

Monthly Oil Statistics The Joint Oil Data Initiative

IEA Data Training Workshop in South Africa
11-13 October 2010

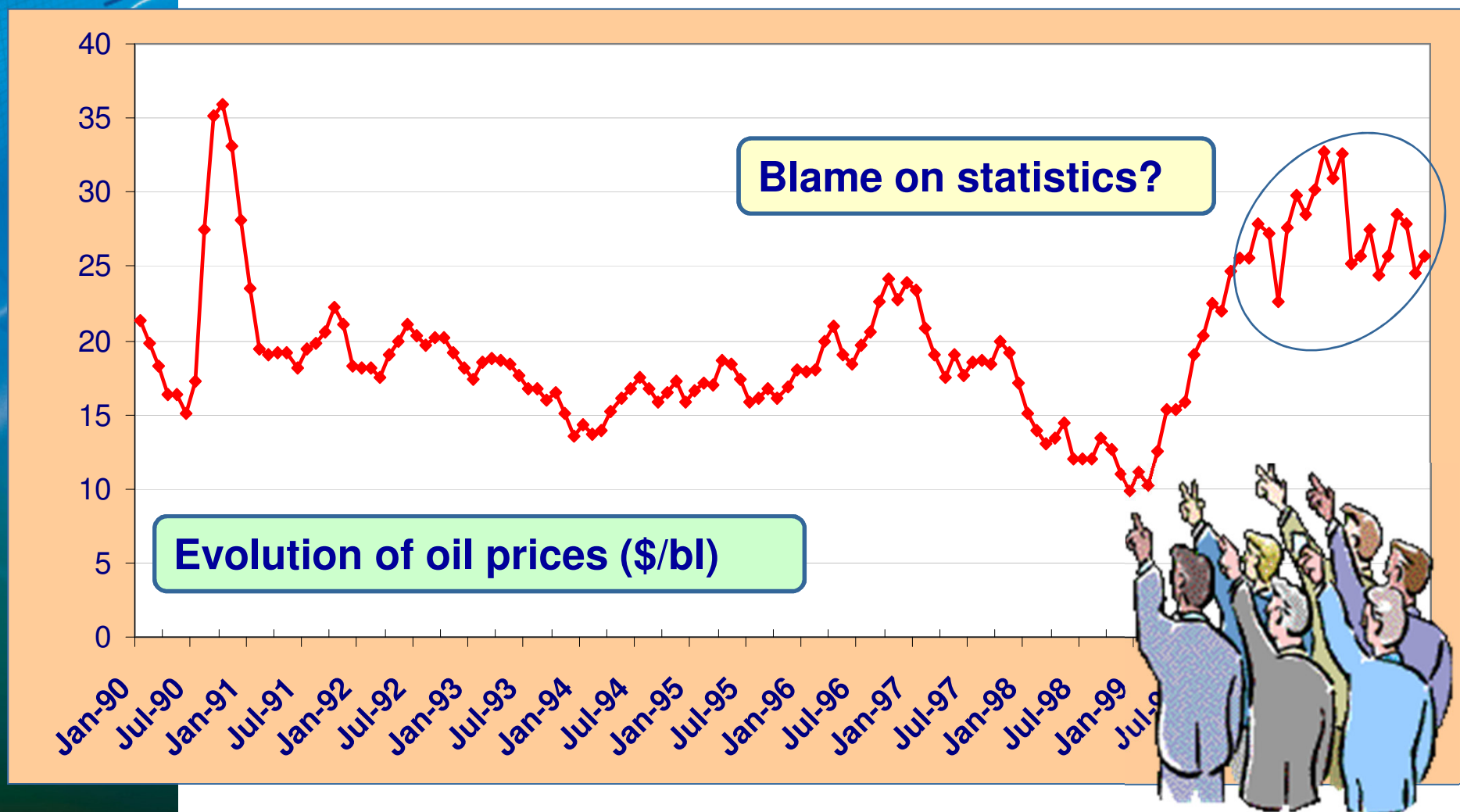
Jean-Yves Garnier

Energy Statistics Division



International
Energy Agency

The importance of monthly oil statistics

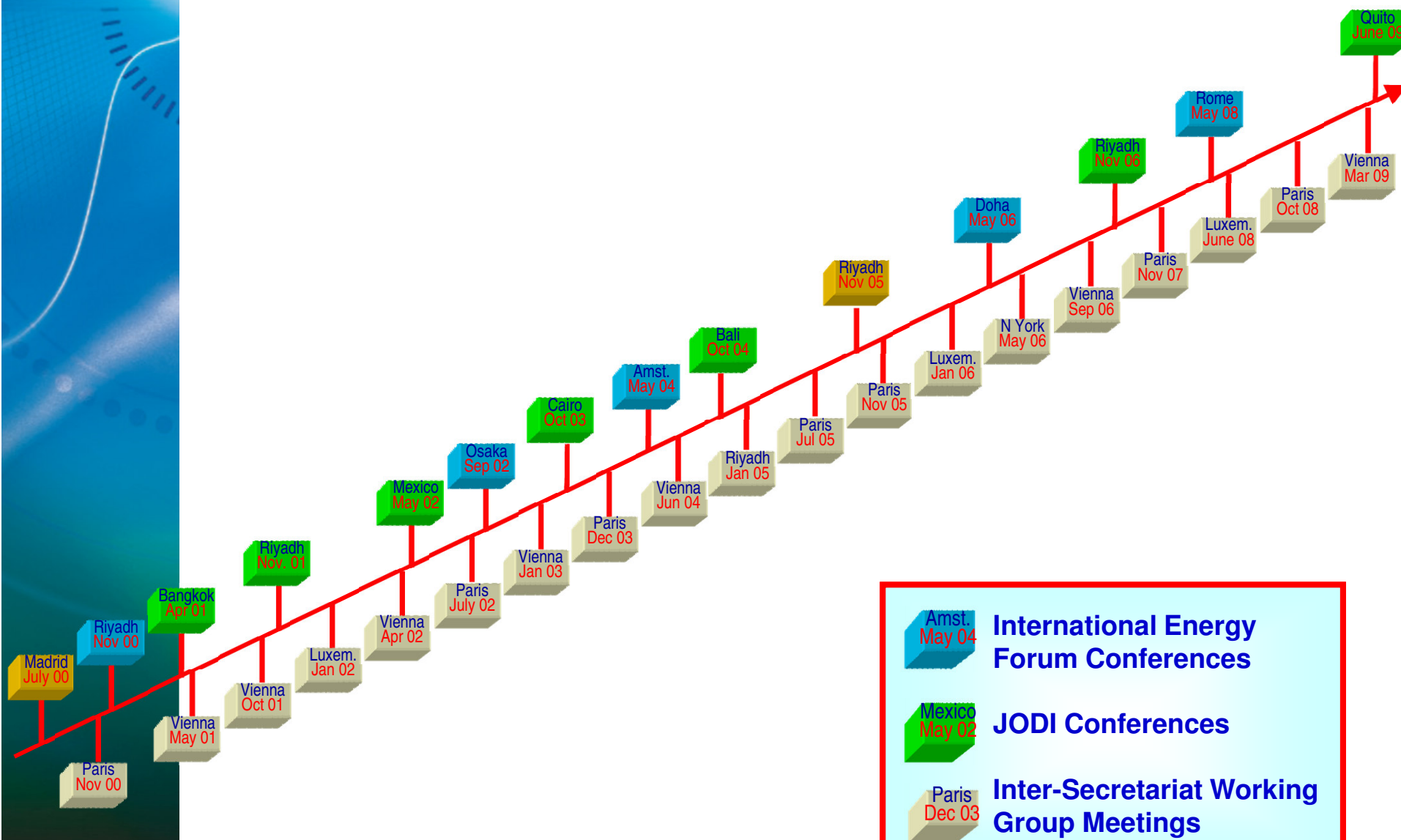


The Joint Oil Data Initiative

An important contribution to better oil statistics and transparency

- At the end of the 1990s, some analysts blamed high volatility in oil prices on lack of transparent oil data for the world. Availability, data quality, timeliness and coverage were major issues.
- APEC, Eurostat, IEA, OLADE, OPEC and UNSD took up the challenge to improve transparency and agreed on a common reporting mechanism.
- In 2005 the IEF Secretariat took over the co-ordination of the Initiative.
- Over 90 countries are now participating in the Initiative

JODI: A ten-year fast growing initiative



The initial JODI format

Country:
Month:

Crude Oil

Month -1 and Month -2

Production

Imports

Exports

Stocks

Closing
Change

Refinery Intake

A Simple Format
(42 data points)

Refinery Output

Imports

Exports

Stocks

Closing
ge

Petroleum Products

LPG

Gasoline

Kerosene

Gas/Diesel
Oil

Fuel Oil

Total Oil

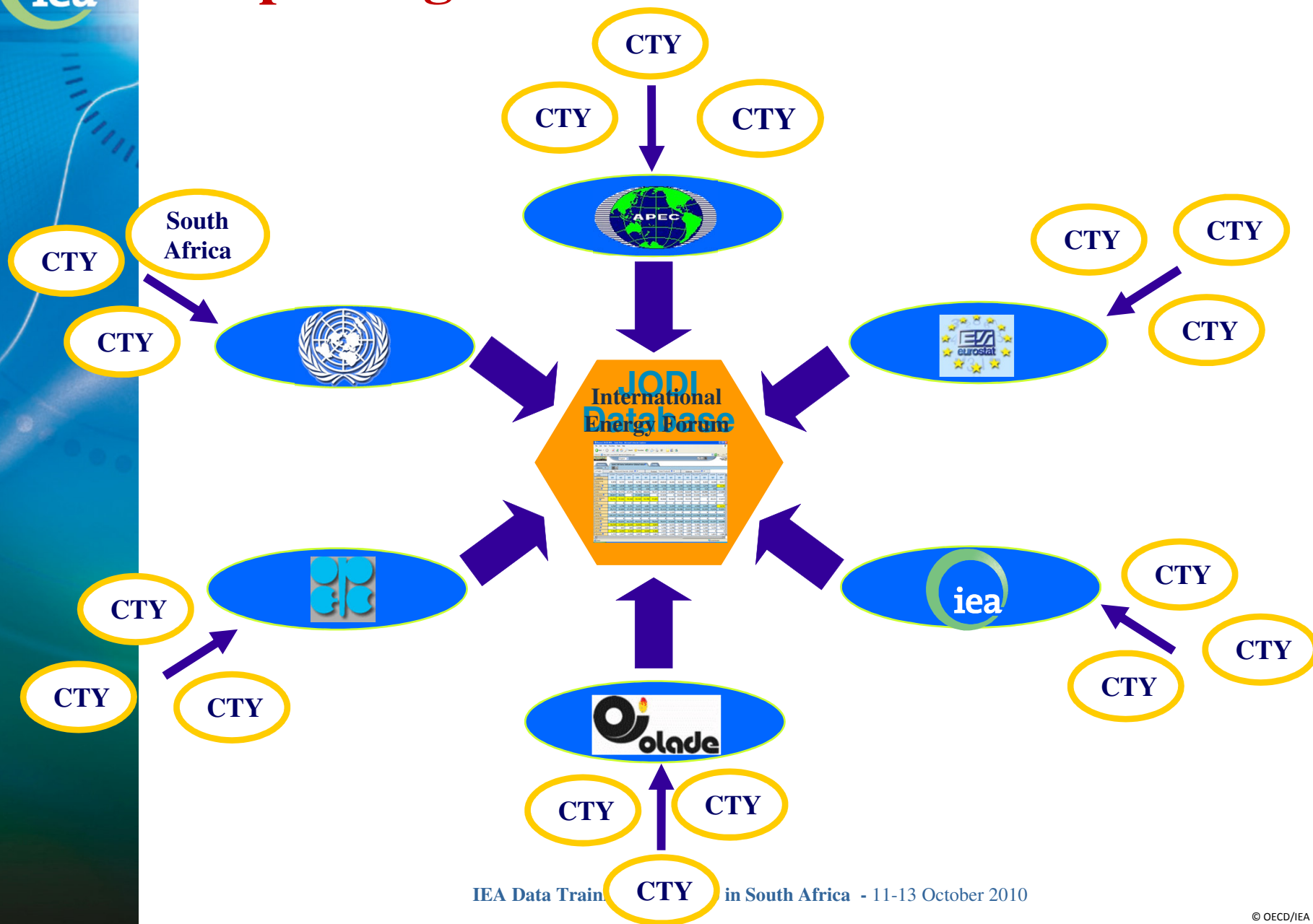
Unit:

Choice of units left to
organisations

Simple
Definitions



Reporting Mechanism



IEA Data Train CTY in South Africa - 11-13 October 2010

A global database is updated every month

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

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

English

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														
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	345	615	263	548	518	698	0
India	71,116	61,773	67,294	70,736	68,626	78,457	71,314	67,086	77,376	65,640	70,127	68,086	64,537	67,088
Indonesia	38,037	36,270	0	37,603	36,810								0	0
Iran (Islamic Rep.)	33,294	37,262	35,340	35,340	35,700	3							0	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
Korea	61,557	65,631	64,743	69,214	65,600								61,557	65,600
Kuwait	10,230	11,067	8,640	8,928									11,377	12,183
Latvia	704	837	829	1,048									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

Monthly update, M-1 data (most recent month available: August 2010)

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

How to communicate results of country participation to Ministers

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



	S	T	C		S	T	C		S	T	C
Algeria	☹	☹	☺	Germany	☹	☹	☺	Norway	☹	☹	☺
Angola	☹	☹	☺	Greece	☹	☹	☺	Oman	☹	☹	☹
Argentina	☹	☹	☺	Grenada	☹	☹	☹	Panama	☹	☹	☹
Australia	☹	☹	☺	Guatemala	☹	☹	☹	Papua New Guinea	☹	☹	☹
Austria	☹	☹	☺	Guyana	☹	☹	☹	Paraguay	☹	☹	☹
Azerbaijan	☹	☹	☹	Haiti	☹	☹	☹	Peru	☹	☹	☺
Bahrain											
Barbados											
Belgium											
Bolivia											
Brazil											
Brunei Darussalam											
Bulgaria											
Canada											
Chile											
China											
Chinese Taipei											
Colombia	☹	☹	☺	Japan	☹	☹	☺	Spain	☹	☹	☺
Costa Rica	☹	☹	☺	Kazakhstan	☹	☹	☹	Surinam	☹	☹	☹
Croatia	n.a.	n.a.	n.a.	Korea	☹	☹	☺	Sweden	☹	☹	☺
Cuba	☹	☹	☹	Kuwait	☹	☹	☺	Switzerland	☹	☹	☺
Cyprus	n.a.	n.a.	n.a.	Latvia	n.a.	n.a.	n.a.	Syria (A.R.)	☹	☹	☹
Czech Republic	☹	☹	☺	Libya	☹	☹	☹	Thailand	☹	☹	☺
Denmark	☹	☹	☺	Lithuania	n.a.	n.a.	n.a.	Trinidad & Tobago	☹	☹	☹
Dominican Republic	☹	☹	☹	Luxembourg	☹	☹	☺	Turkey	☹	☹	☺
Ecuador	☹	☹	☹	Malaysia	☹	☹	☹	United Arab Emirates	☹	☹	☹
Egypt (A.R.)	☹	☹	☹	Malta	n.a.	n.a.	n.a.	United Kingdom	☹	☹	☺
El Salvador	☹	☹	☹	Mexico	☹	☹	☺	United States	☹	☹	☺
Estonia	n.a.	n.a.	n.a.	Myanmar	☹	☹	☺	Uruguay	☹	☹	☺
Finland	☹	☹	☺	Netherlands	☹	☹	☺	Venezuela	☹	☹	☺
France	☹	☹	☺	New Zealand	☹	☹	☺	Vietnam	☹	☹	☺
Gabon	☹	☹	☹	Nicaragua	☹	☹	☺	Yemen	☹	☹	☹
				Nigeria	☹	☹	☺				

World Summary



Sustainability

64₅₃

4

20

Timeliness

43₄₄

7

38

Completeness

50₄₆

14

24

Smiley Faces
Report shown
at IEF
Ministerial
meetings

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

South Africa – JODI assessment Smiley Faces

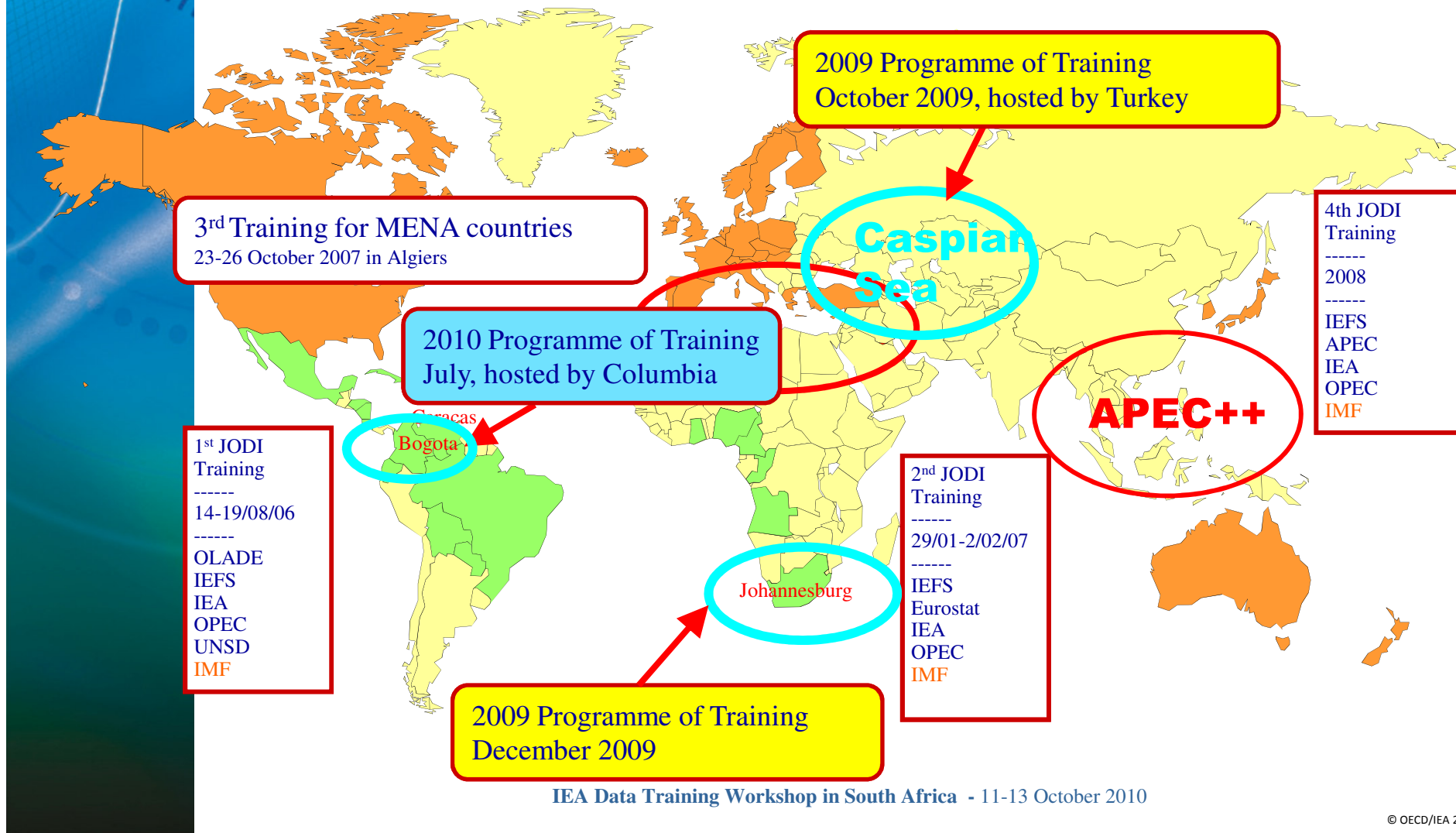
- **Timeliness:** The JODI database is expected to be updated regularly. Timeliness indicates whether submissions were submitted at the expected deadline over a six months period
 - "good" when 6 submissions received within two months after the end of the reference month ;
 - "fair" when 4 or 5 submissions received ;
 - "less reliable" when less than 4 submissions received .
- **Completeness**

South Africa Assessment

Sustainability	😊
Timeliness	😞
Completeness	😊

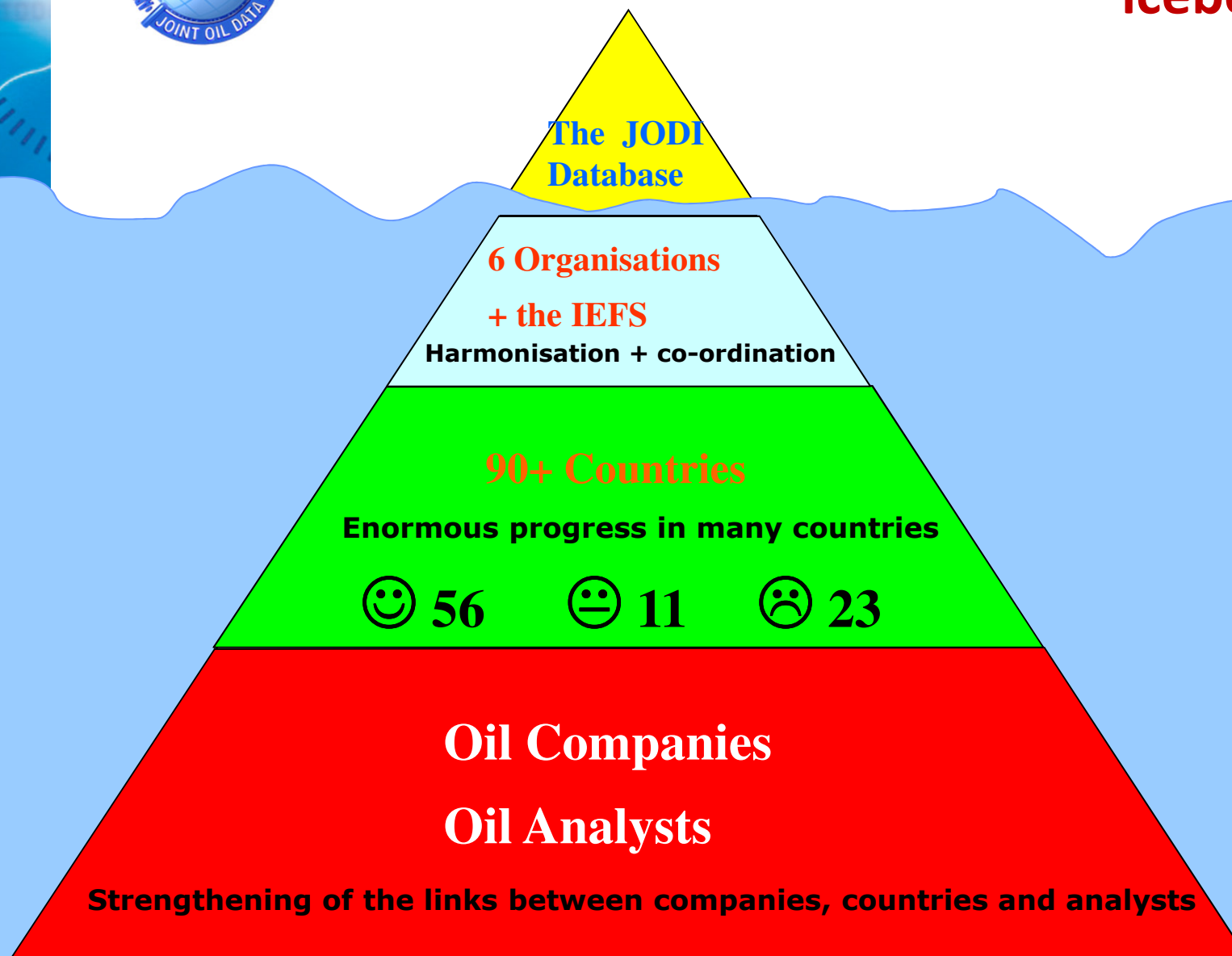
 - "good" when maximum 42 in change/closing
 - "fair" when b
 - "less reliable"
- **Sustainability (submissions):** the number of the JODI data submission within a six-month period:
 - "good" if the 6 questionnaires have been submitted ;
 - "fair" if 4 or 5 questionnaires have been submitted ;
 - "less reliable" when less than 4 questionnaires have been submitted .

Seven training sessions were organised on JODI (including two in South Africa)





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



JODI has certainly contributed to raise political awareness...



The Joint Oil Data Initiative



What next?

- ✓ Submissions: continue to improve timeliness, coverage and sustainability
- ✓ Continue to develop and improve the quality of the JODI World database.
- ✓ Some key **data** are still missing e.g. stock levels for China and India
- ✓ Improve maxi Jodi questionnaire in order to have a complete balance and more information on key oil products
- ✓ Expansion to other fuels: Gas Jodi

<http://www.jodidata.org/>

A few words on the importance of oil for the IEA

The International Energy Program

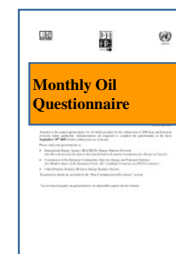
- To maintain and improve systems for coping with oil supply disruptions
- To promote rational energy policies in a global context through co-operative relations with member countries, non-Member countries, industry and international organisations
- To operate a permanent information system on the international oil market
- To improve the world's energy supply and demand structure by developing alternative energy sources and increasing the efficiency of energy use
- To assist in the integration of environmental and energy policies



As a consequence, monthly oil statistics has always been a priority

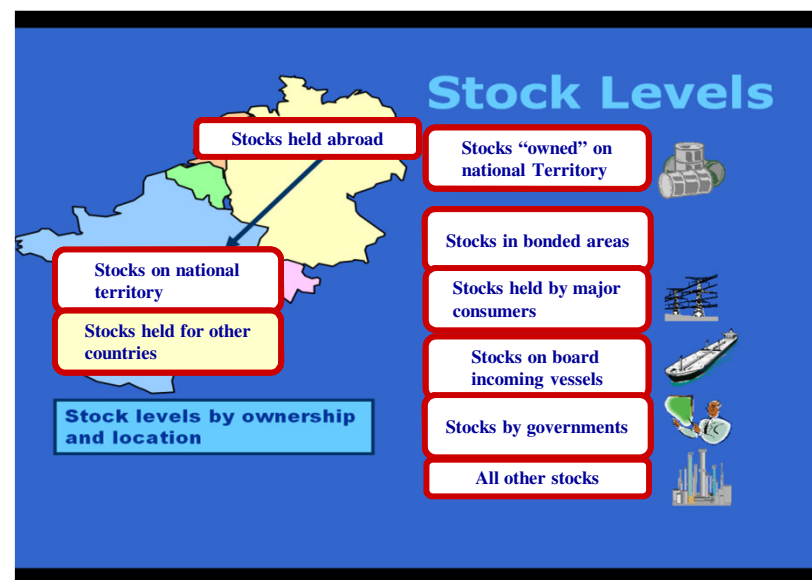


Monthly Oil Questionnaire



- Crude, NGL and Other Hydrocarbon balance
- Oil Product Balance

- Production
- Imports/Exports by Origin and destination
- Refinery data
- Deliveries
- Stock levels



■ Data for M-2



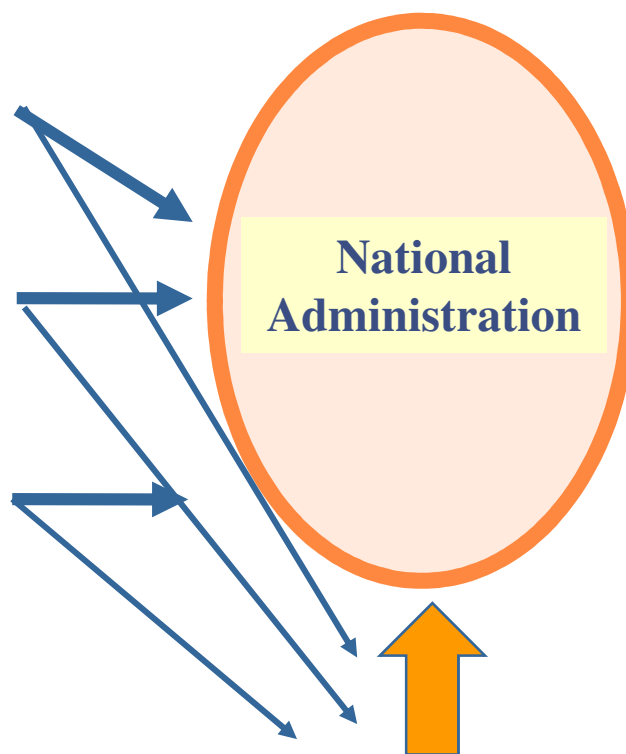
How are monthly data collected?

➤ Data for month - 2

Shell

Exxon

Statoil



25th of
month



Oil and Gas
associations

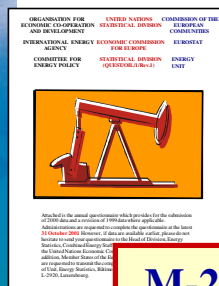


To sum up: how are monthly JODI and MOS data collected and released?

National Administrations

M
O
S

J
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D
I



M-2

	Crude Oil	Petroleum Products				
		LPG	Gasoline	Kerosene	Gas/Oil	Fuel Oil
Production						
Imports						
Exports						
Stocks						
Refinery Intake						

M-1
M-2

25th

25th-1st



MODS
www.iea.org



Emergency Preparedness



Oil Market Analysis



Global Database

se



IEA Data Training Workshop in



13 October

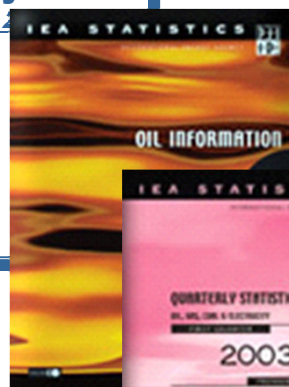


Use of Monthly Oil Data

Oil Publications

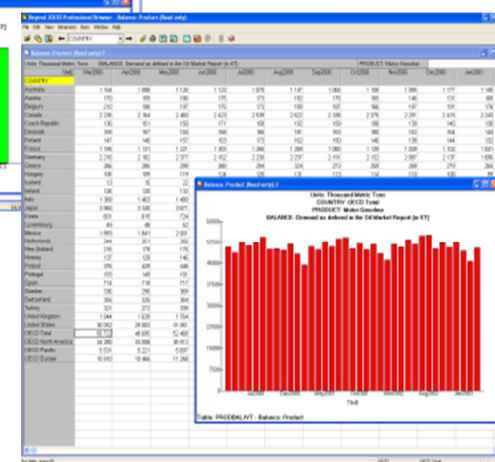
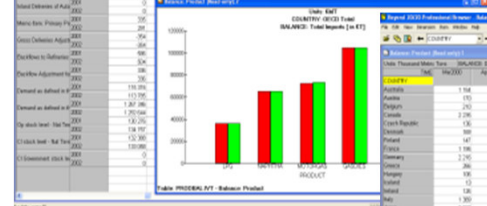
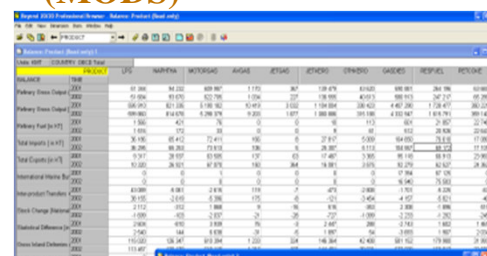


Monthly Oil Survey August 2003



Electronic Data

Monthly Oil Data Service (MODS)



powered by



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**Thank you for
your attention**