ENERGY STATISTICS
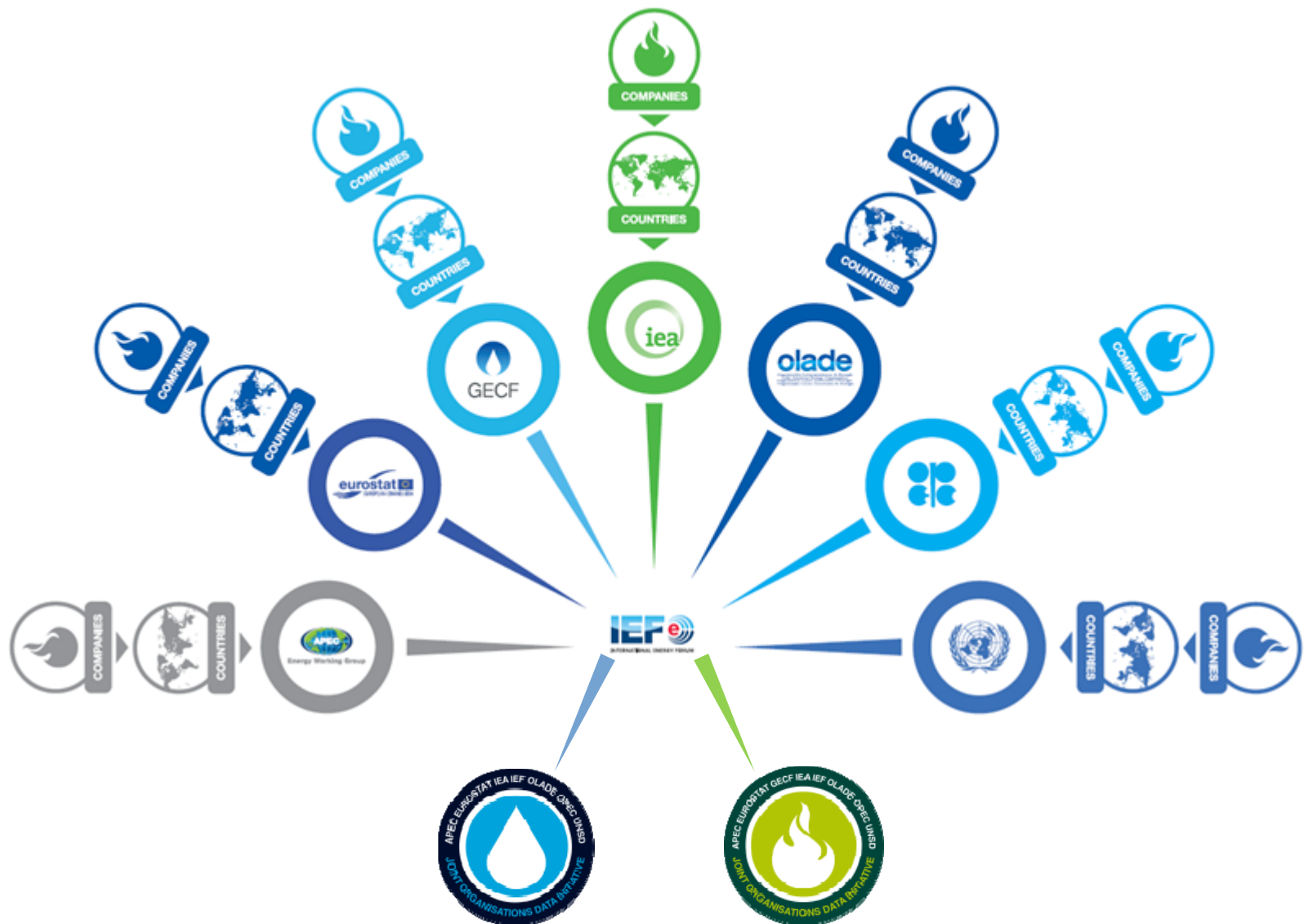
JODI

How JODI data are collected and processed
Key features that differentiate JODI

Duncan Millard

Chief Statistician

International Energy Agency

International Energy Agency

iea

Secure • Sustainable • Together

How JODI Works

JODI World Databases

At a national level

- **Company/Industry level**
  - Collection of data from different production units
  - Submission of data to central administration

- **Administration level**
  - Evaluate validity of submitted data
  - Add other data (e.g. administrative data)
  - Estimate missing/incomplete information
  - Aggregate at a national level
  - Submit to international organization

**Interaction between industry
and national administrations**

At an organization level

- **Interaction with administrations**
  - Provide support for technical and methodological issues
  - Encourage complete submissions
  - Encourage revisions when data become final
  - Training and capacity building

- **Ensuring the validity of the data**
  - Continuous checking of data: balance, outliers etc.
  - Comparison with external data when available
  - Internal consistency checks for complete submissions
  - Problems detected are discussed with administrations

- **Send data to IEF for final validation and publication**

Key features of the JODI

■ Extensive coverage

- **JODI Oil**
  - ◆ 100+ countries
  - ◆ Around 90% of global supply and demand

- **JODI Gas**
  - ◆ Max. 77 countries
  - ◆ Around 90 % of global supply and demand

■ Official data

- **Data published is as submitted** (after data quality exchanges)
- **No estimation for missing information** (at organizational level)

■ Centralized/harmonized dissemination

- **Published time table of updates**
- **Beyond 20/20 and CSV format**
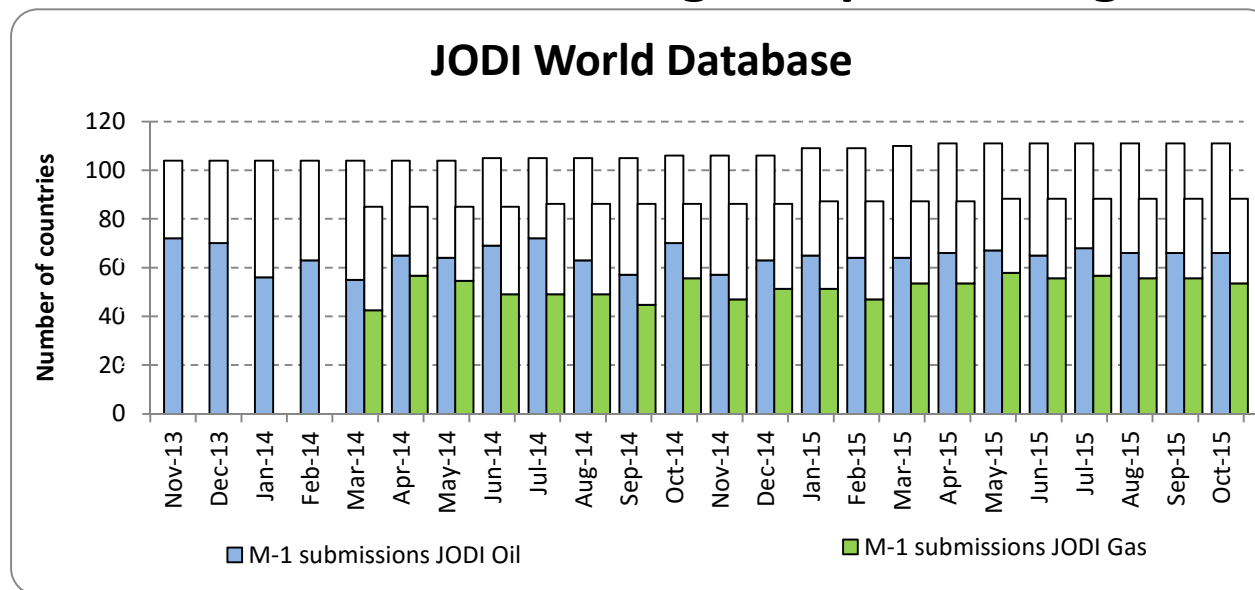
> **JODI are short-term data**

Challenges

- **Timeliness and Sustainability**

- **Completeness and Confidentiality**

- **Timeliness vs. Data Quality vs. Completeness**

Timeliness

■ Challenging M-1 deadline

- ● 25th of the month following reference month
- ● Multiple departments/agencies involved in collection
- ● Time needed for checking and processing

JODI World Database

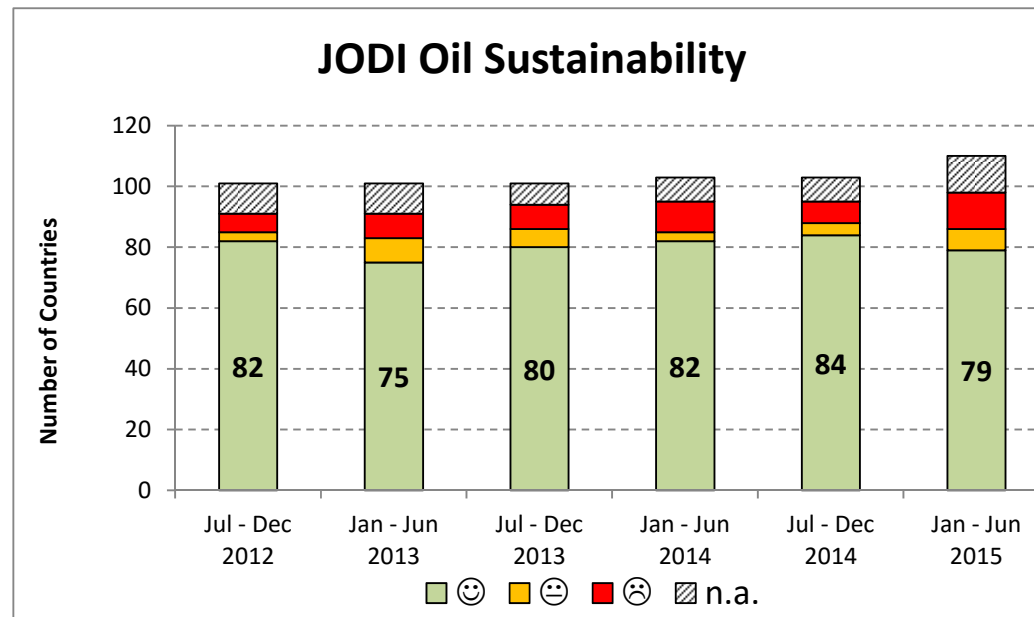☐ M-1 submissions JODI Oil   ☐ M-1 submissions JODI Gas

Difficult for all countries to meet the <u>monthly</u> deadline

Sustainability

- **To be of most use JODI needs regular monthly reporting**
  - Some countries miss certain months
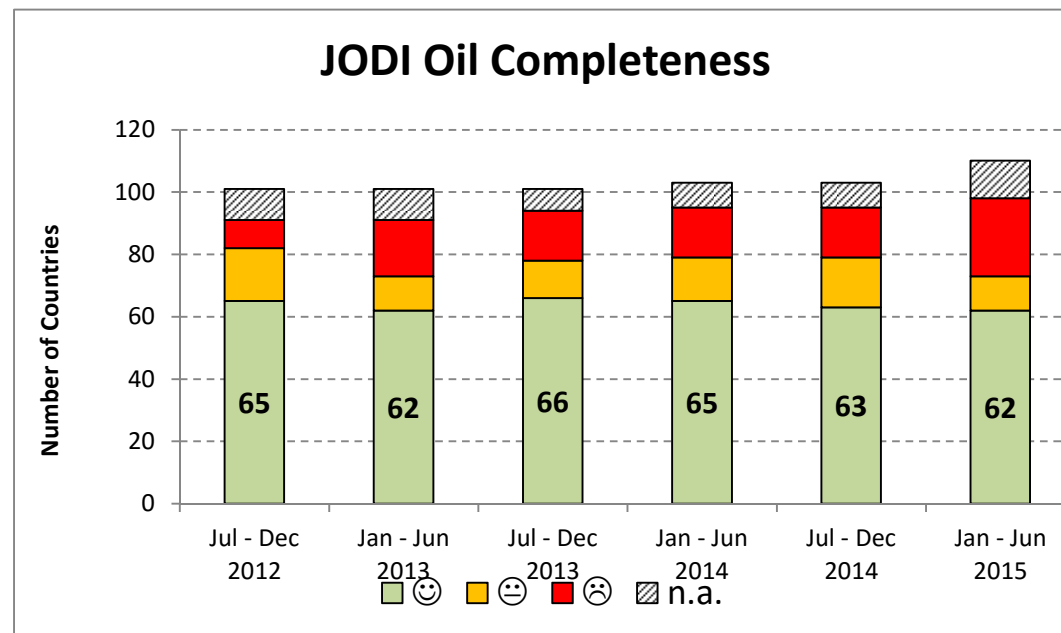 - Some countries submit later (quarterly or annually)

JODI Oil Sustainability

Number of Countries

	Jul - Dec 2012	Jan - Jun 2013	Jul - Dec 2013	Jan - Jun 2014	Jul - Dec 2014	Jan - Jun 2015
	82	75	80	82	84	79

☺   ☺   ☹   n.a.

Sustainable = 6 months of reporting

Completeness and Confidentiality

- **Availability of monthly data in countries**
- **Submission of revisions with more complete data**
- **Issues of confidentiality**
  - ◆ **Legislative issues/authorisation**
  - ◆ **Perceived as commercially sensitive information**

JODI Oil Completeness

Timeliness vs. Quality vs. Completeness

- **JODI data are short-term data**

- **Availability and quality of early data**

- **Revisions to first released information**

- **Consistent methodology help make data useful**

- **Trends and levels**

JODI data are official data

Data Characteristics

JODI

- Short term preliminary data
- Monthly M-1
- Key data Supply Side
- Seasonality analysis

Annual data

- Final annual data
- Annual Y-2
- Supply and Demand
- Higher level of detail

■ **JODI**

- **Early key data for over 90 countries**
- **Provide basis for early analysis of markets**
- **Sum of 12 months not comparable to annual data**

Increased interaction of JODI users and data producers

- **Users**
  - **Share knowledge – Use JODI Forum**
    - On data issues and market analysis
    - With other users and JODI partners
  - **Increase understanding of data issues**
  - **Help identify potential areas of development**

- **Data providers/administrations/organizations**
  - **Awareness/understanding of how data are used**
  - **Visibility of output and its impact on analysis**
  - **Access to Forum, etc.**

Mutually beneficial

Thank you