



The Joint Oil Data Initiative

A concrete outcome of the producer-consumer dialogue
Stavanger, 24 August 2006

What is
the Joint  Oil Data Initiative?

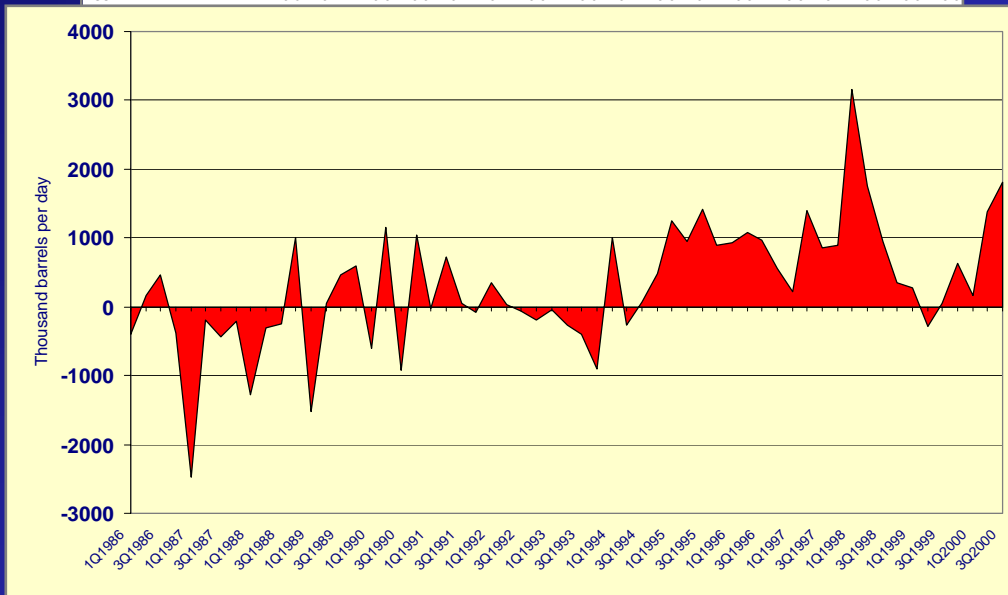




Is Quality Deteriorating?

**Table 1
WORLD OIL SUPPLY AND DEMAND**

	1997	1998	1Q99	2Q99	3Q99	4Q99	1999	1Q00	2Q00	3Q00	4Q00	2000	1Q01	2Q01	3Q01	4Q01	2001
OECD DEMAND																	
North America	22.7	23.1	23.6	23.5	24.1	24.3	23.9	23.6	23.7	24.3	24.4	24.0	24.3	23.9	24.5	24.7	24.3
Europe	15.0	15.3	15.8	14.4	14.7	15.6	15.1	15.1	14.5	15.0	15.3	15.0	15.3	14.6	15.1	15.6	15.2
Pacific	9.0	8.4	9.4	7.9	8.2	9.1	8.6	9.3	8.0	8.3	8.8	8.6	9.5	8.1	8.4	9.0	8.7
Total OECD	46.7	46.8	48.7	45.7	47.0	49.0	47.6	47.9	46.3	47.7	48.4	47.6	49.1	46.6	48.0	49.3	48.2
NON-OECD DEMAND																	
FSU	3.8	3.7	3.6	3.3	3.4	3.7	3.5	3.6	3.4	3.5	3.7	3.5	3.6	3.4	3.3	3.5	3.5



	1997	1998	1Q99	2Q99	3Q99	4Q99	1999	1Q00	2Q00	3Q00	4Q00	2000	1Q01	2Q01	3Q01	4Q01	2001
Total Supply	74.4	73.5	73.3	73.1	73.6	74.3	74.1	73.2	76.2	77.0	76.3	76.7					
STOCK CHANGES AND MISCELLANEOUS																	
Reported OECD																	
Industry	0.3	0.2	-0.7	0.4	-0.2	-2.4	-0.7	-0.3	0.9	0.4	-0.1	0.2					
Government	0.0	0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.3	-0.1					
Total	0.3	0.3	-0.7	0.4	-0.3	-2.5	-0.8	-0.3	0.9	0.4	-0.4	0.2					

Miscellaneous to balance 0.9 1.6 0.2 -0.3 0.0 0.5 0.1 0.1 1.4 0.7 1.9 1.0

Memo items:

	1997	1998	1Q99	2Q99	3Q99	4Q99	1999	1Q00	2Q00	3Q00	4Q00	2000	1Q01	2Q01	3Q01	4Q01	2001
Call on OPEC crude + Stock ch. ⁵	25.9	26.0	28.3	26.1	26.7	28.2	27.3	26.7	25.4	27.3	27.0	26.6	27.8	25.6	27.2	28.0	27.2
Total Demand ex. FSU	69.3	69.8	72.1	69.6	70.6	72.9	71.3	71.9	70.5	72.4	72.7	71.9	73.7	71.6	73.3	74.7	73.3
Total demand exc. FSU (% ch) ⁶	3.1	0.7	3.7	1.8	1.5	1.7	2.2	-0.3	1.2	2.6	-0.2	0.8	2.5	1.6	1.2	2.7	2.0

1 measured as deliveries from refineries and primary stocks, comprises inland deliveries, international marine bunkers and refinery fuel and includes crude for direct burning, oil from non-conventional sources and other sources of supply
 2 net of volumetric gains and losses in the refining process (excludes net gain/loss in former USSR, China and non-OECD Europe) and marine transportation losses
 3 comprises crude oil, condensates, NGLs, oil from non-conventional sources and other sources of supply
 4 includes changes in non-reported stocks in OECD and non-OECD areas
 5 equals total demand minus total non-OPEC supply minus OPEC NGLs and thus includes "Miscellaneous to balance" for historical time periods
 6 year on year % growth in global oil demand excluding FSU





A Short Background on JODI

Technical

**Heads of Statistics
in Paris**

- There are many problems with definitions, units, methodology
- Organisation can solve some of the problems
- Involvement of countries is essential

Political

**Ministers at the
7th IEF Meeting**

**Paris
13-14 Nov. 2000**

**Riyadh
17-19 Nov. 2000**

**Bangkok
2-3 April 2001**

“Co-operation among relevant international organisations, as well as the participating countries, in improving and timely accessing to energy data is important for market assessment and transparency.”

**Decision taken to
launch a 6-month
exercise**



Strong political support reaffirmed + launch JODI database

Strong political support

Decision to make the exercise a permanent reporting mechanism

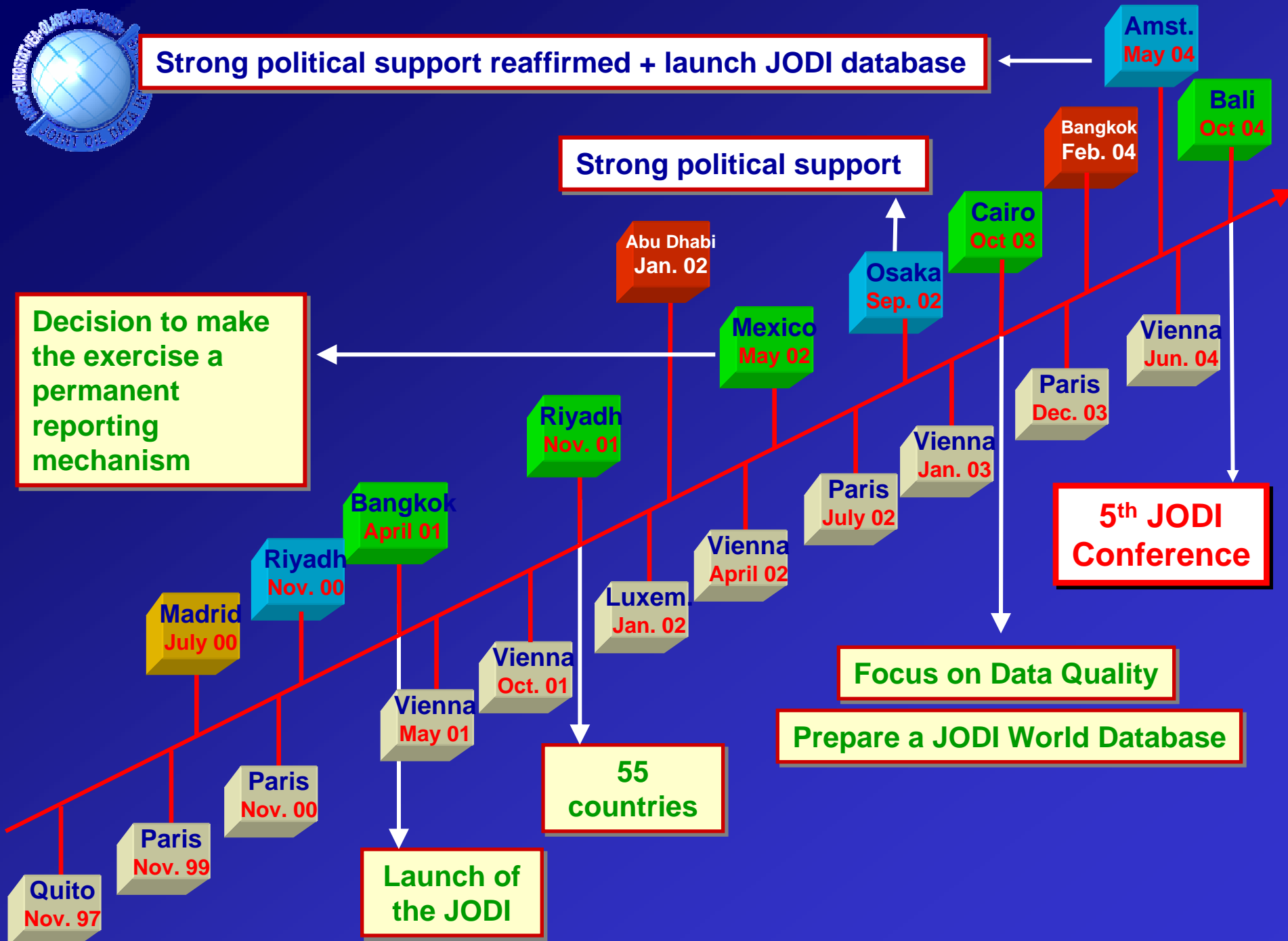
5th JODI Conference

Focus on Data Quality

Prepare a JODI World Database

55 countries

Launch of the JODI





The Exercise: As Simple as Possible

JOINT APERC/EUROSTAT/OECD-IEA/ OLADE/OPEC/UN

A Simple Format (42 data points)

Country: _____

Month: _____

Unit: _____

		Crude Oil	Petroleum Products						
			LPG	Gasoline	Kerosene	Gas/Diesel Oil	Fuel Oil	Total Oil	
Production	Month -1 and Month -2	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil
Imports		Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil
Exports		Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil
Stocks	Closing	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil
	Change	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil
Refinery Intake		Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil

Choice of units left to organisations

Simple Definitions



Enormous Progress/Accomplishment Over the Last 4 Years

- Reporting mechanism at country level:
 - Establishment of mechanism when there was none
 - Moving from M-3 to M-2 to M-1
 - Fewer confidentiality issues
 - Better quality data
- Continuous increase in coverage
- A JODI World Database



China

Fewer Confidentiality Issues

Progress in
monthly
reporting

5. Stock

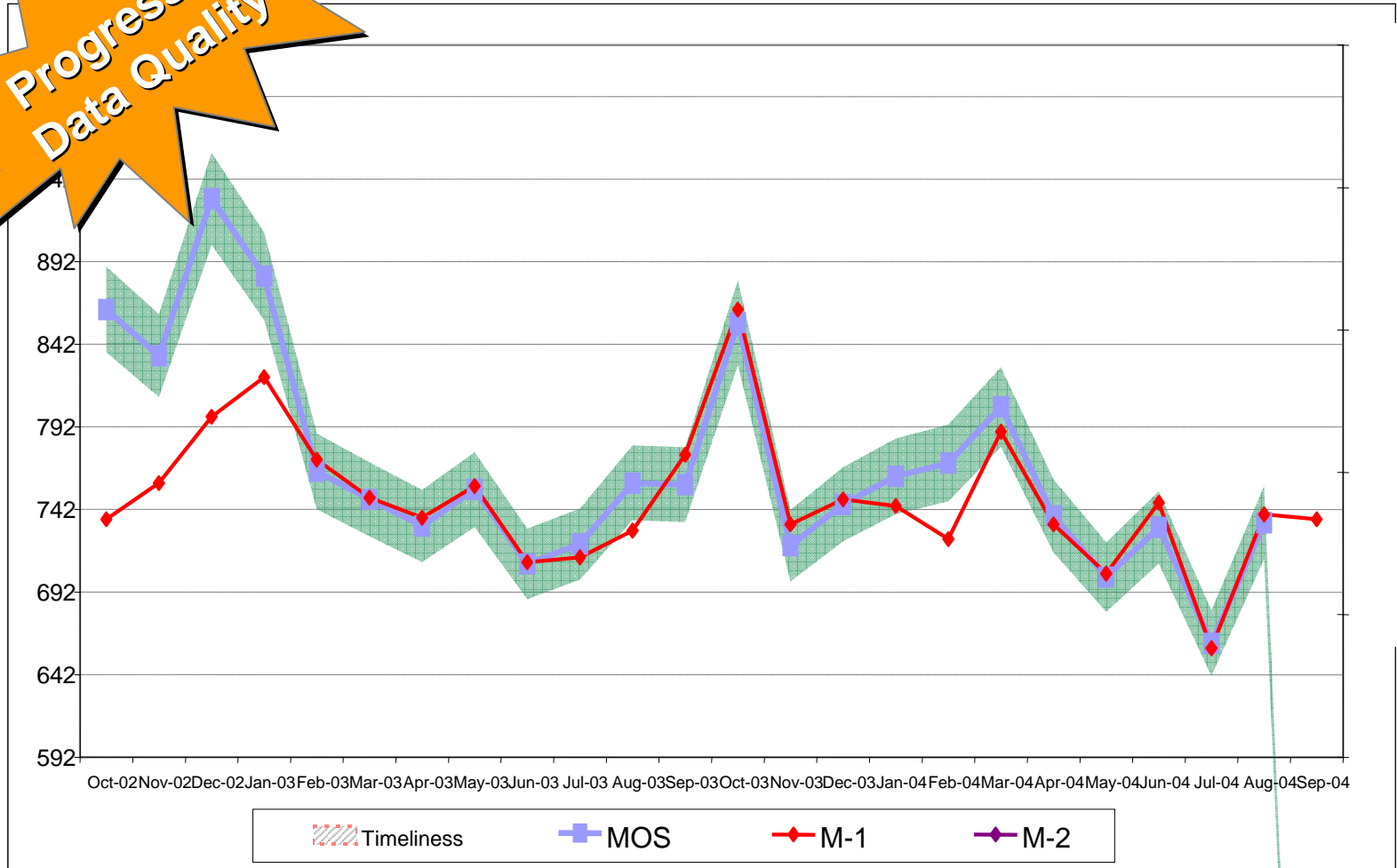
- Quarterly survey oil production, sales and stocks of industry enterprise
- Monthly survey oil production, sales and stocks of three large companies (CNPC, Sinopec, CNOOC)

China has started to collect and release stocks changes data; data on stock levels should follow



Progress in
Data Quality

Denmark



MOS Range
3.0%

Product
Total Oil

Flow
Demand

MOS M-1 M-2 Timeliness

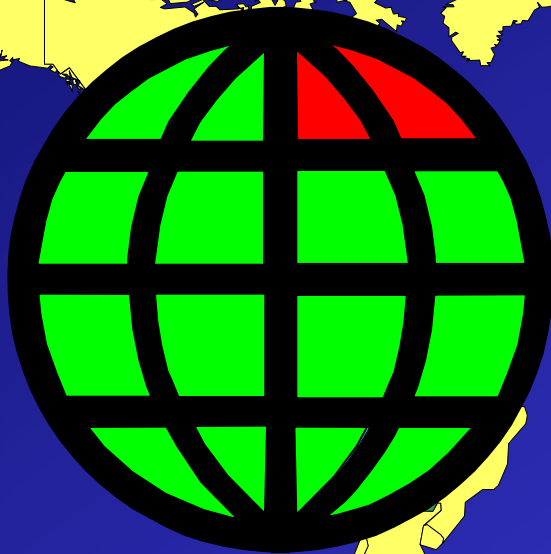




Number of Countries Participating in JODI: More than 90 at the 9th IEF in Amsterdam

Progress in
Coverage

Global Oil Production



94% of world total

Global Oil Demand



95% of world total

A database was prepared but only opened to participating countries

Unit: <u>Thousand Barrels per day (kb/d)</u>	Product: <u>Crude Oil</u>		Balance: <u>Production</u>							
Country	Oct2003	Nov	LPG	Jan2004	Feb2004	Mar2004	Apr2004	May2004	Jun2004	Jul2004
Algeria			Gasoline	1,311	1,278	1,263	1,254	1,258	1,276	1,270
Angola			Kerosene	0	0	0	0	0	0	0
Argentina			Diesel Oil	0	0	0	0	0	0	0
Australia	480	481	Fuel Oil	0	0	0	429	413	452	0
Brazil	1,481	1,481	Total Products	0	0	0	1,449	1,421	1,482	0
Canada	2,043	2,056		0	0	0	2,009	1,992	2,070	2,034
China	3,395	3,097		0	0	0	3,445	3,480	3,516	0
Colombia	532	519		0	0	0	0	0	0	0
Egypt (Arab Rep.)	702	682		0	0	0	0	0	0	0
India	689	694		0	0	0	0	0	0	0
Indonesia	1,110	1,106		0	0	0	0	0	0	0
Iran (Islamic Rep.)	3,724	3,741		0	0	0	0	0	0	0
Iraq	0	0		0	0	0	0	0	0	0
Kazakhstan	974	982		0	0	977	0	0	0	0
Kuwait	1,980	2,060		2,066	2,036	2,026	2,026	2,026	2,026	2,026
Libya	430	1,430		1,460	1,460	1,440	1,440	1,440	1,440	1,440
Malaysia	119	859		851	844	843	827	822	0	0
Mexico	3,377	3,377		3,377	3,377	3,377	3,377	3,377	3,377	3,377
Nigeria	2,039	2,039		2,039	2,039	2,039	2,039	2,039	2,039	2,039
Norway	3,039	3,039		3,039	3,039	3,039	3,039	3,039	3,039	3,039
Oman	0	0		0	0	0	0	0	0	0
Qatar	0	0		0	0	0	0	0	0	0
Russian Federation	8,045	8,333		8,038	8,121	7,987	7,774	8,695	9,365	9,491
Saudi Arabia	0	0		0	0	0	0	0	0	0
Syria (Arab Rep.)	2,124	2,198		2,283	2,305	2,184	2,133	2,266	2,385	2,392
United Arab Emirates	1,969	2,028		2,006	1,876	2,007	1,927	1,767	1,878	1,825
United Kingdom	5,188	5,188		5,188	5,188	5,188	5,188	5,188	5,188	5,188
United States of America	2,188	2,188		2,188	2,188	2,188	2,188	2,188	2,188	2,188
Venezuela	2,188	2,188		2,188	2,188	2,188	2,188	2,188	2,188	2,188
Yemen	3,894	3,894		3,894	3,894	3,894	3,894	3,894	3,894	3,894
Total Top 30 Production	60,013	57,962		57,383	57,213	51,484	54,849	55,843	49,930	35,894

Data available:

- Production
- Stocks
- Consumption

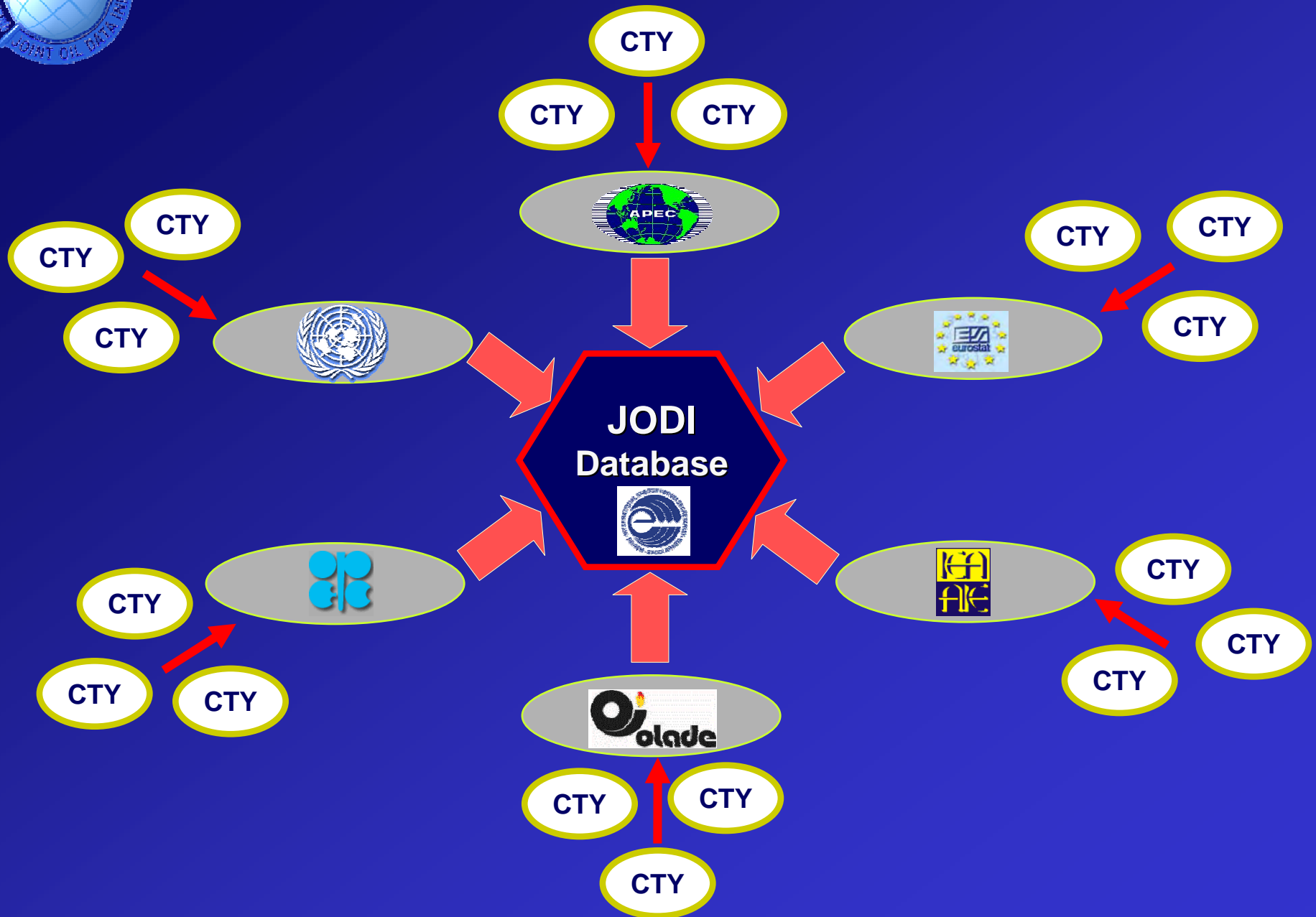
40-month time-series with monthly update from Internet

All 93 Participating Countries (with an option to select Top 30)

Some key features of the JODI World Database



Six Organisations plus the IEFS as Co-ordinator



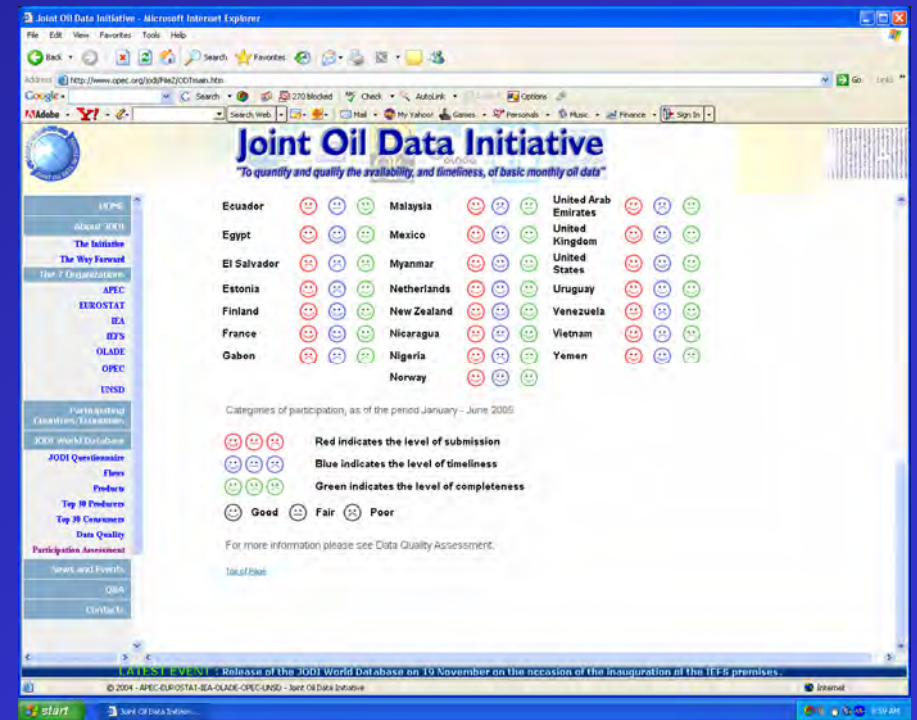
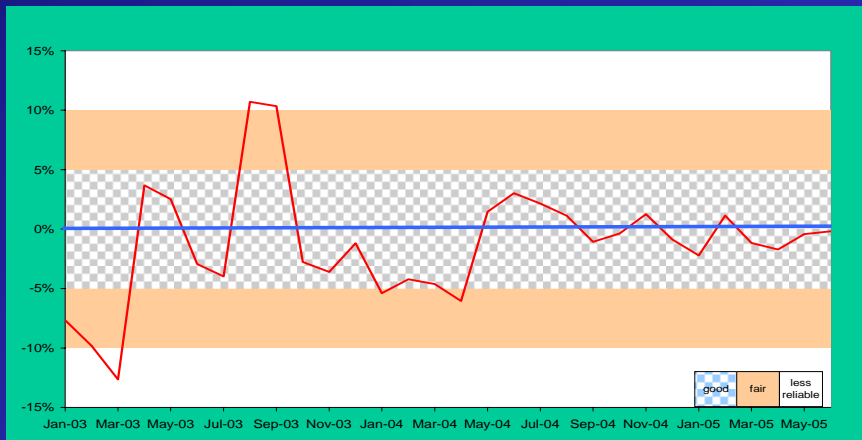


In order to open the database live on internet, there was a need to evaluate data quality by an independent consultant

 A Review Committee was then established

The evaluated data quality aspects include

- **Submission, timeliness and completeness**
- **Comparability**





King Abdullah of Saudi Arabia launching the JODI World Database



King Abdullah launches the database of world oil producers and consumers in Riyadh on Saturday. Riyadh Governor Prince Salman and Oil Minister Ali Al-Naimi, left, are also seen. (SPA)



A View of the Live Database

Beyond 20/20 WDS - Table View - Microsoft Internet Explorer

Address: http://iefs-cmnn/WDS/TableViewer/tableView.aspx

English

Reports Joint Oil Data Initiative Global data Help

Actions

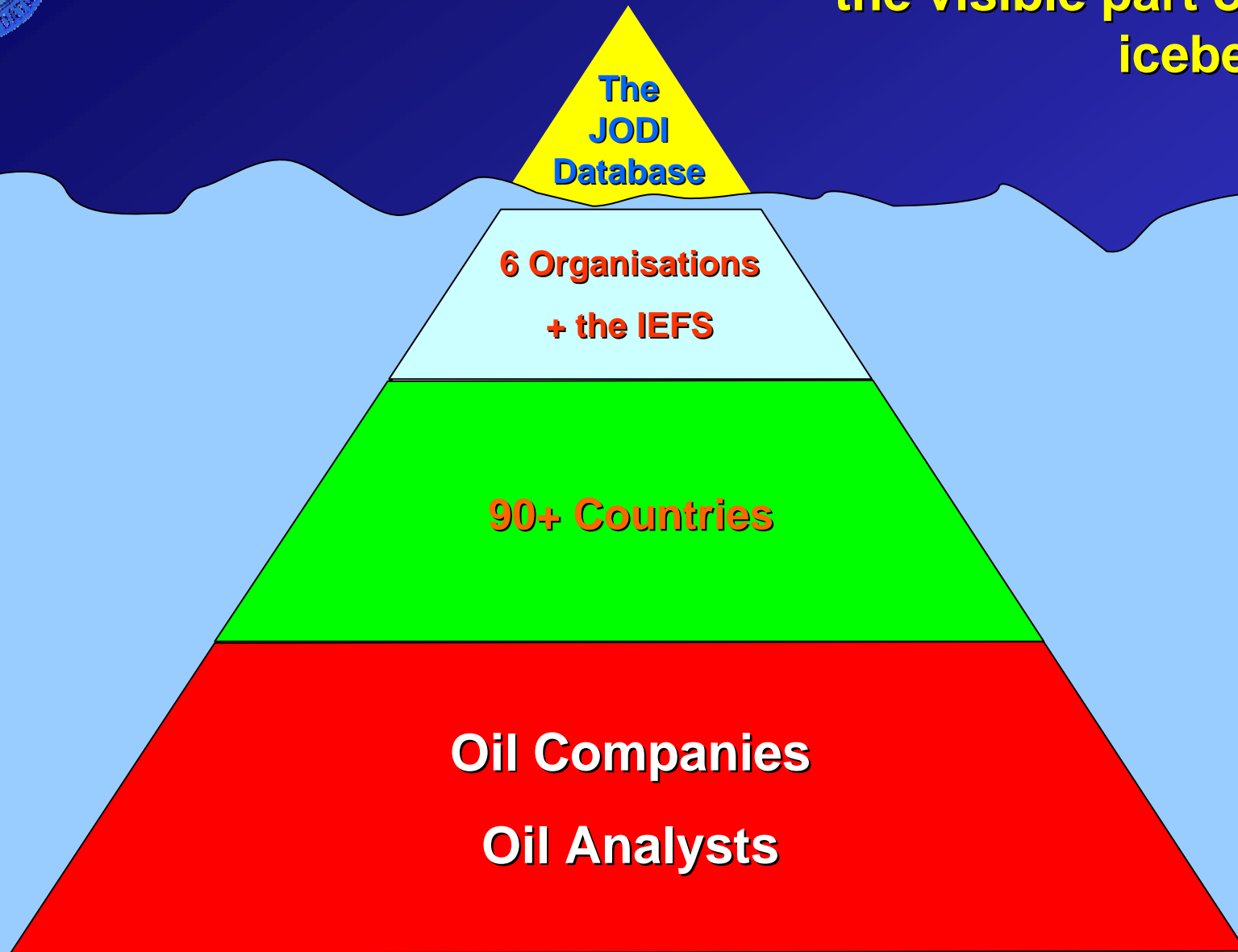
OTHER:	Unit - Thousand Barrels (kbbbl)					Product - Total Products					Balance - Demand				
TIME	Jul2004	Aug2004	Sep2004	Oct2004	Nov2004	Dec2004	Jan2005	Feb2005	Mar2005	Apr2005	May2005	Jun2005	Jul2005	Aug2005	
Country	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	
Hong Kong	9,978	9,737	9,818	8,795	10,067	10,087	10,810	8,426	8,513	8,279	9,435	8,322	8,320	8,917	
China															
Hungary	3,902	4,018	4,047	4,388	4,316	4,482	3,750	3,518	4,105	4,120	4,526	4,279	4,627	4,120	
Iceland	645	1,118	533	510	630	105	653	34							
India	71,116	61,773	67,294	70,736	68,626	78,457	71,314	67,09							
Indonesia	38,037	36,270	0	37,603	36,810	0	37,820								
Iran (Islamic Rep.)	33,294	37,262	35,340	35,340	35,700	37,603	38,068	36,960	43,338	35,310	36,828	0	40,424	41,819	
Iraq	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ireland	4,762	4,790	5,191	5,473	4,881	5,670	5,121	5,339	5,945	4,952	4,938	5,530	4,649	5,241	
Italy	59,715	52,889	57,379	58,602	54,046	58,187	52,416	51,878	56,586	52,613	51,936	52,205	55,036	51,041	
Jamaica	1,188	1,123	995	1,170	1,204	124	1,145	1,145	0	0	0	0	0	0	
Japan	160,497	166,360	151,021	161,008	158,607	187,922	183,288	177,169	189,948	157,929	144,998	154,802	157,841	158,375	
Kazakhstan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Korea	61,557	65,631	64,743	69,214	68,713	78,6								65,600	
Kuwait	10,230	11,067	8,640	8,928	7,410	8,0								12,183	
Latvia	704	837	829	1,048	1,044	1,3								1,212	
Libya	5,983	6,293	5,550	6,634	6,660	6,386	7,533	6,356	7,285	7,080	7,006	6,780	0	0	
Lithuania	1,775	1,947	1,939	1,837	1,697	1,861	1,533	1,548	1,736	1,689	1,775	1,767	1,814	1,986	

Monthly update, M-1 data

Color code indicating data comparability (blue, yellow, white)



**The Database is only
the visible part of the
iceberg...**



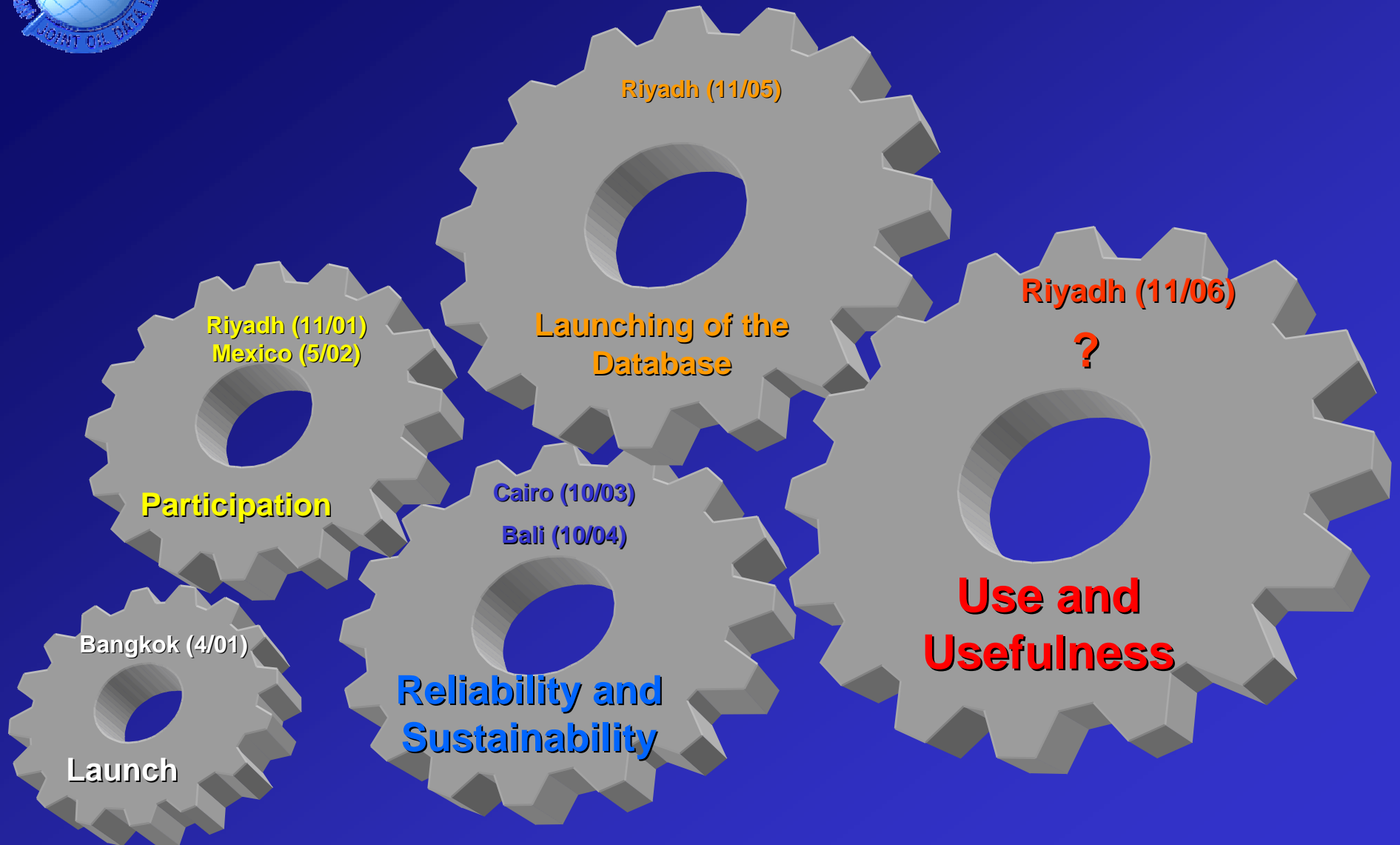


The Indirect Impacts of JODI

- Raising the profile of oil (and energy) statistics at the highest level (8th, 9th and 10th IEF Forum, etc.)
- Improving the quality, timeliness and coverage of oil (and energy) statistics world wide
- Strengthening the links between organisations, countries and companies
- Creating a momentum to strengthen cooperation and work on harmonisation (InterEnerStat, the Oslo City Group, etc.)



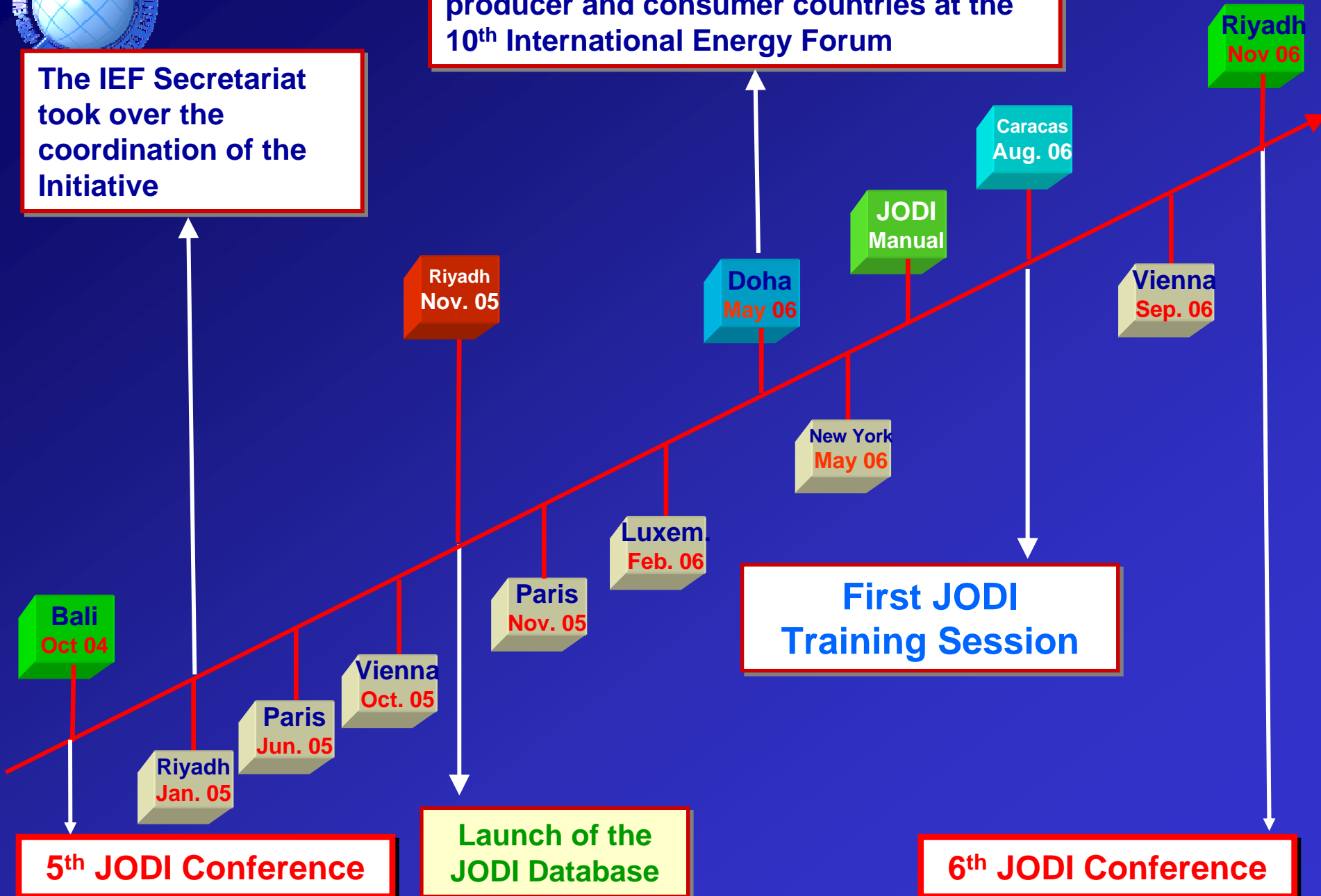
The Mechanics of JODI





The IEF Secretariat took over the coordination of the Initiative

Strong political support of Ministers from producer and consumer countries at the 10th International Energy Forum



5th JODI Conference

Launch of the JODI Database

6th JODI Conference

First JODI Training Session

JODI Manual

Caracas Aug. 06

Riyadh Nov 06

Vienna Sep. 06

Doha May 06

New York May 06

Luxem. Feb. 06

Paris Nov. 05

Vienna Oct. 05

Paris Jun. 05

Riyadh Jan. 05

Bali Oct 04

Riyadh Nov. 05



The Joint Oil Data Initiative Are We Closer to Transparency?



Yes, but...

*Transparency can only be achieved
if all parties involved in the
oil market fully participate*



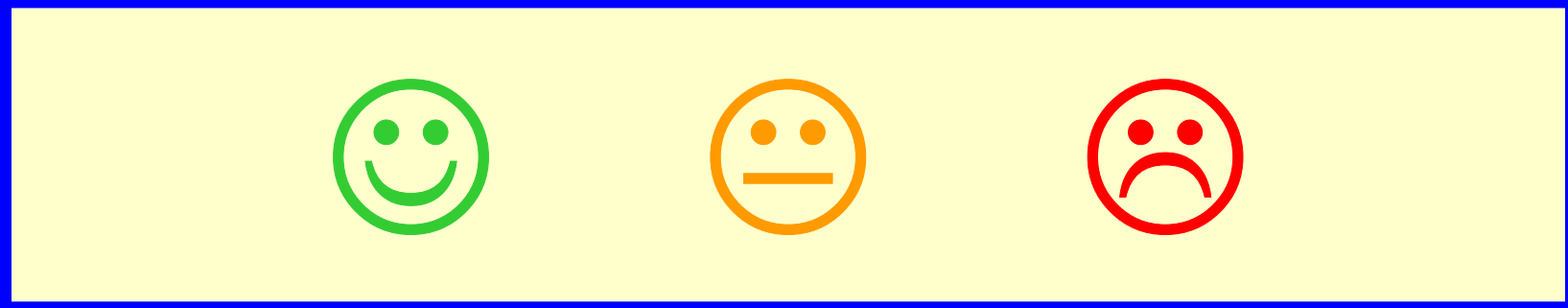
9th International Energy Forum
Amsterdam, May 22-24, 2004





Participation in JODI

Algeria	☹️	😐	😊	Germany	☹️	😐	😊	Norway	☹️	😐	😊
Angola	n/a	n/a	n/a	Greece	☹️	😐	😊	Oman	☹️	😐	😊
Argentina	☹️	😐	😊	Grenada	☹️	😐	😊	Panama	☹️	😐	😊



Canada	☹️	😐	😊	Iran	☹️	😐	😊	Saudi Arabia	☹️	😐	😊
Chile	☹️	😐	😊	Ireland	☹️	😐	😊	Singapore	☹️	😐	😊
China	☹️	😐	😊	Italy	☹️	😐	😊	Slovak Republic	☹️	😐	😊
Chinese Taipei	☹️	😐	😊	Jamaica	☹️	😐	😊	Slovenia	☹️	😐	😊
Colombia	☹️	😐	😊	Japan	☹️	😐	😊	South Africa	☹️	😐	😊
Cuba	☹️	😐	😊	Kazakhstan	☹️	😐	😊	Spain	☹️	😐	😊

Amsterdam **57 %** **15 %** **28 %**

Cyprus	☹️	😐	😊	Latvia	☹️	😐	😊	Switzerland	☹️	😐	😊
Czech Republic	☹️	😐	😊	Libya	☹️	😐	😊	Syria	n/a	n/a	n/a
				Lithuania	☹️	😐	😊	Thailand	☹️	😐	😊

Doha **52 %** **15 %** **33 %**

Egypt	☹️	😐	😊	Mexico	☹️	😐	😊	United Kingdom	☹️	😐	😊
El Salvador	☹️	😐	😊	Myanmar	☹️	😐	😊	United States	☹️	😐	😊
Estonia	☹️	😐	😊	Netherlands	☹️	😐	😊	Uruguay	☹️	😐	😊
Finland	☹️	😐	😊	New Zealand	☹️	😐	😊	Venezuela	☹️	😐	😊
France	☹️	😐	😊	Nicaragua	☹️	😐	😊	Vietnam	☹️	😐	😊
Gabon	n/a	n/a	n/a	Nigeria	☹️	😐	😊	Yemen	☹️	😐	😊

Categories of participation, as of July-December 2005.
Azerbaijan started its participation after July 2005, and therefore is not graded.



Despite the launch of the database, problems still remain in the data

- Some countries do not send data regularly
- Some countries do not report some flows, e.g. demand or stocks (close/level)
- Some countries do not meet the aimed submission for 1-month old data
- Data submitted by some countries are not always reliable (definition?, other?)



What is on the Agenda for end 2006? (1)

- Improving timeliness, coverage and reliability
 - ➔ A call on countries to further improve their submissions (6th JODI Conference)
- Disseminating the JODI Manual
 - ➔ Internet – Paper copy
 - ➔ Gather comments for improvement
- Organising a second regional training
- Improving the speed for accessing the database



What is on the Agenda for end 2006? (2)

- Organising the 6th JODI Conference (4th Quarter 2006)
 - One Year Later (19-20 November 2006)
 - Organiser: IEF Secretariat, Riyadh
 - Objectives:
 - ❑ To get a better understanding of how the database is perceived by users or potential users
 - ❑ To identify actions to further improve data quality
 - ❑ To get guidance for further developing and extending the Initiative
- Refreshing the whole web site



And then, what's next?

- Expanding the JODI Questionnaire
 - ➔ Horizontally: more products (NGLs, ...)
 - ➔ Vertically: more flows (stocks, trade,...)
- Duplicating the approach to gas?
- Using a similar approach to reserves?



Lessons from the Initiative

- **JODI is a concrete outcome of what the producer-consumer dialogue can accomplish.**
- **Launch of the JODI Database is a starting point towards full data transparency.**
- **The database does not only belong to the organisations, it is up to all – countries, oil companies and analysts – to participate and to improve the information.**



Political support is essential

Promoting the work essential

Ministers were invited to substantiate their commitment to the Initiative by committing resources to ensure the data standards in

Joint Oil Data Initiative - Microsoft Internet Explorer

Address: <http://www.jodidata.org/Fin2/COImain.htm>

Joint Oil Data Initiative

To quantify and quality the availability, and timeliness, of basic monthly oil data

HOME
Latest
About JODI
The Initiative
The Way Forward
The 7 Organizations
APEC
EUROSTAT
IEA
IEFS
OLAF
OPEC
UNSD
Participating Countries/Economies
JODI Questionnaire
JODI World Database
Flows
Products
Top 30 Producers
Top 30 Consumers
Data Quality
Participation Assessment
News and Events
Q&A
Contacts

If the JODI World Database is the visible part of the Joint Oil Data Initiative, JODI is much more than collecting and releasing monthly oil statistics. JODI has played an important role in raising political awareness of the difficulties encountered in improving data reliability and timeliness. Networks have been established and statistical systems have been improved in many countries. Attitudes towards confidentiality and reliability have evolved. Contacts between oil companies, countries and organisations have multiplied. JODI has also strengthened producer-consumer dialogue by demonstrating that dialogue is not only a concept, but can lead to concrete actions.

The release of the JODI World database was not the primary goal of the initiative; however, since transparency is central to the initiative, the seven international organizations behind JODI - APEC, Eurostat, IEA, IEFS, OLAF, OPEC and UNSD - have agreed to open the JODI World Database on the occasion of the inauguration of the IEFS premises on 19 November 2005. This decision was taken with the full knowledge that users might be disappointed, as not all the data for all the flows, products and countries are always available, or of good quality.

The opening of the database is not the final goal of the initiative either. The database should improve continuously and several actions will soon be launched to further strengthen reporting expertise in countries and raise the political awareness.

However, transparency can only be achieved if all parties (organizations, countries, oil companies and analysts) involved in the oil market fully participate.

JODI World Database

- Seven **products** : Crude Oil, LPG, Gasoline, Kerosene, Diesel Oil, Fuel Oil and Total Oil.
- Four **flows** : Production, Demand, Closing Stock Levels and Changes.
- Data are available in three different **units** : barrels, tons and litres
- For 92 participating **countries**
- Monthly data from January 2002 to one month old.

LATEST EVENT - Release of the JODI World Database on 19 November on the occasion of the inauguration of the IEFS premises.



No. 6, December, 2005

JOINT OIL DATA INITIATIVE

Newsletter

Well done! November 2005 will be remembered as an important milestone in the young history of the JODI: the release to the public of the JODI World Database. This achievement could not have been realized without the strong commitment demonstrated by all the parties involved in the Initiative (participating countries, organizations, industry) since 2001.

On this occasion, the JODI team also upgraded the JODI website in order to increase its readability and re-launched it under a new name: www.jodidata.org. Please, remember to add this to your "favorites".

This is just one step towards more transparency and the seven organizations are already looking forward to further improve the quality of the JODI data. A lot remains to be done and efforts from all the participants in this initiative must be sustained.

In this issue:	
- Launch of the JODI World Database	1
- The JODI database in brief	2
- Comments on JODI	2
- What's next?	3

Launch of the JODI World Database

On November 19th, in conjunction with the inauguration of the IEFS premises in Riyadh, the Custodian of the Two Holy Mosques, King Abdullah Bin Abdulaziz Al-Saud officially launched the JODI World Database.

Ministers of 17 producing and consuming countries, representatives of 6 international organizations and 9 major oil companies attended the ceremony.

The opening of the JODI World Database to the public is not the final goal of this initiative. Making the data available is only the first step towards more transparency. Indeed when the Joint Oil Data Initiative was first launched in 2001, the primary goal was not to build a database, but to raise the awareness of all oil market players of the need for more transparency in oil market data.

The decision of the launch was taken with the full knowledge that the database is still work in progress. The IEF Secretariat, together with the six other organizations running the Initiative, are fully aware of the limits and limitations of the database at this stage in its development.

sm
k

ns
ci.
lc
ne
ve
tri
in
rency



www.jodidata.org



Thank you