

9th Regional JODI Training Workshop

25-27 February 2014, Baku, Azerbaijan

The Joint Organisations Data Initiative Background, Current Status and Objectives

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IEA

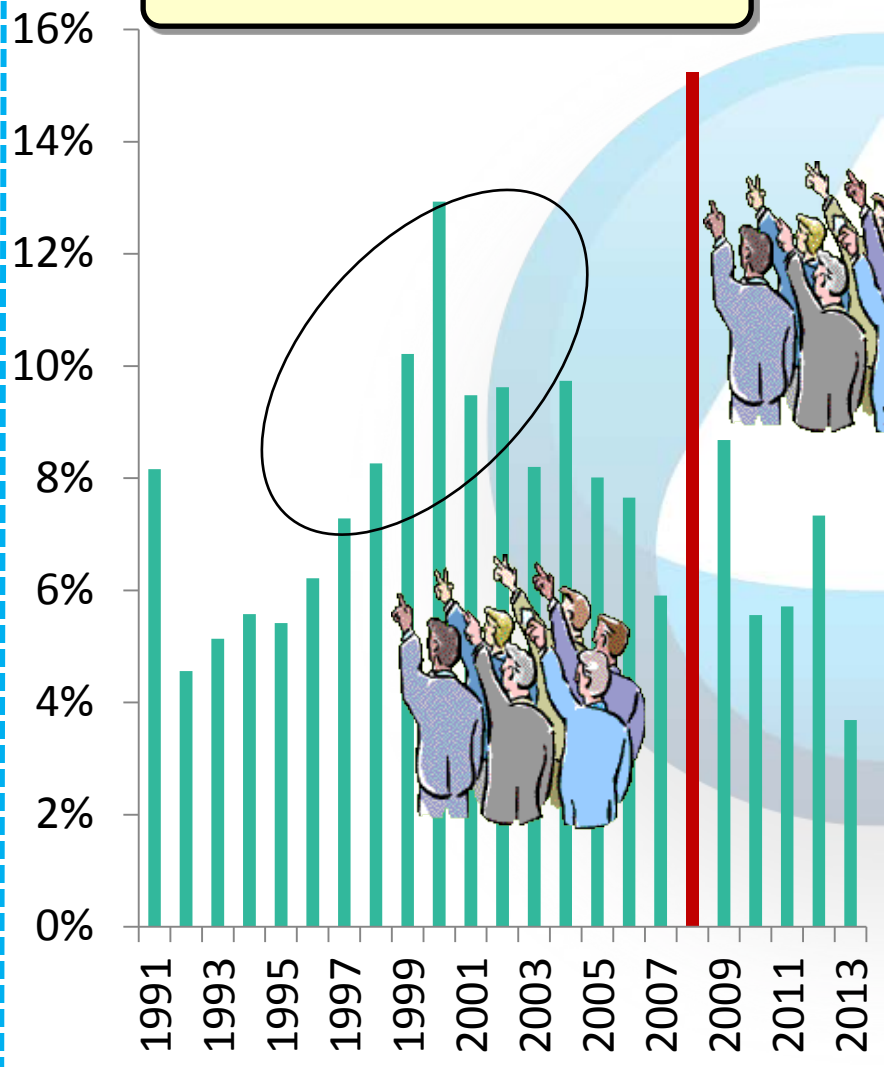


What is JODI?

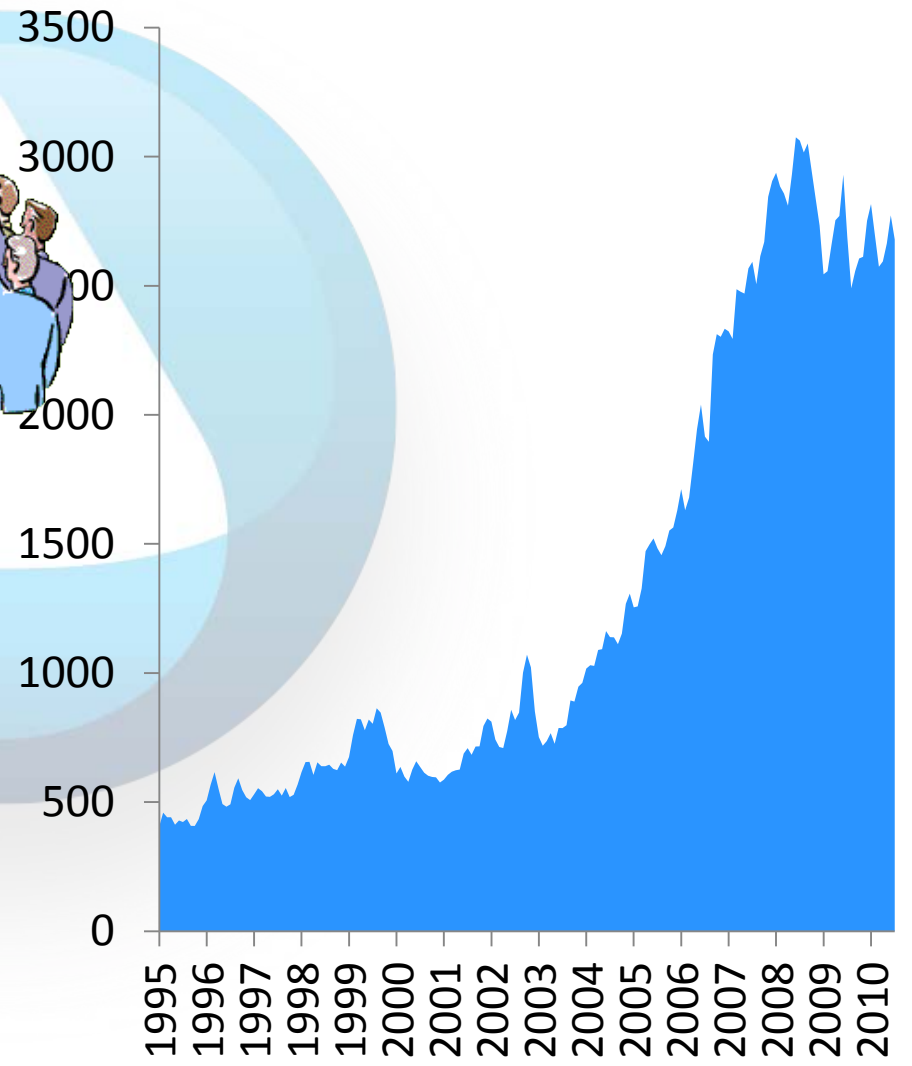
- Joint Organisations Data Initiative
- A concrete outcome of the oil producer-consumer dialogue
- Way beyond only data collection
- 7 international organizations with the aim to improve (oil, natural gas, ...) data transparency and harmonization of methodologies
- Increasing cooperation and awareness on importance of reliable and timely statistics
-

Unusual volatility in oil prices...

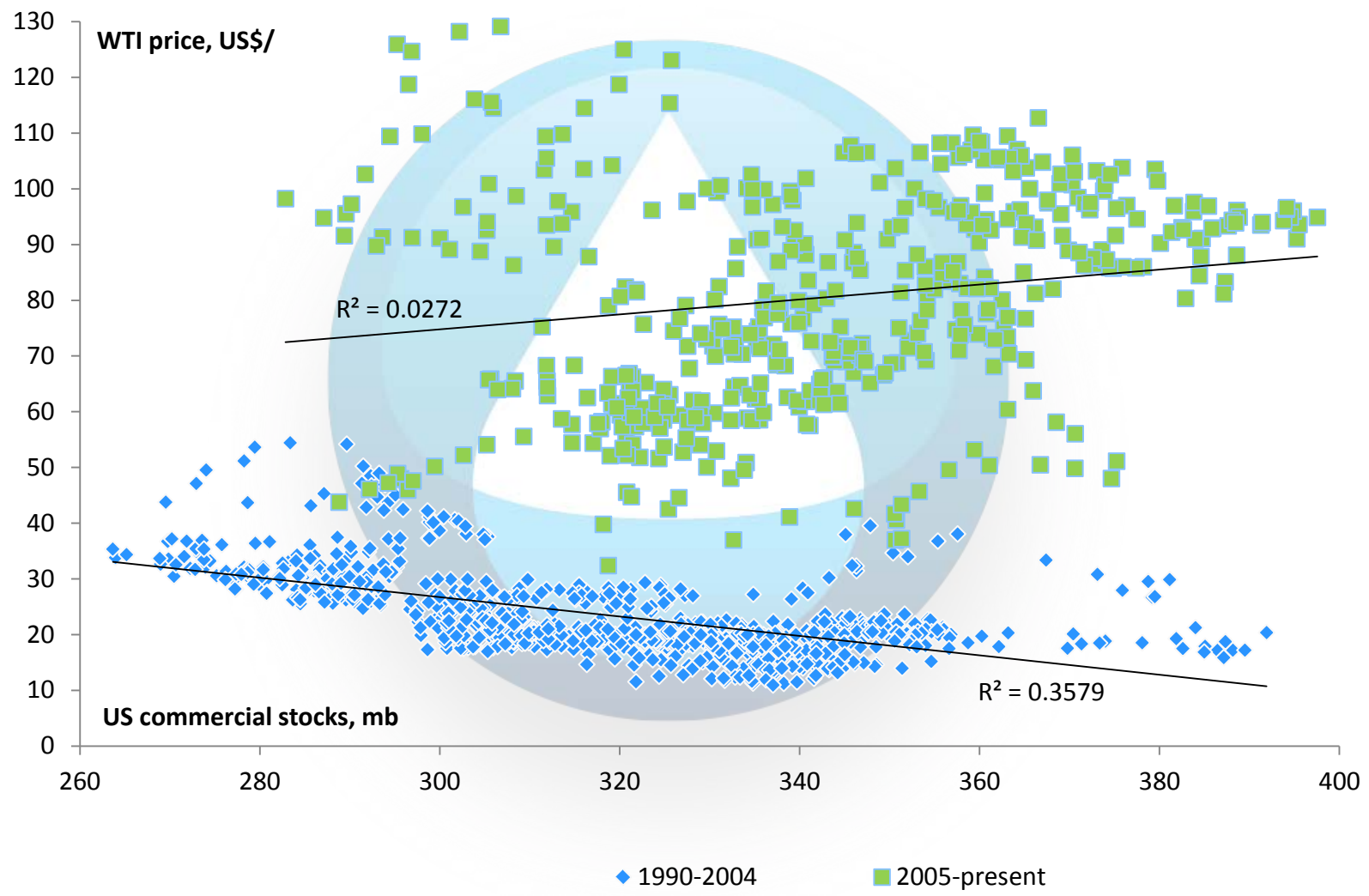
Blame on statistics?



Open interest



Unusual patterns in oil prices...



Supply/demand balances & changes in stocks

OECD stocks minus s/d balance, mb/d



Political call + technical answer = basis - the birth of J(Oil) DE

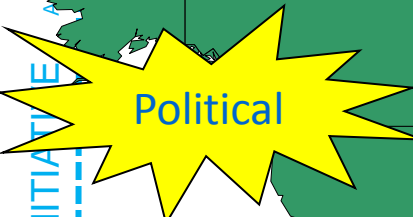


Heads of Statistics in Paris, 13-14 Nov 2000

Paris
13-14 Nov. 2000



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



Ministers at the 7th IEF Meeting



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 (JODE)

1st step: agreed 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: _____

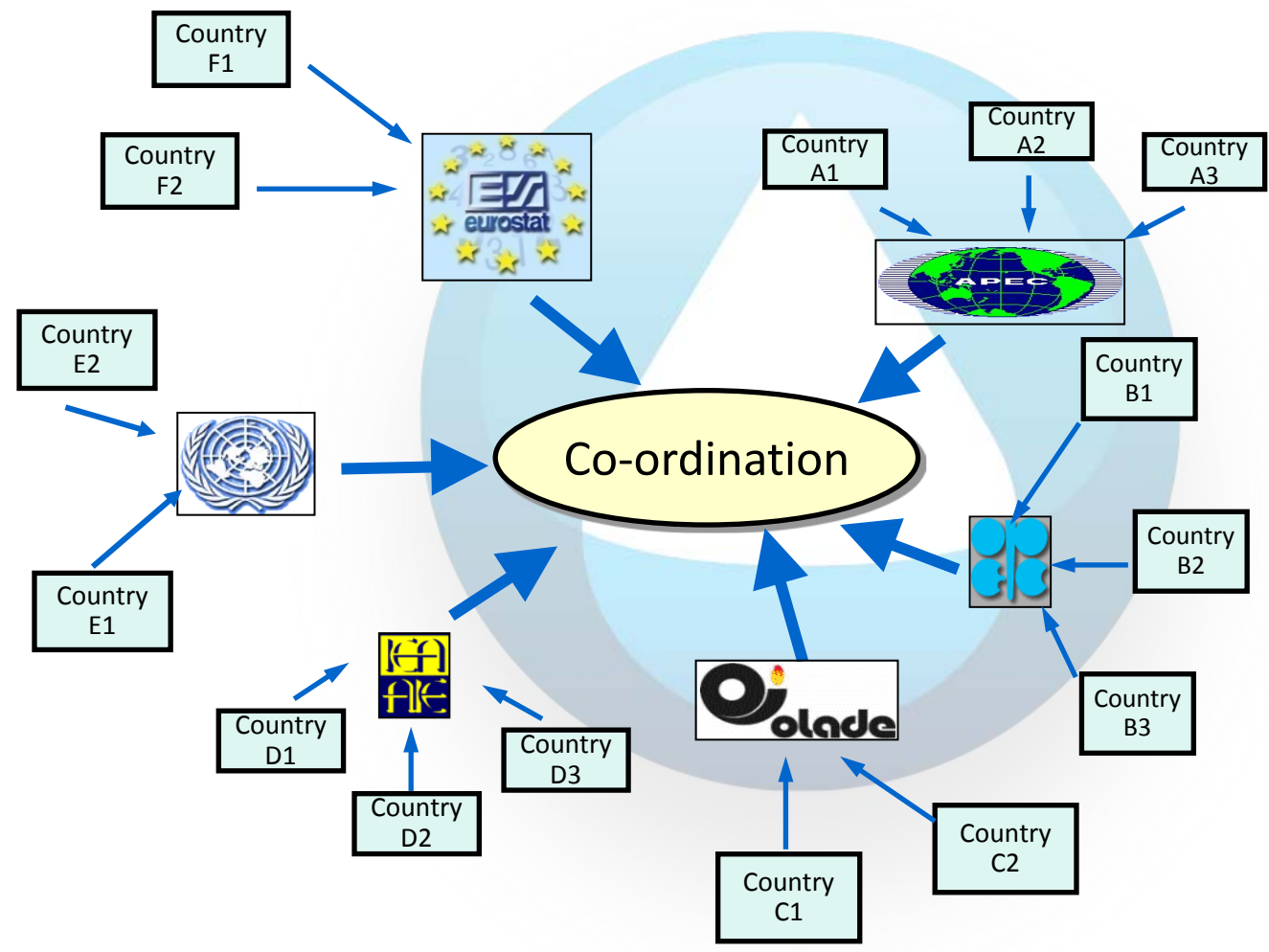
Unit: _____

		Crude Oil	Petroleum Products						
			LPG	Gasoline	Kerosene	Gas/Diesel Oil	Fuel Oil	Total Oil	
Production	month -1 & month -2	Factory Output							
Imports									
Exports									
Stocks	Closing								
	Change								
Refinery Intake		Demand							

Choice of units left to organisations

Simple definitions

2nd step: launched a 6-month exercise with joint and agreed objectives



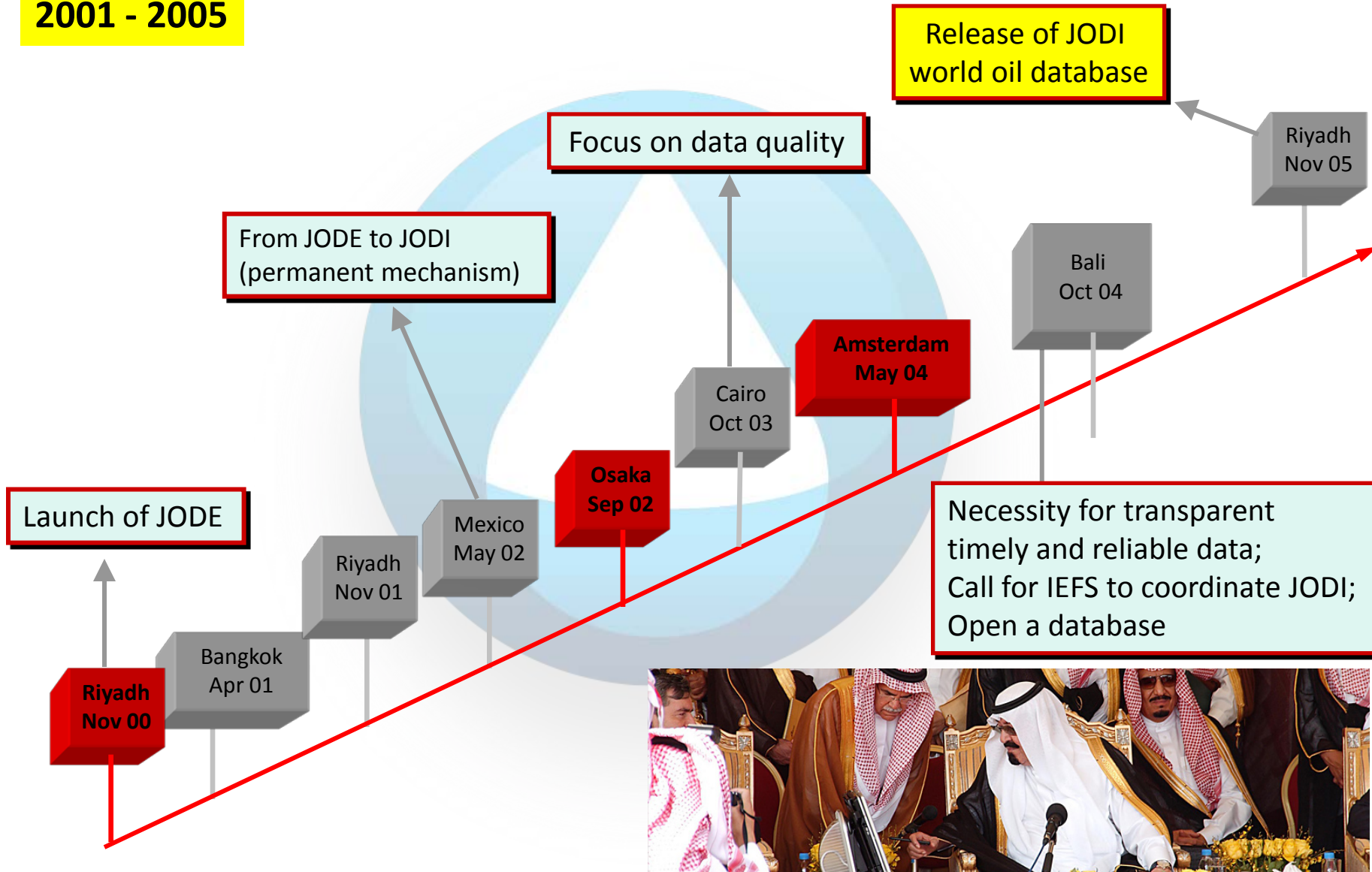
- ### Objectives
- How many countries would be able to complete the table
 - How many countries would be able to submit M-1 data
 - What are the main difficulties encountered
 - What solutions could be proposed

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 J(Oil)DI world database

Working together: a long process but worthwhile!

2001 - 2005

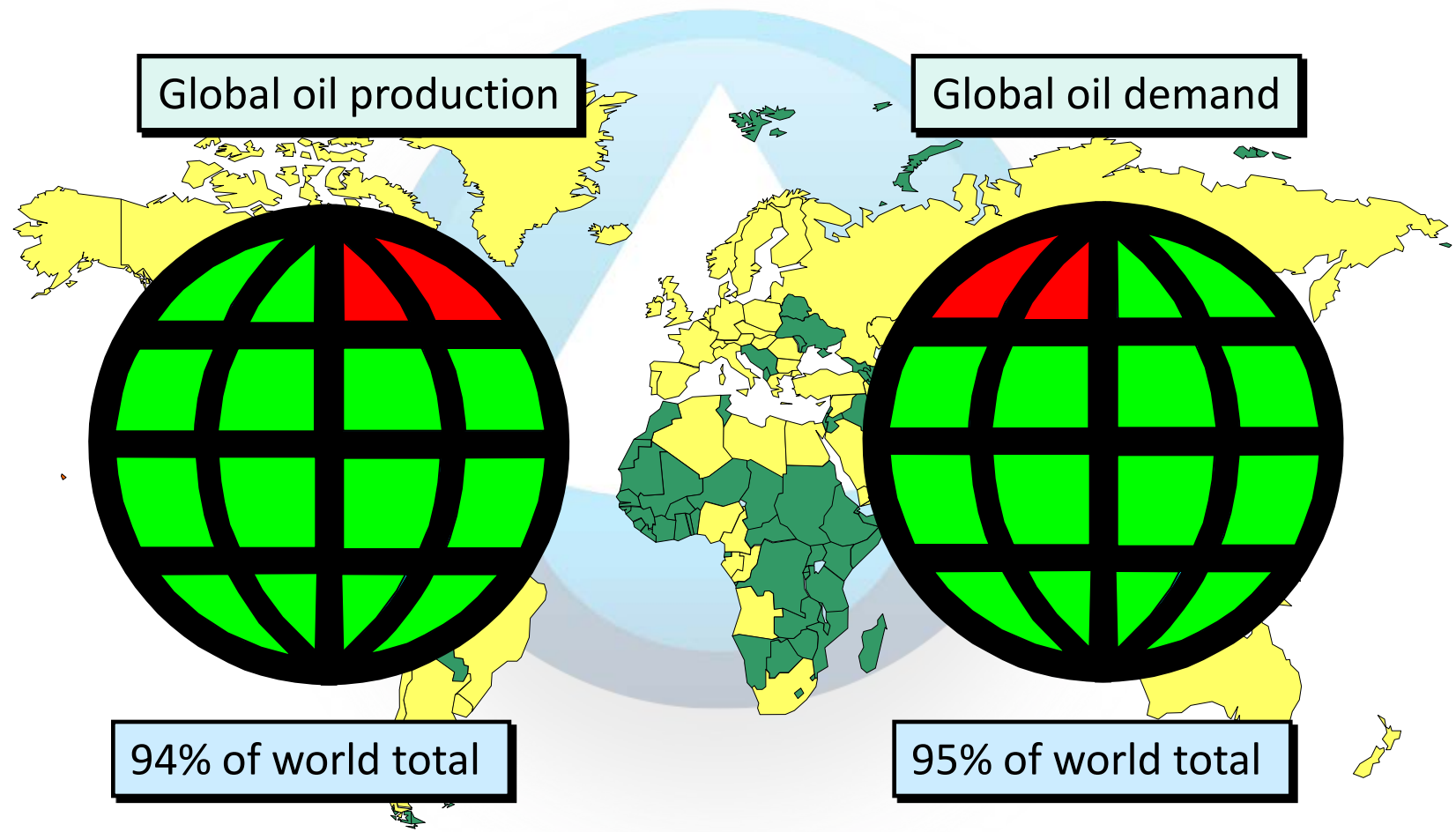


Unit: [Thousand B](#) Product: [Crude Oil](#) Balance: [Production](#)

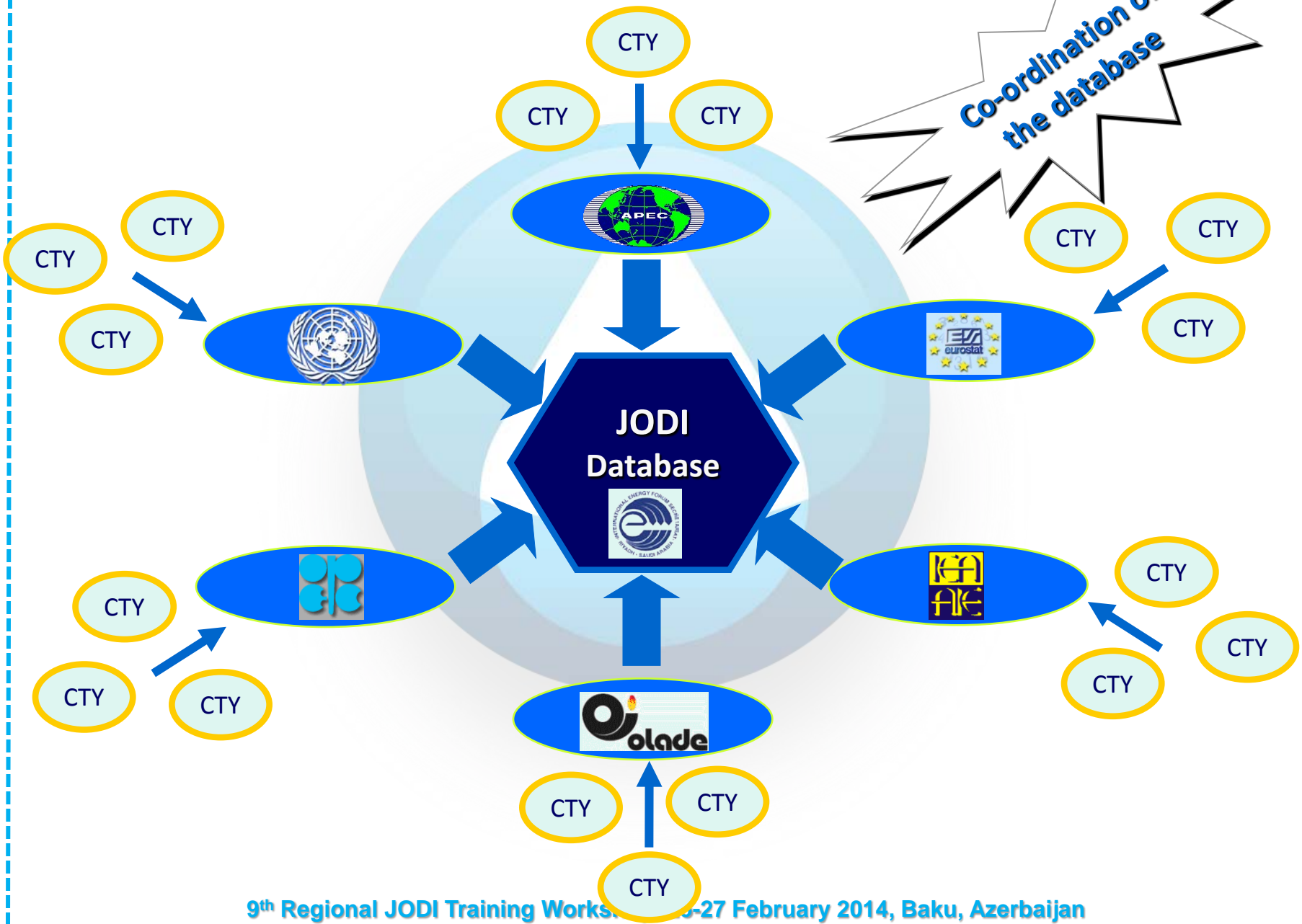
Country	Nov2003	Dec2003	Jan2004	Feb2004	Mar2004	Apr2004	May2004	Jun2004	Jul2004
	0	0	1,316	1,278	1,263	1,254	1,258	1,276	1,270
Angola	0	0	0	0	0	0	0	0	0
Algeria	0	0	0	0	0	0	0	0	0
Australia	480	481	468	457	432	429	413	452	0
Brazil	1,481	1,481	1,457	1,452	1,480	1,449	1,421	1,482	0
Canada	2,043	2,056	1,978	2,018	2,012	2,009	1,992	2,070	2,034
China	3,395	3,097	3,450	3,483	3,401	3,445	3,480	3,516	0
Colombia	532	519	525	523	518	535	535	533	0
Egypt (Arab Rep.)	702	682	676	673	676	653	671	659	0
India	689	694	698	701	693	706	692	690	688
Indonesia	1,110	1,106	0	1,107	1,102	1,097	0	1,093	1,092
Iran (Islamic Rep.)	3,724	3,741	3,676	3,753	0	3,613	3,660	3,683	3,725
Iraq	0	0	0	0	0	0	0	0	0
Kazakhstan	974	982	0	0	977	993	974	0	984
Kuwait	1,980	2,060	2,066	2,036	2,026	2,130	2,100	2,200	0
Libya	1,430	1,430	1,460	1,460	1,440	1,440	1,574	1,626	1,661
Malaysia	819	859	851	844	843	827	822	0	0
Mexico	3,385	3,462	3,424	3,365	3,383	3,456	3,409	3,452	3,377
Nigeria	2,319	0	2,397	2,363	2,411	2,341	2,290	2,307	0
Norway	3,008	3,123	3,159	3,126	3,064	3,046	3,017	3,000	3,039
Oman	804	807	0	0	0	0	0	0	0
Qatar	0	0	0	0	0	0	0	0	0
Russian Federation	8,509	8,519	8,543	8,599	8,662	8,730	8,804	8,975	0
Saudi Arabia	8,045	8,333	8,038	8,121	7,987	7,774	8,695	9,365	9,491
Syria (Arab Rep.)	0	0	0	0	0	0	0	0	0
United Arab Emirates	2,124	2,198	2,283	2,305	2,184	2,133	2,266	2,385	2,392
United Kingdom	1,969	2,028	2,006	1,876	2,007	1,927	1,767	1,878	1,825
United States of America	5,637	5,629	5,644	5,584	5,622	5,567	5,612	0	5,408
Venezuela	2,698	2,455	0	0	0	0	0	0	0
Yemen	3,266	3,326	3,268	3,196	403	392	391	381	0
Total Top 30 Production	60,013	57,962	57,383	57,213	51,484	54,849	55,843	49,930	35,894

A database was prepared

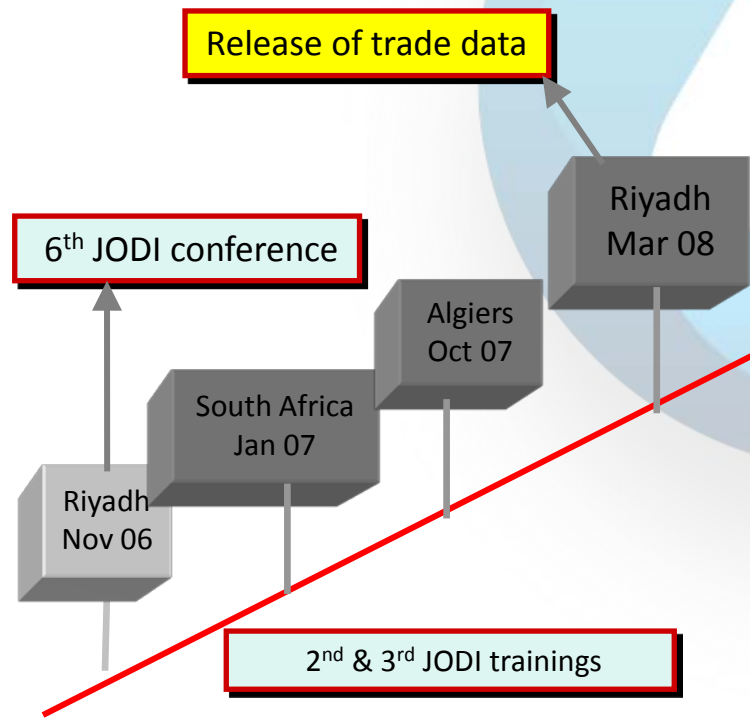
Number of countries participating in J(Oil)DI: 93 at the 9th IEF in Amsterdam (May 2004)



The new reporting mechanism



And the story went on...



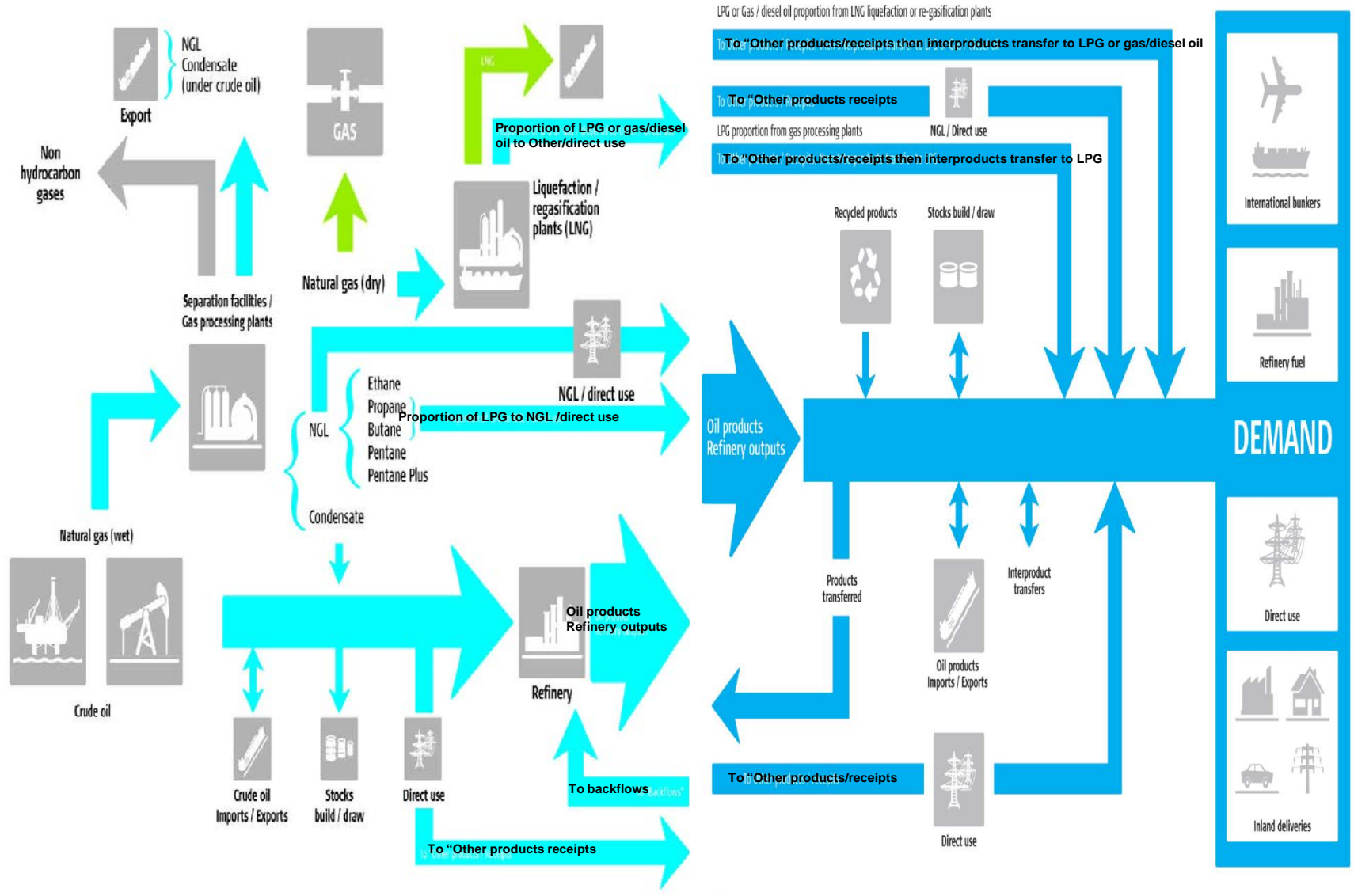
Screenshot of a Microsoft Internet Explorer browser displaying a table titled "Joint Oil Data Initiative Global data". The table shows oil trade data for various countries from July 2004 to August 2005. The data is color-coded: blue for data that is comparable, yellow for data that is not comparable, and white for missing data.

Country	Jul2004	Aug2004	Sep2004	Oct2004	Nov2004	Dec2004	Jan2005	Feb2005	Mar2005	Apr2005	May2005	Jun2005	Jul2005	Aug2005
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	4,308	4,316	4,482	3,750	3,518	4,105	4,120	4,526	4,279	4,627	4,120
Hungary	645	1,110	532	510	620	105	653	345	615	263	548	510	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	36,276	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	36,960	43,338	35,310	36,828	0	40,424	41,819
Iran (Islamic Rep.)	0	0	0	0	0	0	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	50,602	54,046	50,187	52,416	51,870	56,506	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	78,260	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	6,660	6,386	7,533	6,356	7,285	7,080	7,006	6,780	0	0
Libya	1,775	1,947	1,939	1,837	1,697	1,861	1,533	1,540	1,736	1,609	1,775	1,767	1,814	1,986
Lithuania														

Monthly update, M-1 data

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

Conferences provide the ground for steps ahead...



Conferences provide the ground for steps ahead...

- 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	Closing				Stocks							
	Change				Change							
Statistical Difference					Statistical Difference							
Demand					Demand							

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

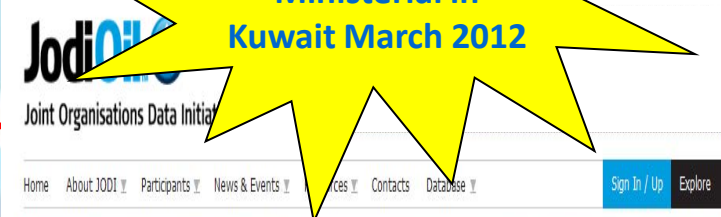
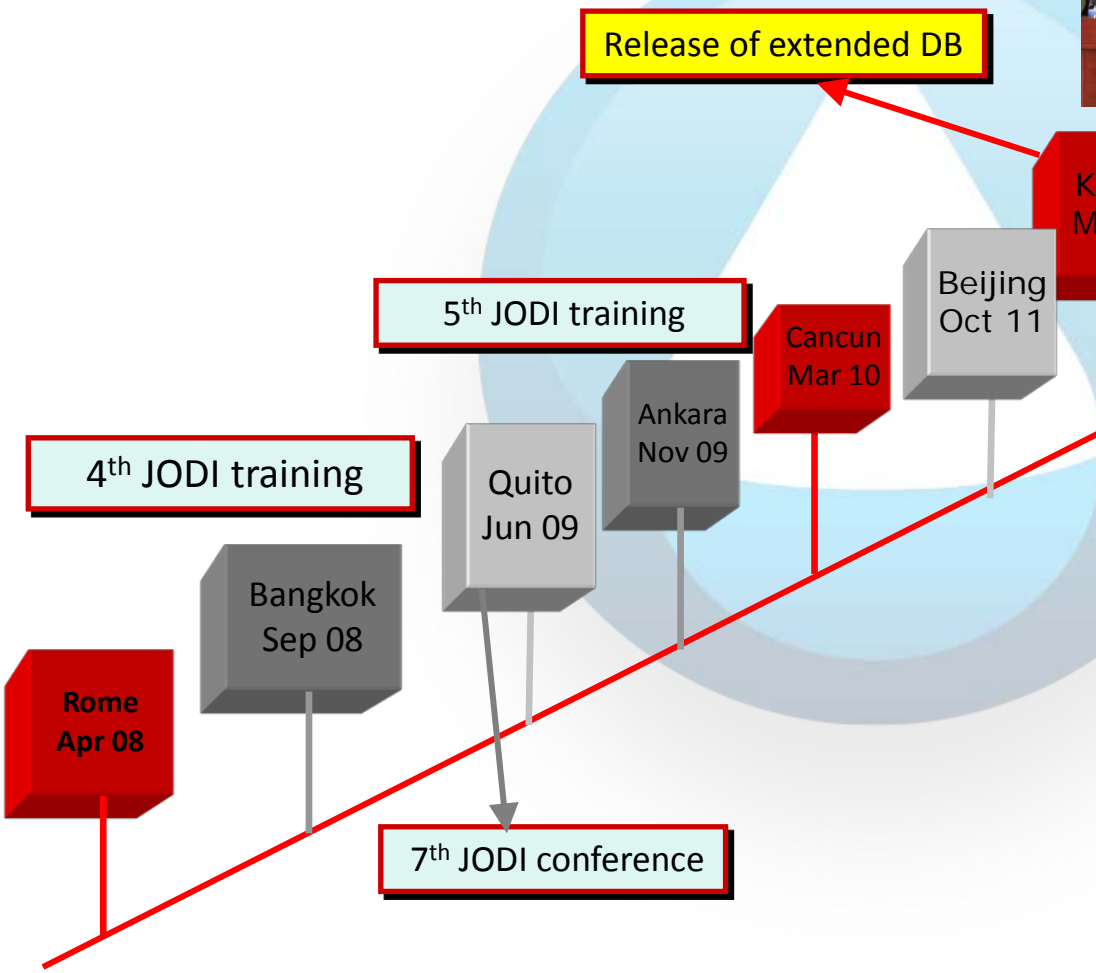
Addition of products with significant consumption in different countries (naphtha, jet kerosene)

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

Conferences provide the ground for steps ahead...

- 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

And the story went on...



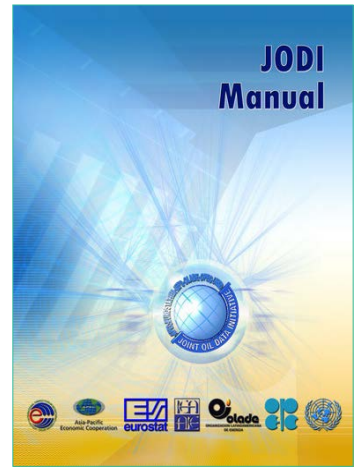
From J(Oil)DI to J(Organizations)DI

- 10th IEF meeting (2006)
 - Calls for extending JODI to other fuels
- 11th IEF meeting (2008)
- Feasibility study for extending JODI to include monthly natural gas data (2009)
- G20 summit (2009)
- JODI gas exercise launched
- 7th international JODI conference (2009)
 - “...JODI organizations are invited to assess the data collection burden and member countries/economies capacity to report natural gas data on a monthly basis and examine practical ways of extending JODI to natural gas data... “

JODI & natural gas...

- JODI ISWG meeting (November 2009)
 - Finalization of gas questionnaire and agreement on the architecture to start a preliminary gas data collection exercise within JODI partners and other stakeholders
- December 2009 to date
 - Start a preliminary gas data collection exercise; beta version of database currently being assessed
- 12th IEF meeting (2010)
- G20 summit (2011)
- 13th IEF meeting (2012)
 - JODI gas exercise becomes a permanent initiative
- JODI gas conferences/trainings/manual
- Launch of JODI gas database to public

Training and capacity building



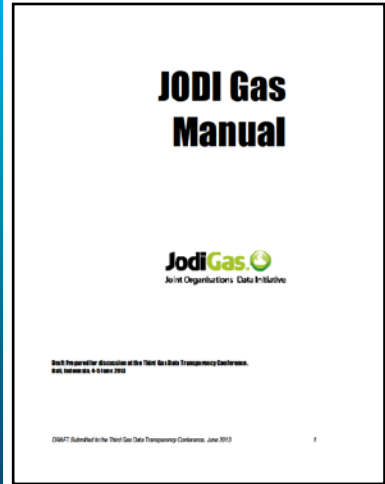
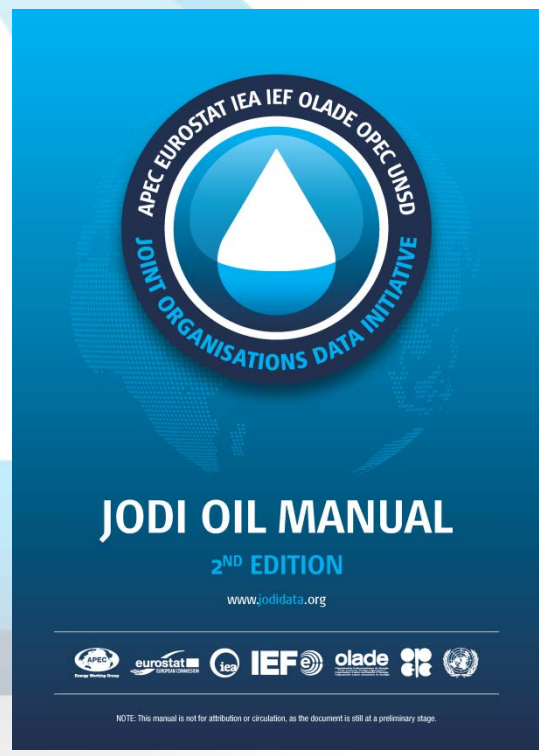
English




Spanish

Russian

Chinese

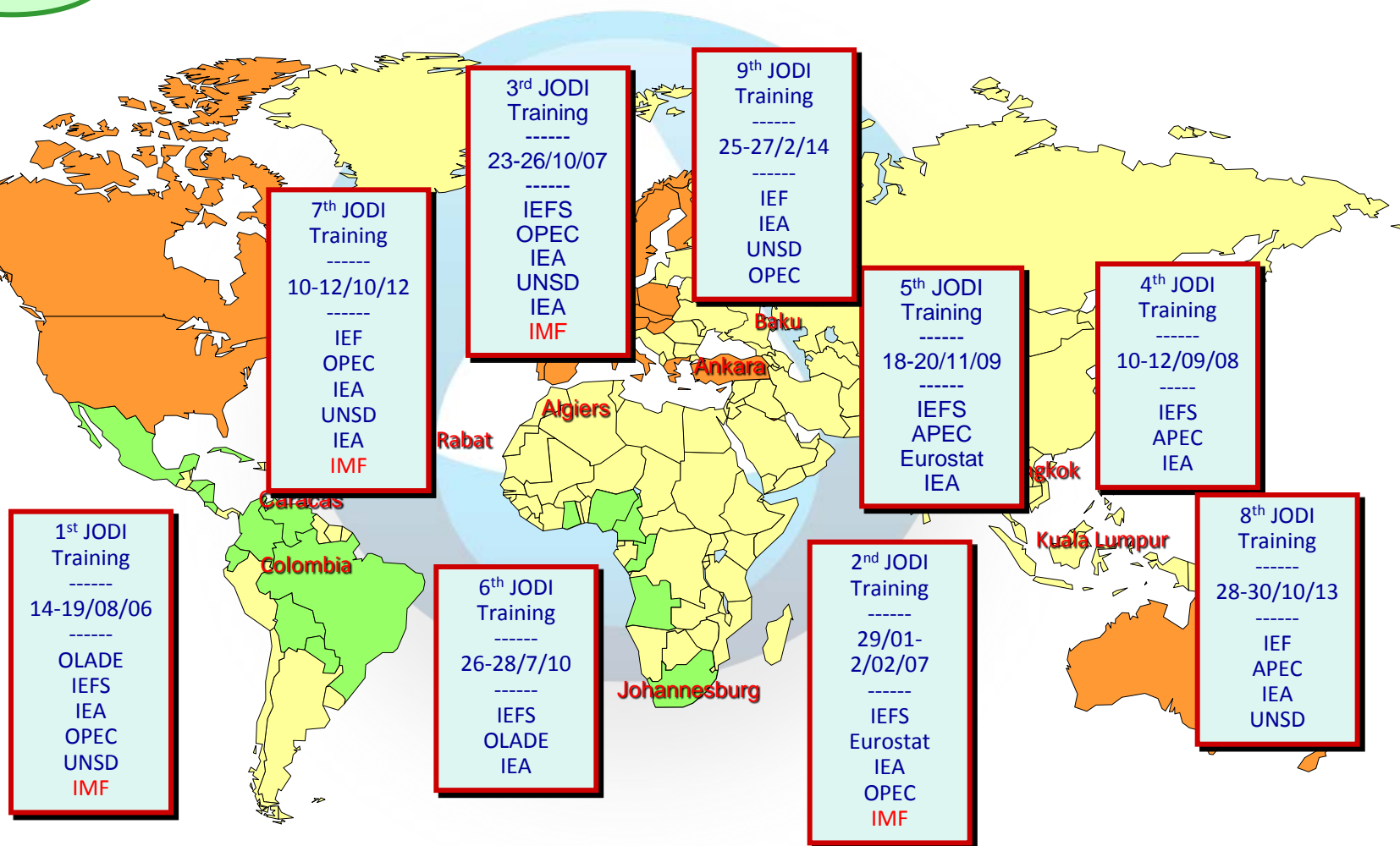


JODI Training

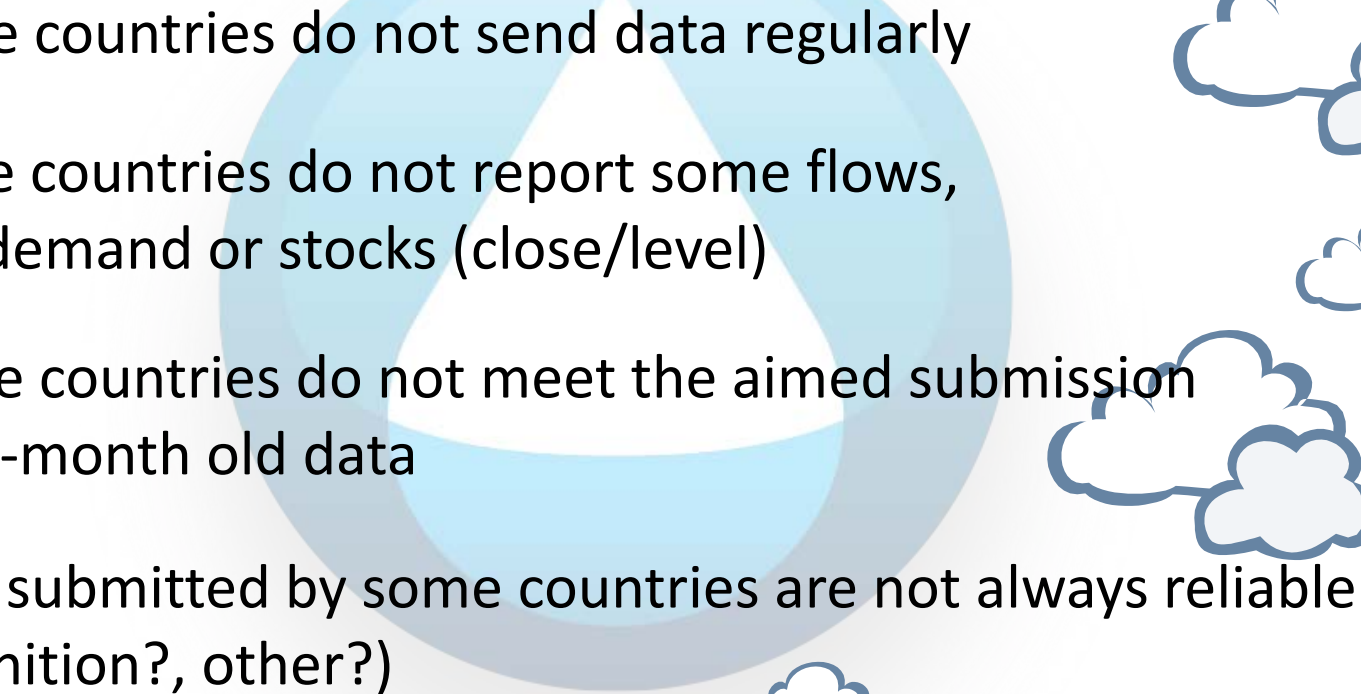
- 
- To help the participating countries to report better quality data in the JODI questionnaire
 - It offers participants an opportunity to get clarifications about the definitions, data quality assessment and oil data issues
 - To share their experience on data validation best practices or data collection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

Seven JODI training sessions have been organised since 2006

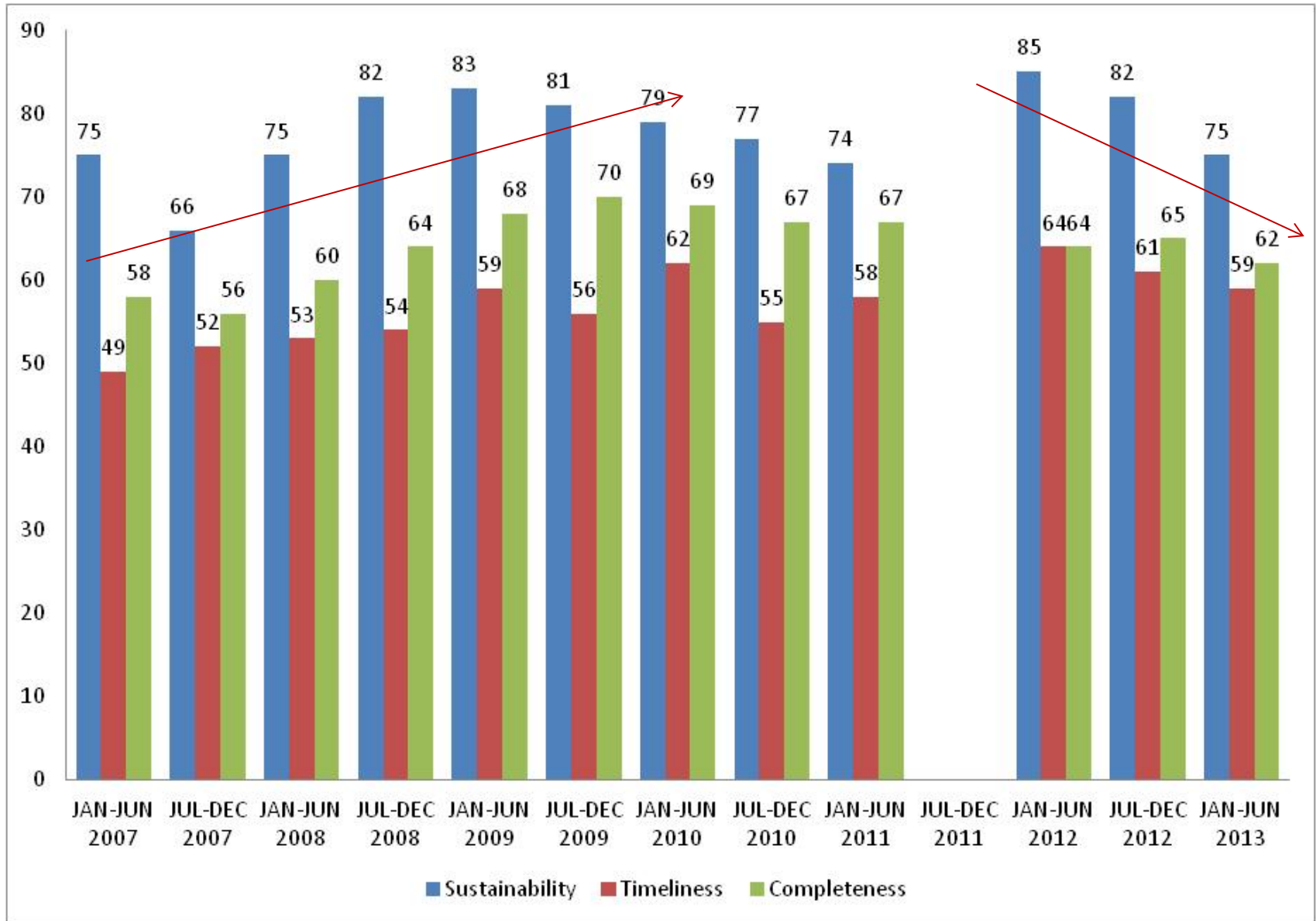
Training



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 2-month old data
 - Data submitted by some countries are not always reliable (definition?, other?)

Participation situation in JODI Oil



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

Assessment for the period January - June 2013



With the support of Joint Organisations Data Initiative (JODI) partners

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

☹️☹️☹️ Sustainability (of submission)

😊😊😊 Timeliness

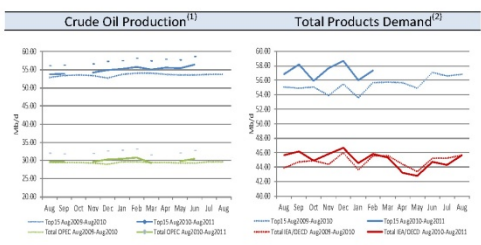
😊😊😊 Completeness

😊 Good 😊 Fair 😊 Poor

Not assessable (n.a.) is applied when a country did not submit JODI-Oil questionnaire data during the assessment period nor during the six months prior to the period.

Promotion of JODI

- Monthly data reports
- Regular JODI newsletters
- JODI section for the IEF newsletters



Country	Aug2011	1 month chg	1 year chg	Country	Aug2011	1 month chg	1 year chg
1 Russia	10274	0.5%	-1.9%	1 USA	89188	5.2%	-0.7%
2 Saudi Arabia	8758.0	1.8%	-19.4%	2 China	8803.7	2.6%	0.5%
3 USA	5597.7	-0.4%	2.7%	3 Japan	2502.4	4.8%	-0.7%
4 China	4540.9	-1.1%	-1.8%	4 India	N/A	-	-
5 Iran	N/A	-	-1.8%	5 Germany	2541.5	6.0%	-0.5%
6 Venezuela	2925.0	-0.7%	-1.5%	6 Spain	2217.3	2.1%	-1.6%
7 Iraq	3589.0	-1.1%	15.3%	7 Brazil	N/A	-	-
8 UAE	N/A	-	-	8 Canada	2159.2	1.8%	-0.5%
9 Kuwait	3800.0	7.7%	-21.2%	9 France	1812.5	0.5%	3.5%
10 Mexico	2553.9	0.8%	-4.0%	10 Mexico	1892.2	3.0%	7.5%
11 Nigeria	3474.0	-2.9%	-3.5%	11 Saudi Arabia	2280.0	-5.4%	-5.8%
12 Brazil	N/A	-	-	12 UK	1514.7	6.7%	1.5%
13 Canada	2126.6	1.3%	3.9%	13 Iran	N/A	-	-
14 Norway	765.2	-4.4%	2.3%	14 Spain	1546.7	-5.7%	-3.1%
15 Angola	1656.0	-2.3%	-8.9%	15 Italy	1374.2	-5.8%	-3.8%
Total 52*	57313.4	0.7%	4.0%	Total 61**	64807.1	2.0%	0.1%

* 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



Joint Organisations Data Initiative

August 2011 Issue 19

Riyadh

Extraordinary International Energy Forum Ministerial



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 - 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.



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 Secretariat 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".

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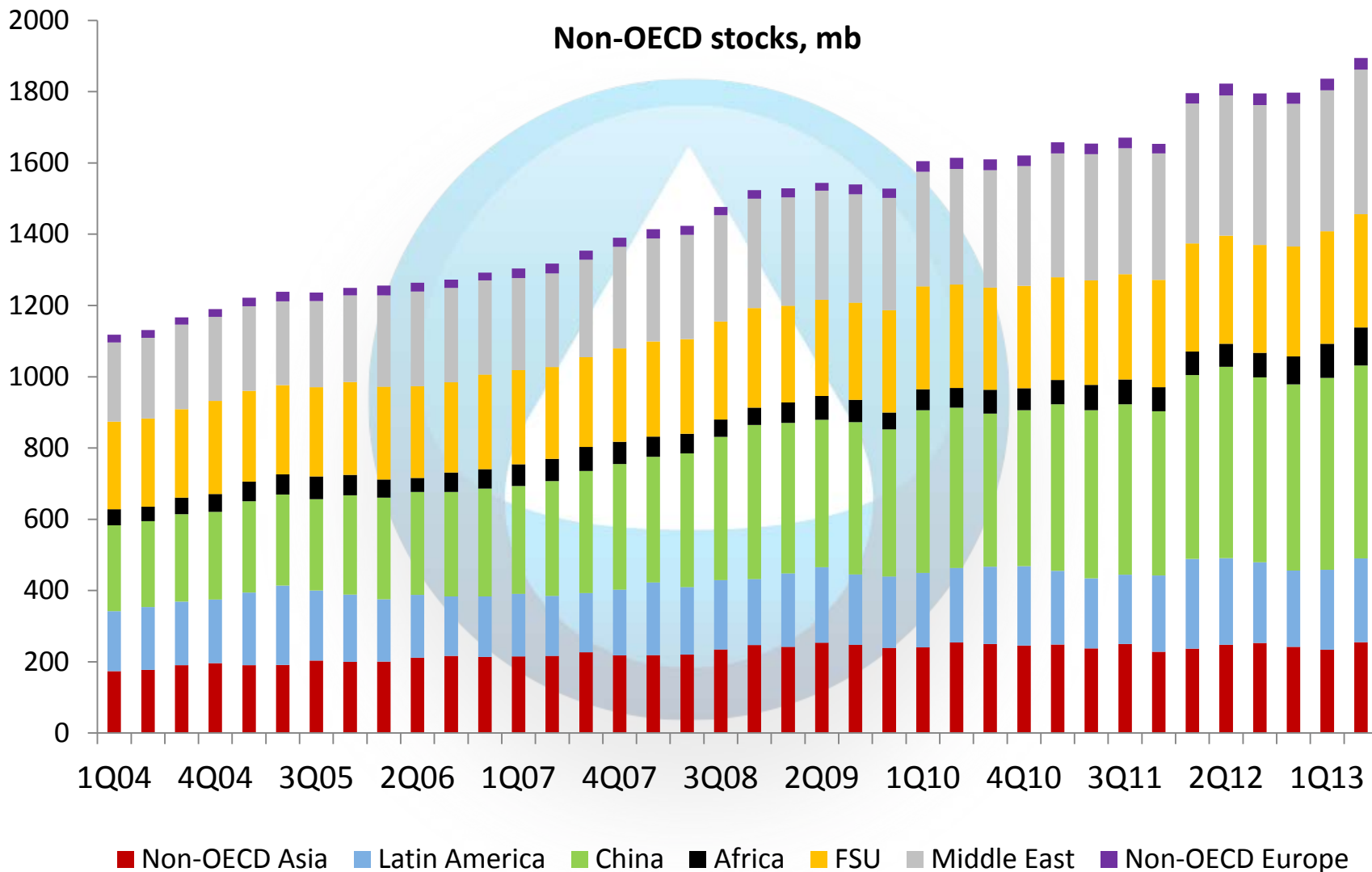
For more information on this report, please contact:
 Mr. Yuchiro TORIKATA
 Email: JodInfo@ief.org Tel.: +966 1 4810767



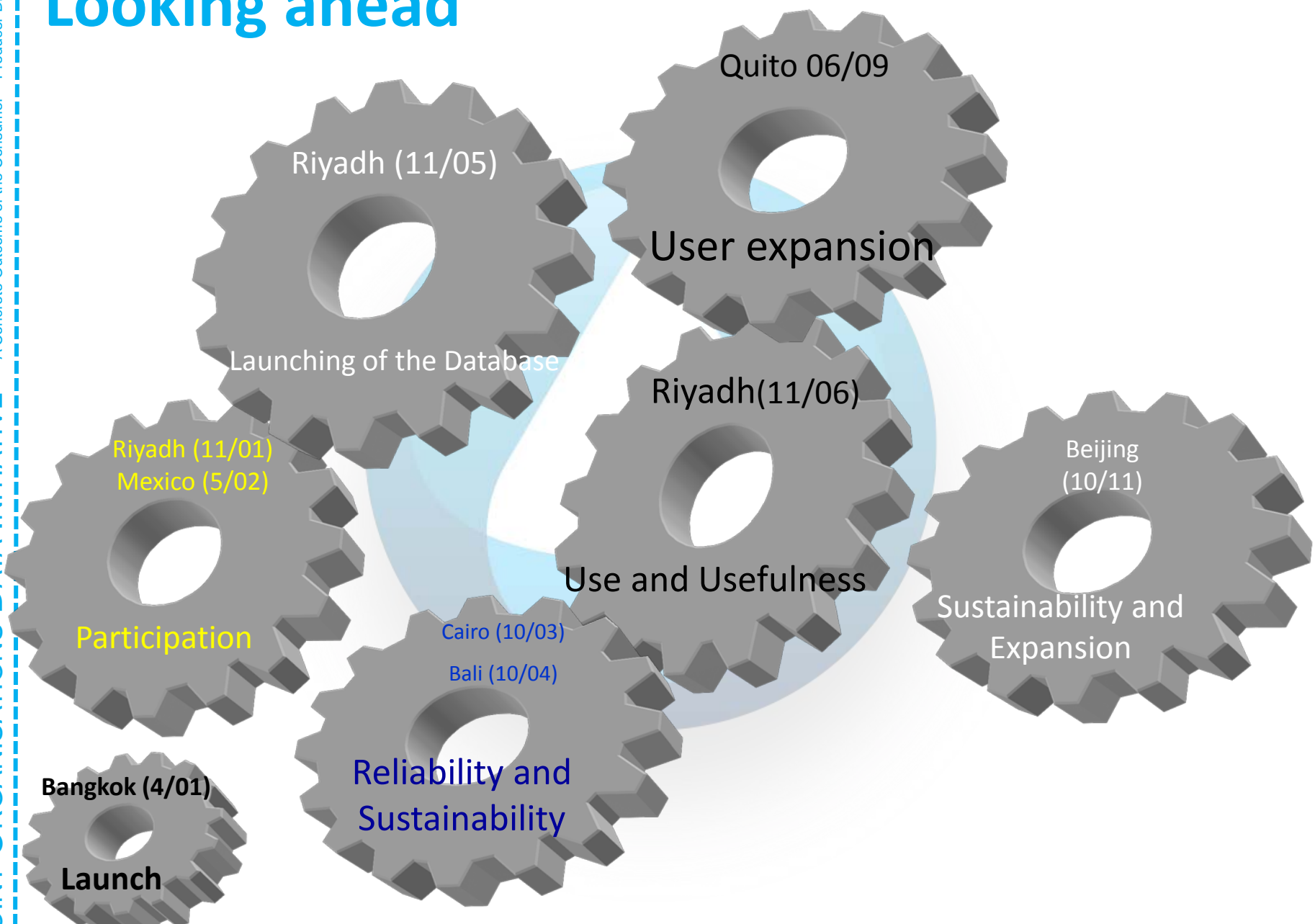
JODI main achievements

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

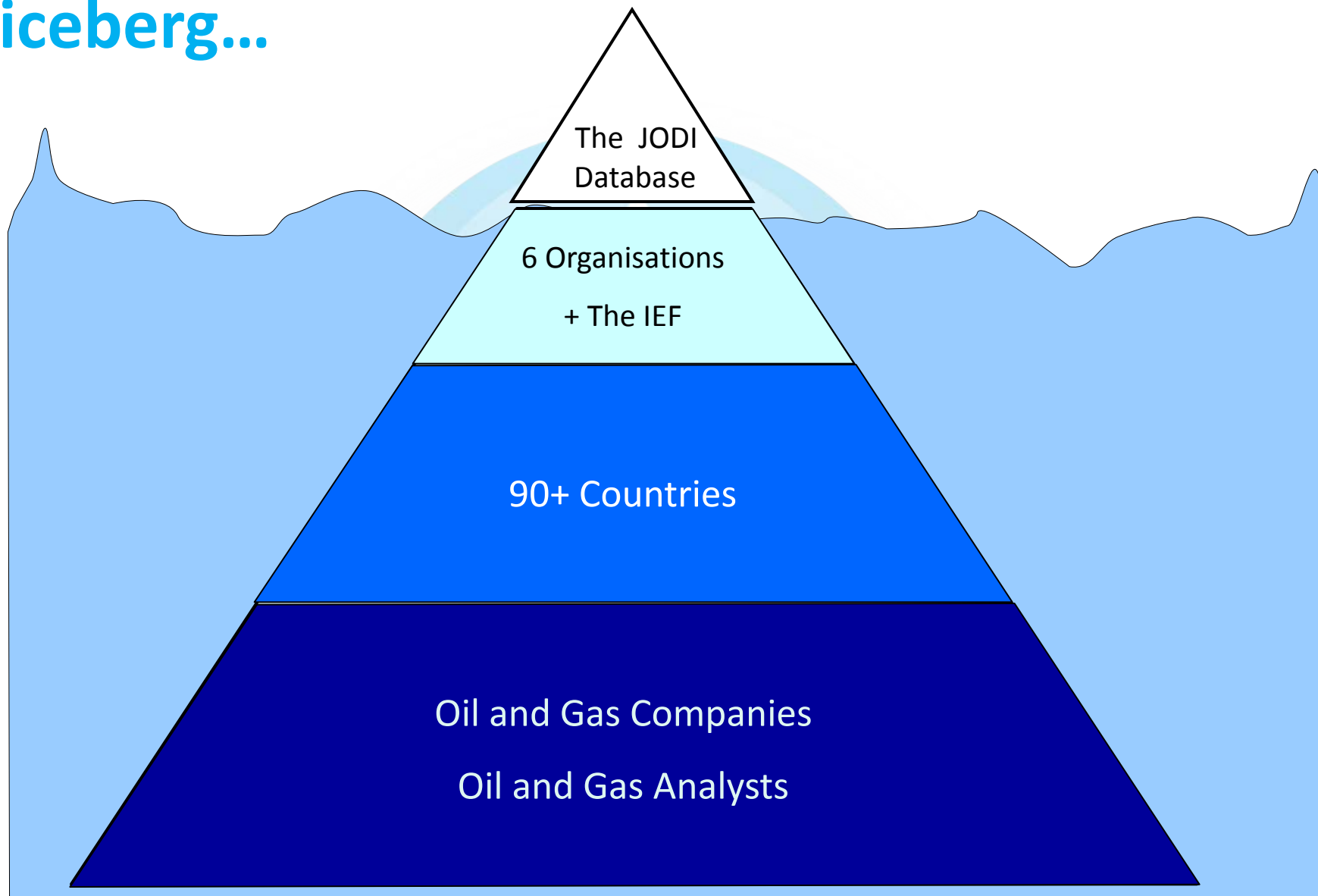
Achievements - fewer confidentiality issues



Looking ahead



The database is only the visible part of the iceberg...



Objectives for the future

- Release of JODI gas manual
- JODI natural gas work
- Promotion of the databases
- Continue to improve timeliness, coverage and quality of JODI (oil & gas) submissions
- Training workshops/internships at IEF
- Virtual training on IEF website

Still some work to do . . .

- 90 to 95% of the road has been made to have the usable, useful and used database the oil and gas 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

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

