

7th Regional JODI Training Workshop

8-10 October 2012, Rabat, Morocco

The Joint Organisations Data Initiative

Background, Current Status and Objectives

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**Prepared by Ms. Mieke Reece
IEA**




International
Energy Agency



What is JODI?

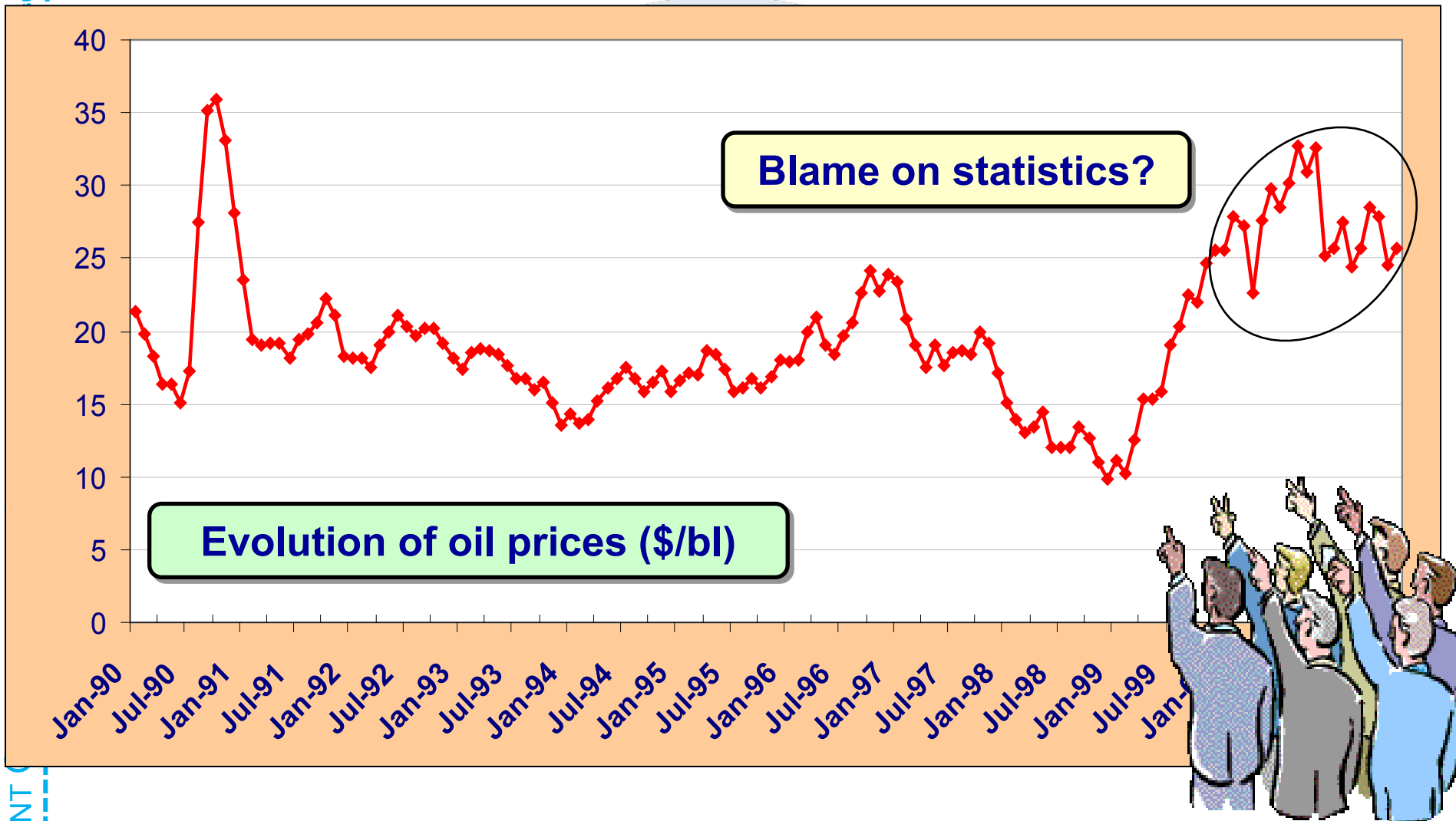
- **Stands for Joint Organisations Data Initiative**
- **A concrete outcome of the oil producer-consumer dialogue**
- **Initiative between 7 international organisations to improve oil data transparency and harmonisation**
- **Monthly oil data collection through a common oil supply questionnaire from more than 90 countries assembled in a world database.**

- 
- **Background**
 - **Current Status**
 - **Looking ahead**

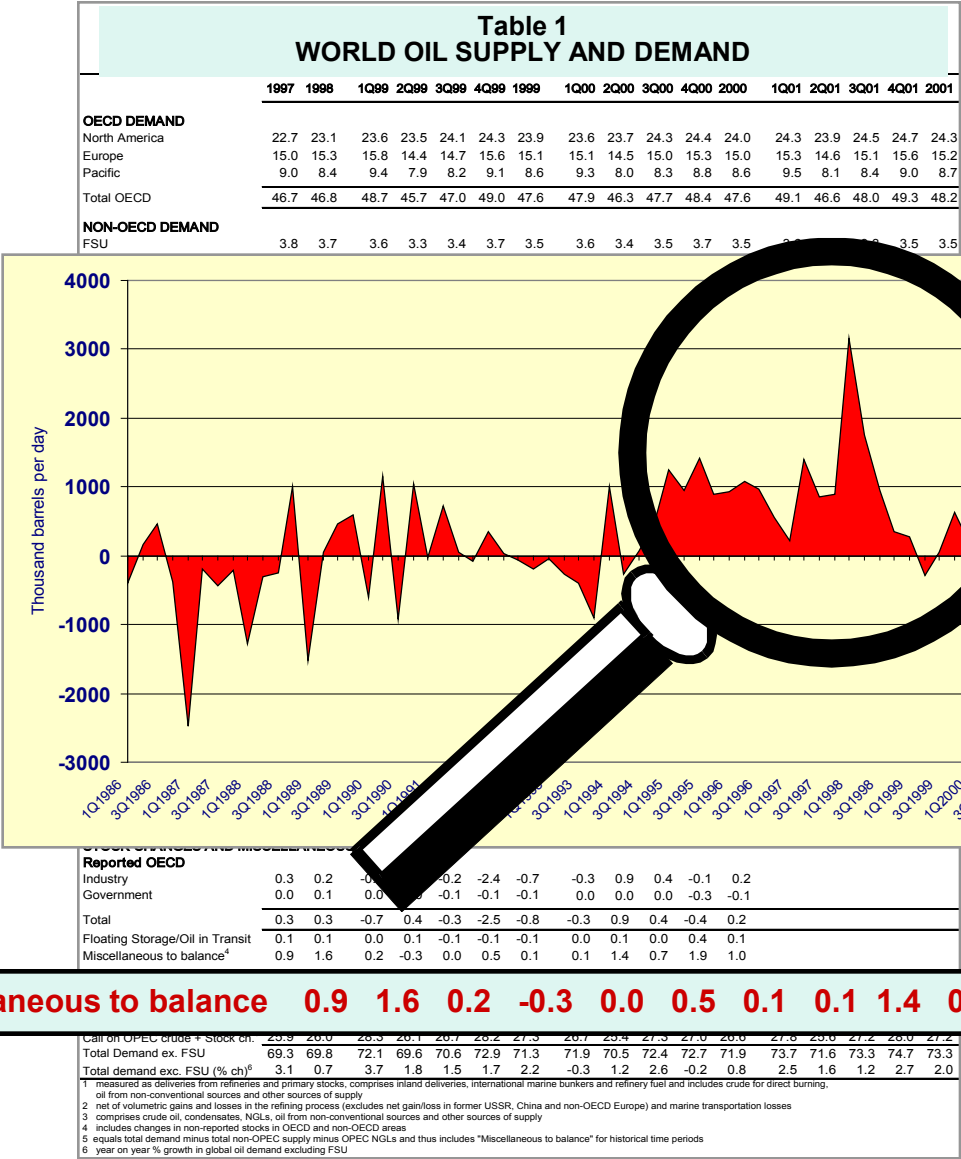
Background

- **From high price volatility to the launch of JODI**
- **Achievements**
- **JODI World Database**

Unusual volatility in Oil Prices...



Data show higher Supply than Demand



INTERNATIONAL ENERGY AGENCY/OCDE
OIL MARKET REPORT
FEBRUARY 2001

www.oilmarketreport.org

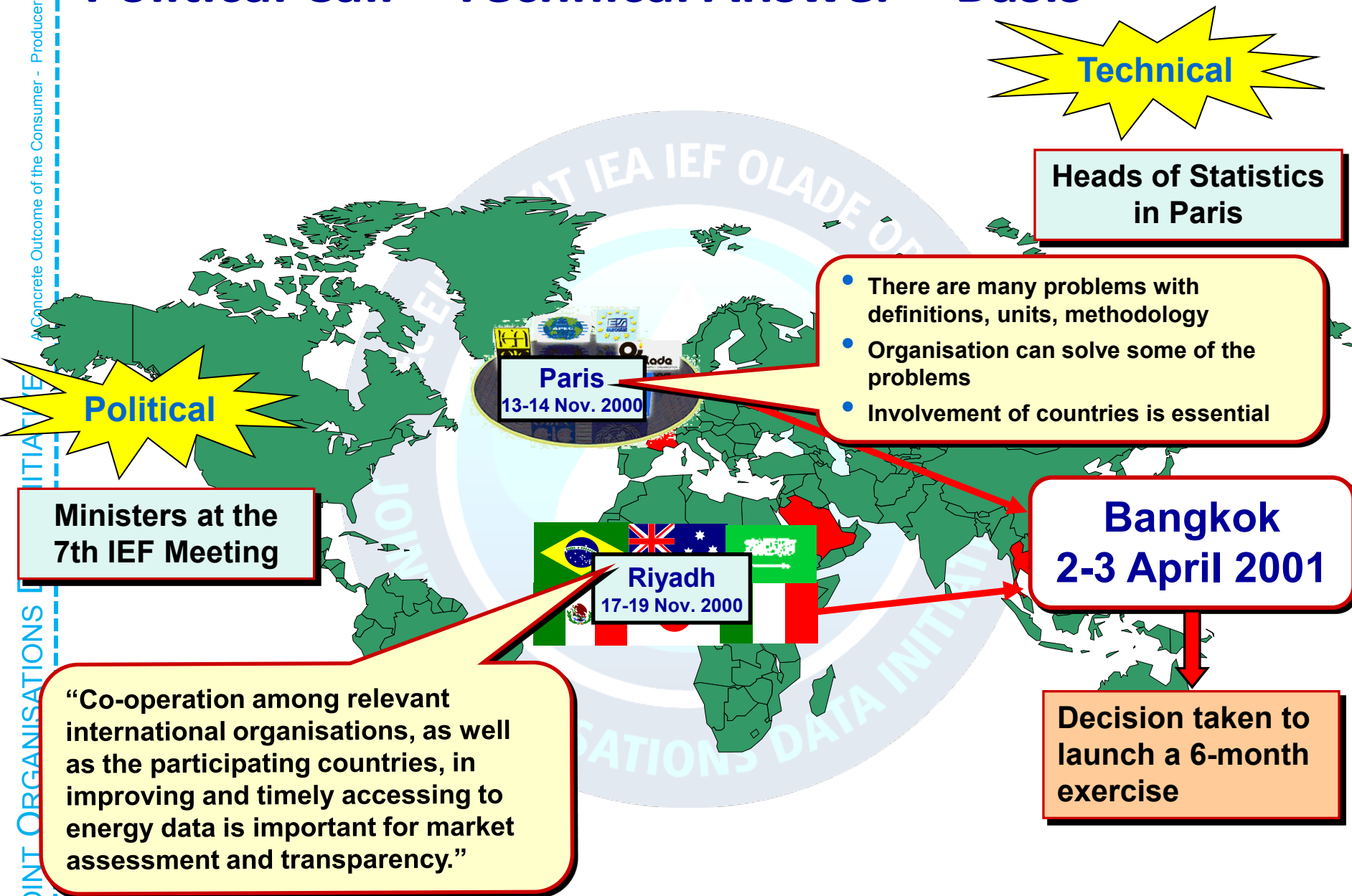
11 February 2001

HIGHLIGHTS

- World oil supply held level in January at 90.1 mb/d. Non-OPEC production rose 0.1 mb/d while OPEC made up for the fall in the rest of non-OPEC supply from lower OPEC production growth and inventory in stock build for non-OPEC demand.
- OPEC oil supply rose 0.1 mb/d in January to 1.1 mb/d after a month-long dip. Production rose from Saudi Arabia, Kuwait, UAE and Algeria. Saudi supply rose to 1.1 mb/d in January, up 0.1 mb/d from December. Saudi supply is expected to rise to 1.2 mb/d in February.
- Global oil demand growth for 2001 has been revised to 2.0 mb/d in 1.4 mb/d. Growth is rising as new discoveries continue to be added to the world oil supply. Demand is expected to rise to 74.7 mb/d in 2001, above the revised 73.3 mb/d for 2000. Demand for oil is expected to rise to 74.7 mb/d in 2001, above the revised 73.3 mb/d for 2000. Demand for oil is expected to rise to 74.7 mb/d in 2001, above the revised 73.3 mb/d for 2000.
- OPEC's share of world oil is 40.1% in January and is set to rise to 40.2% in February. OPEC's share of world oil is 40.1% in January and is set to rise to 40.2% in February. OPEC's share of world oil is 40.1% in January and is set to rise to 40.2% in February.
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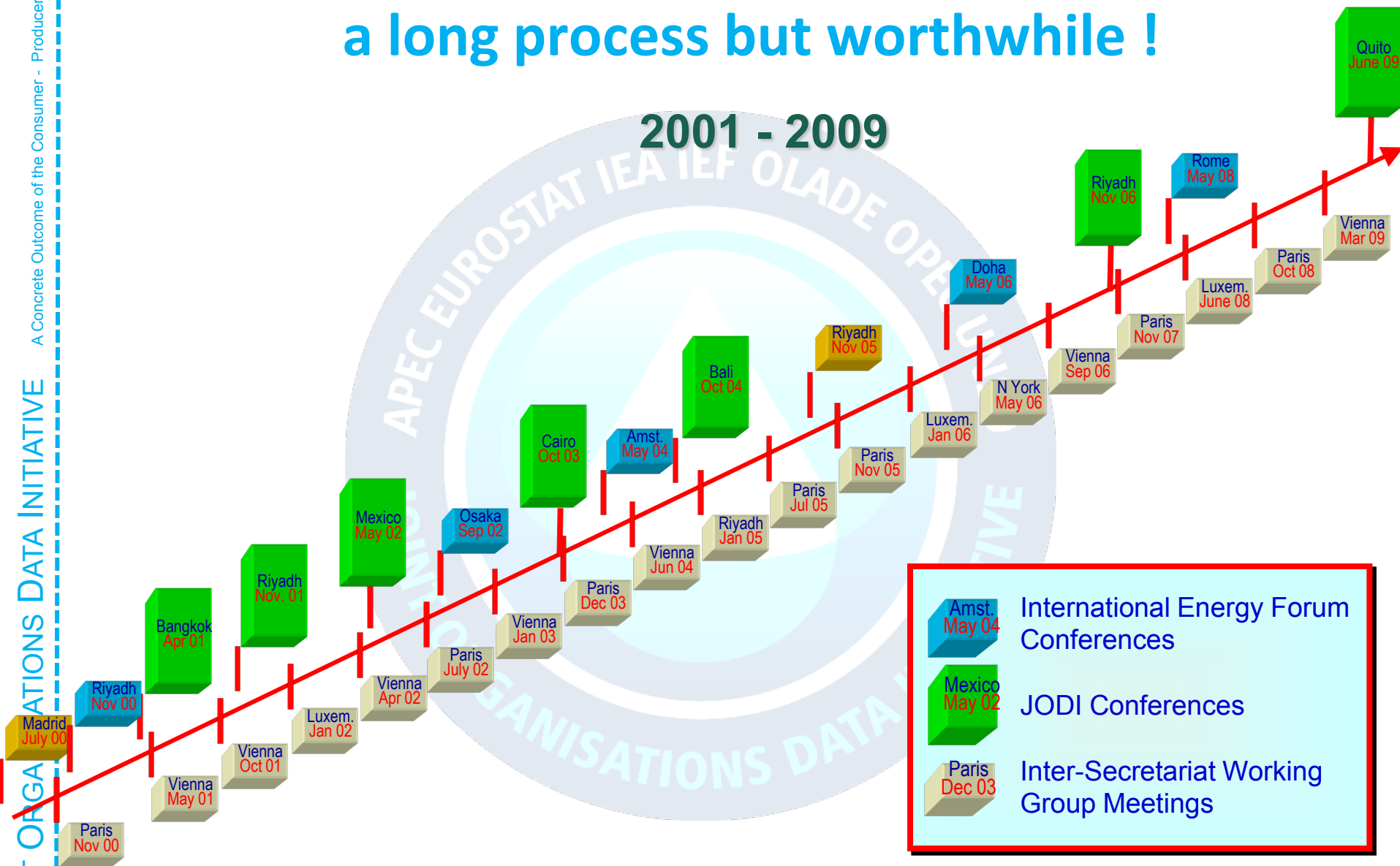
Next Issue: 11 March 2001

Political Call + Technical Answer = Basis



Working together : a long process but worthwhile !

2001 - 2009



1st Step: To Agree on a Questionnaire as Simple as Possible

JOINT APEC/EUROSTAT/OECD-IEA/ OLADE/OPEC/UN DATA EXERCISE

A Simple Format (42 data points)

Country: _____

Month: _____

Unit: _____

Crude Oil

Petroleum Products

LPG

Gasoline

Kerosene

Gas/Diesel
Oil

Fuel Oil

Total Oil

Month -1 and Month -2

Choice of units left to organisations

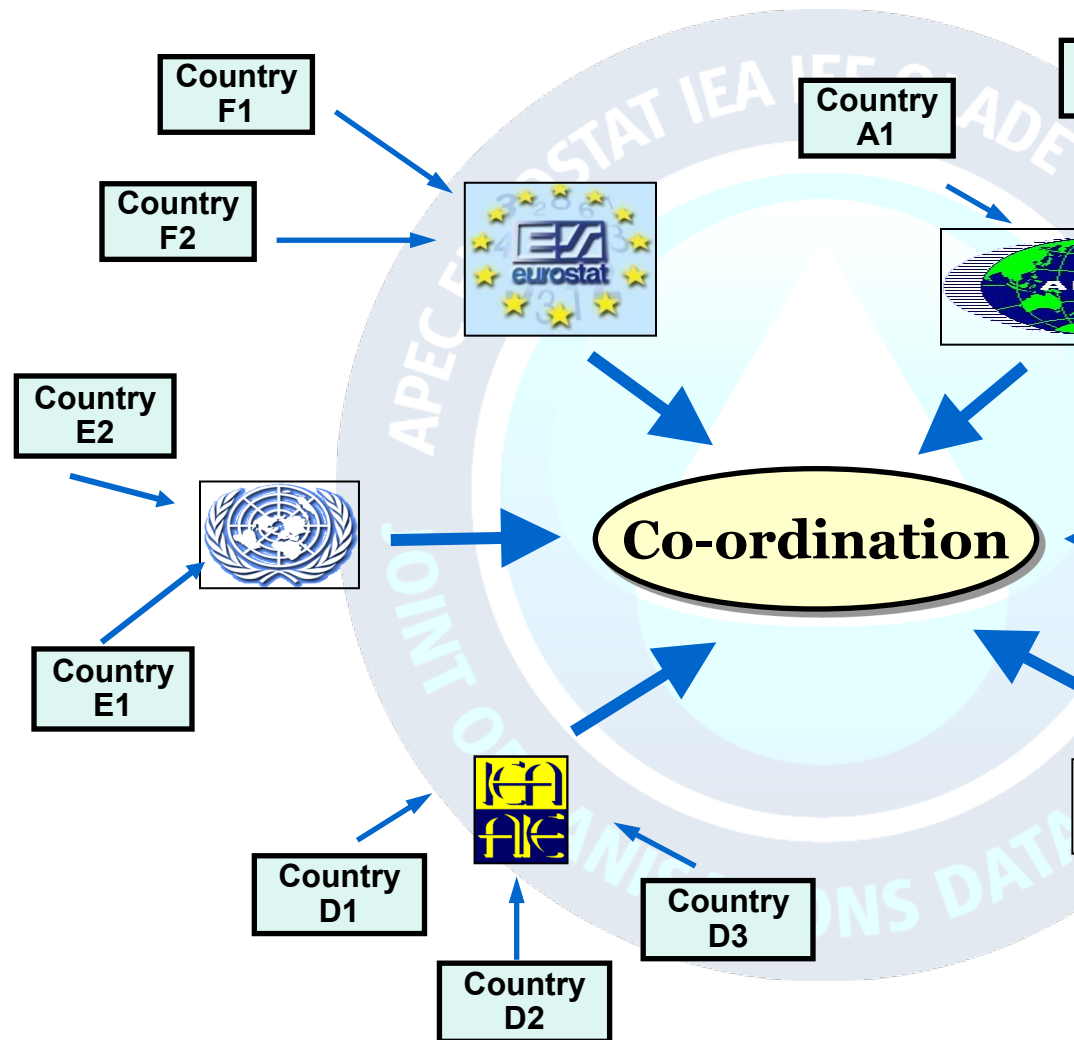
Simple Definitions

		Crude Oil	Petroleum Products						
				LPG	Gasoline	Kerosene	Gas/Diesel Oil	Fuel Oil	Total Oil
P			Crude Oil Output						
Imports			Imports						
Exports			Exports						
Stocks	Closing		Stocks	Closing Change					
	Change								
Refinery Intake			Demand						

Month -1 and Month -2

Choice of units left to organisations

2nd Step: To Launch a 6-Month Exercise with Joint and Agreed Objectives



Objectives

- How many countries would be able to **complete** the table
- How many countries would be able to submit **M-1** data
- What are the main **difficulties** encountered
- What **solutions** could be proposed

Enormous Progress/ Accomplishment over the First 4 Years of the Initiative

- 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

The Netherlands

Changes to the Reporting Mechanism in the Netherlands

Progress in
monthly
reporting

- Changes in the Law on Statistics; i.e. quicker response of submissions.
- Workshop session with industry to improve involvement (“win-win”):
Additional: Extra JODI-questionnaire.
- Changes in the CBS-questionnaire itself.
- Change towards complete Electronic handling by the companies and CBS.

Fewer Confidentiality Issues

China

**Progress in
monthly
reporting**

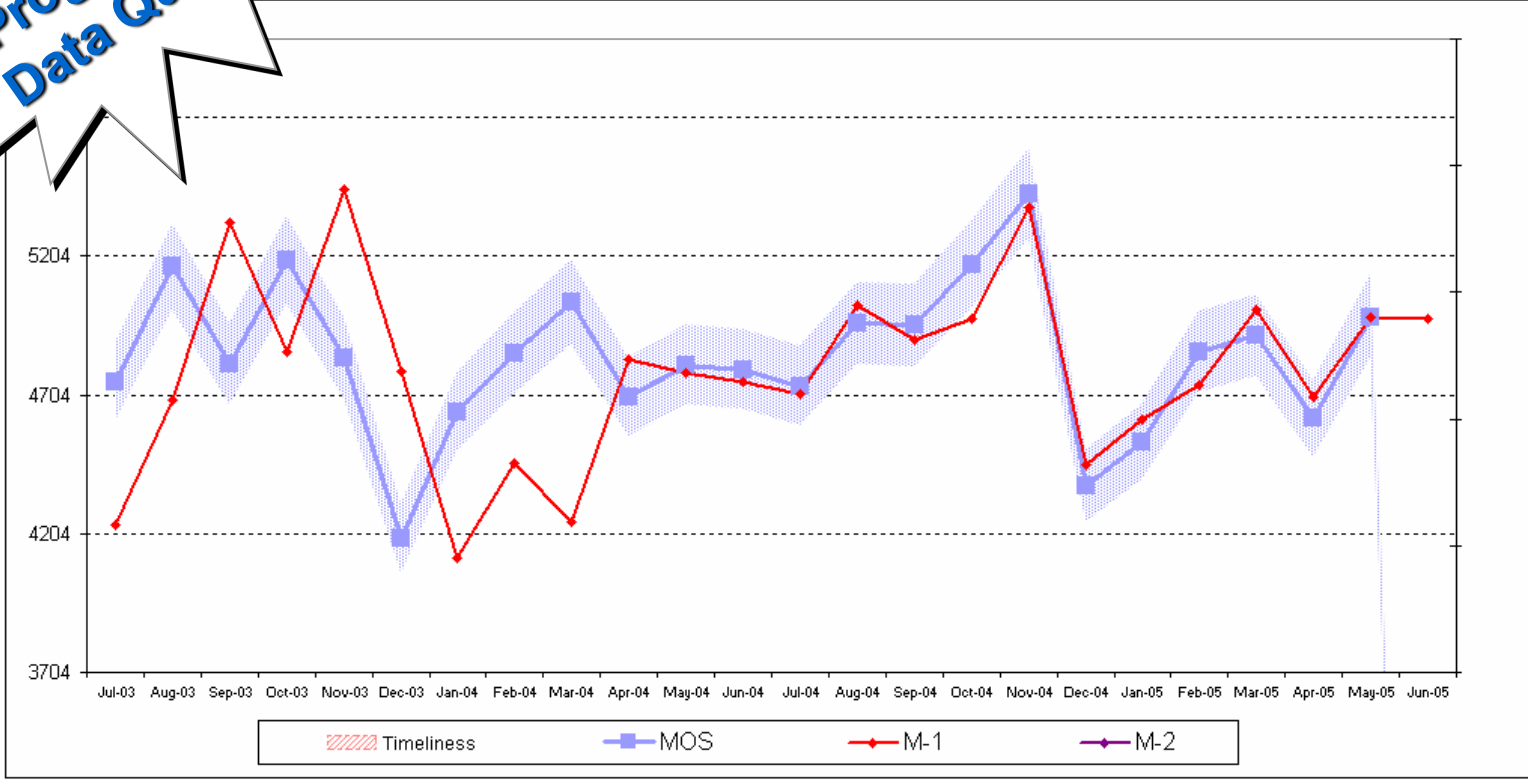
5. Stock

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

Progress in
Data Quality

Country 1



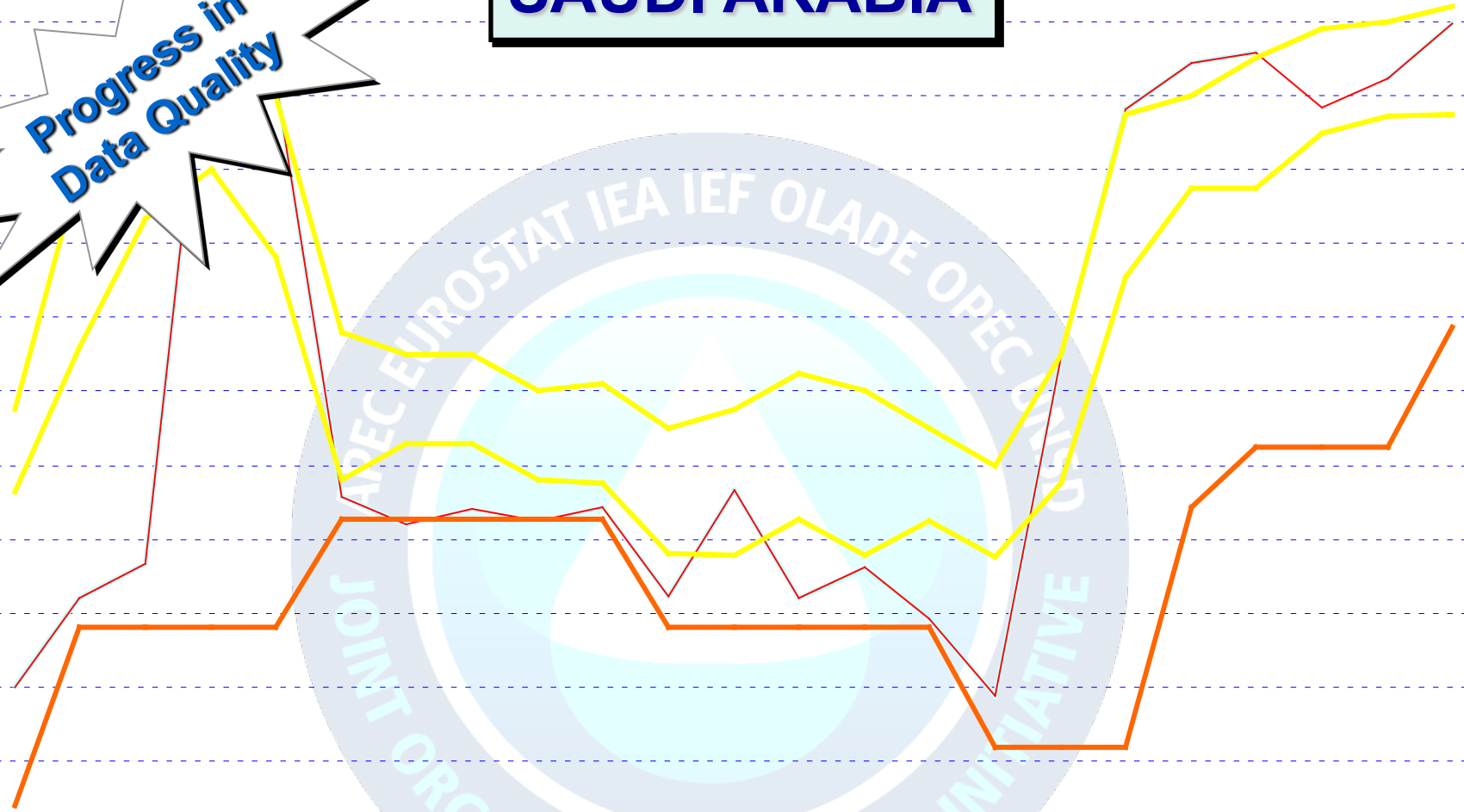
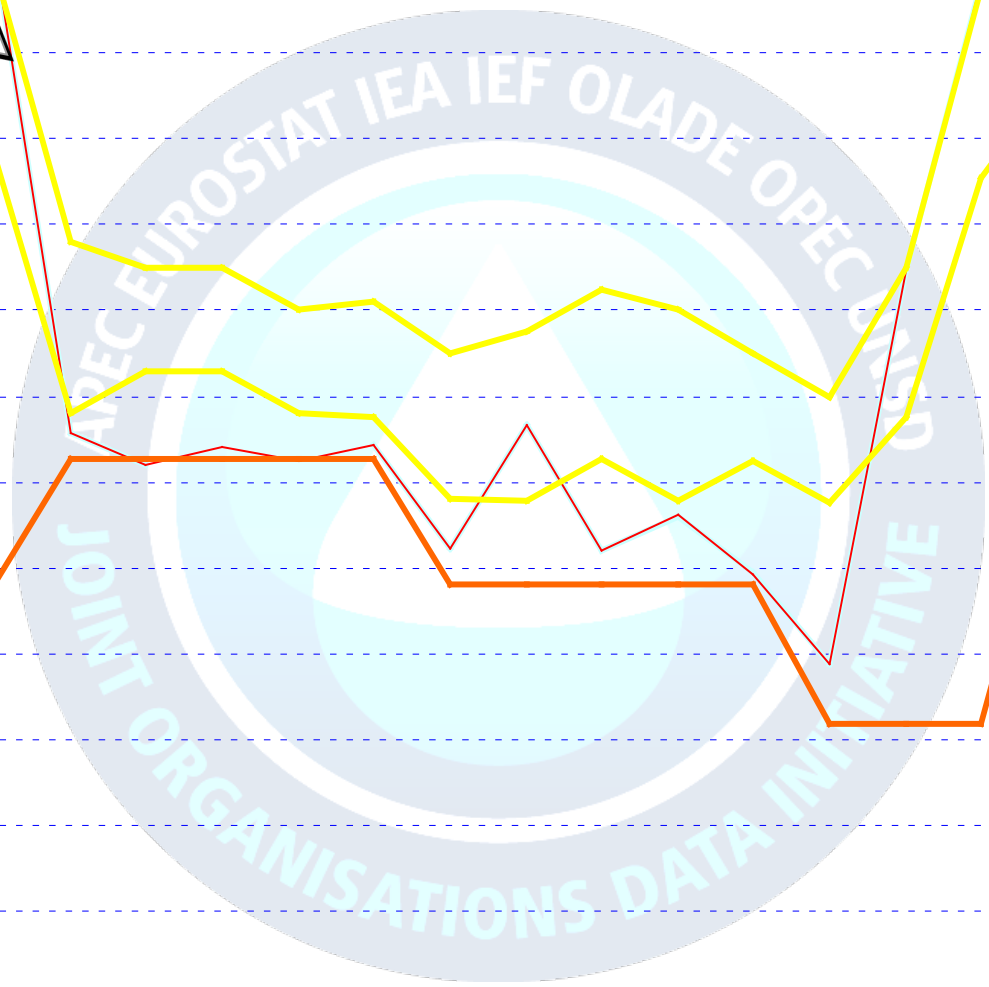
MOS Range
3.0 %

Product
Crude Oil

Flow
Closing Stocks (Natter)

☒ MOS ☒ M-1 ☐ M-2 ☐ Timeliness

SAUDI ARABIA

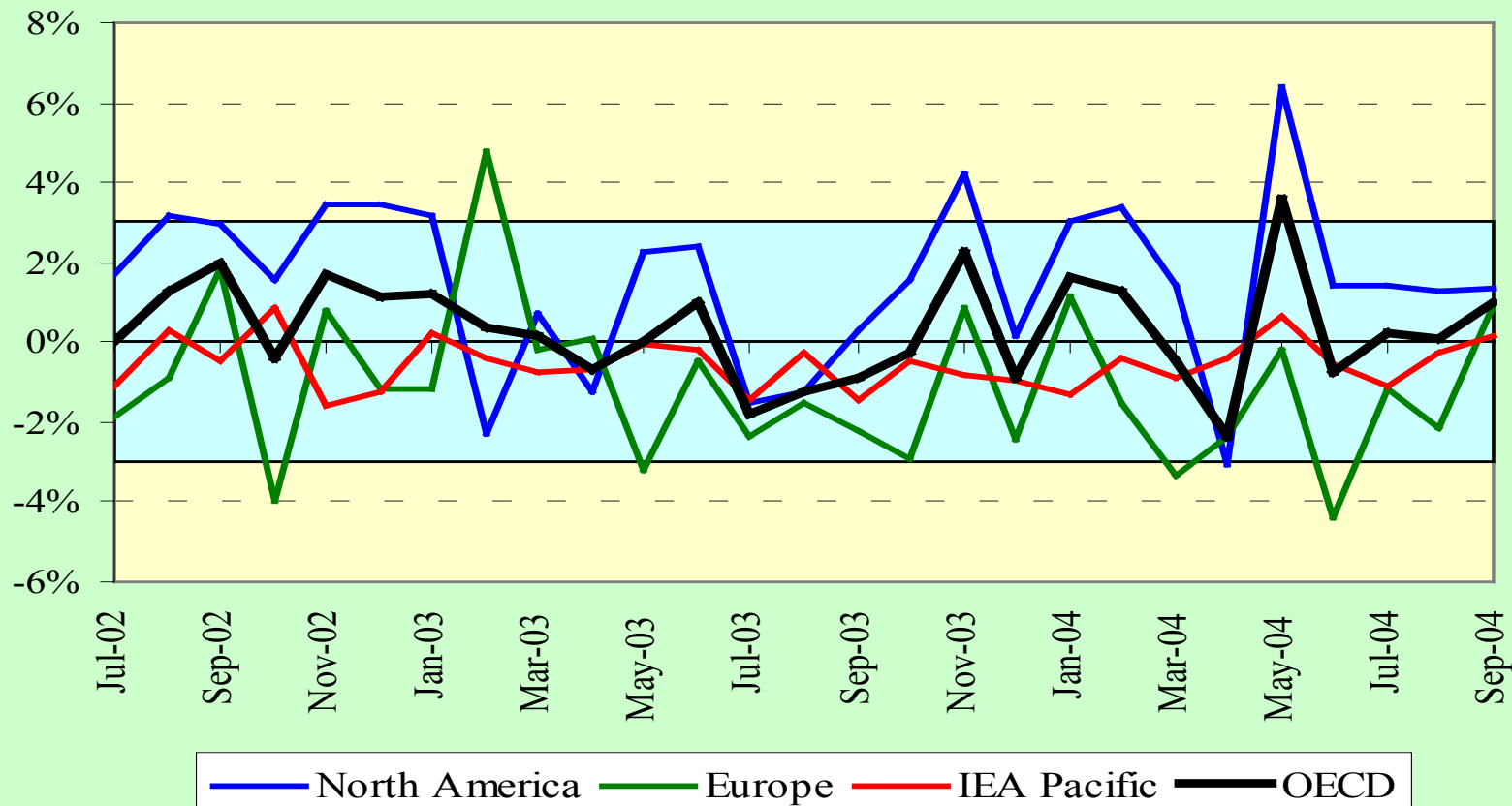


Accuracy - Regional Overview

JODI M-1 vs. MOS

**Progress in
Data Quality**

OECD - Total Product Demand *Percentage difference with MOS*

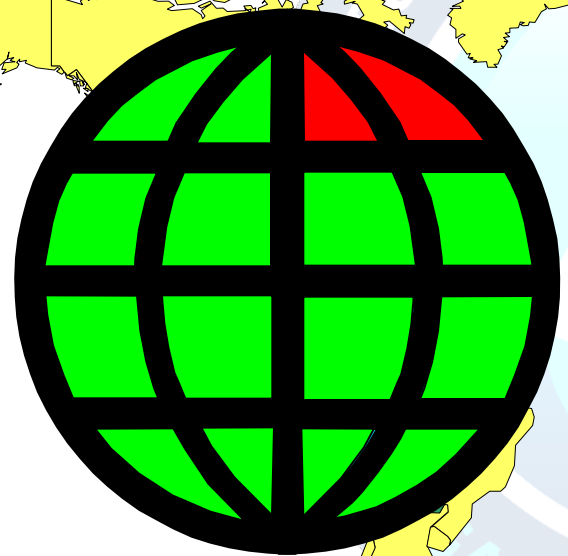


Number of Countries Participating in JODI: 93 at the 9th IEF in Amsterdam (May 2004)

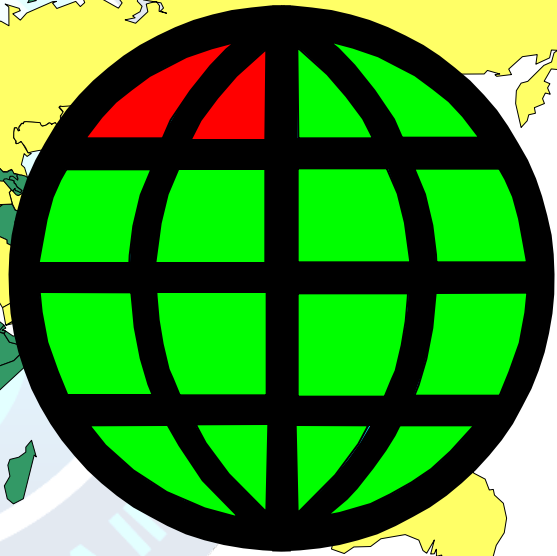
Progress in
Coverage

Global Oil Production

Global Oil Demand



94% of world total



95% of world total

Balance: Production

A database was prepared

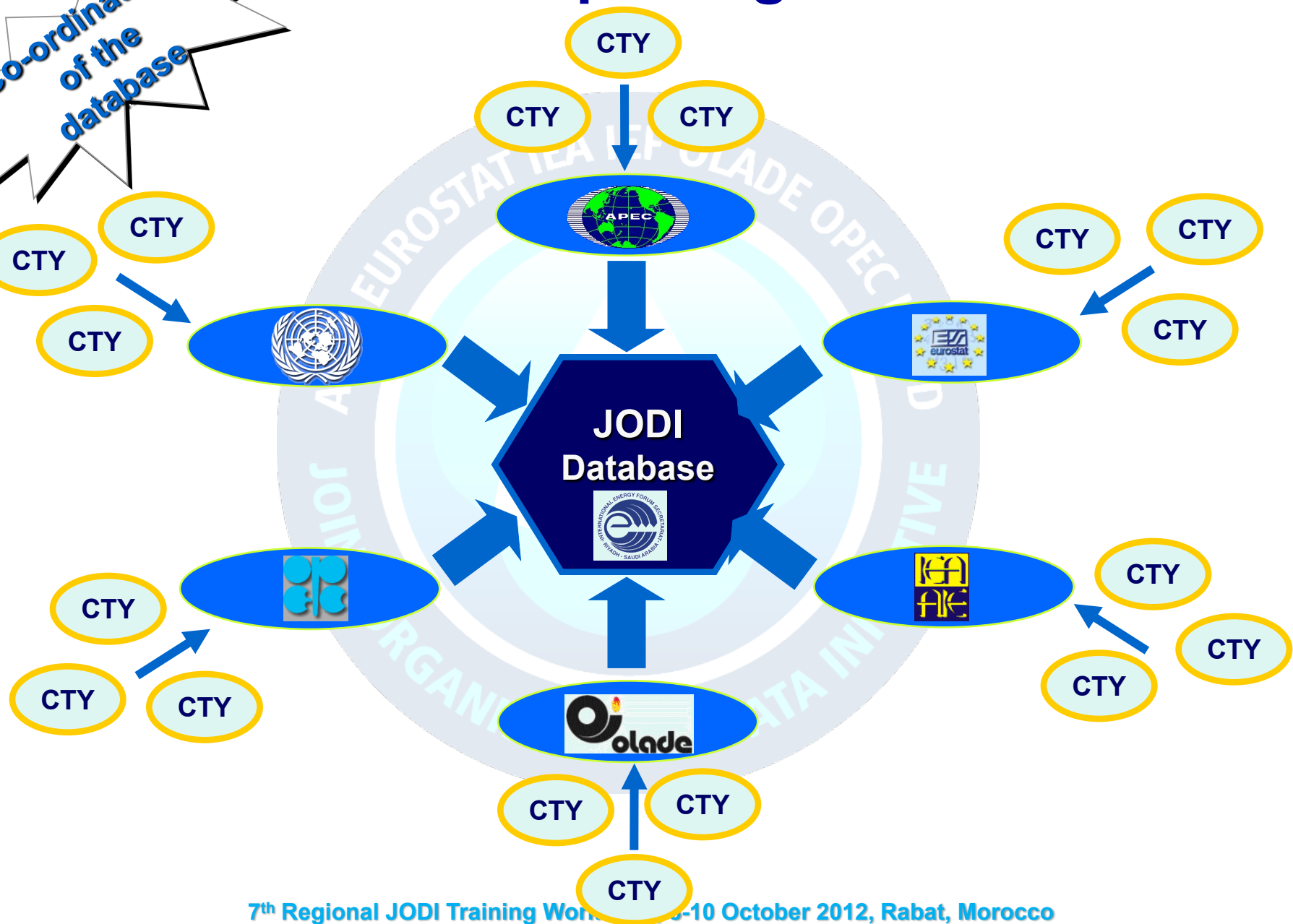
Outcomes from Conferences

- 5th JODI conference Bali 2004:
 - Assess quality of data
 - Call on the IEF secretariat to coordinate initiative
 - Open a database



Co-ordination
of the
database

The new Reporting Mechanism



A View of the Live Database

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

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

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

English

Go Links

Powered by Beyond 20/20

Reports

Joint Oil Data Initiative Global data

Help

Actions

OTHER:

Unit - Thousand Barrels (kbb)

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	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
Hungary	645	1,118	533	510	630	105	653	345	615	263	548	518	698	0
Iceland	71,116	61,773	67,294	70,736	68,626	78,457	71,314	67,096	77,376	65,649	70,127	68,086	64,537	67,088
India	38,037	36,270	0	37,603	36,810	0	37,820	0	35,650	36,360	37,696	34,290	31,093	0
Indonesia	33,294	37,262	35,340	35,340	35,700	37,603	38,068	36,96	Monthly update, M-1 data					
Iran (Islamic Rep.)	0	0	0	0	0	0	0	0						
Iraq	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
Ireland	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
Italy	1,188	1,123	995	1,170	1,204	124	1,145	1,145	0	0	0	0	0	0
Jamaica	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
Japan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kazakhstan	61,557	65,631	64,743	69,214	69,713	78,656	78,321	67,656	78,360	67,477	63,426	64,135	61,557	65,600
Korea	10,230	11,067	8,640	8,928	7,710	8,029	6,820	6,272	7,440	7,620	9,486	10,560	11,377	12,183
Kuwait	704	837	829	1,048	1,024	1,384	1,196	1,298	1,243	1,353	1,306	1,181	1,134	1,212
Latvia	5,983	6,293	5,550	6,634	6,864	6,334	0	0	0	0	0	0	0	0
Libya	1,775	1,947	1,939	1,837	1,597	1,837	0	0	0	0	0	0	0	1,986
Lithuania														

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

Done Local intranet

Outcomes from Conferences

- 6th JODI conference Riyadh 2006:
 - Continue to improve completeness, timeliness, reliability
 - Improve **usefulness** of initiative and database (closer to data providers and users)
 - Extend the JODI questionnaire, at first with a trial period

NGL and Other Non crude production have been added

Month _____ Unit : _____

	Crude Oil	NGL	Other	Total		Petroleum Products							
						LPG	Naphtha	Gasoline	Jet Kerosene	Kerosene	Gas/ Diesel Oil	Fuel Oil	Other Products
Production					Refinery Output								
From Other sources					Receipts								
Imports					Imports								
Exports					Exports								
Product Transfers/Backflows					Products Transfers								
Direct Use					Inter Products Transfers								
Stocks					Stocks								
					Change								
					Statistical Difference								
					Demand								

Addition of a few technical flows to be able to make a full oil balance

Addition of products with significant consumption in different countries (Naphtha, Jet Kerosene)

Hydrocarbons

Receipts = Primary Product Receipts + Recycled
Other Products = Refinery gas + Ethane + Petroleum

Outcomes from Conferences

- 7th JODI conference Quito 2009:
 - JODI is already useful
 - JODI is a database for grown ups
 - Open to non-OECD countries data
 - Key source for demand growth
 - JODI Users are on the driving seat
 - Extended JODI questionnaire feasible
 - Extension of the initiative to natural gas
 - Feasibility study commissioned by the IEF
 - Feasible but challenging
 - Important to build a sustainable data collection architecture

Current Status

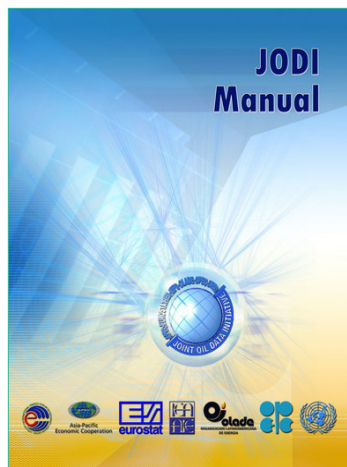
- **Training and Capacity building**
- **Remaining Challenges**
- **Communication and Promotion of JODI**
- **Extended JODI World database**

Training and capacity building

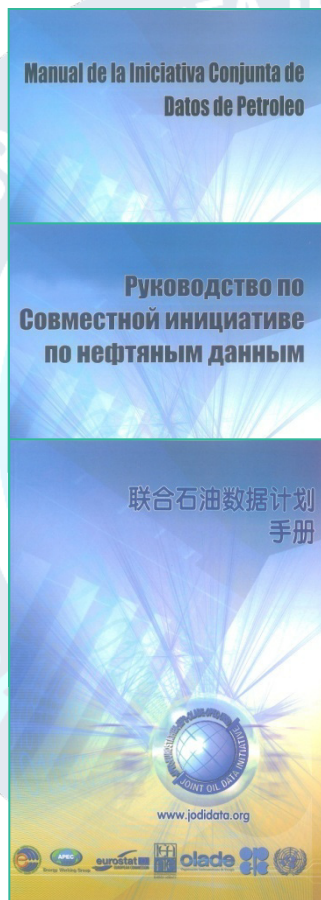
- Website
- Manual
- **Training sessions**
- Internships



Training and capacity building



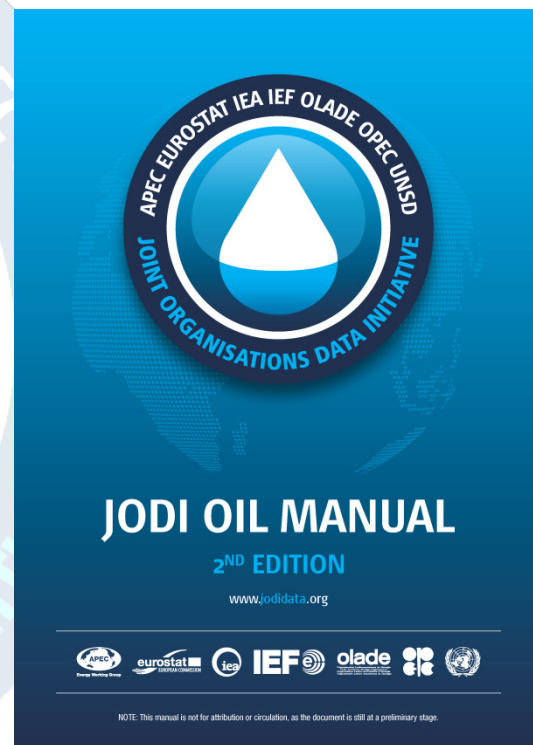
English



Spanish

Russian

Chinese

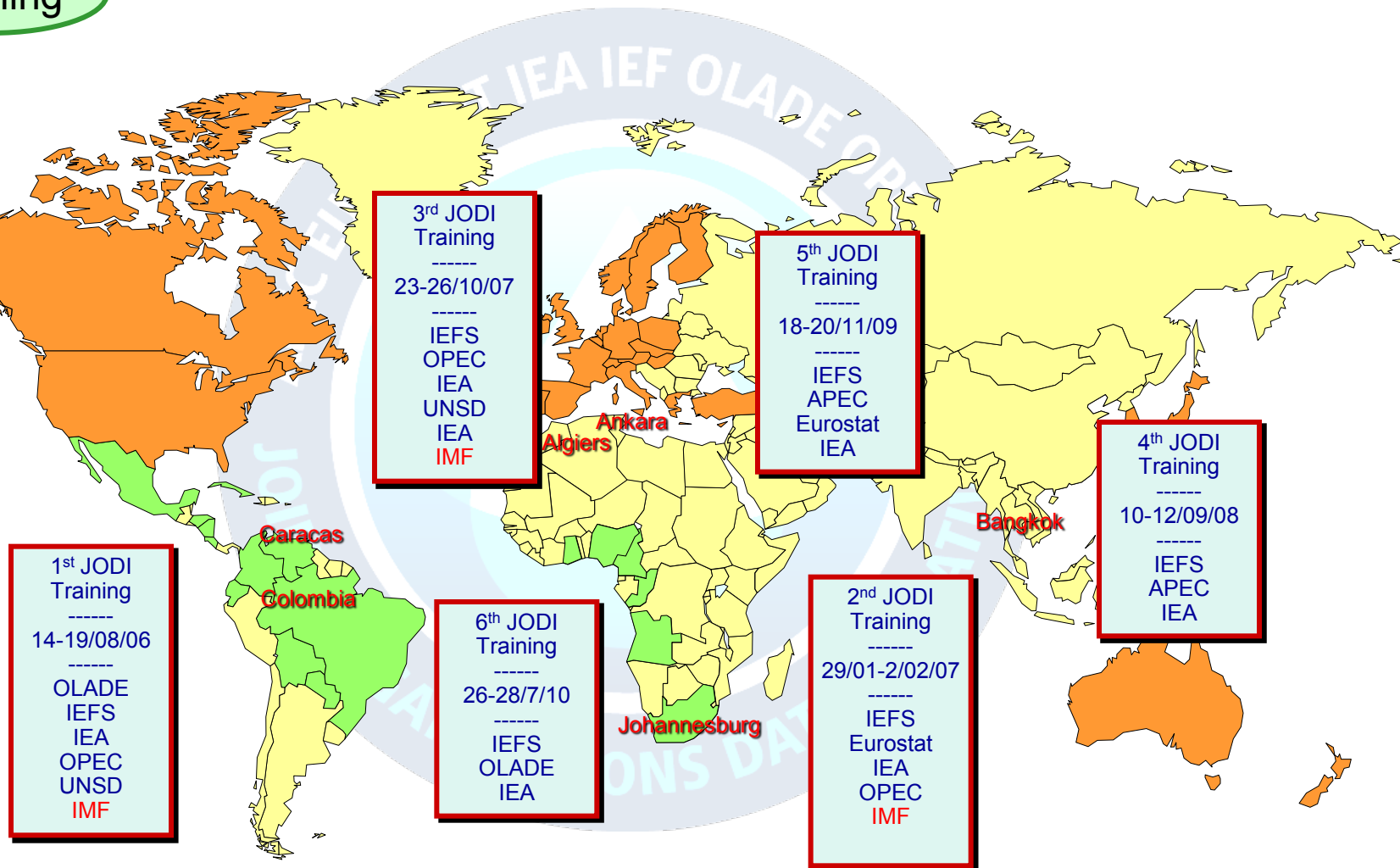


JODI Training

- To help the participating countries to report better quality data in the JODI questionnaire
- It offers participants an opportunity to get clarifications about the definitions, data quality assessment and oil data issues
- To share their experience on data validation best practices or data collection issues

Six JODI training sessions have been organised since 2006

Training



Despite many achievements, some problems still remain ...

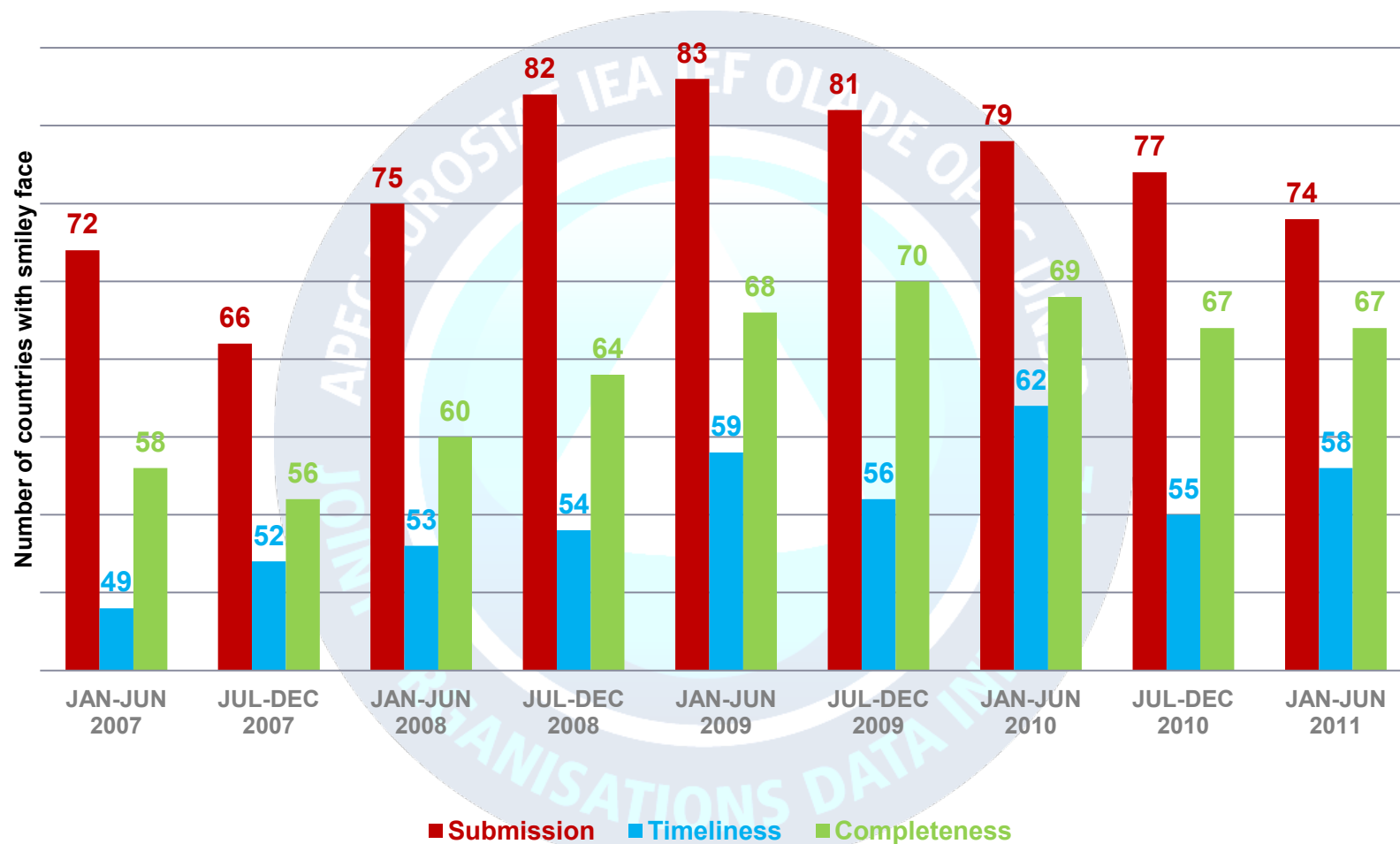
- Some countries do not send data regularly
- Some countries do not report some flows, e.g. demand or stocks (close/level)
- Some countries do not meet the aimed submission for 1-month old data
- Data submitted by some countries are not always reliable (definition?, other?)

How to communicate results to Ministers

- Results visible rapidly
- Results on a country basis
- A measure easy to understand
- Objective criteria: timeliness, sustainability and completeness



Participation situation in JODI Oil



Assessment of Participation in JODI



Algeria	😊😊😊	😊😊😊	😊😊😊
Angola	😊😊😊	😊😊😊	😊😊😊
Argentina	😊😊😊	😊😊😊	😊😊😊
Australia	😊😊😊	😊😊😊	😊😊😊
Austria	😊😊😊	😊😊😊	😊😊😊
Azerbaijan	😊😊😊	😊😊😊	😊😊😊
Bahrain	😊😊😊	😊😊😊	😊😊😊
Barbados	😊😊😊	😊😊😊	😊😊😊
Belgium	😊😊😊	😊😊😊	😊😊😊
Bolivia	😊😊😊	😊😊😊	😊😊😊
Brazil	😊😊😊	😊😊😊	😊😊😊
Brunei Darussalam	😊😊😊	😊😊😊	😊😊😊
Bulgaria	😊😊😊	😊😊😊	😊😊😊
Canada	😊😊😊	😊😊😊	😊😊😊
Chile	😊😊😊	😊😊😊	😊😊😊
China	😊😊😊	😊😊😊	😊😊😊
Chinese Taipei	😊😊😊	😊😊😊	😊😊😊
Colombia	😊😊😊	😊😊😊	😊😊😊
Costa Rica	😊😊😊	😊😊😊	😊😊😊
Croatia	😊😊😊	😊😊😊	😊😊😊
Cuba	n.a.	n.a.	n.a.
Cyprus	😊😊😊	😊😊😊	😊😊😊
Czech Republic	😊😊😊	😊😊😊	😊😊😊
Denmark	😊😊😊	😊😊😊	😊😊😊
Dominican Republic	😊😊😊	😊😊😊	😊😊😊
Ecuador	😊😊😊	😊😊😊	😊😊😊
Egypt	😊😊😊	😊😊😊	😊😊😊
El Salvador	n.a.	n.a.	n.a.
Estonia	😊😊😊	😊😊😊	😊😊😊
Finland	😊😊😊	😊😊😊	😊😊😊
France	😊😊😊	😊😊😊	😊😊😊
Gabon	n.a.	n.a.	n.a.
Germany	😊😊😊	😊😊😊	😊😊😊
Greece	😊😊😊	😊😊😊	😊😊😊
Grenada	n.a.	n.a.	n.a.
Guatemala	😊😊😊	😊😊😊	😊😊😊
Guyana	n.a.	n.a.	n.a.
Haiti	n.a.	n.a.	n.a.
Honduras	n.a.	n.a.	n.a.
Hong Kong, China	😊😊😊	😊😊😊	😊😊😊
Hungary	😊😊😊	😊😊😊	😊😊😊
Iceland	😊😊😊	😊😊😊	😊😊😊
India	😊😊😊	😊😊😊	😊😊😊
Indonesia	😊😊😊	😊😊😊	😊😊😊
Iran	😊😊😊	😊😊😊	😊😊😊
Iraq	😊😊😊	😊😊😊	😊😊😊
Ireland	😊😊😊	😊😊😊	😊😊😊
Italy	😊😊😊	😊😊😊	😊😊😊
Jamaica	😊😊😊	😊😊😊	😊😊😊
Japan	😊😊😊	😊😊😊	😊😊😊
Kazakhstan	n.a.	n.a.	n.a.
Korea	😊😊😊	😊😊😊	😊😊😊
Kuwait	😊😊😊	😊😊😊	😊😊😊
Latvia	😊😊😊	😊😊😊	😊😊😊
Libya	😊😊😊	😊😊😊	😊😊😊
Lithuania	😊😊😊	😊😊😊	😊😊😊
Luxembourg	😊😊😊	😊😊😊	😊😊😊
Malaysia	😊😊😊	😊😊😊	😊😊😊
Malta	😊😊😊	😊😊😊	😊😊😊
Mexico	😊😊😊	😊😊😊	😊😊😊
Morocco	😊😊😊	😊😊😊	😊😊😊
Myanmar	n.a.	n.a.	n.a.
Netherlands	😊😊😊	😊😊😊	😊😊😊
New Zealand	😊😊😊	😊😊😊	😊😊😊
Nicaragua	😊😊😊	😊😊😊	😊😊😊
Nigeria	😊😊😊	😊😊😊	😊😊😊
Norway	😊😊😊	😊😊😊	😊😊😊
Oman	😊😊😊	😊😊😊	😊😊😊
Panama	😊😊😊	😊😊😊	😊😊😊
Papua New Guinea	😊😊😊	😊😊😊	😊😊😊
Paraguay	😊😊😊	😊😊😊	😊😊😊
Peru	😊😊😊	😊😊😊	😊😊😊
Philippines	😊😊😊	😊😊😊	😊😊😊
Poland	😊😊😊	😊😊😊	😊😊😊
Portugal	😊😊😊	😊😊😊	😊😊😊
Qatar	😊😊😊	😊😊😊	😊😊😊
Romania	😊😊😊	😊😊😊	😊😊😊
Russia	😊😊😊	😊😊😊	😊😊😊
Saudi Arabia	😊😊😊	😊😊😊	😊😊😊
Singapore	😊😊😊	😊😊😊	😊😊😊
Slovakia	😊😊😊	😊😊😊	😊😊😊
Slovenia	😊😊😊	😊😊😊	😊😊😊
South Africa	😊😊😊	😊😊😊	😊😊😊
Spain	😊😊😊	😊😊😊	😊😊😊
Sweden	😊😊😊	😊😊😊	😊😊😊
Switzerland	😊😊😊	😊😊😊	😊😊😊
Syria	😊😊😊	😊😊😊	😊😊😊
Taiwan	😊😊😊	😊😊😊	😊😊😊
Tanzania	😊😊😊	😊😊😊	😊😊😊
Turkey	😊😊😊	😊😊😊	😊😊😊
Ukraine	😊😊😊	😊😊😊	😊😊😊
United Arab Emirates	😊😊😊	😊😊😊	😊😊😊
United Kingdom	😊😊😊	😊😊😊	😊😊😊
United States	😊😊😊	😊😊😊	😊😊😊
Venezuela	😊😊😊	😊😊😊	😊😊😊
Vietnam	😊😊😊	😊😊😊	😊😊😊
Yemen	n.a.	n.a.	n.a.

😊😊😊 Sustainability (of submission) 😊😊😊 Timeliness 😊😊😊 Completeness

😊 Good 😊 Fair 😊 Poor

Not available (n.a.) when no submission from July 2010 to June 2011

Assessment for the period: January - June 2011



What is the overall situation in terms of sustainability, timeliness and completeness ?

World 😊 Summary

Sustainability

74

77

-3.9%

Timeliness

58

55

5.5%

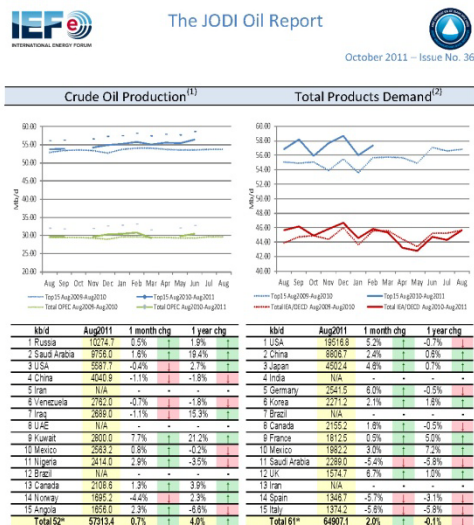
Completeness

67

67

0.0%

- Monthly Data Report
- Regular JODI Newsletters
- JODI section for the IEF Newsletter



* Number of countries that reported data for August 2011, the month before and the same month of the last year.

** OECD total do not include Chile, Estonia, Israel, and Slovenia.

(1) Crude oil includes lease condensate

(2) Total products demand includes direct use of crude oil

(3) Total oil stock changes refer to crude oil and petroleum products stock changes

Further information on flow/product definitions available on the JODI Oil website

Ranking based on the latest available JODI Oil data and therefore (Top 15) varies from one product/flow to another

Detailed information: Russia does not report complete data set for LPG, Kerosene and total petroleum

For more information on this report, please contact:
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Email: jodiinfo@ief.org Tel.: +966 1 4810767

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Promotion of JODI



Joint Organisations Data Initiative

August 2011
Issue 19

Riyadh

Extraordinary International Energy Forum Ministerial



Inside this issue

- p1 Extraordinary IEF, Riyadh
- p2 Report to G20
- p3 New JODI website
- p4 Capacity building efforts
- p5 Toward 8th JODI Oil Conference
- p7 In search of excellence

86 Energy Ministers, in signing the new International Energy Forum Charter, reaffirmed their effort to ensure complete and sustainable data provision to the Joint Organisations Data Initiative. One of the Forum's fundamental aims is stated in the newly adopted Charter as "facilitating the collection, compilation and dissemination of data, information and analyses that contribute to greater market transparency, stability and sustainability".

Ministers also welcomed JODI partner organisations' collective and continuous efforts in training statisticians in charge of JODI data compilation and submission in participating countries/economies; develop new tools and practices to regularly check JODI data and streamline data submission; enhance interaction with data users (in particular market analysts) and upgrade JODI platforms such as the JODI website.

While reaffirming their commitment to providing timely and accurate data to JODI, Ministers have also envisaged co-operation in expanding, in due course, the Initiative to include data on other sources of energy that are important in the world energy mix, and disseminate other data relevant to the energy markets such as natural gas and annual investment in oil and gas upstream and downstream.

However in a trend of declining performance by participating countries/economies, IEF countries need to further boost the quality, timeliness and reliability of the JODI Database to achieve a target of 3 smiley faces by the end of 2011.

Joint Organisations Data Initiative



JodiOil™

86 Energy Ministers Confirm Data Provision Efforts



86 Energy Ministers, in signing the new International Energy Forum Charter, reaffirmed their effort to ensure complete and sustainable data provision to the Joint Organisations Data Initiative. One of the Forum's fundamental aims is stated in the newly adopted Charter as "facilitating the collection, compilation and dissemination of data, information and analyses that contribute to greater market transparency, stability and sustainability". The concluding statement prepared by the Kingdom of Saudi Arabia and the Secretaries of IEA, IEF and OPEC recognised as important that "participating countries/economies ensure that administrations and organisations in charge of data collection are better equipped and staffed, to implement appropriate regulations that ensure industry is fully engaged in the process of data submission and to address confidentiality issues and reduce if not eliminate them".

"IEF countries need to further boost the quality, timeliness and reliability of the JODI Database to achieve a target of 3 smiley faces by the end of 2011".

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However in a trend of declining performance by participating countries/economies, it was acknowledged that "IEF countries need to further boost the quality, timeliness and reliability of the JODI Database to achieve a target of 3 smiley faces by the end of 2011".

Extended JODI Oil World Database



Home About JODI ▼ Participants ▼ News & Events ▼ Resources ▼ Contacts Database ▼

Sign In / Up

Explore

The JODI Oil World Database, **now extended.**

Transparency is the key word behind JODI. JODI organisations do not estimate data that has not been submitted by participating countries nor change data submitted by them as the data is officially sanctioned.

**Released at the IEF
Ministerial in Kuwait
March 2012**

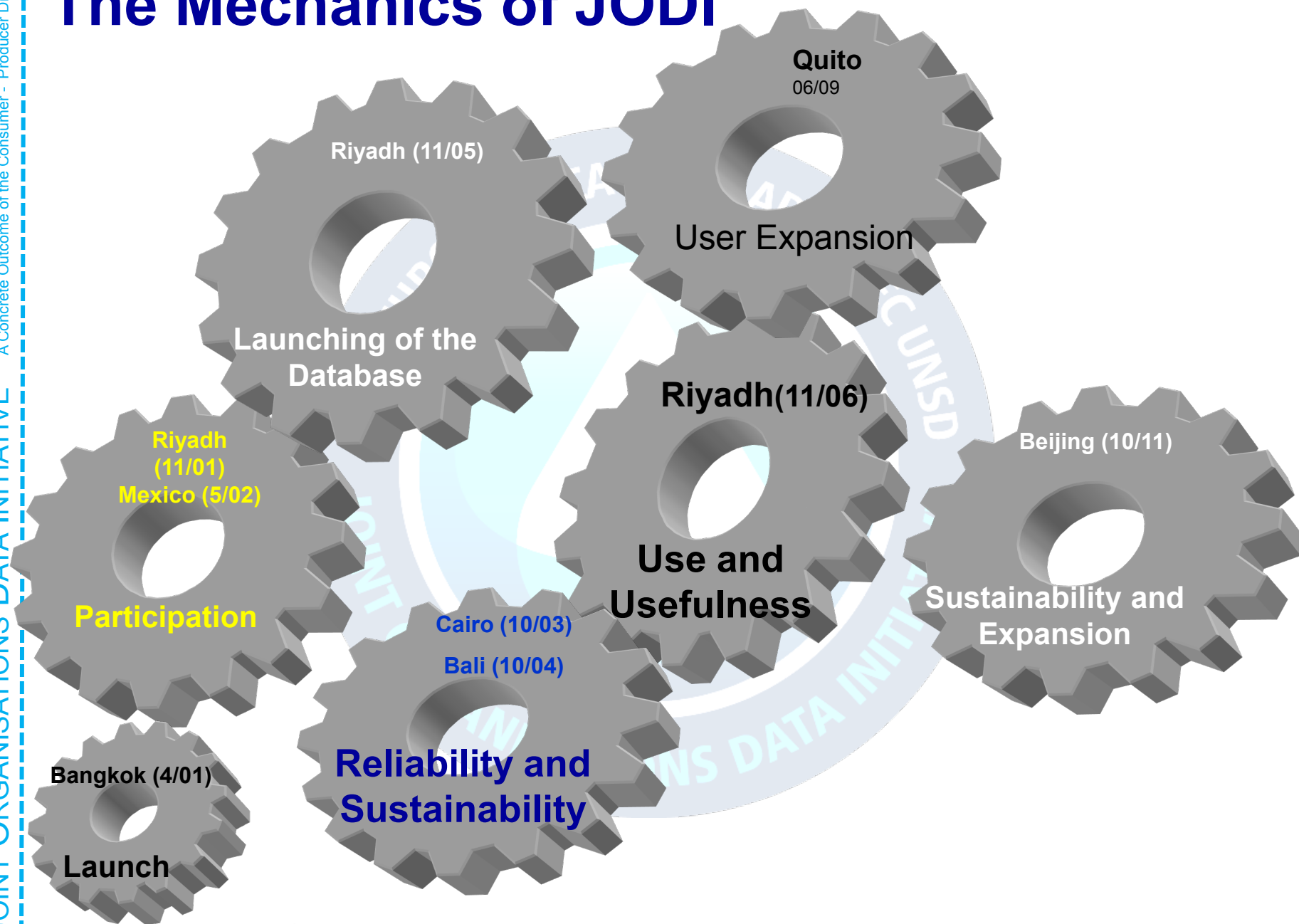


7th Regional JODI Training Workshop, 8-10 October 2012, Rabat, Morocco

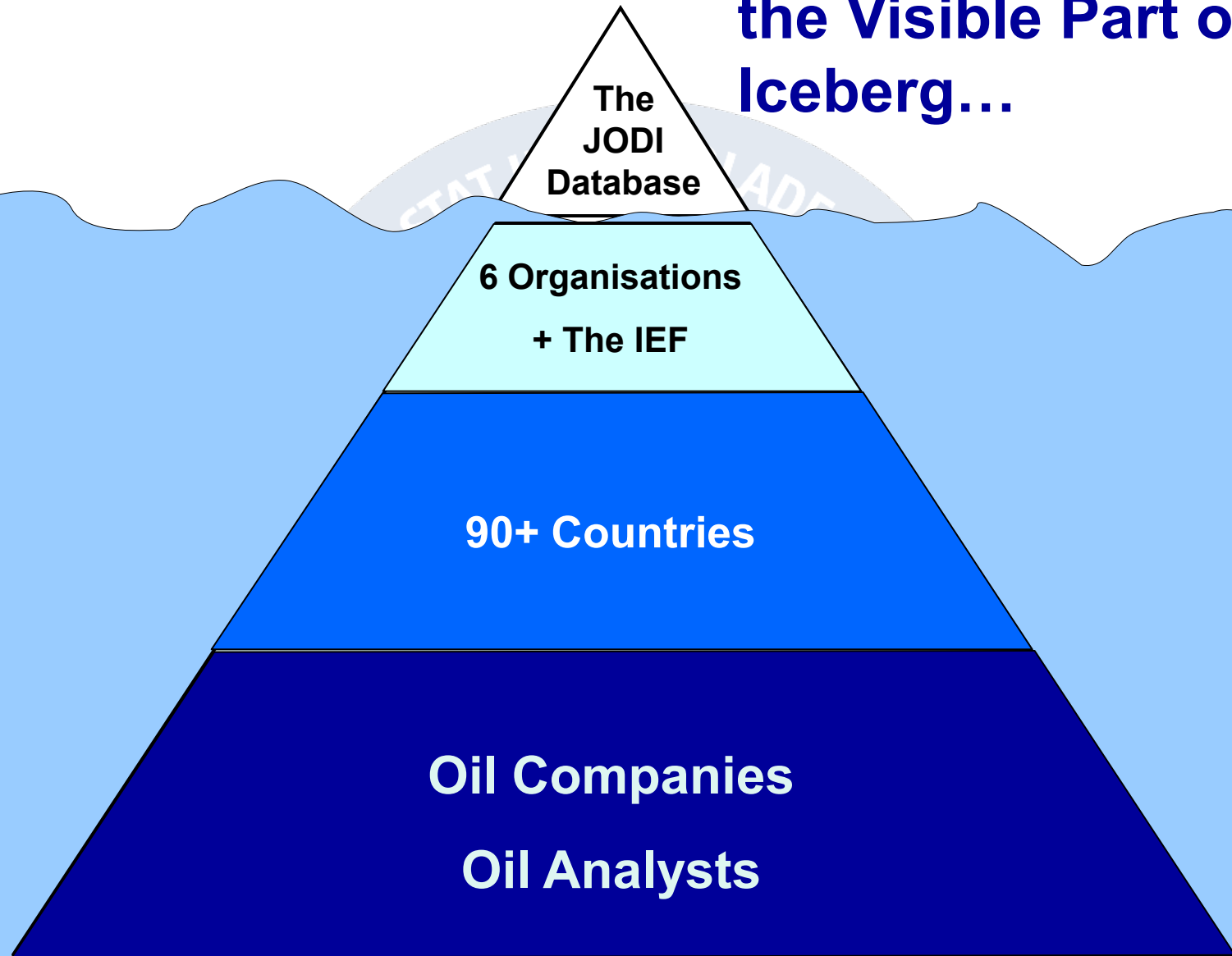
Looking Ahead

- **Mechanics of JODI**
- **Objectives for the future**
- **Extension of the initiative**
- **A few words to conclude**

The Mechanics of JODI



The Database is Only the Visible Part of the Iceberg...



Objectives for the future

- **Release of 2nd edition of JODI Oil Manual**
- **Continue to improve Timeliness, Coverage and Quality of JODI submissions**
- **Promotion of the data base**
- **Training Workshops/Internships at IEF**
- **Virtual training on IEF website**
- **JODI Natural Gas work**

Still some work to do . . .

- **90 to 95% of the road has been made to have the usable, useful and used database the oil community is waiting for**
- **However the remaining 5 to 10% are the most difficult to achieve**
- **Most of the technical work has already been done, it is now mainly about political commitment: confidentiality and resources are two key issues**

JODI main achievements

- Helped raise political awareness on the importance of oil data transparency
- Helped establishing a free sound oil data collection system at the global level
- Improved attitude toward data confidentiality
- Created a momentum for more harmonization and cooperation
- Strengthened producer-consumer dialogue

Lessons From the Initiative

- **A lot can be achieved by working together**
- **A close interaction between organisations, countries and the industry is key to move a process**
- **Political backing is essential**
- **Improving data transparency will not happen over night**
- **Transparency will not happen without full participation of all parties**

Thank you

For more information at
www.jodidata.org



Energy Working Group



International
Energy Agency

