

# 11<sup>th</sup> Regional JODI Training Workshop

23-25 March 2015, Vienna, Austria

## The Joint Organisations Data Initiative Background, Current Status and Objectives

Presented by Cristian Fetic (Eurostat)

# Summary



- What is JODI?
- What are the reasons behind this project? Why JODI?
- How did it start?
- Initial progress
- Further developments
- Looking ahead

# What is JODI?

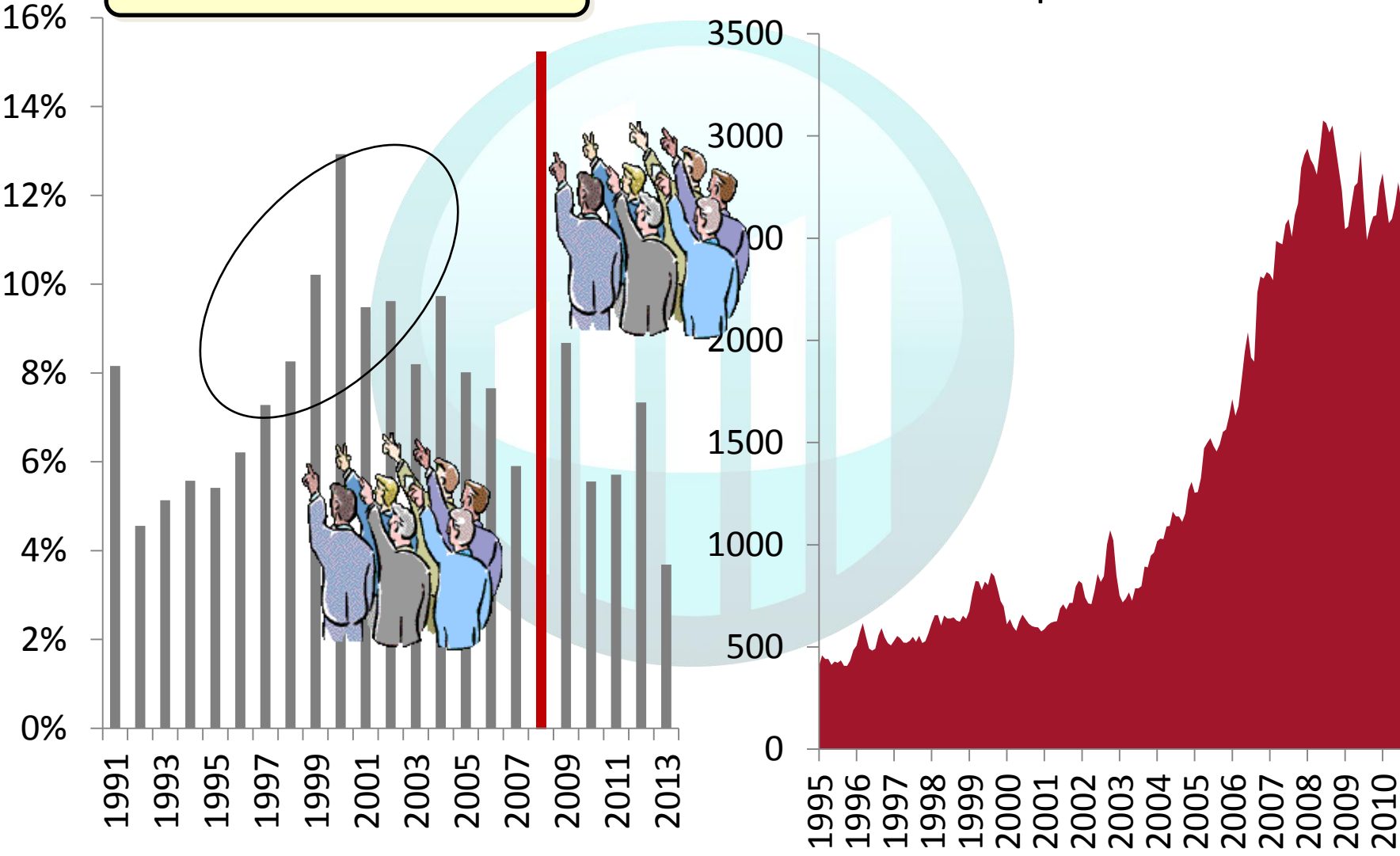


- Joint Organisations Data Initiative
- A concrete outcome of the oil and gas producer-consumer dialogue, reflected in its membership
  - 8 international organisations gathered together with the aim to improve data transparency and harmonization of methodologies
- Data collection is the first step, but JODI goes way beyond
  - Increasing cooperation and awareness on importance of reliable and timely statistics
  - Capacity building
  - ...

# Unusual volatility in oil prices...

Blame on statistics?

Open interest



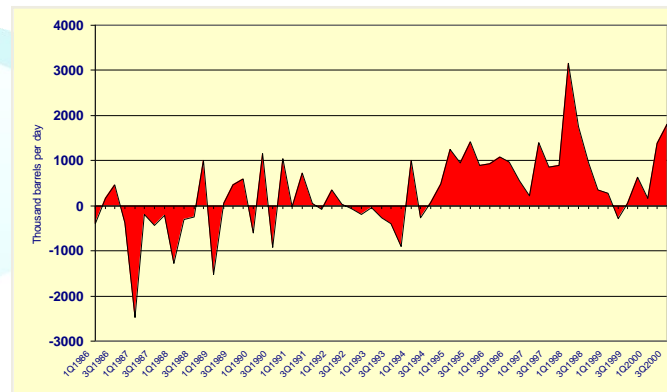
# Comments on data quality

Data vary from source to source

Mexico Oil Production

	1995	1996	1997	1998
APEC	2653	2903	3087	3134
IEA	2741	2872	3062	3109
OLADE	2722	2969	3022	3070
OPEC	2618	2858	3022	3071
UN	2834	2977	3166	3225

A widening gap between supply and demand



What is good data quality?

	A	B
Supply (million barrels per day)	83	83.1
Demand (million barrels per day)	83	82.2
Statistical Difference	0	0.9

Oil vs. other commodities

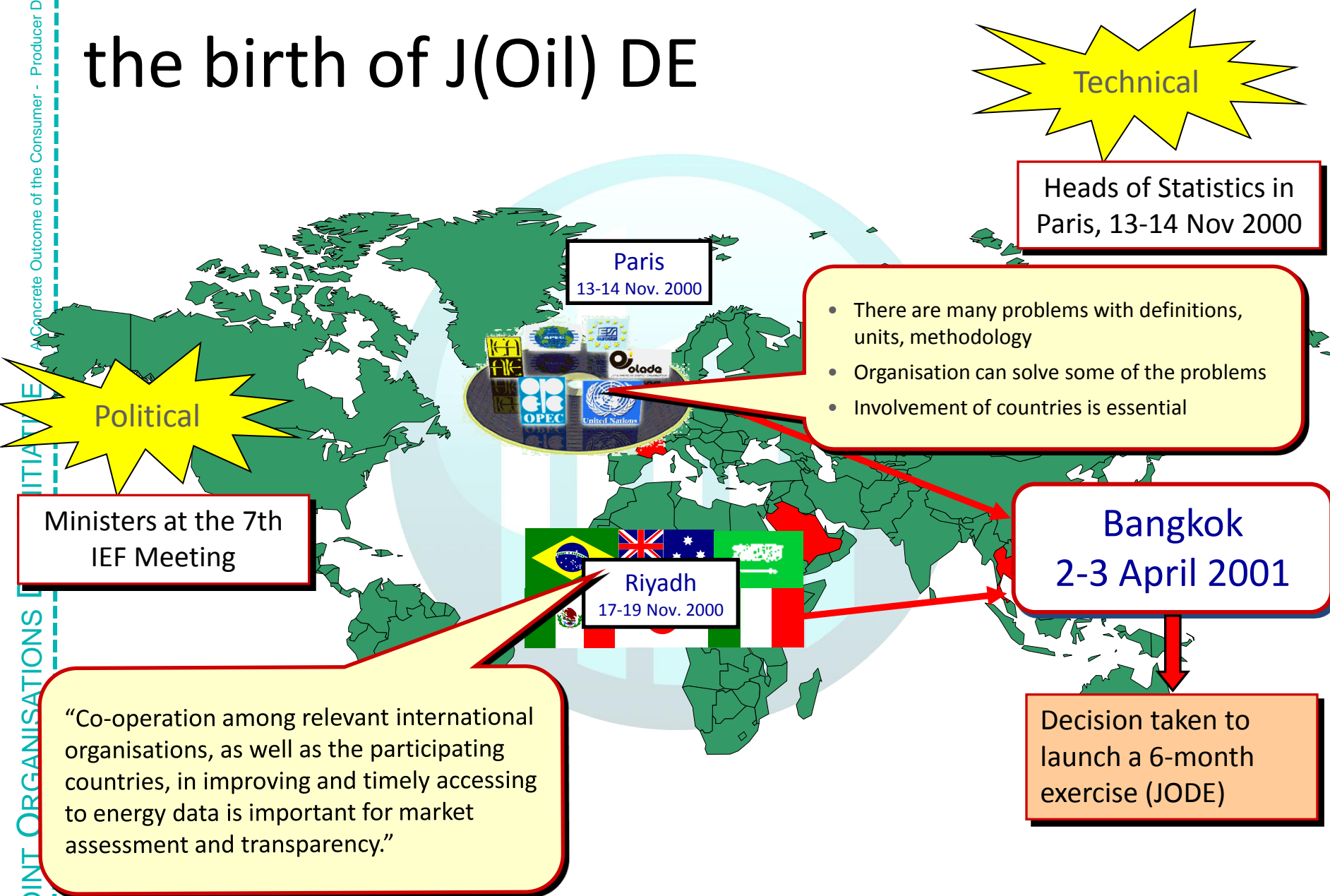
Crude Oil	1%
Sugar	3%
Grains	5%
Copper/Aluminium	10%



Is A better than B?

However, 1% is 830 000 bl/day

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



# 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: \_\_\_\_\_

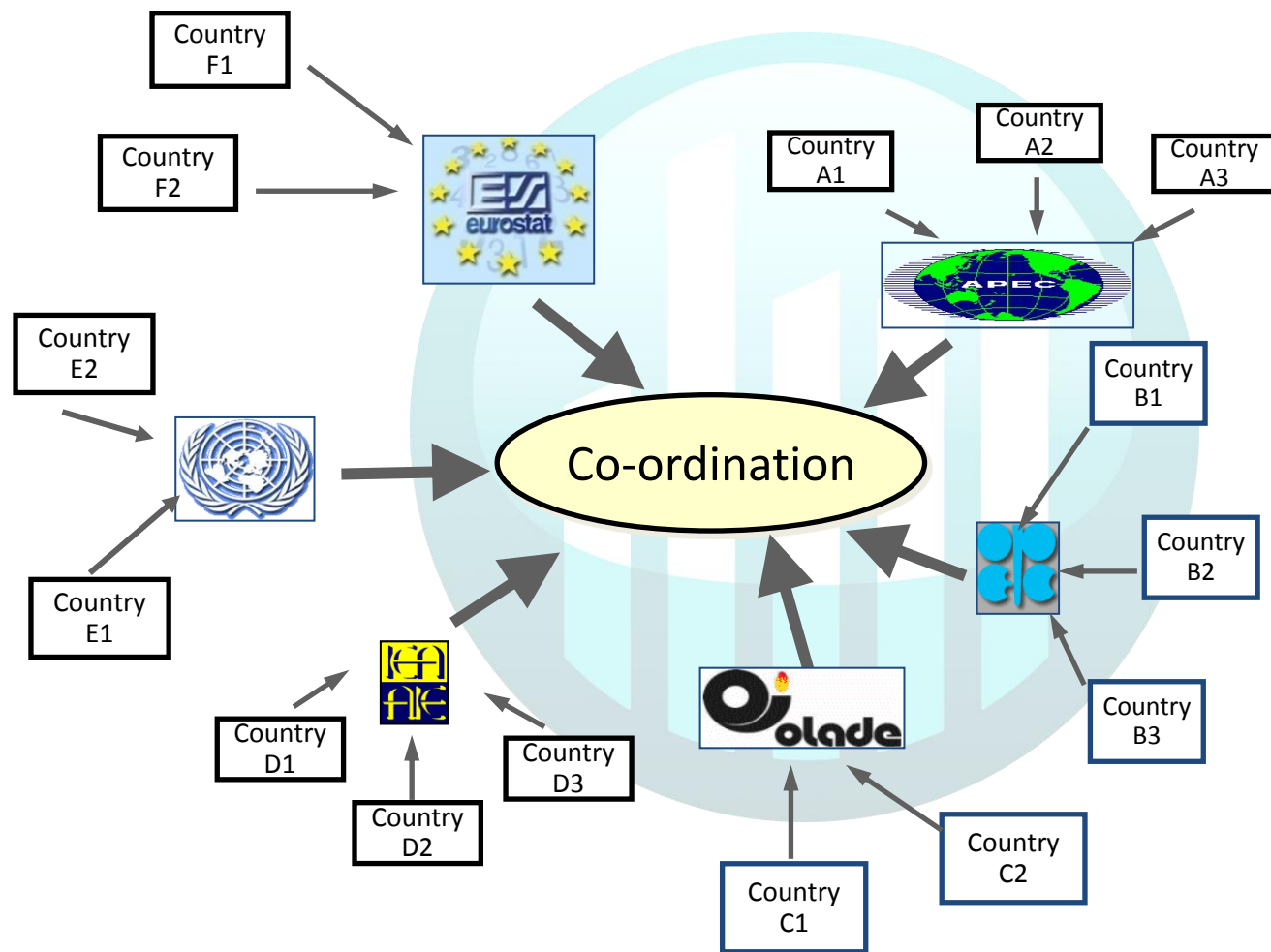
Unit: \_\_\_\_\_

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

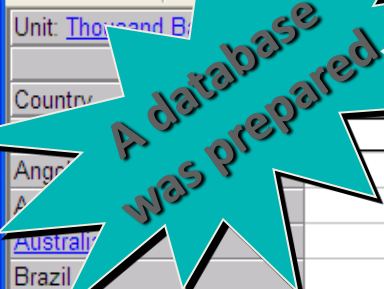
- How many countries would be able to complete the table
- How many countries would be able to submit **M-1** data
- What are the main difficulties encountered
- What solutions could be proposed



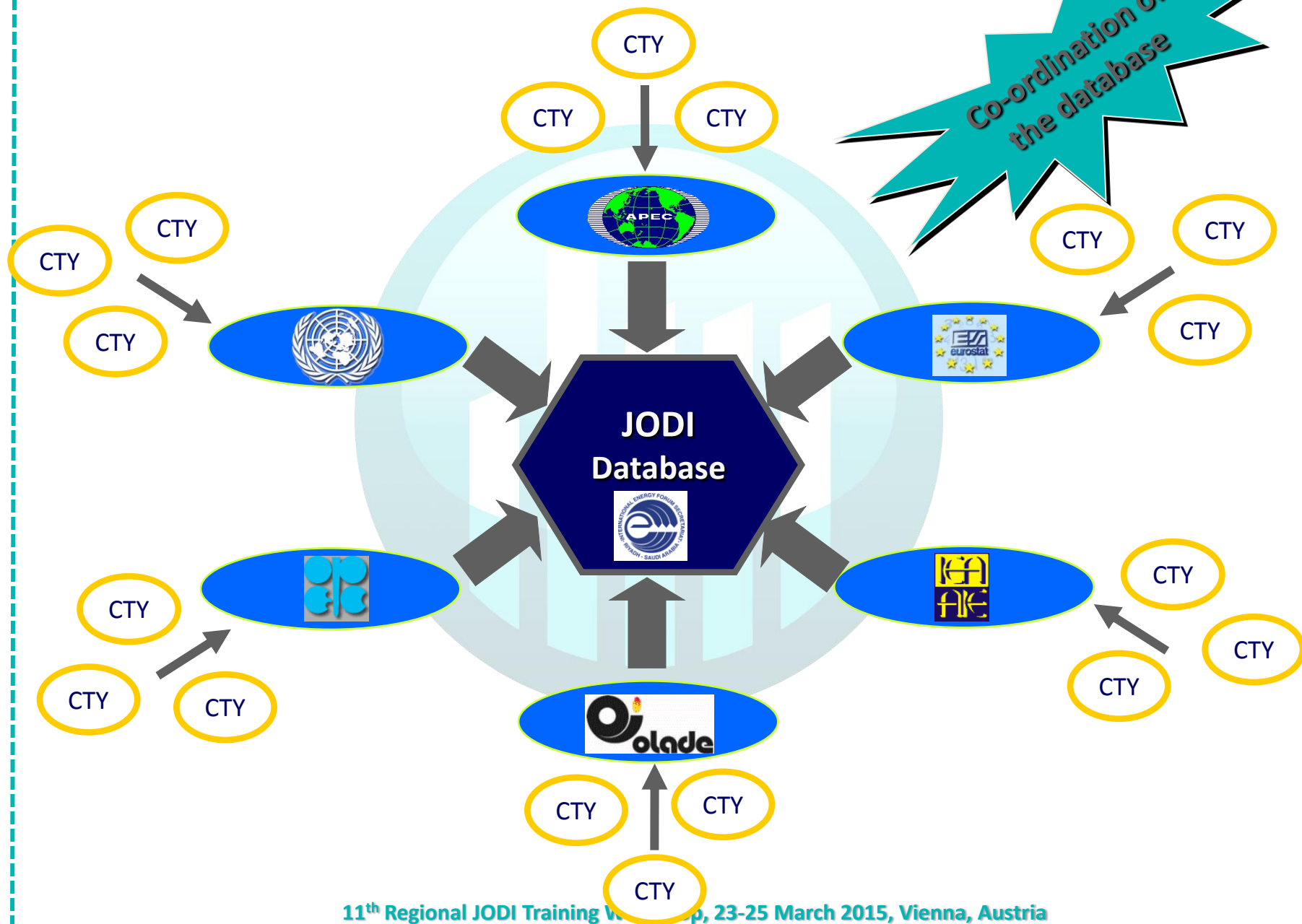
# Enormous progress/accomplishment over the first 4 years of the initiative

- Reporting mechanism at country level:
  - Establishment of a 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





# The new reporting mechanism



# Conferences provide the ground for steps ahead...

- 6<sup>th</sup> 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 : \_\_\_\_\_

					Petroleum Products										
		Crude Oil	NGL	Other	Total		LPG	Naphtha	Gasoline	Jet Kerosene	Kerosene	Gas/ Diesel Oil	Fuel Oil	Other Products	Total 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	Closing								
	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)

# And the story went on...

Release of extended DB

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

File Edit View Favorites Tools Help

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

Beyond 20/20 WEB DATA SERVER 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 China	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
Hungary	3,902	4,018	4,047	4,388	4,316								4,627	4,120
Iceland	645	1,118	533	510	630								698	0
India	71,116	61,773	67,294	70,736	68,626								64,537	67,088
Indonesia	38,037	36,270	0	37,603	36,810	0	37,820	0	35,650	36,360	37,696	34,290	31,093	0
Iran (Islamic Rep.)	33,294	37,262	35,340	35,340	35,700	37,603	38,068	36,960	43,338	35,310	36,288		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	4,762	5,241		5,241	
Italy	59,715	52,889	57,379	58,602	54,046	58,187	52,416	51,878	56,338	52,416	51,878	56,338	52,416	51,878
Jamaica	1,188	1,123	995	1,170	1,204	124	1,145	1,145	0					0
Japan	160,497	166,360	151,021	161,008	158,607	187,922	183,288	177,169	189,948	183,288	177,169	189,948	183,288	177,169
Kazakhstan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Korea	61,557	65,631	64,743	69,214	69,713	78,656	78,321	67,656	78,360	67,478	63,631	61,557	61,557	65,600
Kuwait	10,230	11,067	8,640	8,928	7,710	8,029	6,820	6,272	7,440	7,620	9,435	10,230	11,377	12,183
Latvia	704	837	829	1,048	1,024	1,384	1,196	1,298	1,243	1,353	1,196	1,181	1,134	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

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

Released at the IEF Ministerial in Kuwait March 2012

Done Local intranet

# From J(Oil)DI to J(Organisations)DI

- 10<sup>th</sup> IEF meeting (2006)
  - Calls for extending JODI to other fuels
- 11<sup>th</sup> IEF meeting (2008)
- Feasibility study for extending JODI to include monthly natural gas data (2009)
- G20 summit (2009)
- JODI gas exercise launched
- 7<sup>th</sup> international JODI conference (2009)
  - “...JODI organisations 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... “

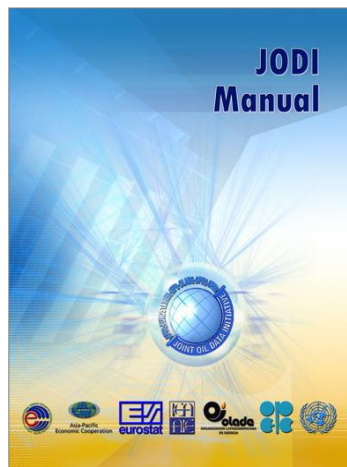
# JODI & natural gas...



- 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 2014
  - Start a preliminary gas data collection exercise; beta version of database assessed
- 12<sup>th</sup> IEF meeting (2010)
- G20 summit (2011)
- 13<sup>th</sup> IEF meeting (2012)
  - JODI gas exercise becomes a permanent initiative
- JODI gas conferences/trainings/manual
- 14<sup>th</sup> IEF meeting (2014)
  - GECF became an official partner of the Joint Organisations Data Initiative (JODI-Gas)
  - Launch of JODI gas database to public



# Training and capacity building



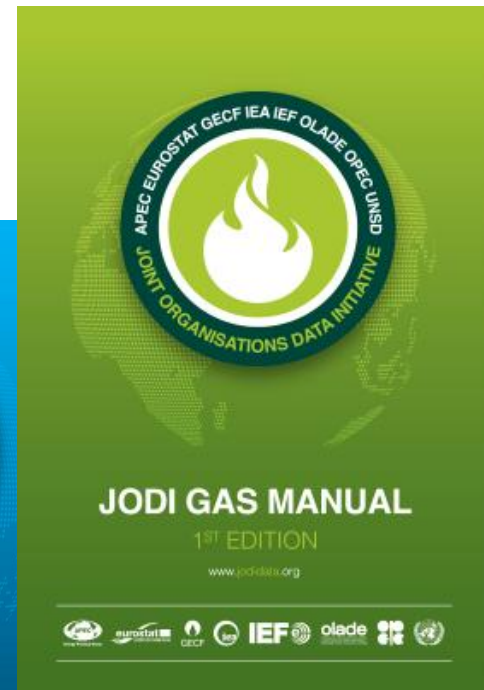
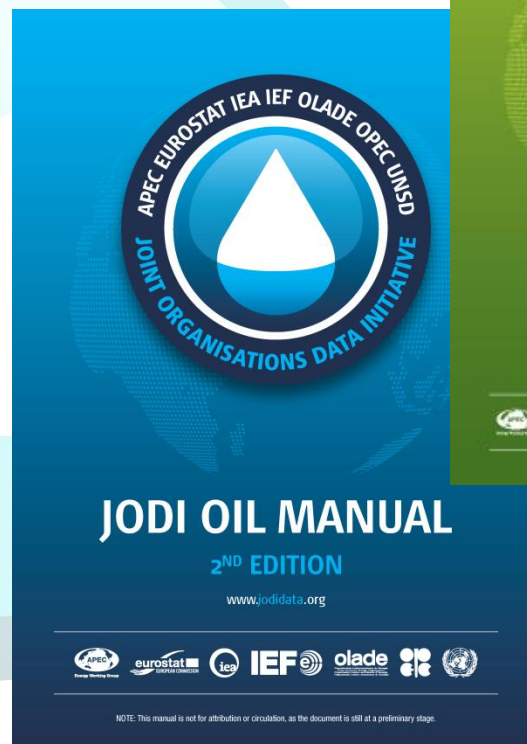
English



Spanish

Russian

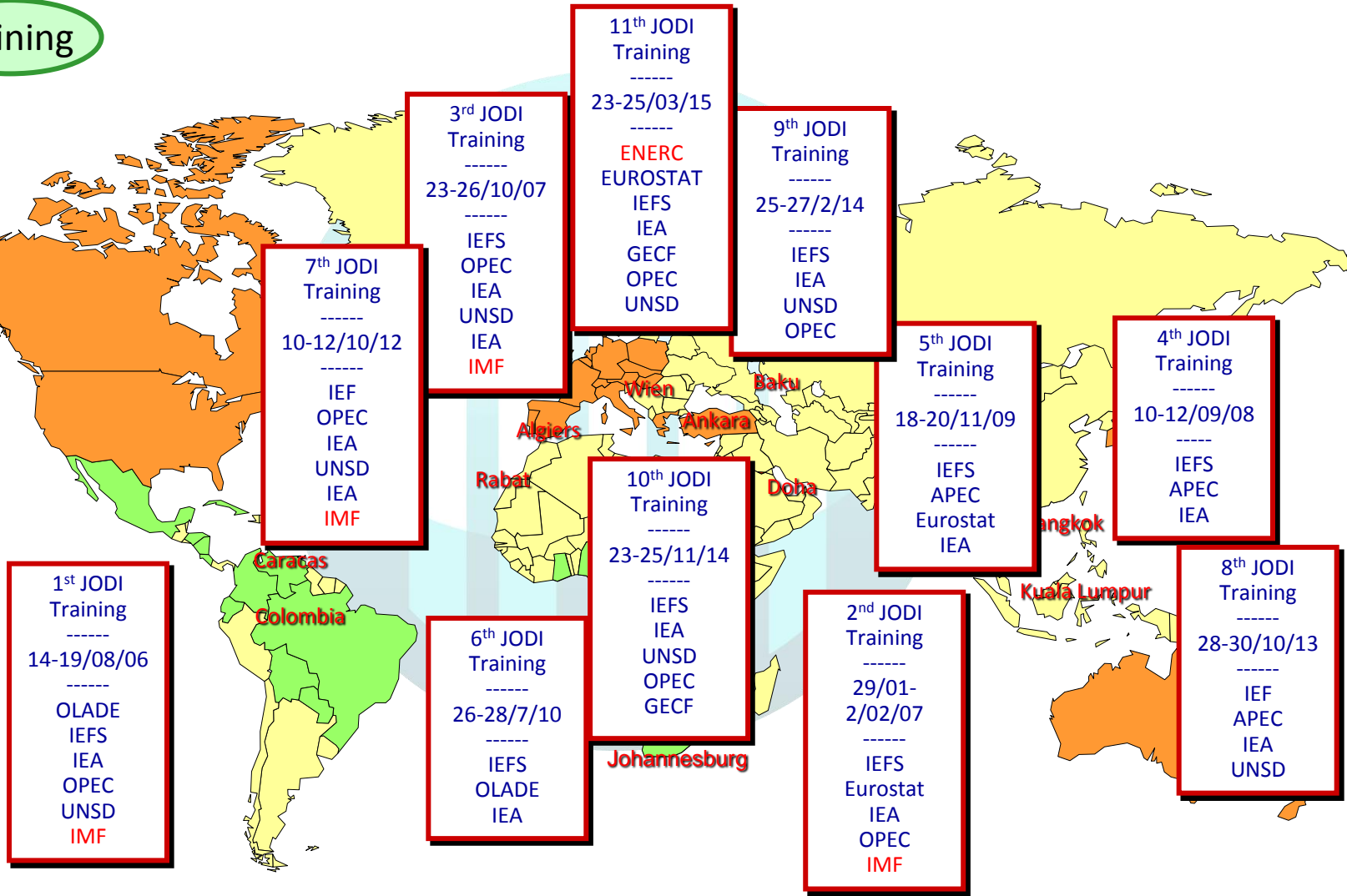
Chinese





# Ten JODI training sessions have been organised since 2006... N°11 is ongoing

Training



# JODI Training



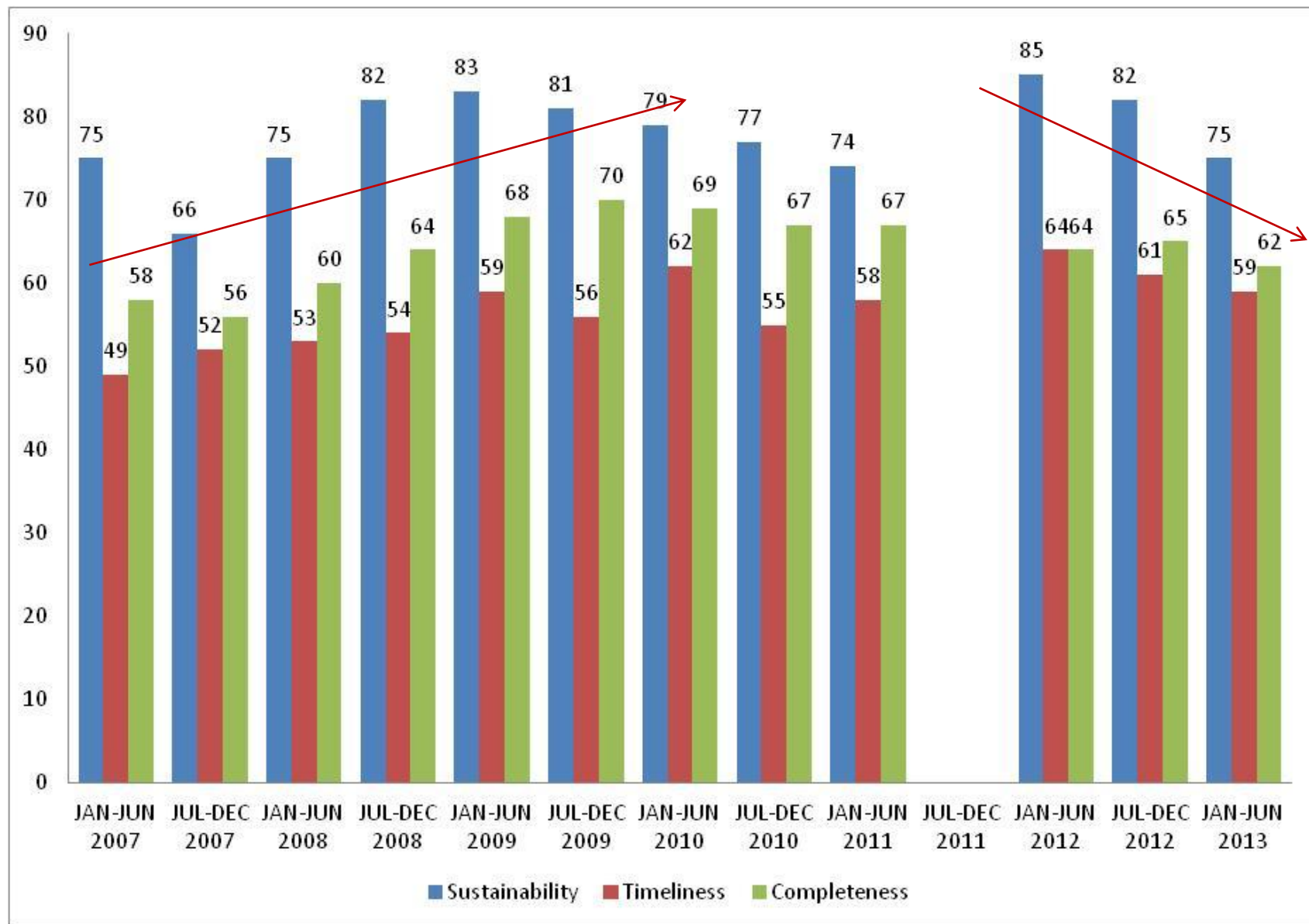
- To help the participating countries to report **better quality data** in the JODI questionnaire
- It offers participants an opportunity to get **clarifications** about the definitions, data quality assessment and other data related issues
- To **share their experience** on data validation best practices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

# 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 deadline, even 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

## JODI-Oil Participation Assessment for the period January - June 2014



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



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

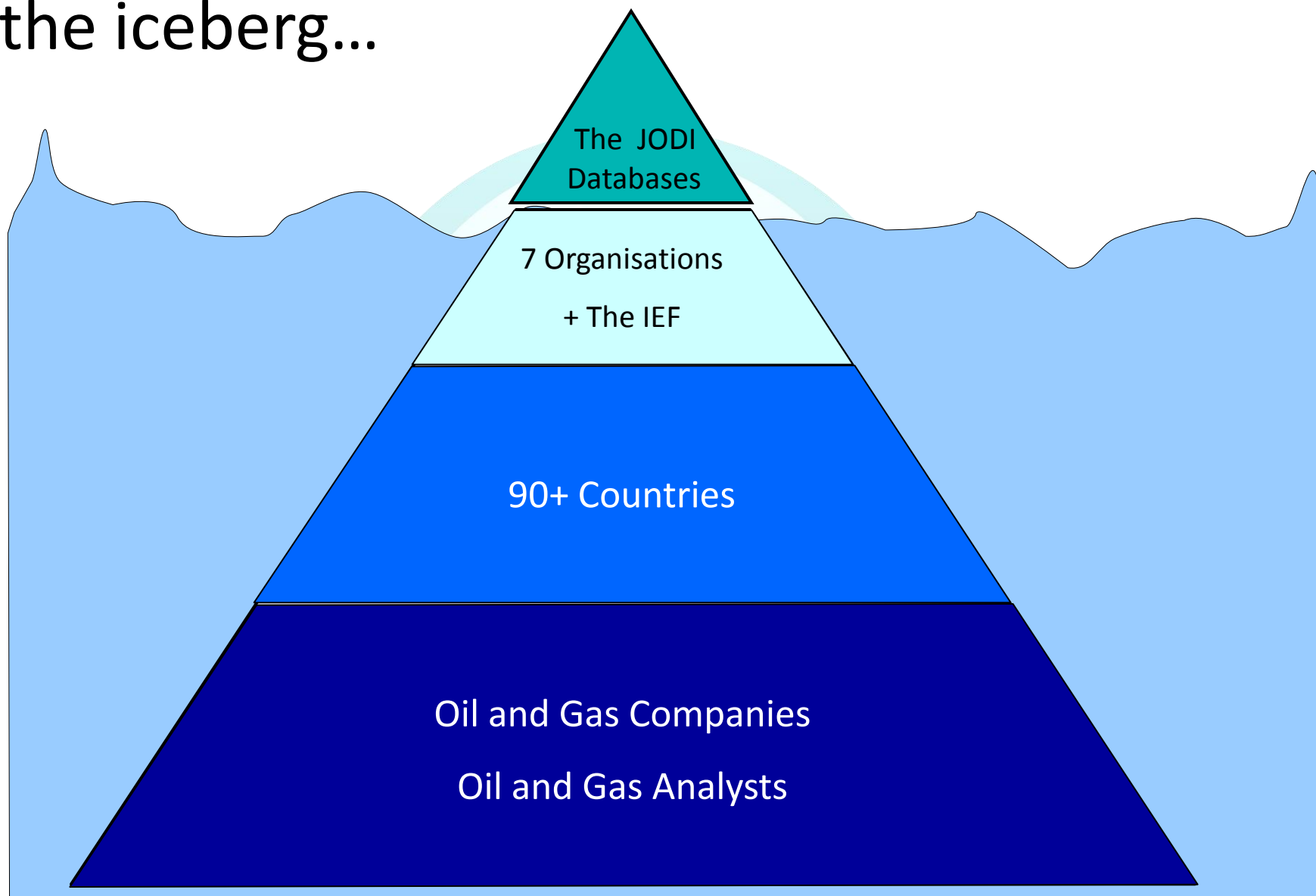
😊😊😊 Sustainability (of submission)      😊😊😊 Timeliness      😊😊😊 Completeness  
 😊 Good   😊 Fair   😊 Poor  
 Not assessable (n.a.) is applied when a country or economy did not submit JODI-Oil questionnaire data during the assessment period nor during the six months prior to the period.

# 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

# The databases are only the visible part of the iceberg...





# 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

# Objectives for the future

- 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



# 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](http://www.jodidata.org)**

