

CEIS/KEEI Workshop 2013 on Energy Statistics and Energy Outlook Advance

KEEI, Seoul, 14-15 November 2013

What does the IEA do?

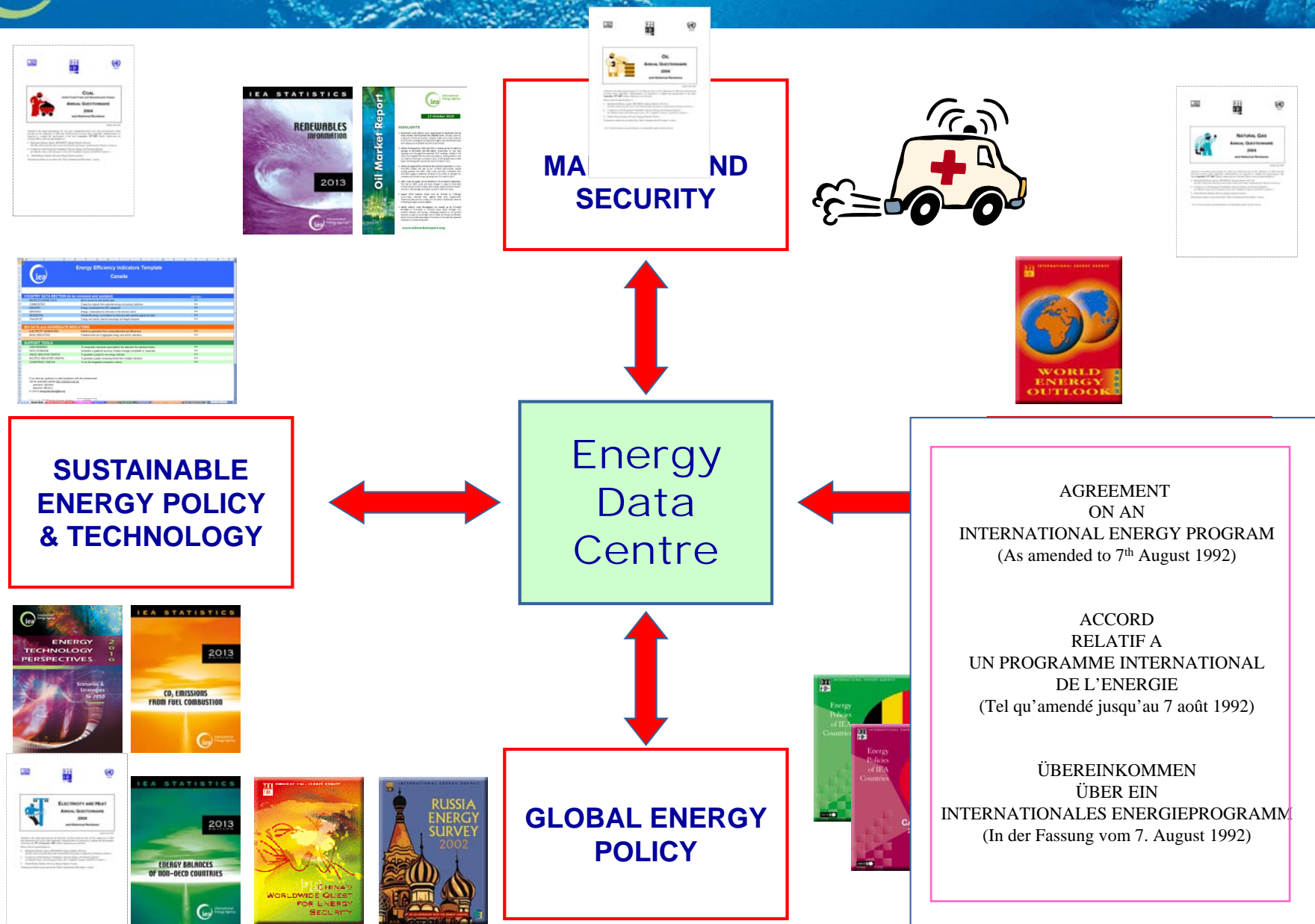
- a) To facilitate work of member countries in data reporting
- b) To promote energy statistics and statisticians

Jean-Yves Garnier
Head, Energy Data Centre



International
Energy Agency

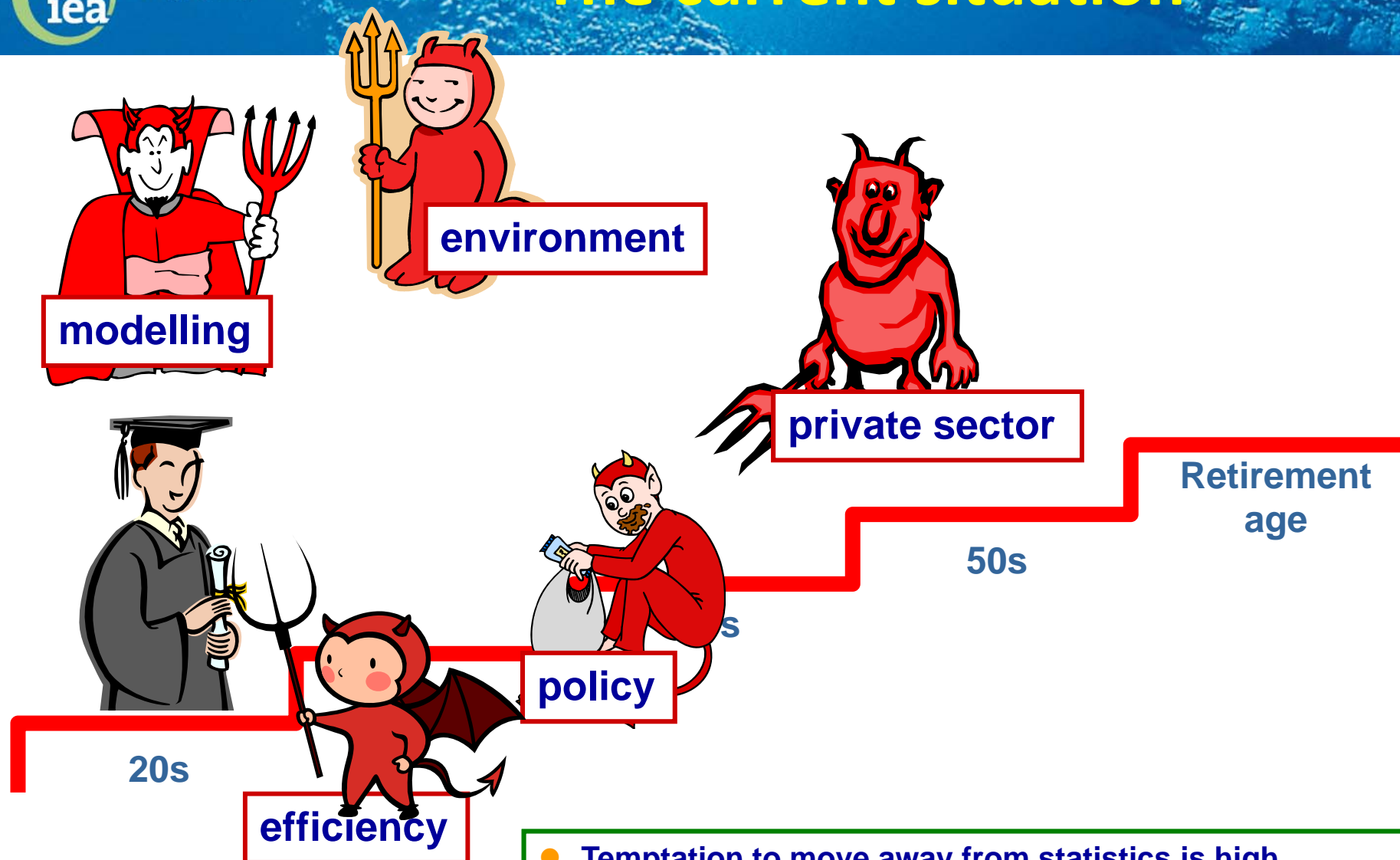
Why does the IEA collect statistics?



- 👉 Liberalisation of the market:
From one company to hundreds
- 👉 Confidentiality (linked to liberalisation)
- 👉 More work passed to statistics offices:
 - More companies to survey (liberalisation)
 - Renewables (remote information)
 - Energy efficiency indicators (including socio-economic data)
 - Environment (estimation of GHG emissions,)
 - Etc.
- 👉 Resources do not follow work load:
Statistics still have a low profile, budget cuts
- 👉 Fast turnover in staff experience, continuity



The current situation



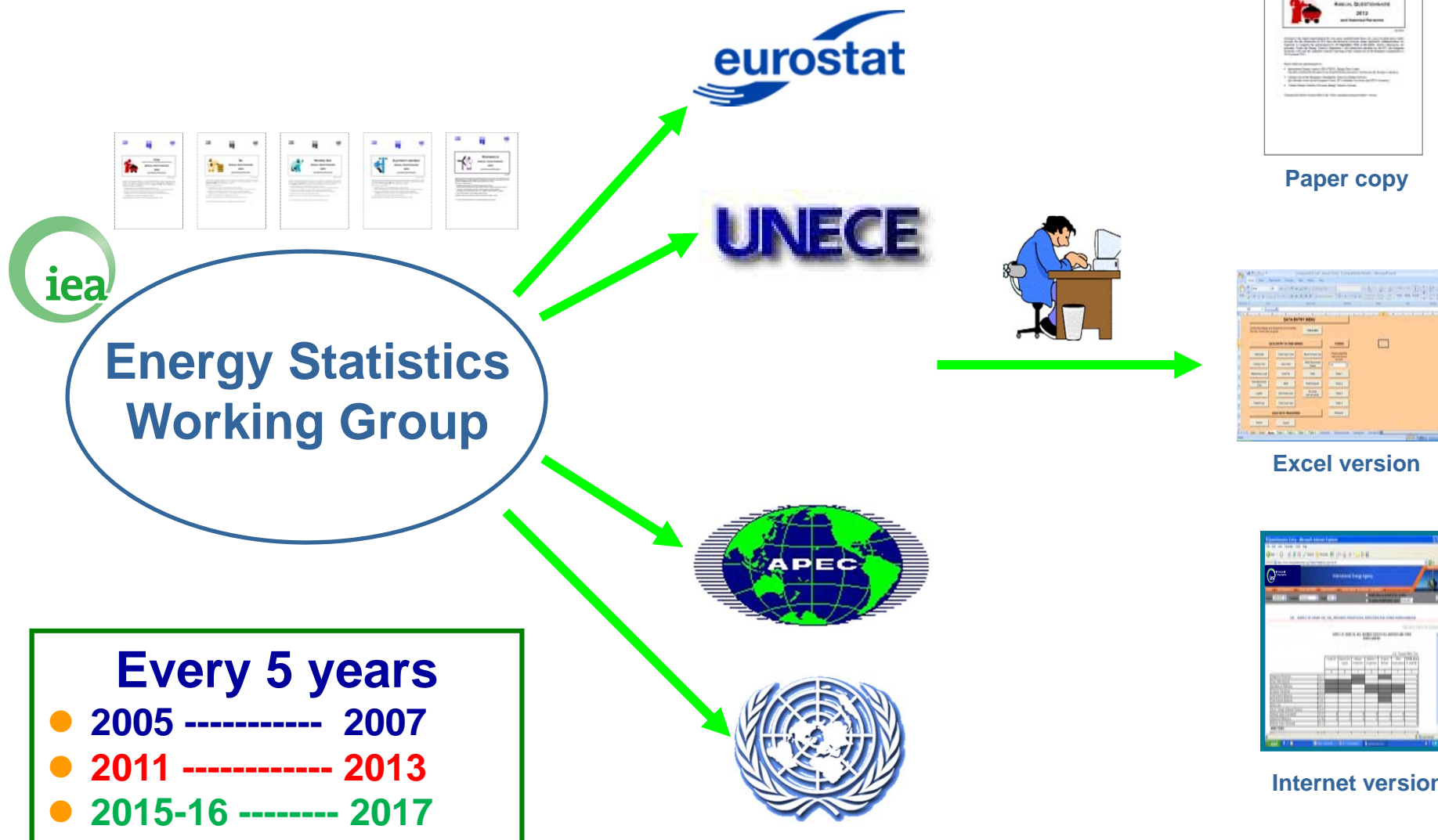
- Temptation to move away from statistics is high
- Young statisticians only stay a few years
- Not enough time to have a full grasp of energy statistics
- No time to transmit their expertise

What does the IEA do to help countries

- 👉 **Limit the changes to questionnaires and do it in close cooperation with member countries**
- 👉 **Develop proper manuals to ease data reporting**
- 👉 **Strengthen international cooperation and harmonisation**
- 👉 **Raise the profile of statistics and statisticians**
- 👉 **Better reporting tools, assessment and training**

Limit changes to questionnaires

1 to 2 years



Examples of agreed changes



Update the net calorific value ranges for coal
Move oil shale and oil sands out of lignite
Change “oxygen steel furnace gas” to “other recovered gases”
Separate peat briquettes from BKB

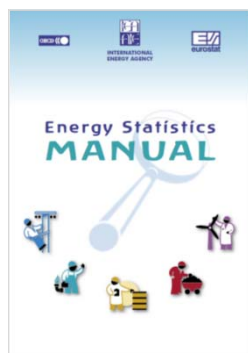
Gas/diesel oil detail
Biofuels reporting

Separation of bio and non-bio fractions of blended fuels



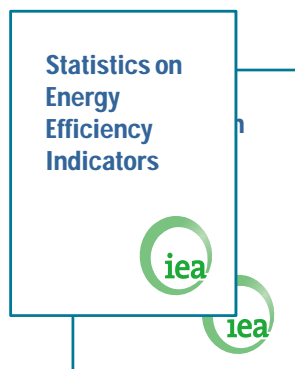
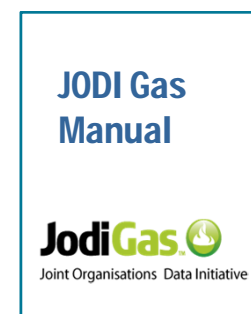
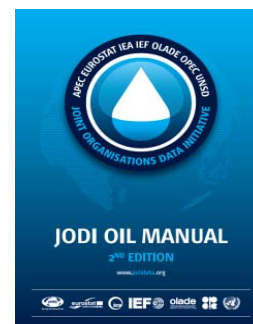
Add a line for blast furnace gas transformation
Modify the liquid biofuels categories
Modify reporting of biogases in main tables
Add two tables for liquid biofuels trade

Develop proper manuals to ease reporting



The Energy Statistics Manual now available in 10 different languages

JODI oil and now JODI gas manuals together with the 7 JODI partner organisations



The IEA is currently finalising two new manuals: one on statistics for energy efficiency indicators and one for indicators themselves

The International Energy Statistics (InterEnerStat) initiative



- 20+ international/regional organisations
- Both data providers and users
- Harmonisation of energy and flow definitions
- Working towards joint questionnaires



International
Energy Agency

Strengthen International Harmonisation and Cooperation

UN Statistics
Commission decided
to use InterEnerStat
definitions as the basis
for IRES

InterEnerStat

Harmonisation of Definitions
of Energy Products and Flows



SECOND REVISION OF THE DEFINITIONS

Part 1: Flows

IEA, Paris, 20 September 2009

InterEnerStat

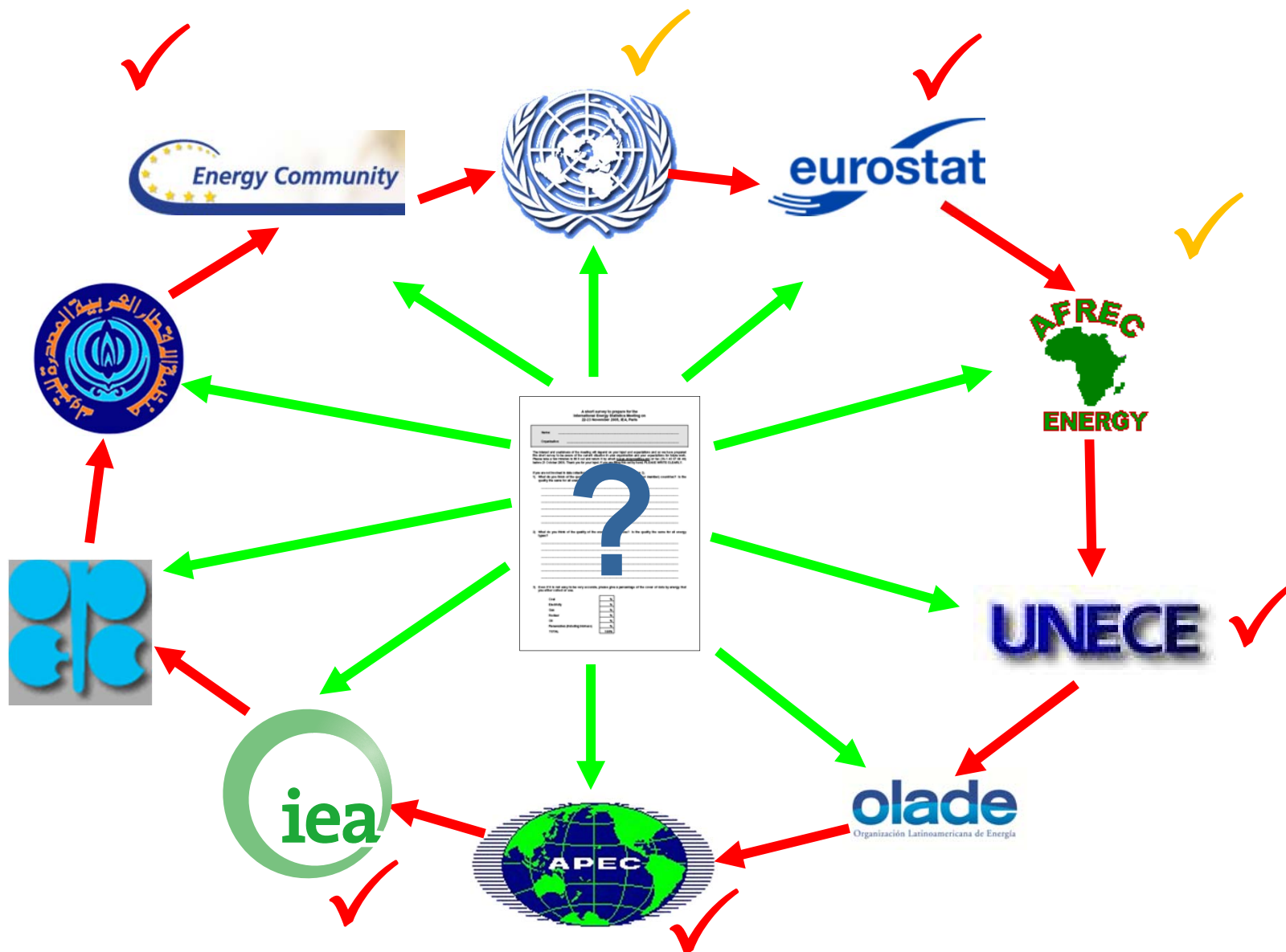
Harmonisation of Definitions
of Energy Products and Flows



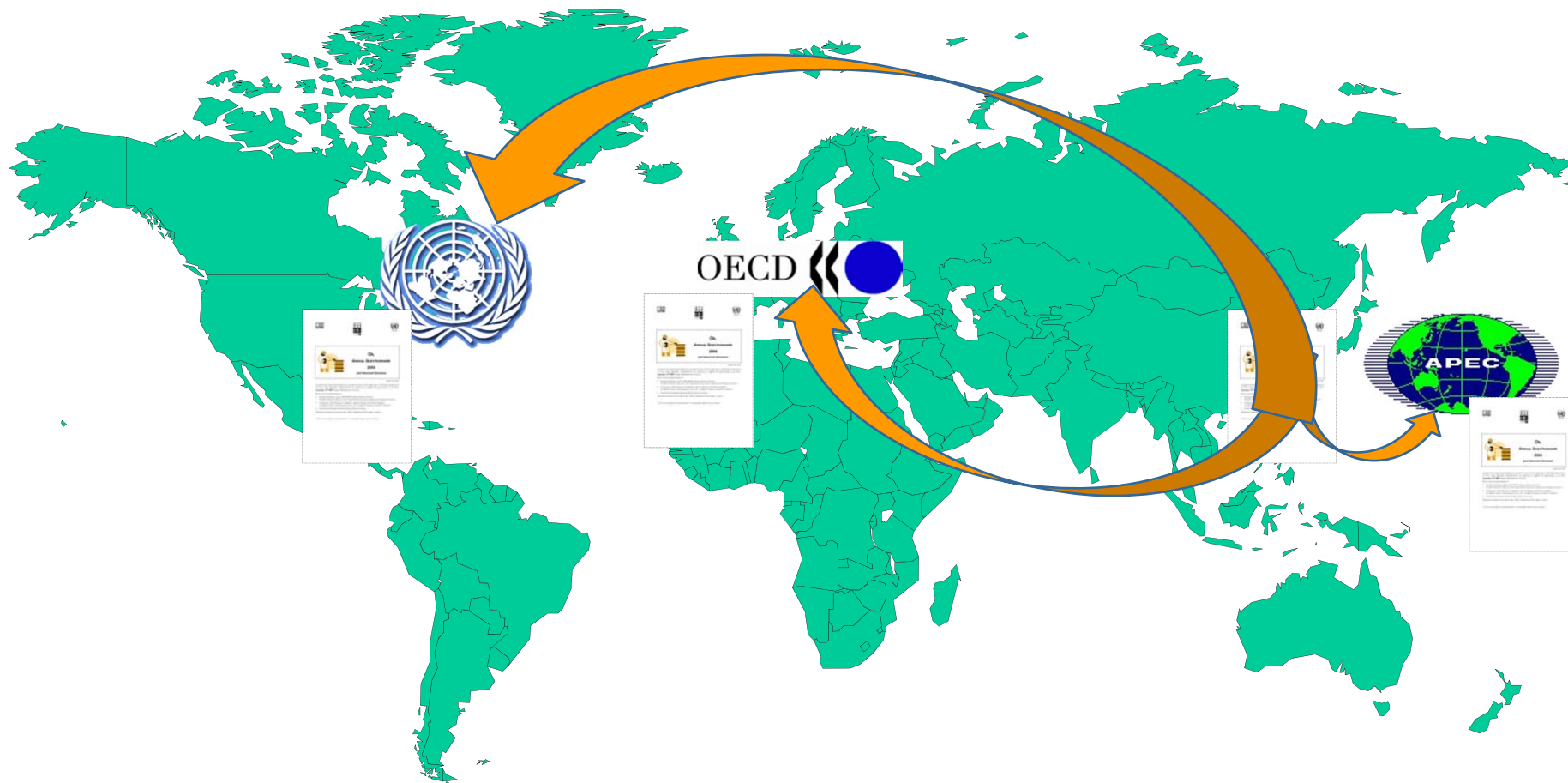
SECOND REVISION OF THE DEFINITIONS

Part 2: Products

IEA, Paris, 20 September 2009

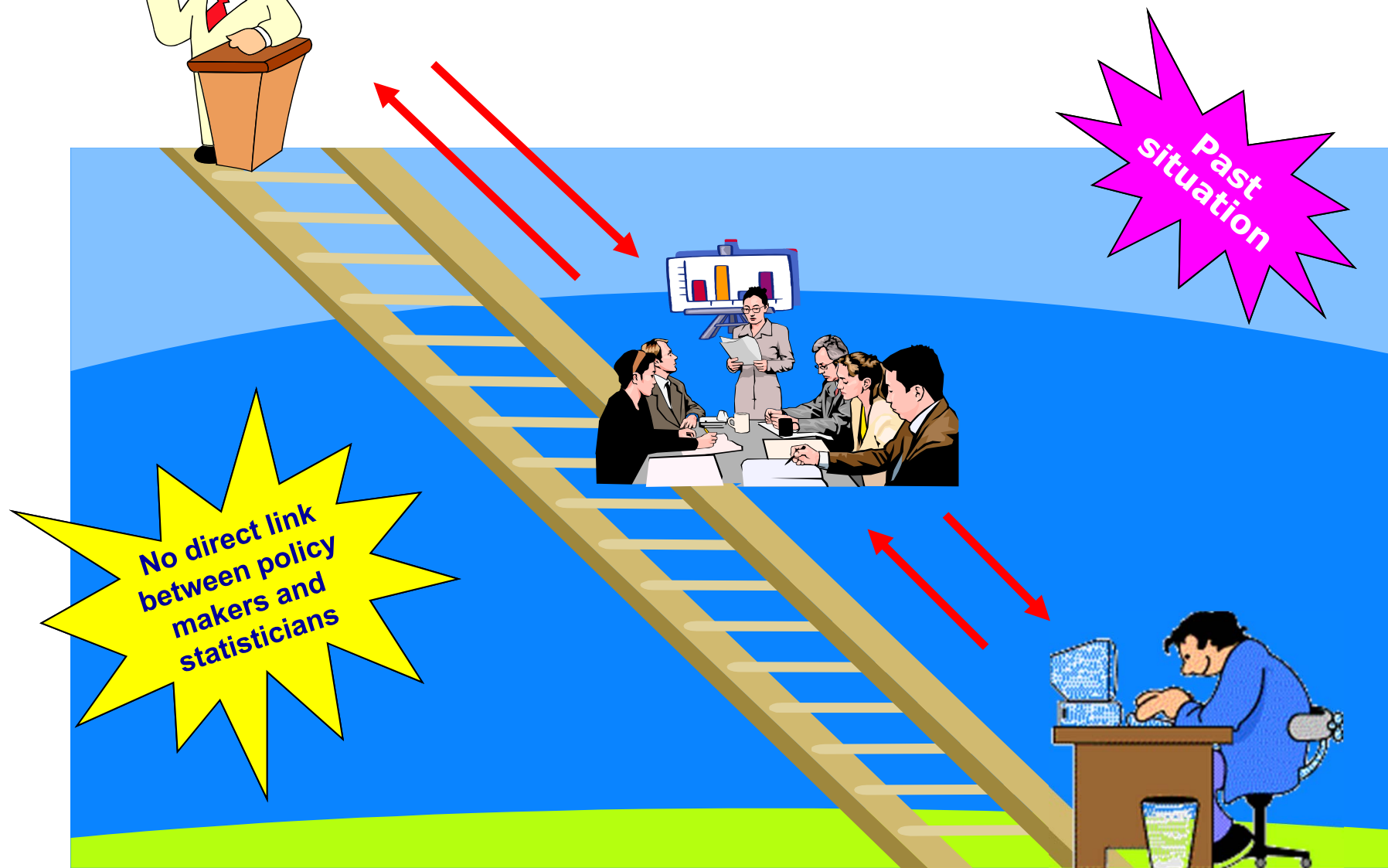


Benefits of harmonisation for countries



Korea can now fill out only one questionnaire instead of three in the past

Raising the profile of statistics and statisticians



In fact, the relationship between policy makers, analysts and statisticians should be more based on a 3-way street

Energy Statistics will be on the agenda of the IEA Ministerial meeting in November 2013



Decision makers

- Need the right data immediately
- Allocation of resources



- The ones who do the work
- Should be fully involved in the whole process

- ➔ Statisticians need to understand why they collect the data
- ➔ Policy makers need to understand the problems faced by statisticians



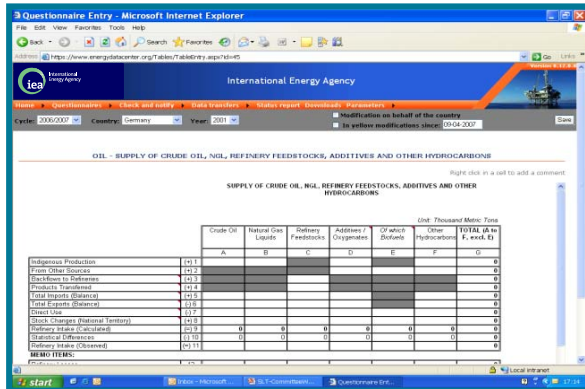
- Prime users of the data
- Advisors to policy makers
- Interface between policy makers and statisticians
 - ➔ Lobby
 - ➔ Comments on data

Raising the profile of statistics and statisticians



Best
example on
raising the
profile


On 19 November 2005, an example of how the profile of statistics can be raised is the launch of the JODI Database by King Abdullah



An assessment of data reporting quality



Easing data reporting by providing more user-friendly and powerful reporting tools (EDMC)

2011 Data Cycle*						
1 - Timeliness						
1.1 Submission dates (base: 30 September)	Oil	Gas	Coal	Renewables	Electricity	
1.2 Submission dates (base: 30 November)	Oil	Gas	Coal	Renewables	Electricity	
1.3 Average response time to queries	Oil	Gas	Coal	Renewables	Electricity	
2 - Completeness						
2.1 Data coverage	Oil	Gas	Coal	Renewables	Electricity	
2.2 Share of Non-specified in totals	Oil	Gas	Coal	Renewables	Electricity	
3 - Data Quality						
3.1 Overall quality of the answers	Oil	Gas	Coal	Renewables	Electricity	
3.2 Size of the statistical differences	Oil	Gas	Coal	Renewables	Electricity	
3.3 Breaks in time series	Oil	Gas	Coal	Renewables	Electricity	
3.4 Internal consistency	Oil	Gas	Coal	Renewables	Electricity	
4 - Cross-questionnaire consistency						
4.1 Inputs to power generation	Electricity vs Oil	Electricity vs Gas	Electricity vs Coal	Electricity vs Renewables	Electricity vs Electricity	
Legend and notes						
Overall assessment	very good	good	fair	poor	not applicable	
*including a comparison with 2010 data.  indicates that the performance in the current cycle was very good, versus good in the previous cycle.						

Training

- ❑ Two training weeks at the IEA: in March and October
- ❑ Regional or country training in cooperation with countries and/or organisations

PART II

**A major effort by the
IEA for better
disseminating its
statistics and raising
profile of statistics**



IEA studies/analyses



Policy makers



Traders, banks



Academia

Member countries



Energy analysts



Journalists



The man in the street



How does the IEA disseminate its statistics



Books



CDs



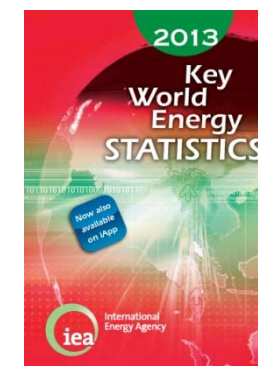
Internet

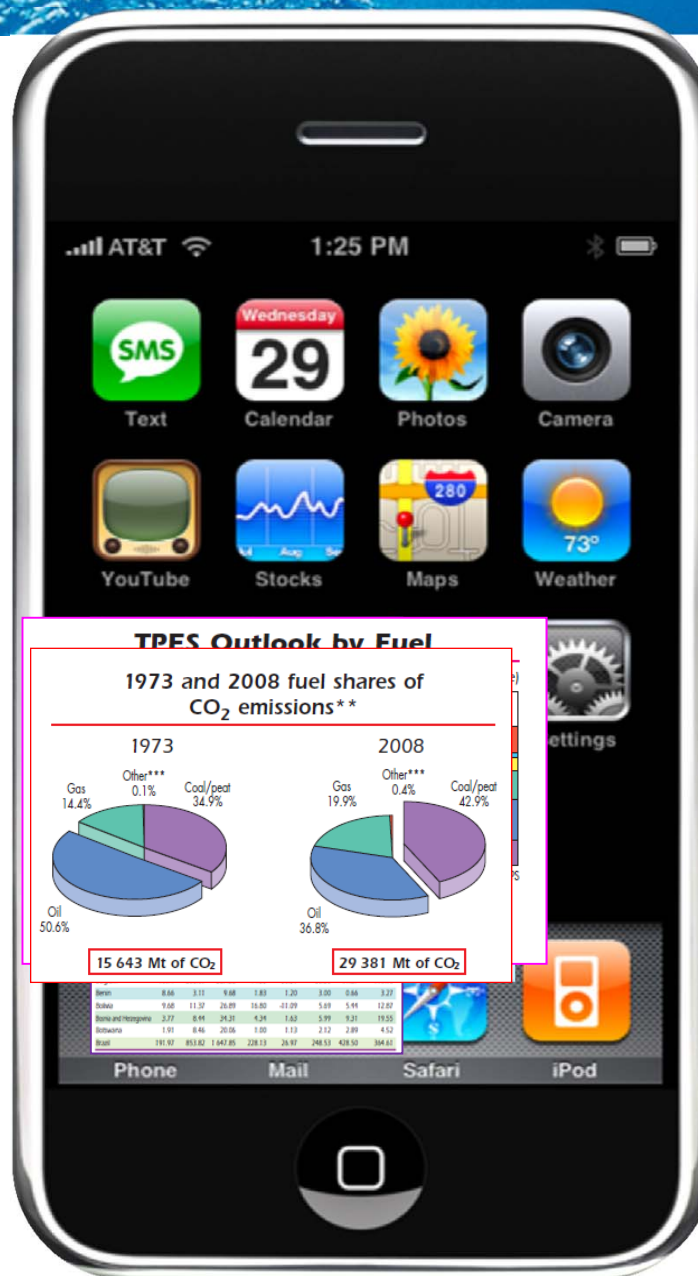
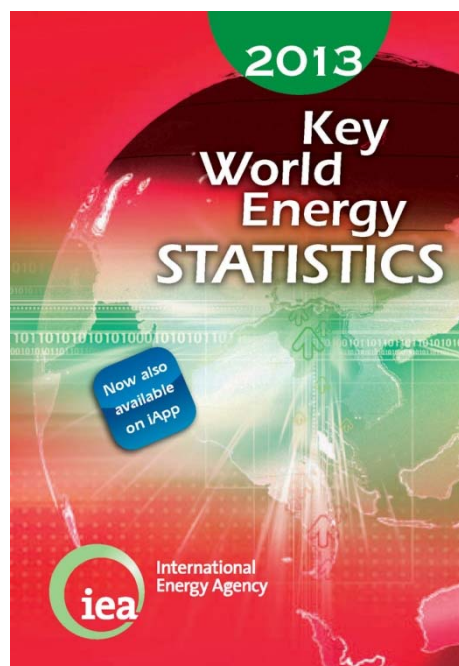


Most visited
page on the
IEA website

- Free access to Administrations
- Subscription for others
- Pay-per-view also available

KWES



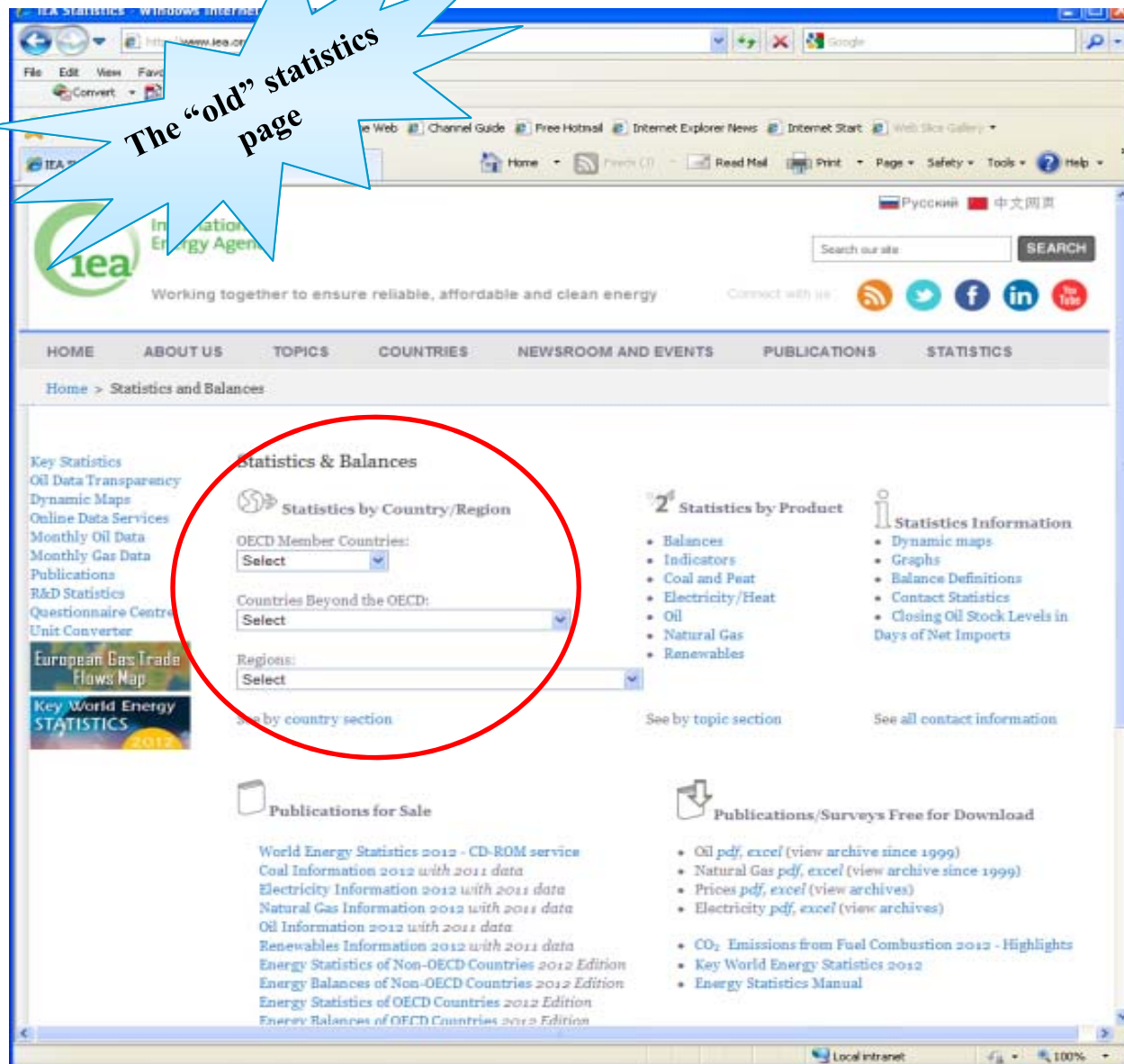


- ☐ The Key World Energy Statistics is also available as an iPhone application.
- ☐ In 2012 the app became much more user-friendly and interactive than the previous versions
- ☐ A special version is also available for iPad

☐ Now working on an Android version

A major effort on the Statistics page

The “old” statistics page



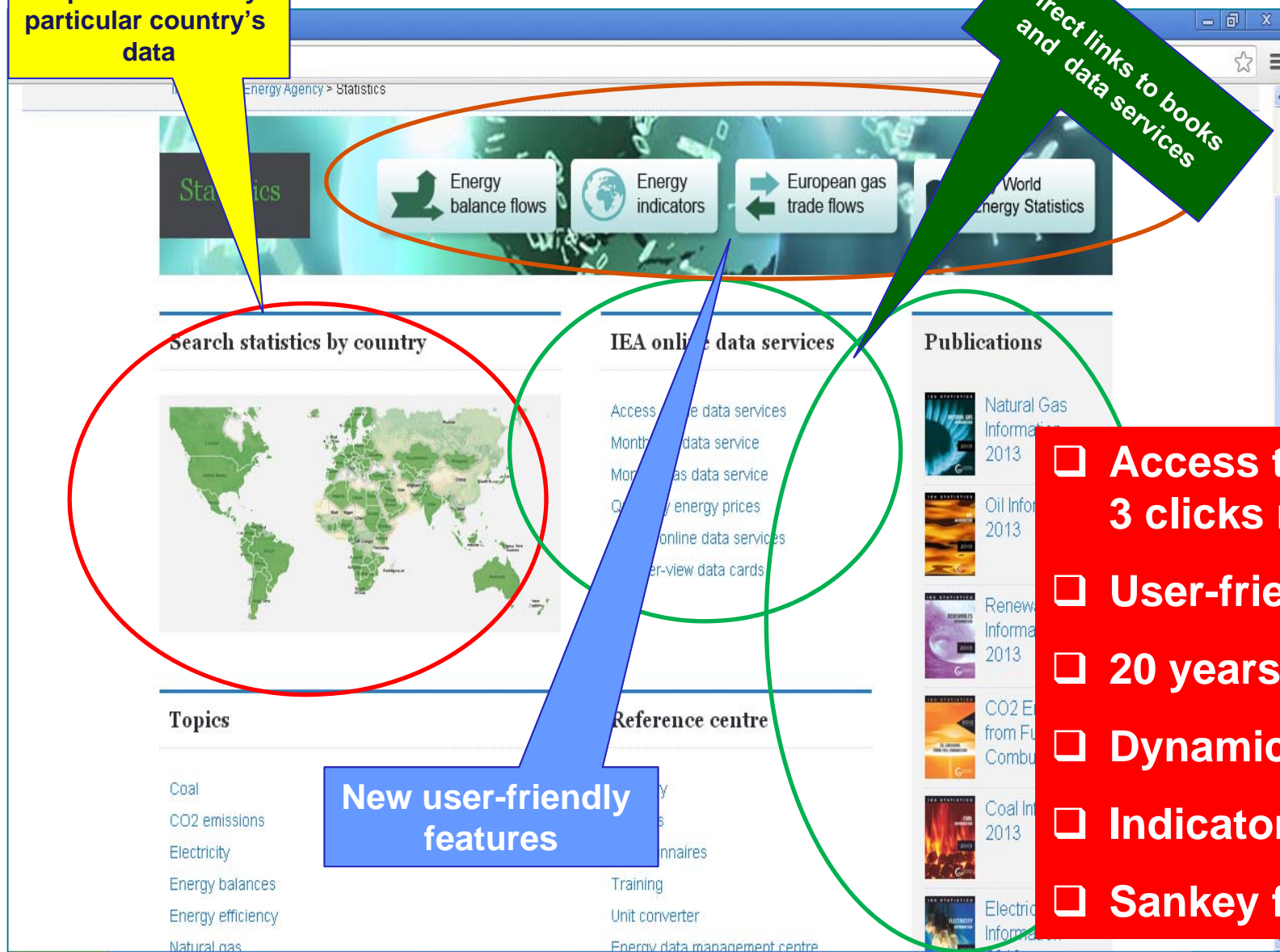
- ❑ Old fashioned;
over 10 years old.
- ❑ Difficult getting
the information
needed
- ❑ Not user-friendly
- ❑ One year of data,
although the most
recent one
- ❑ Not dynamic

❑ Decision taken to
develop a more
complete and
user-friendly page

A major effort on the Statistics page








Map access to any particular country's data

Direct links to books and data services



- ☐ Access to data in 3 clicks maximum
- ☐ User-friendly
- ☐ 20 years of data
- ☐ Dynamics
- ☐ Indicators maps
- ☐ Sankey flows

A few words to conclude

-  Energy statistics are the basis for any sound energy policy. As a consequence, it is essential to allocate proper resources to collect the necessary data for monitoring and planning
-  You don't build reliable statistics overnight. It takes time, effort, regulation/law, resources, ...
-  It took 40 years for the IEA to establish its statistics but it is a never ending process since we are constantly expanding coverage and struggling to improve quality
-  The IEA is fully aware of the problems that countries face
-  As a consequence, the IEA is extremely committed to strengthening cooperation with countries to better understand their problems and find solutions
-  This is the reason why we are delighted to have been invited to participate in this important event. Mutual understanding is the key to success.
-  We have seen enormous progress in the overall quality of Korean statistics and we would like to commend all of you for that. Be sure that we will do our outmost effort to further raise the profile of statistics and statisticians.

Thank you