

A Market-Oriented Mechanism For Managing Oil Prices:

IAEE October 20, 2003

Sharif Ghalib

Energy Intelligence Research

The 2004 Outlook: A Problem?

- ❑ Absenting disruptions, most — not all — pundits expect fundamentals to soften & oil prices to begin to weaken.
- ❑ If so, how will Opec react? And...
- ❑ How will non-Opec respond?

Energy Intelligence's 2004 Oil Market Outlook

- Similar to several others (Preliminary):
- **A.** Global Demand: Up by about 1 m b/d (with faster global economic growth).
- **B.** Non-Opec Supply: Up by about 1.5 m b/d (with two-thirds from the FSU, led by Russia). So:

The 2004 Call on Opec Crude

- ❑ IF S and D behave as projected, the 'call' on Opec falls to about 25 million b/d (with no change in inventories).
- ❑ That figure assumes Iraq's oil production is (still) about 2 million b/d.
- ❑ That figure is 1 million b/d *less than estimated for Opec crude in 2003*.
- ❑ Also, it assumes Saudi crude output of about 7.2 m b/d (vs. about 8.5 m b/d in September, including the NZ).

That 2004 Outlook is Typical

<i>(millions of b/d)</i>	IEA: Oct.'03	Energy Intelligence: Aug.'03	Deutsche Bank: Sep.'03	Prudential : Oct.'03
Oil D	79.5	79.2	79.5	79.3
Nopec S	54.6	54.1	54.4	54.1
Opec * Call + In	24.9	25.1	25.0	25.2
<i>Memo:</i>				
Saudi	N.A.	7.5	N.A.	N.A.
Iraq	N.A.	2.0	N.A.	2.2

Oil Prices in 2004 ?

- The fundamentals suggest downward pressure on oil prices, absenting disruptions or further quota reductions:
- Recent Poll Results (July 2003):
Brent: Q4'03: \$24.23f 2003: \$26.53f
Actual (as of Sep.'03: \$ 28.27)
Brent: 2004: \$ 21.69f
2004 Range: \$17.50 (DK) - \$24.60
(JPM)

More Recent Price Forecasts

- EIA (Oct.'03):
 - WTI = \$30 thru Q1'04; \$27 by late-2004.
 - (Implied Brent: \$28 & \$25)
- Deutsche Bank (Sep. 26, 2003)
 - WTI = \$29.68 in 2003; \$24.50 in 2004
 - Brent = \$ 27.13 ; \$23.00
- Prudential Financial:
 - WTI = \$27 in Q4'03; \$24 in 2004
 - (Brent = \$25 in Q4 ; \$22 in 2004)

Brent Prices: 1979-2003 (September)

- The Average Price has tended to rise recently:
 - 1979- 85: \$32.33
 - 1986-89: \$16.52
 - 1990-99: \$18.30
 - 2000-02: \$25.90
 - 2003 (to Sep.) : \$28.27

Oil Prices Have Risen Because:

- ❑ There have been disruptions.
- ❑ Opec has been more cohesive since 2000.
- ❑ Opec has also had some help from non-Opec, though limited.
- ❑ With the 'September Surprise', it has begun to preemptively target still low oil inventories.
- ❑ No evidence — YET — of 'mean reversion'.

What If Oil Prices Threaten to Crash in 2004/2005 ?

- What is Opec likely to do?
- The likely Non-Opec reaction?

Opec's Attitude:

- ❑ The cartel surprised the market in Sept.:
- ❑ It unexpectedly & preemptively cut quotas to 24.5 million b/d from Nov. 1.
- ❑ But its President said later:
 - ❑ Non-Opec will need to support Opec if the market softens in 2004 (especially Q2), or 'we will switch from stabilizing prices to protecting our market share!'

Non-Opec's Verbal Reply

- ❑ Norway: No way now! Not at current prices that are 'too high'.
- ❑ Russia: Want 'fair prices;' ready to help if prices fall (sharply); favor price band of \$20-25 for Urals:
 - ❑ Equal to about \$21-26 for the Opec Basket & lower than '\$22-28'.
- ❑ But Both Norway & Russia have recently referred to \$20 as a 'threshold!'

If Push Comes to Shove....

- ❑ Is an oil price-war inevitable?
- ❑ That depends on:
 - ❑ How far prices threaten to fall
 - ❑ Opec and non-Opec capacities to withstand low prices for a lengthy period of time.
- ❑ In other words: That depends on 'Pain Thresholds'.

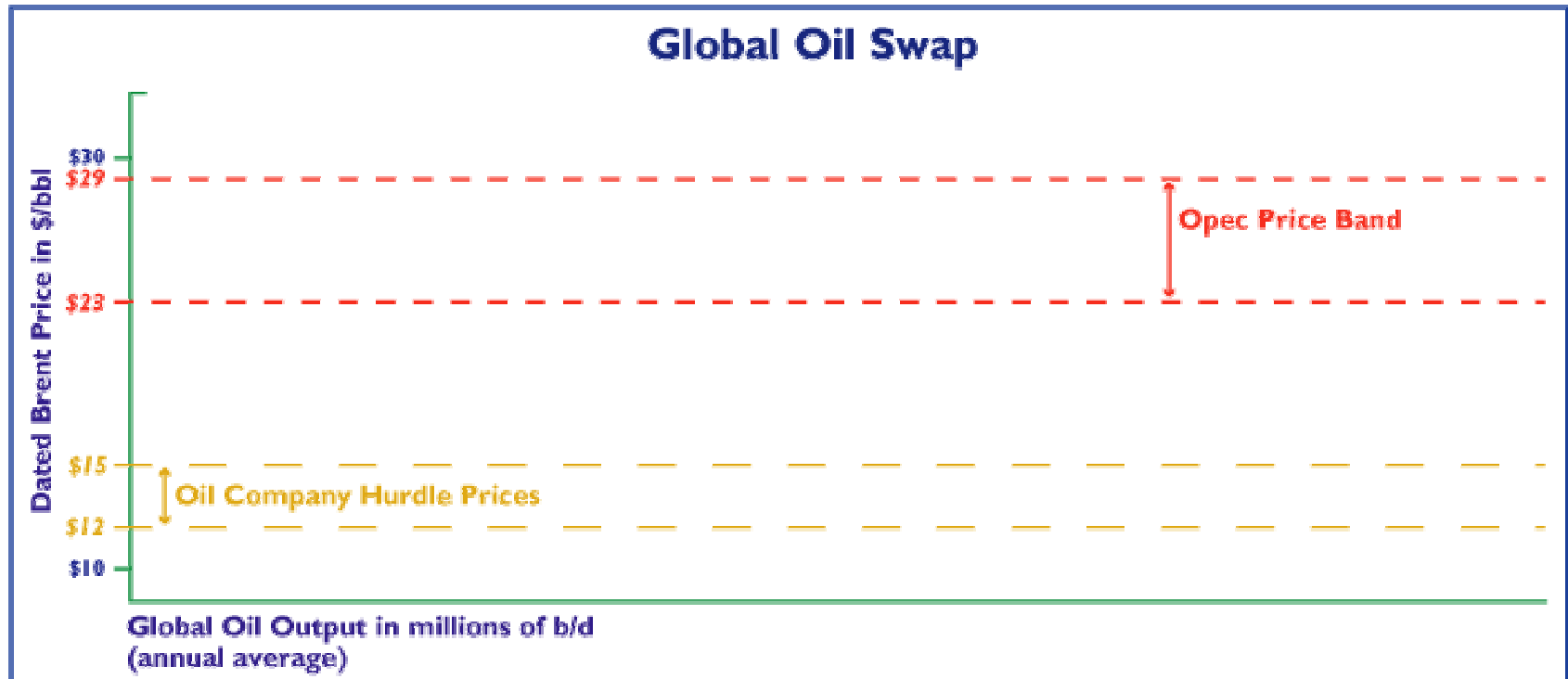
What is a 'Fair' Price of Oil?

- Both consumers and producers have given lip service to the desirability of achieving 'fair, reasonable, stable' oil prices. But:
 - Given marked differences in resource endowments, economic structures, and market philosophies... it remains an elusive and probably unattainable target.

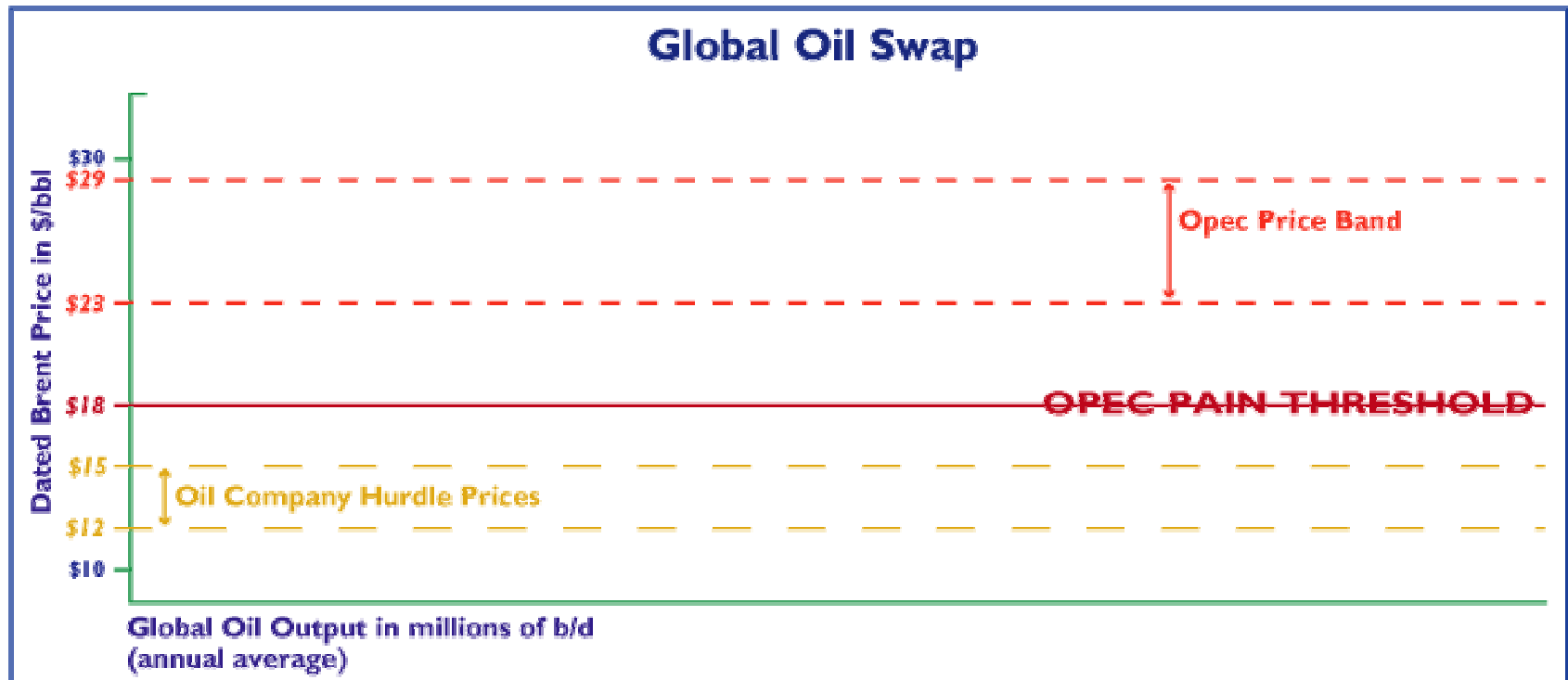
A Market Oriented Mechanism

- ❑ Can a market-oriented market mechanism be devised to:
 - ❑ ‘Manage’ oil price fluctuations
 - ❑ Reduce the potential for a debilitating Price War?
- ❑ A suggestion is the creation of a global ‘oil-for-cash’ swap. Its elements are as follows...

Existing Price Thresholds: A



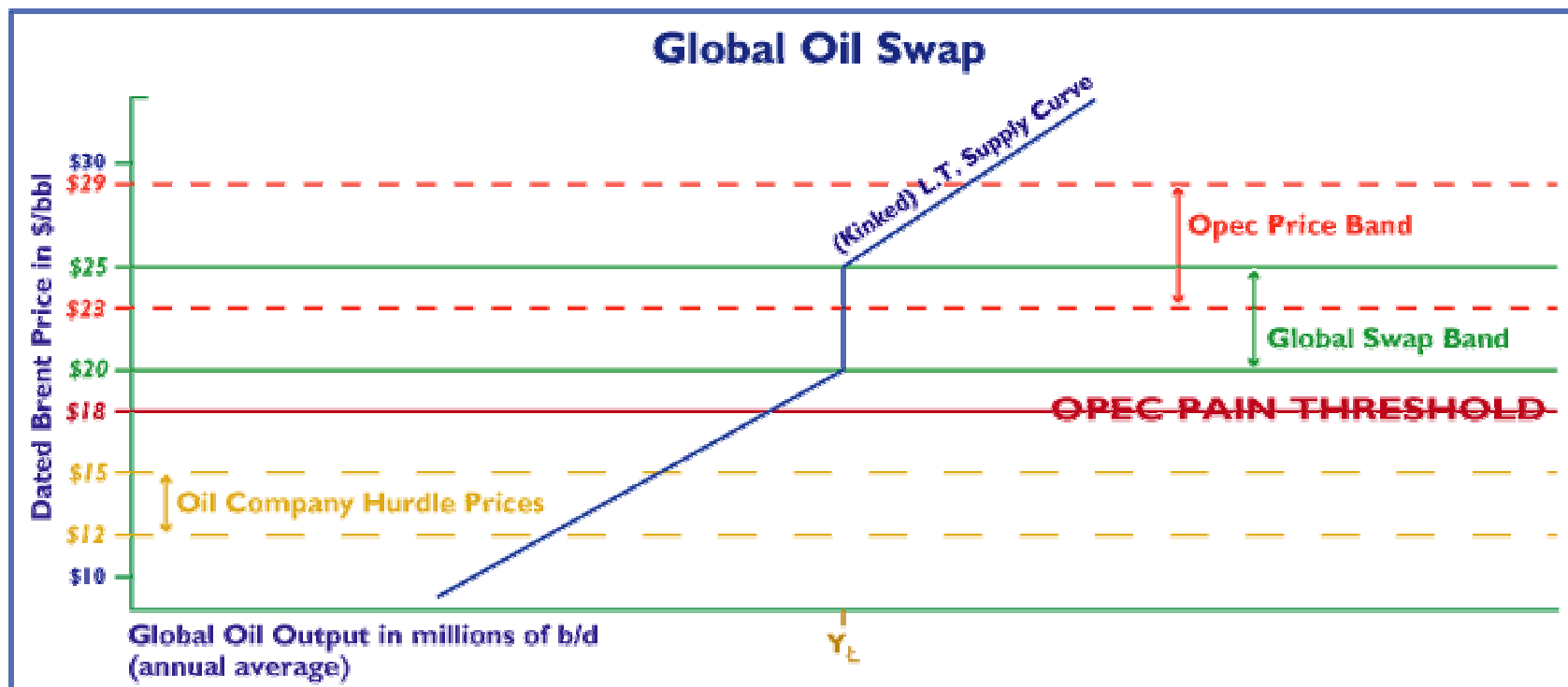
Existing Price Thresholds: B



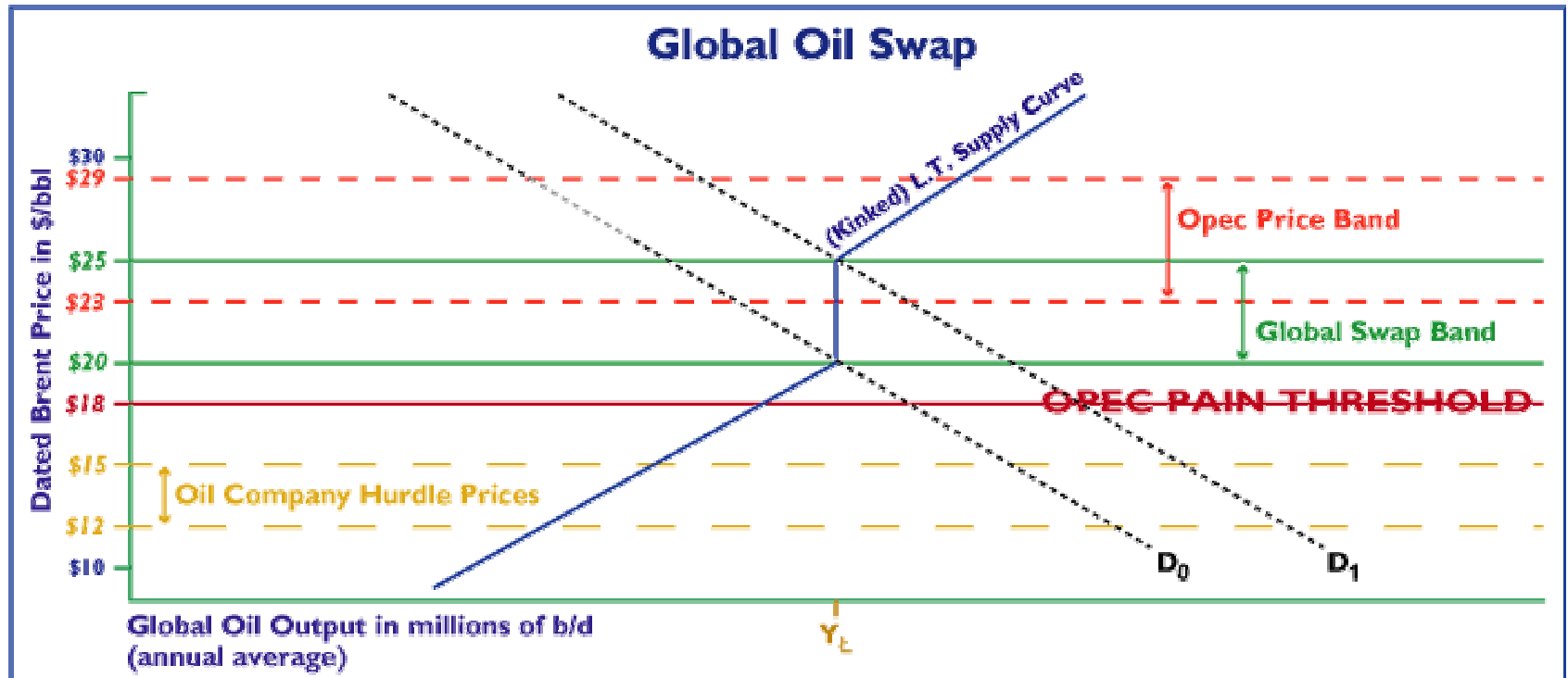
The Global Swap: Elements

- ❑ Agree on a *range* of prices acceptable to both sides.
 - ❑ Agreement on that range could be facilitated by providing financial incentives in the form of ‘compensatory payment arrangements’.
- ❑ The financial mechanism could be effected via the IMF: SDR allocations or a new compensatory facility.

The 'Global Swap' Price Band



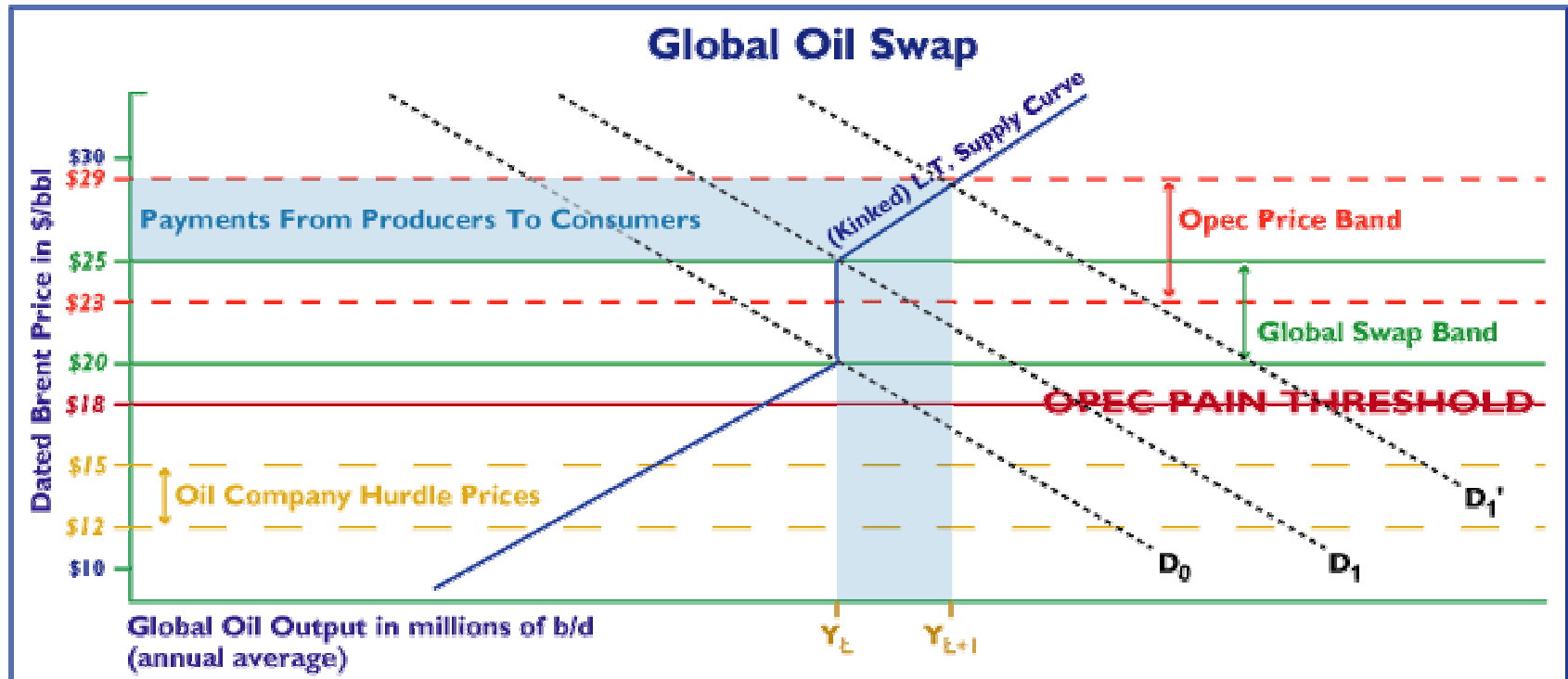
Movements Within the Swap Band



Within the Swap Band

- ❑ As long as the oil price stays within the band, 'nothing' happens
- ❑ Therefore, the price of oil would be determined by market forces

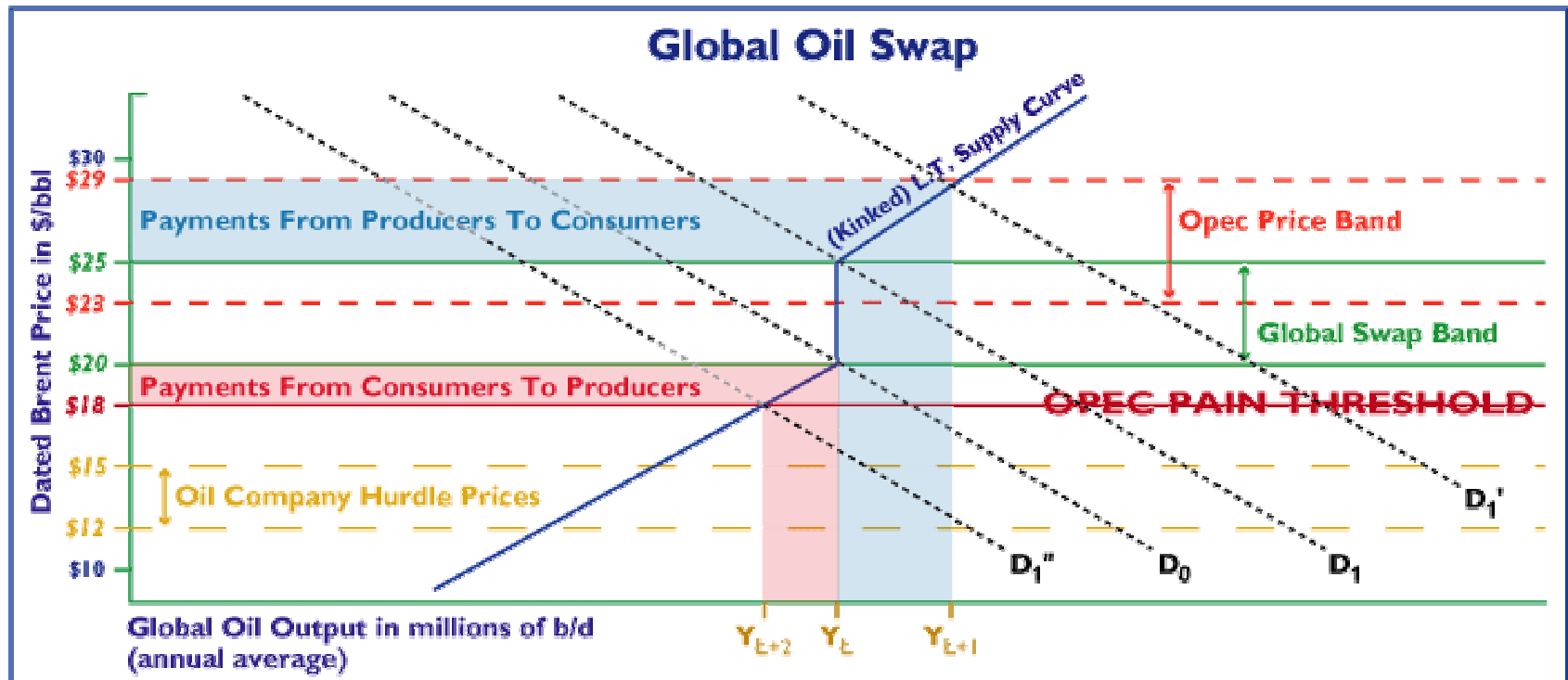
Payments From Oil Producers



If Prices Exceed the Top End:

- ❑ Producers become obliged to make payments to consumers = to the price difference (shaded area).
- ❑ If prices stay above the upper band level, the financial penalty *could* be large.
- ❑ But it *could* provide producers with the incentive to raise oil output and put downward pressure on prices

Payments From Oil Consumers



If Prices Fall Below the Low End

- ❑ The opposite happens: consumers become obliged to make payments to producers.
- ❑ If they remain there for an extended period of time, the obligations to pay could become sizeable.
- ❑ Thus producers *could* provide consumers with an incentive to lift D
 - ❑ For example, add to SPRs even though the lower prices will stimulate demand anyway.

Benefits of the Global Swap

- ❑ Market Oriented:
 - ❑ Constrains oil price volatility with clearly defined rules of the game.
 - ❑ Could reduce possibility of a Price War.
- ❑ If both Oil Consumers & Producers commit, the 'Global Swap' could work!

Thank you for your attention.