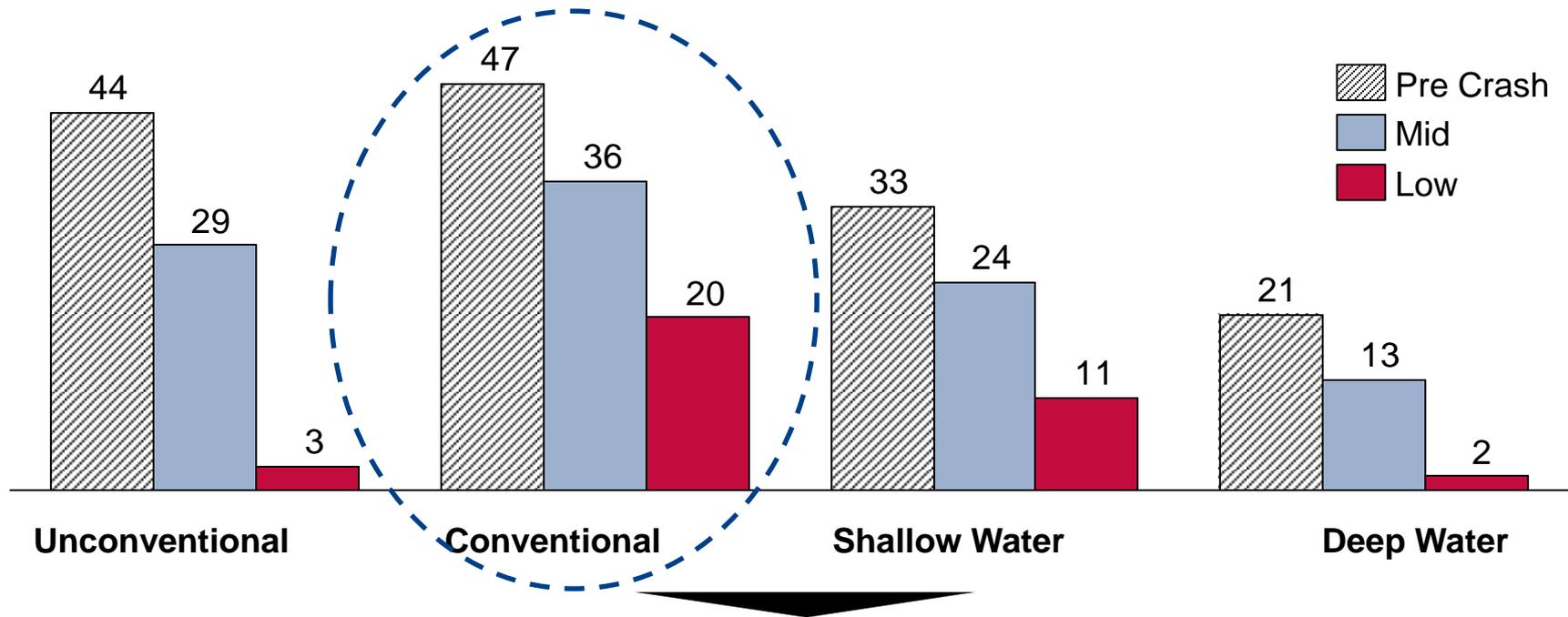
## Internal Rate of Return by Project Type



- ❑ Technology breakthrough plus high prices triggered unconventional boom
- ❑ Unconventional is sensitive to low prices given high marginal costs of development (constant drilling required to keep production flowing; quick production adjustments)

# Conventional is the most resilient play across all scenarios

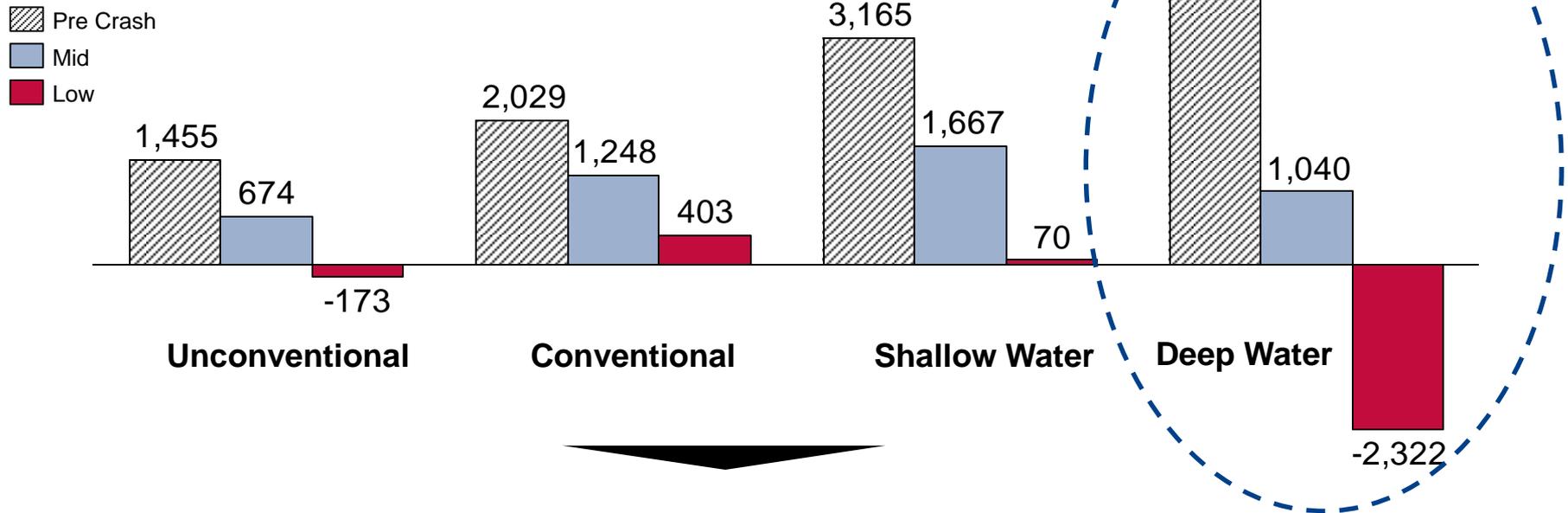
## Internal Rate of Return by Project Type



- ❑ However, in most jurisdictions “conventional” resources are in steep decline
- ❑ In many jurisdictions, access to resources is either restricted or closed (mostly in “resource long” countries)

# Deep water projects tend to be the most exposed to a low price scenario

## NPV10<sup>1</sup> sensitivity of type projects



- ❑ However, deep water projects provide large absolute value creation (NPV)
- ❑ Long-term in nature, therefore requiring long-term view of oil price fluctuations
- ❑ Projects already under development are normally financially structured and may not be influenced by the current scenario

1 20% royalty regime assumed

Source: GCA analysis

# Some adjustments are already happening

## Play type

## Trend After Price Crash

### Conventional

- Remains an attractive opportunity, however access is challenging
- Current scenario may prompt resource holders to rethink access (e.g. Mexico, others to follow?)

### Unconventional

- High grading of areas and adjustments to cost structures already happening (drilling costs expected to sink (10-30%) – over 2015)
- Efficiency gains running at 20% y-o-y to remain across the short term
- Production will respond quickly to price increases – drill to inventory strategy already happening
- Can still be attractive in a medium price scenario – “quick” cash pay-outs
- Possible industry consolidation in U.S. if prices remain low for long
- Growth outside U.S. will happen only if right industry design conditions are present

### Offshore

- Projects already in development phase shall continue
- Newer projects can be postponed as companies may impose more stringent internal approval processes and seek robustness of field development plan
- Cost adjustments tend to happen (drilling, oilfield services)

## Current Markets - The Perfect Storm?

- ❑ Low commodity prices
- ❑ Global geopolitical crises
- ❑ Stagnating global economic growth
- ❑ High cost structures
- ❑ Disappointing exploration results
- ❑ Move to unconventional assets
- ❑ Over-levered balance sheets
- ❑ Fragmented ownership of assets
- ❑ Tightening access to capital markets



“You’ve got hopelessness and despair until 3:25, at which time your survival instincts are scheduled to kick in.”

## Out of despair comes opportunity...

- ❑ Cyclicalitly – this isn't the first time this has happened and it won't be the last
- ❑ Down-cycles allow/force companies to revisit their core strategies, rebalance their portfolios, and markets will ensure assets are owned by those companies that can most efficiently develop them
- ❑ Companies often find themselves in one of the following categories:
  - Distressed
  - Weathering the storm
  - Opportunistic / Predatory
- ❑ How to get ready for the next cycle?

# Distressed Companies

## Characteristics

- ❑ Single asset / jurisdiction portfolios
- ❑ Mature high-cost portfolios with looming abandonment or decommissioning liabilities
- ❑ Highly-fragmented portfolios
- ❑ Exploration or early stage development assets with minimal cash flow
- ❑ Non-operated assets with little control over capital spending commitments
- ❑ Reserve write-downs and impairment
- ❑ Over-levered balance sheets
- ❑ Access to new sources of equity challenging



## Action / Response

- ❑ Initial focus on high-grading capital projects and cost discipline
- ❑ Renegotiate contractual obligations where possible – e.g. service contracts
- ❑ Relinquishment of licenses / leases
- ❑ Restructure and refinance balance sheet
- ❑ Evaluate strategic alternatives

# Weathering the Storm

## Characteristics

- ❑ More diversified portfolio of early-stage and mature assets but some imbalances exist
- ❑ May have some capital commitments carried by partners
- ❑ Short term cash flows partially preserved via hedging
- ❑ Higher cost structure
- ❑ Reserve write-downs and impairment on some assets
- ❑ Over-levered balance sheets but alternatives to de-lever exist
- ❑ Sustained low price environment will create severe distress



## Action / Response

- ❑ Initial focus on high-grading capital projects and cost discipline
- ❑ Revisit corporate strategy
- ❑ Review portfolio and ensure it aligns with strategy
- ❑ Use downturn as an opportunity to rebalance portfolio – “shrink to grow”
- ❑ Evaluate alternative financing sources
  - Equity
  - Debt re-financing
  - Asset dispositions
  - Dividend policy
  - Capital allocation

# Opportunistic / Predatory Companies

## Characteristics

- ❑ Strong capital and cost discipline in all phases of the commodity cycle
- ❑ Quality assets and well-balanced portfolios
- ❑ Strong balance sheets
- ❑ Ready access to cash reserves, equity, and debt markets
- ❑ Often larger in size (but not always)



## Action / Response

- ❑ See market dislocation as an opportunity
- ❑ Revisit and execute on long-term strategies for value to capitalise on increased A&D activity:
  - Consolidation
  - Portfolio rebalancing and transformation
  - Growth
  - New entry

## It is easier to say it than to do it, but companies need to...

### Revisit their corporate strategies

- What is the company really good at doing?
- How to leverage that?
- Where does it want to be in the business long-term?

### Rebalance their portfolios to align with their strategies

- Is my portfolio aligned with my goals?
- Does it have the right cost structure?
- What are the alternatives?
- How to execute on the plan?

### Ensure their balance sheet is structured to enable execution

- What is my optimal capital structure?
- What are the alternative sources of financing?

# Back-Up

# Price scenarios

