

8th International JODI Conference

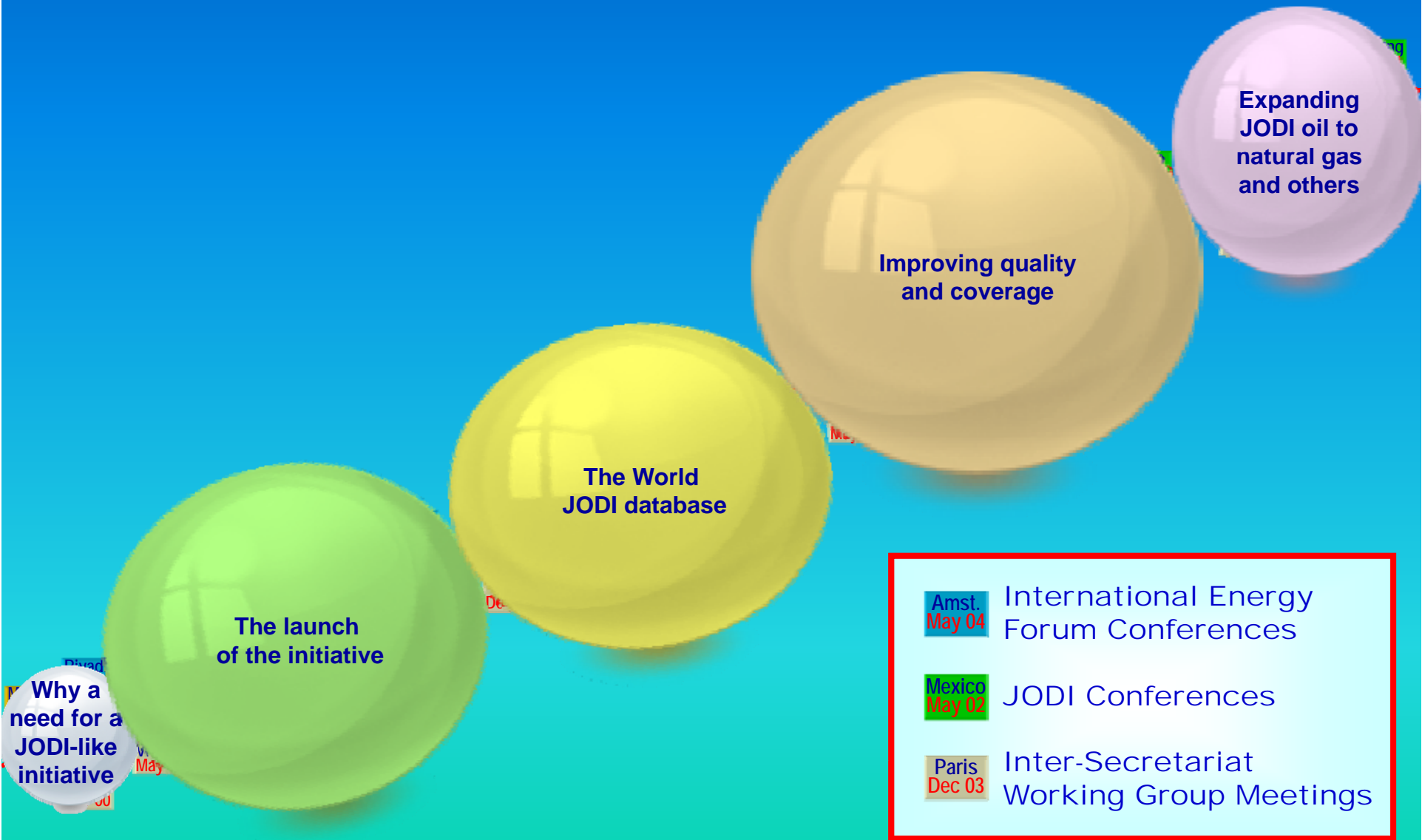
10-11th October 2011, Beijing, China

Ten Years of JODI Presentations



Jean-Yves Garnier
Head, Energy Statistics Division
International Energy Agency

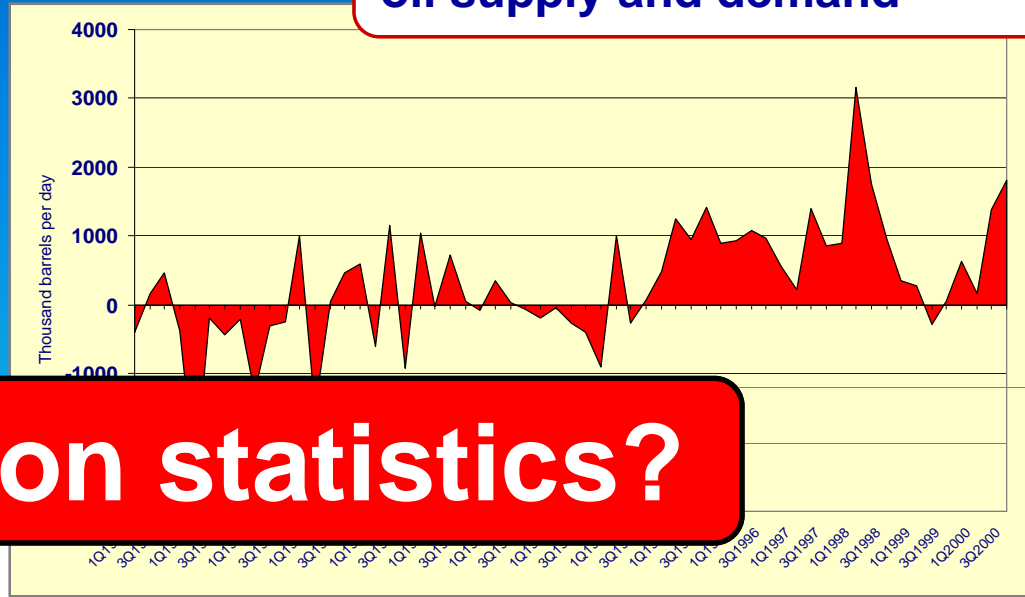
10 Years of Commitment and Hard Work



Why a need for a JODI-like initiative

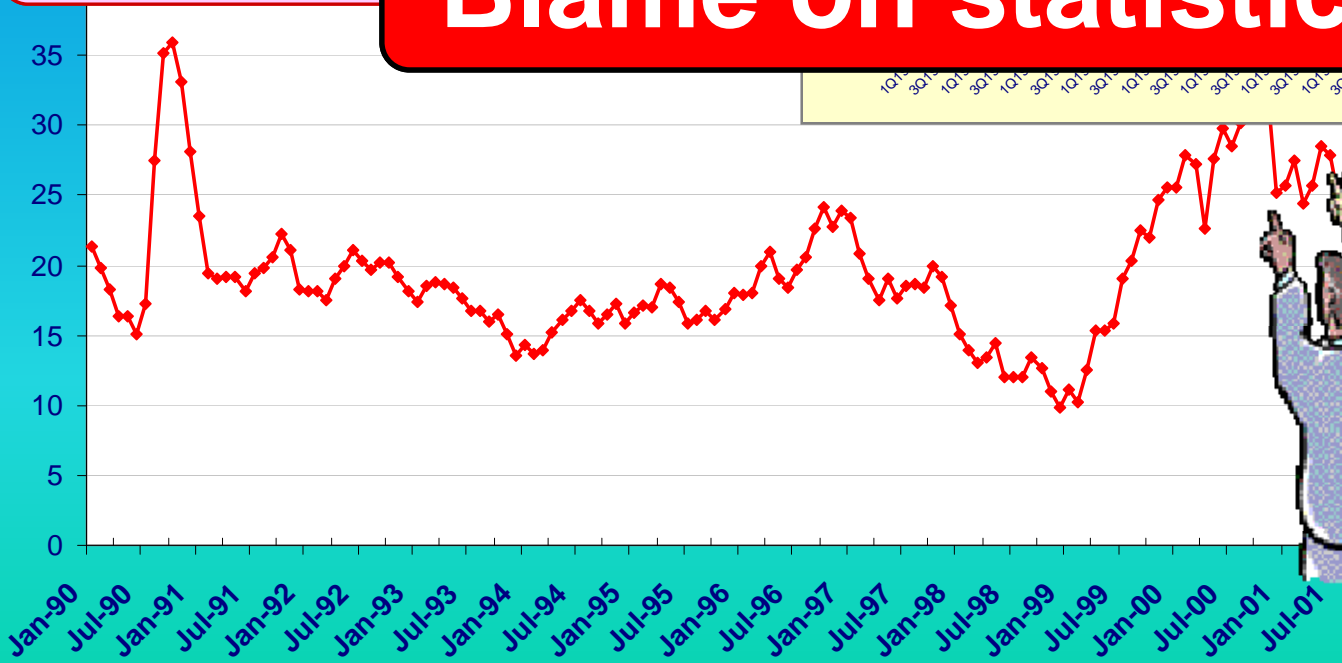
How everything started

Widening gap between global oil supply and demand



Unusually high volatility of oil prices at the end

Blame on statistics?



Why a need for a JODI-like initiative
































Madrid, 14-15 July 2000

World Oil Market Data

“Better Data for Better Markets”

Oil Demand

Crude Oil and NGL Production

	Share(%)	OPEC	APEC	OECD		Share(%)	OPEC	APEC	OLADE	OECD
	Saudi Arabia	12.4	✓			Brazil	2.6		✓	
	Russia	8.8		✓		Saudi Arabia	1.7	✓		
	Iran	5.1	✓			Iran	1.4	✓		
	Venezuela	4.7	✓			Indonesia	1.3	✓	✓	
	China	4.6		✓		Chinese Taipei	1.1		✓	
	Iraq	3.6	✓			Thailand	0.9		✓	
	UAE	2.9	✓			Singapore	0.8		✓	
	Nigeria	2.9	✓			Egypt	0.8			
	Kuwait	2.8	✓			Venezuela	0.7	✓		✓
	Libya	1.9	✓			Malaysia	0.7		✓	
	Indonesia	1.8	✓	✓		Argentina	0.6			✓
	Algeria	1.7	✓			South Africa	0.6			
	Oman	1.3				Iraq	0.6	✓		
	Qatar	0.9	✓			Pakistan	0.5			
	Kazakhstan	0.9				Ukraine	0.5			
	OECD	28.6								✓
	Total	90.3								

Positive response from participants to a proposal to gather international organisations to discuss oil data issues

Why a need for a JODI-like initiative

The conjunction of both political and technical concerns paved the way for the Bangkok meeting

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

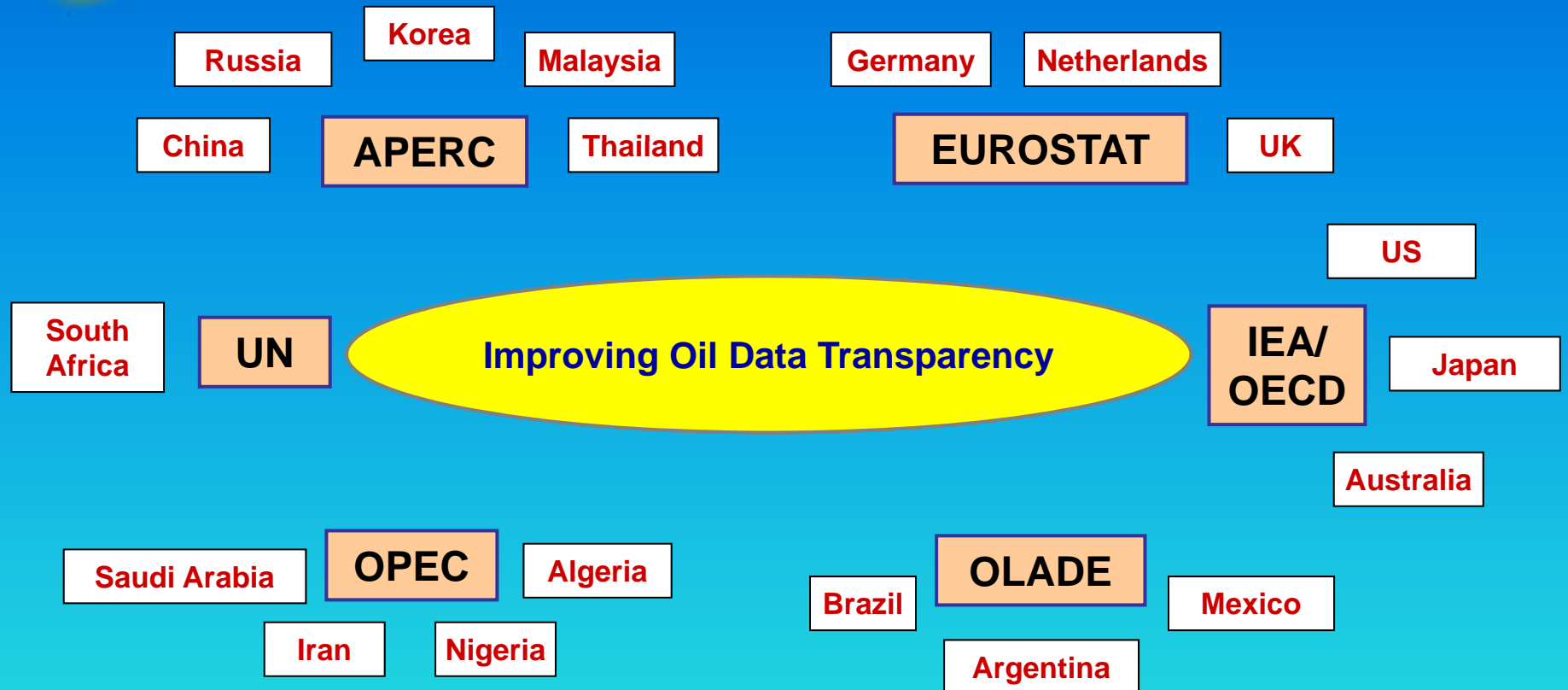
Bangkok
2-3 April 2001

“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.”



The launch of the initiative

Bangkok, 2-3 April 2001



**Agreement to launch a six-month joint oil data exercise.
JODE which later became JODI was born.**

How to go about it?

The launch of the initiative

Countries and Organisations decided to keep the Exercise as simple as possible

JOINT APERC/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 and Month -2	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil	Crude Oil
Imports		Imports	Imports	Imports	Imports	Imports	Imports	Imports	Imports
Exports		Exports	Exports	Exports	Exports	Exports	Exports	Exports	Exports
Stocks	Closing Change	Stocks	Stocks	Stocks	Stocks	Stocks	Stocks	Stocks	Stocks
Refinery Intake		Demand	Demand	Demand	Demand	Demand	Demand	Demand	Demand

Choice of units left to organisations

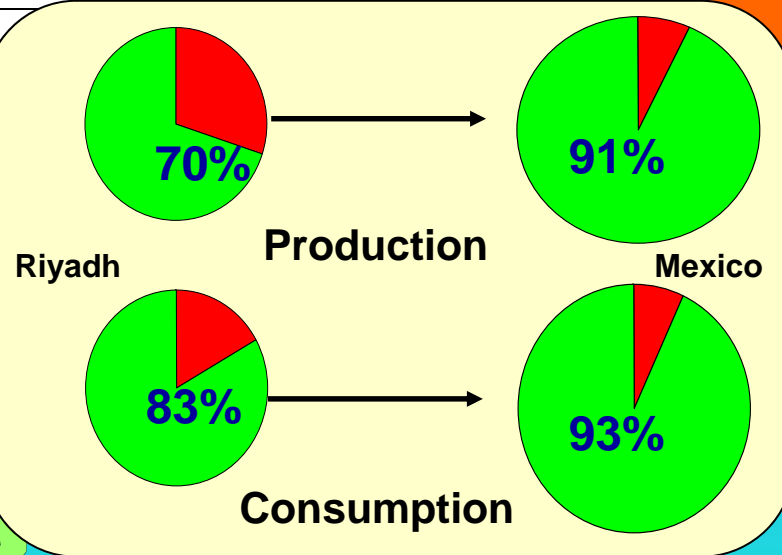
Simple Definitions

The launch of the initiative

The interest in participating in JODE grew very quickly. Within one year participation went from a few percents to over 90%.

ALGERIA	CHINESE TAIPEI	GREECE	KUWAIT	PHILIPPINES	THAILAND
ANGOLA	COLOMBIA	HONDURAS	LIBYA	POLAND	TURKEY
ARGENTINA	COSTA RICA	HONG KONG	LUXEMBOURG	PORTUGAL	UNITED KINGDOM
AUSTRALIA	CZECH REPUBLIC	HUNGARY	MALAYSIA	QATAR	UNITED STATES
AUSTRIA	DENMARK	ICELAND	MEXICO	RUSSIA	URUGUAY
BELGIUM	DOM. REPUBLIC	INDIA	NETHERLANDS	SAUDI ARABIA	YEMEN
BOLIVIA	ECUADOR	INDONESIA	NEW ZEALAND	SLOVAKIA	
BRAZIL	EGYPT	IRAN	NIGERIA	SOUTH AFRICA	
BRUNEI DARUSSALAM	FINLAND	IRELAND	NORWAY	SPAIN	
CANADA	FRANCE	ITALY	PAPUA NEW GUINEA	SWEDEN	
CHILE	GABON	JAPAN	PARAGUAY	SWITZERLAND	
CHINA	GERMANY	KOREA	PERU	SYRIA	

70 participating countries as of May 2002



The initial 90% target was met



- APEC 20/21
- OECD 26/30

JODE became JODI. And organisations were under strong pressure to build a database and to open it widely...

The World
JODI
database

And what now?



Pros and Cons of Releasing the JODI World Database

- ➡ The data base will not stay as a mere answer to the Minister's call of the 7th, 8th and 9th IEF
- ➡ The quality is not necessarily there – we are uncertain about the data base of the participating countries launched in 2001 so it has now been running for three years – it is time that the results are visible
- ➡ We can update for some countries are not on a regular enough basis
- ➡ It will promote and create publicity for the project
- ➡ The critics will shoot the project down immediately if the quality is not high enough
- ➡ The missing and low quality data will incite those countries to improve timelines and accuracy of the data they submit, if they know it will be publicly available
- ➡ It is a technical perspective that the participating countries database with Beyond 20/20 – if it is taken over by the IEFS, will increase publicity around the JODI, for the users largely interested therefore may be new participation
- ➡ very good if a change is made after six months

The World
JODI
database



**The decision was taken to release the database: On 19 November 2005,
King Abdullah launched the JODI Database in front of 70 Ministers**

The World
JODI
database

The JODI database

Not only data points but also some indication on data quality

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

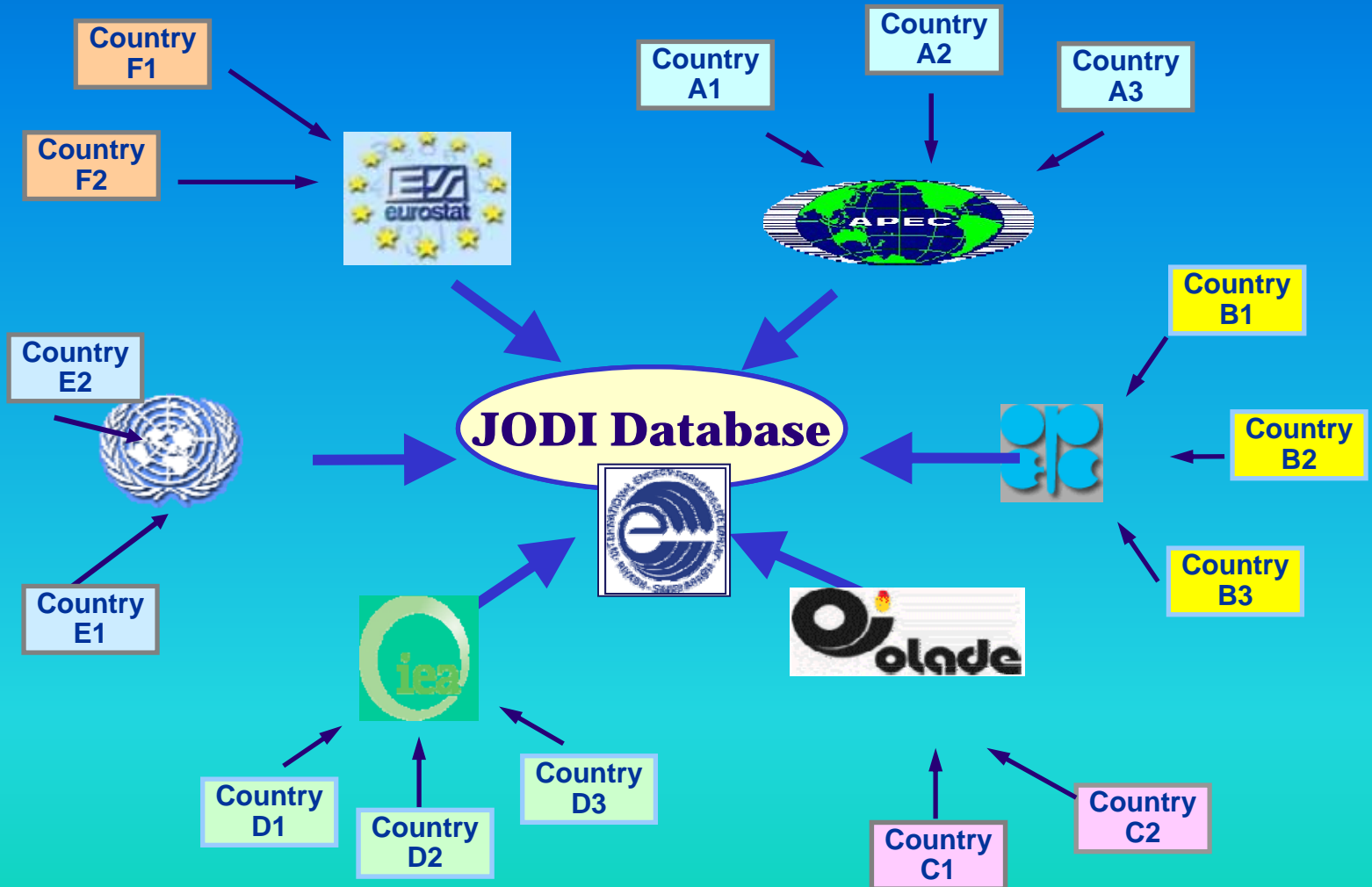
Actions

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 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	4,482	3,750	3,518	4,105	4,120	4,526	4,279	4,887	4,120	
Iceland	645	1,118	533	510	630	105	653	345	615	263	548	518	696	0	
India	71,116	61,773	67,294	70,736	66,026	76,437	71,314	67,096	77,376	65,649	70,127	68,086	64,537	67,088	
Indonesia	38,037	36,270	0	37,600	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	36,828	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	69,713	78,656	78,321	67,656	78,360	67,477	63,426	64,135	61,557	65,600	
Kuwait	10,230	11,067	8,640	8,928	7,710	8,029	6,926	6,272	7,440	7,620	9,486	10,560	11,377	12,183	
Latvia	704	837	829	1,048	1,024	1,386	1,196	1,298	1,243	1,353	1,306	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	1,535	1,548	1,736	1,689	1,775	1,767	1,814	1,986	

Done Local intranet

The World
JODI
database

2005: A pivotal year with the arrival of the IEF Secretariat as a coordinator for the initiative



Improving quality and coverage

Performance assessment and educative tools

Assessment of Participation in JODI

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

⊗⊗⊗ Submission
 ⊗⊗⊗ Timeliness
 ⊗⊗⊗ Completeness
 ⊗ Good ⊗ Fair ⊗ Poor
 Not available (n.a.) when no submission from January 2010 to December 2010

Assessment for the period July-December 2010

JodiData.org



Performance assessment and educative tools

Improving quality and coverage



2009 Programme of Training
October 2009, hosted by Turkey

3rd Training for MENA countries
23-26 October 2007 in Algiers

4th JODI Training

2008

IEFS
APEC
IEA
OPEC
IMF

1st JODI Training

14-19/08/06

OLADE
IEFS
IEA
OPEC
UNSD
IMF

2010 Programme of Training
July, hosted by Columbia

2nd JODI Training

29/01-2/02/07

IEFS
Eurostat
IEA
OPEC
IMF

2009 Programme of Training
December 2009

APEC++



Internship also available

Expanding
JODI oil to
natural gas
and others

A triple development



FAO has recently
adopted the JODI
approach for a
database on cereals
(AMIS)

Joint Oil Data Initiative



Organisations: APEC, Eurostat, IEF, IEA, OLADE,
OPEC, UNSD, (GECF for gas)

Expanding
JODI oil to
natural gas
and others

Moving to an extended questionnaire

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

NGL
Naphtha
Product transfers
Statistical Difference

Country _____

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						Product Transfers							
Direct Use						Inter-Product Transfers							
Stocks	Closing					Stocks							
	Change					Change							
Statistical Difference						Statistical Difference							
Refinery Intake						Demand							

Other = Refinery Feedstocks+ Additives + Other Hydrocarbons

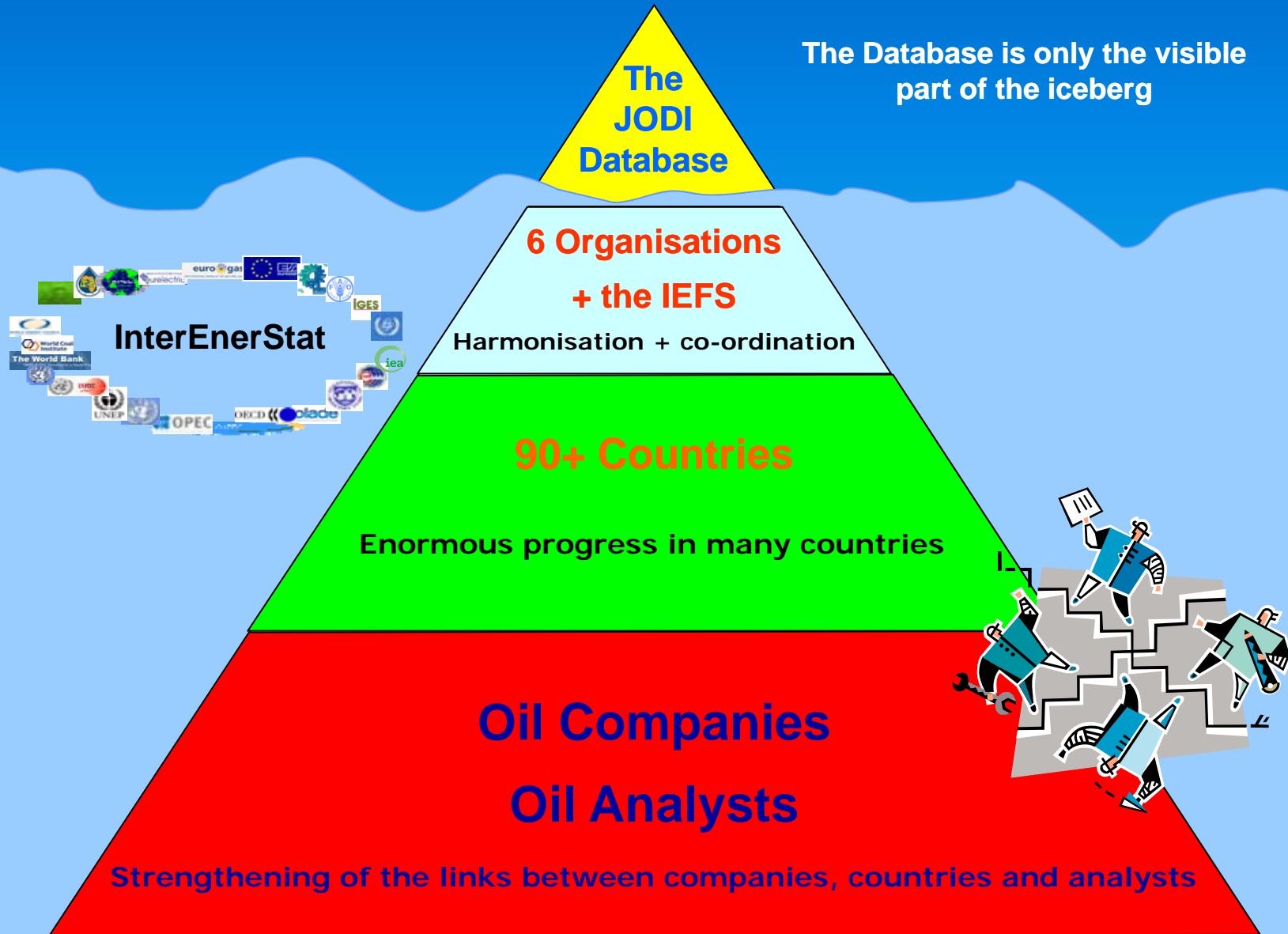
Receipts = Primary Product Receipts + Recycled Products

Other Products= Refinery gas + Ethane + Petroleum Coke + Lubricants + White Spirit + Bitumen + Paraffin Waxes + Other Petroleum Products

Total = 128 cells or 86 new cells

= New Cells

JODI is much more than a database



So, yes, we can all be proud of what we have achieved so far in increasing transparency, developing cooperation and strengthening the producer-consumer dialogue





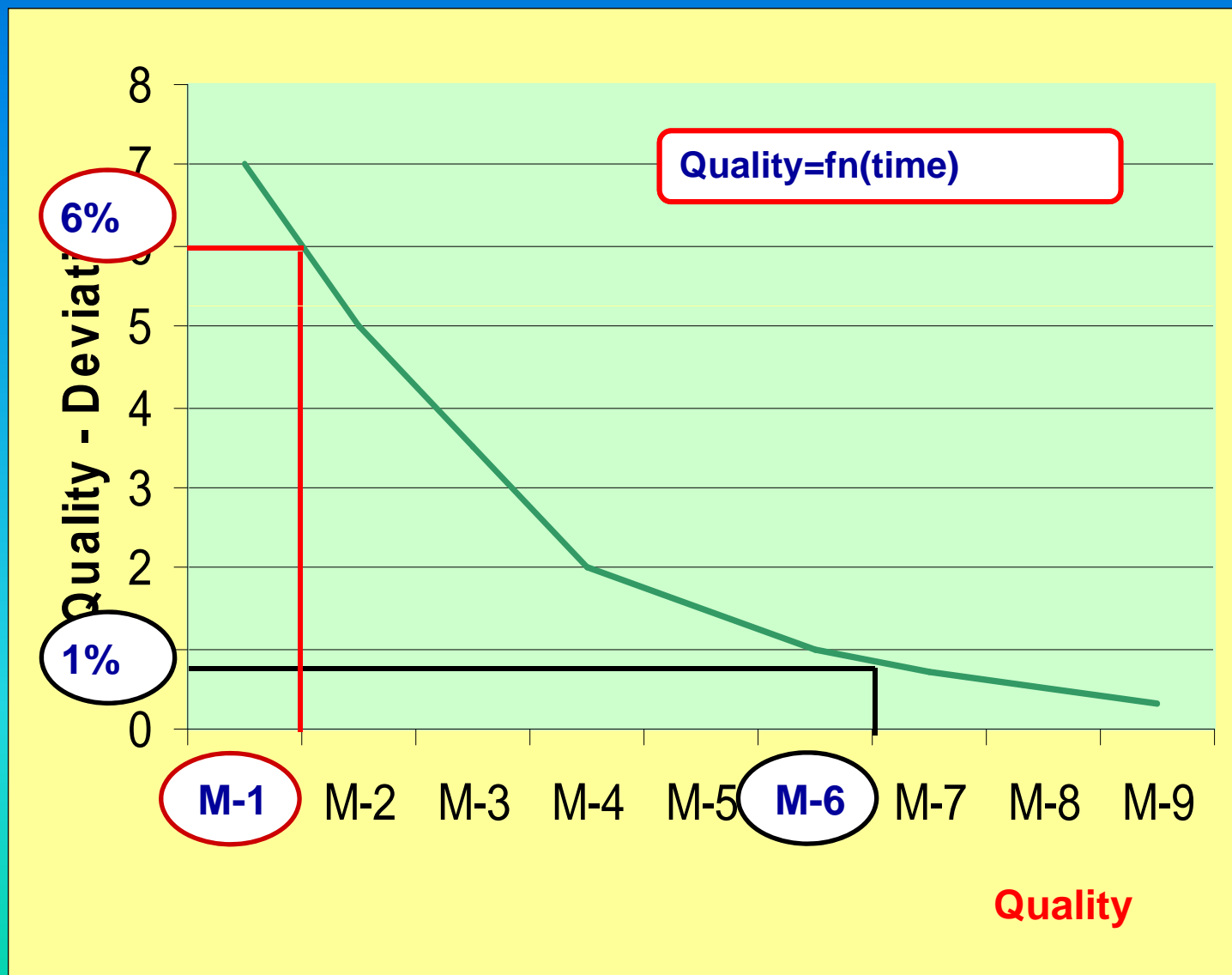
But there are remaining issues...

	No major problems
	Delays
	Confidentiality

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



The timeliness vs. quality issue

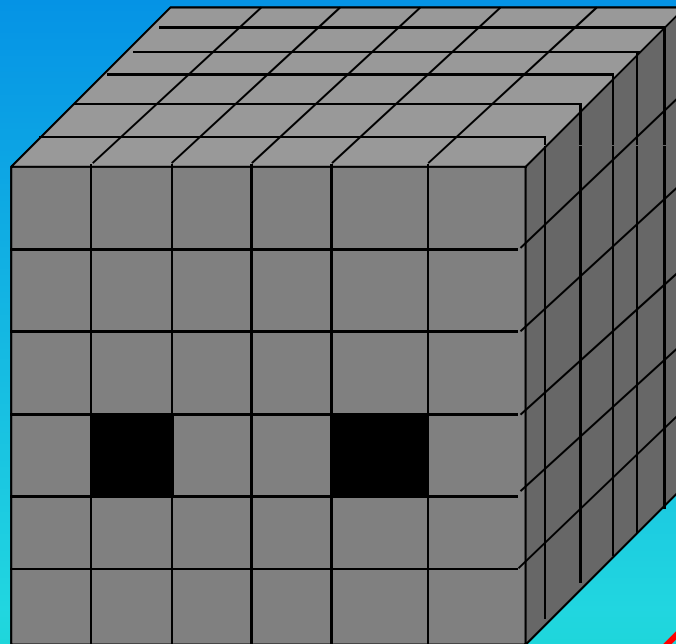




Transparency:

JODI will have achieved full transparency only if all Flows and Products are reported by all Countries

flows



countries

products

95+ countries now in a position to report M-2 oil statistics compared to only 40 10 years ago

70 countries now in a position to report M-1 oil statistics compared to less than 10 10 years ago

Transparency has improved

Definitions of flows and products have been internationally harmonised

Several organisations have harmonised their annual questionnaires

Cooperation between organisations have been strengthened

The profile of energy statistics and statisticians has been raised

There is still volatility but blame is not anymore on bad statistics



And now, what do we want to achieve?
Full transparency?