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Data management and energy statistics in EaP Countries

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5th workshop of Eastern Partnership Regulatory Bodies
Vilnius, Lithuania, 12-13 April 2016

BUILDING PARTNERSHIPS FOR ENERGY SECURITY

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Structure and contents

- INOGATE and energy data/statistics
Data collection and energy policy
- Different organisations care for different datasets
- A couple of examples from INOGATE activities – a quick walk-through





INOGATE and energy statistics

- From 2012 to 2016, INOGATE worked with 9 countries to improve their energy statistics
- **Scope of work:** energy balances, monthly statistics, energy price statistics, energy efficiency indicators...
- **Interagency cooperation crucial:** Creation of national Energy Statistics Working Groups involving Statistics Office, Ministry of Energy, regulator, large energy companies
- **All countries have made good progress** and now have reasonably good official energy statistics. However, they are often under-used for policy making
- **Lack of evidence-based policies** in the region due to lack of awareness of statisticians' work, coordination and know-how (e.g. modelling of energy systems)
- Regulators can both help and benefit from a better coordination with National Statistical Offices!

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INO GATE made a difference

Countries reporting all (😊) or part (😞😞) of the 5 joint IEA/Eurostat/UNECE questionnaires to the IEA (oil, gas, coal, electricity, heat and renewables statistics)

In 2011

2011



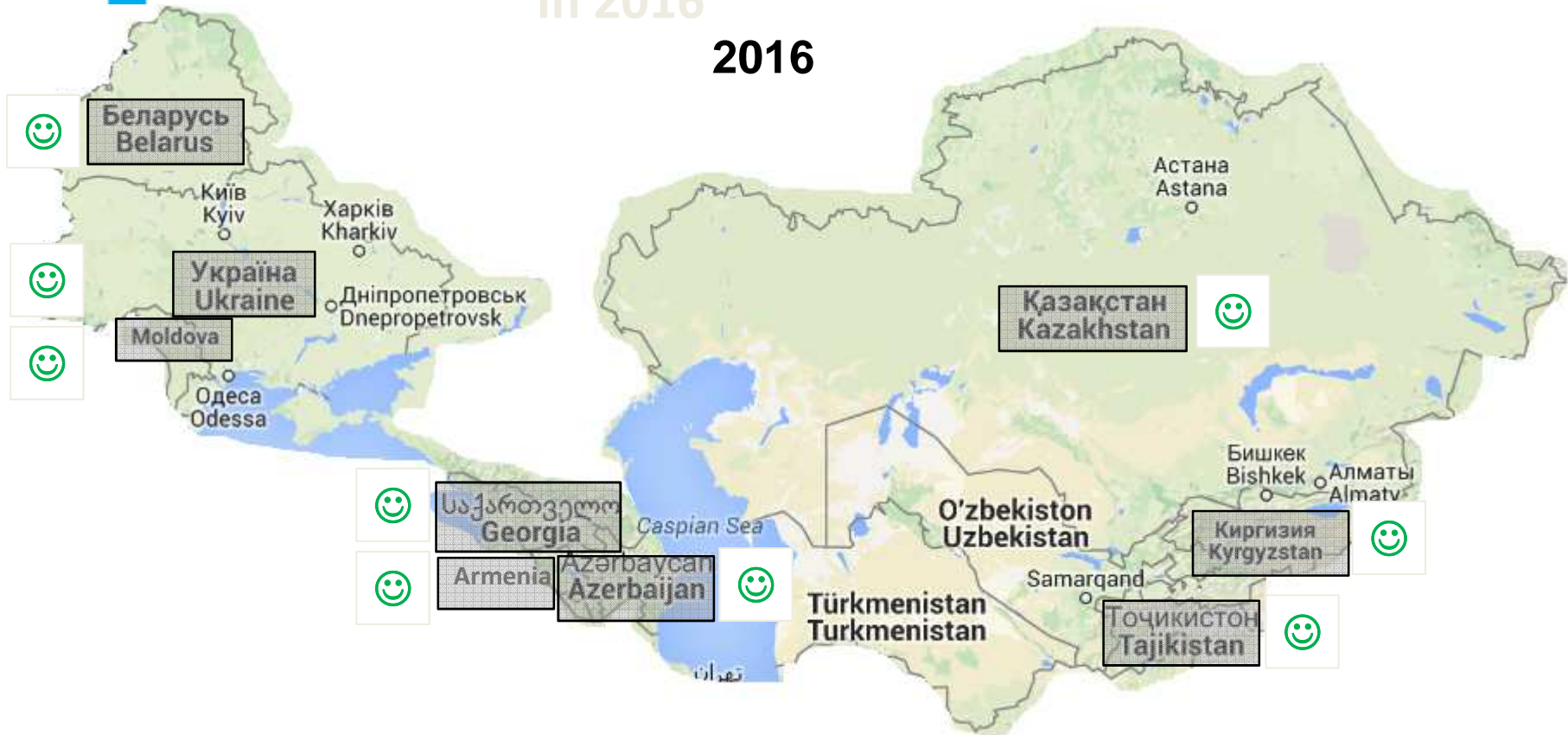
Source: IEA – High Level Conference “EU Energy Cooperation with the Eastern Neighbourhood and Central Asia, 17 March 2016, Brussels



INO GATE made a difference

In 2016

2016

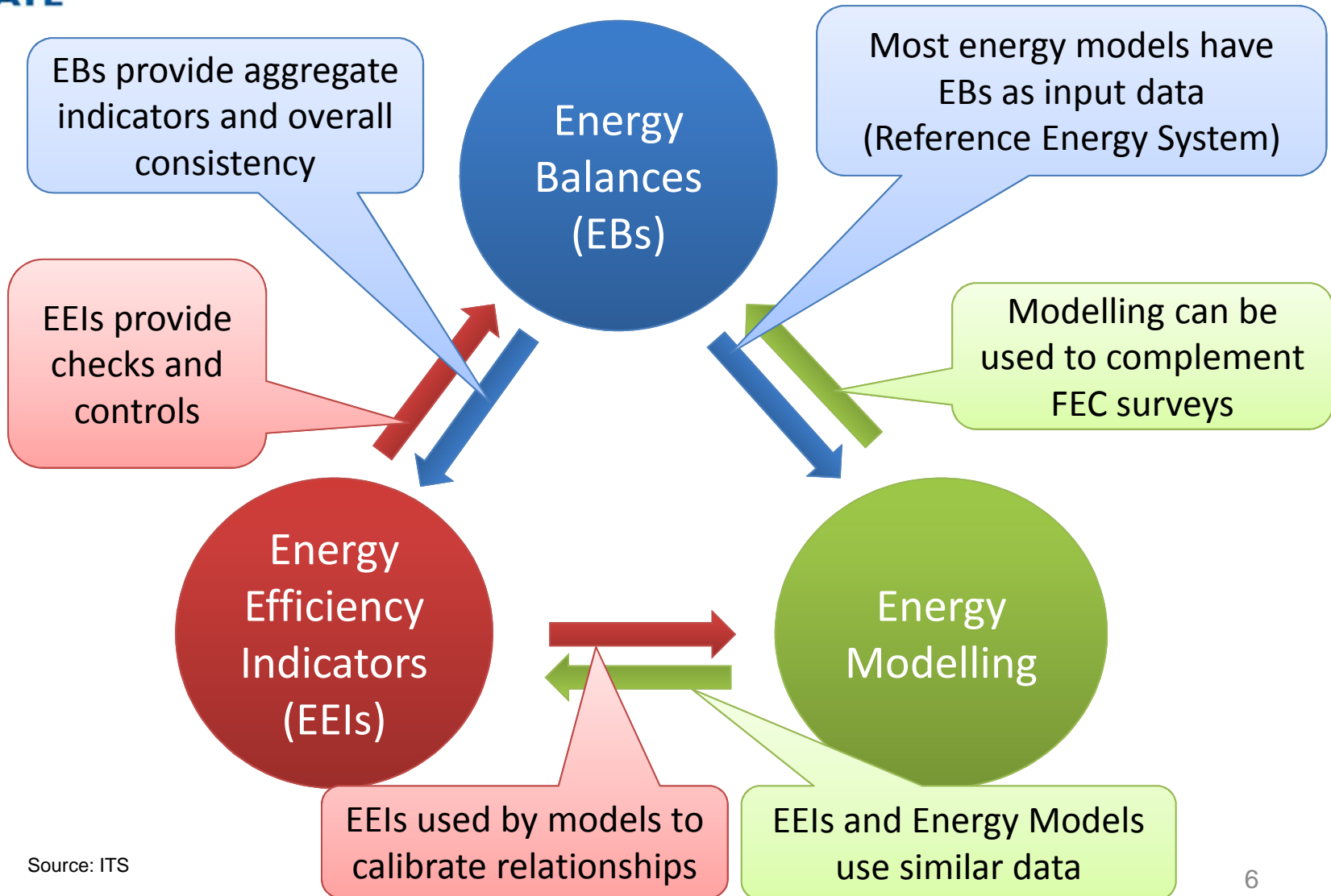


Source: IEA – High Level Conference “EU Energy Cooperation with the Eastern Neighbourhood and Central Asia, 17 March 2016, Brussels

The 3 pillars of energy system planning



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Source: ITS



Is availability of data really a problem in INOGATE PCs ?

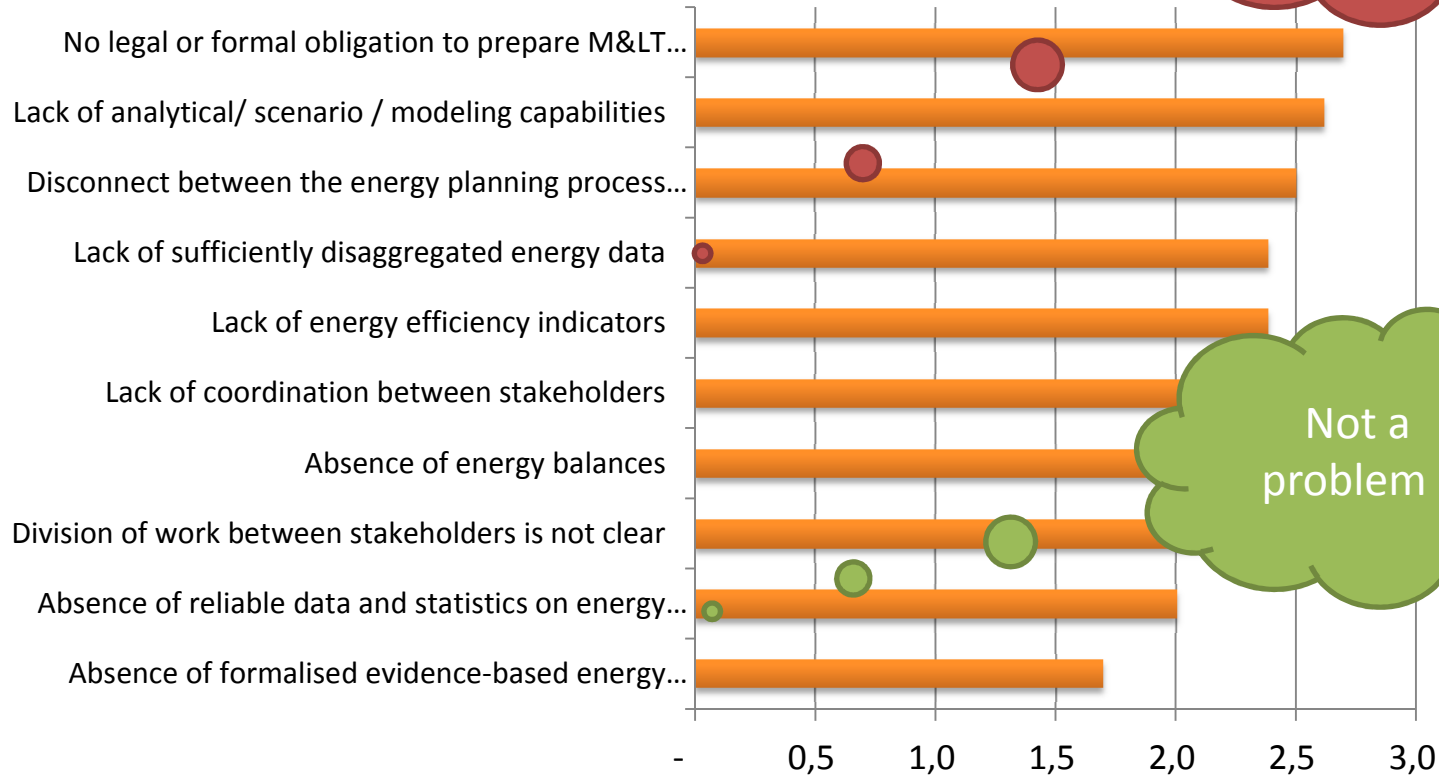
Q11. What are the main challenges for the establishment of best practices in energy planning in your country?



20 respondents / global average



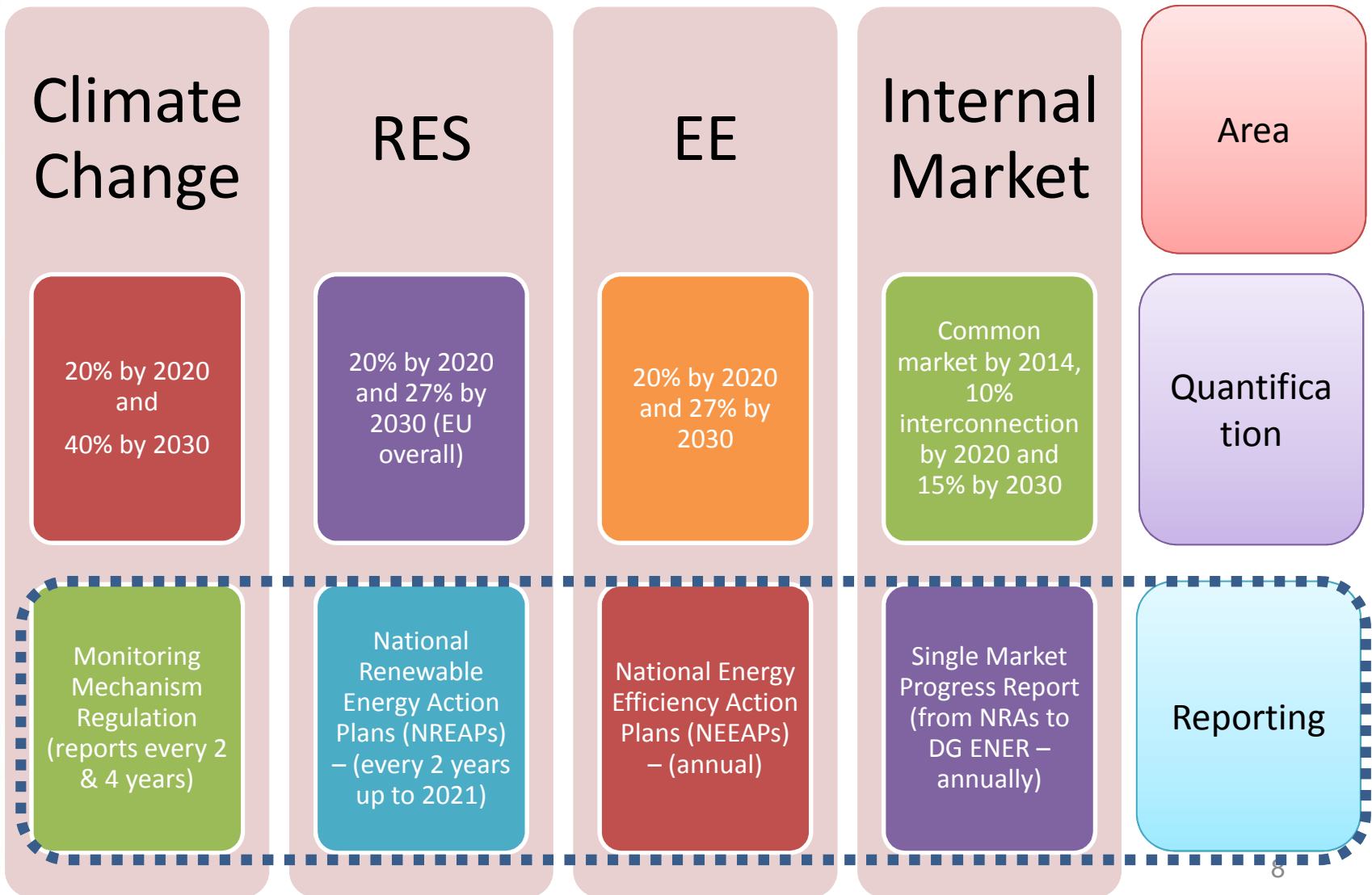
Hmm!
Somewhat a problem!





Can we make use of the EU legislation ?

(Data embedded in the reporting process)



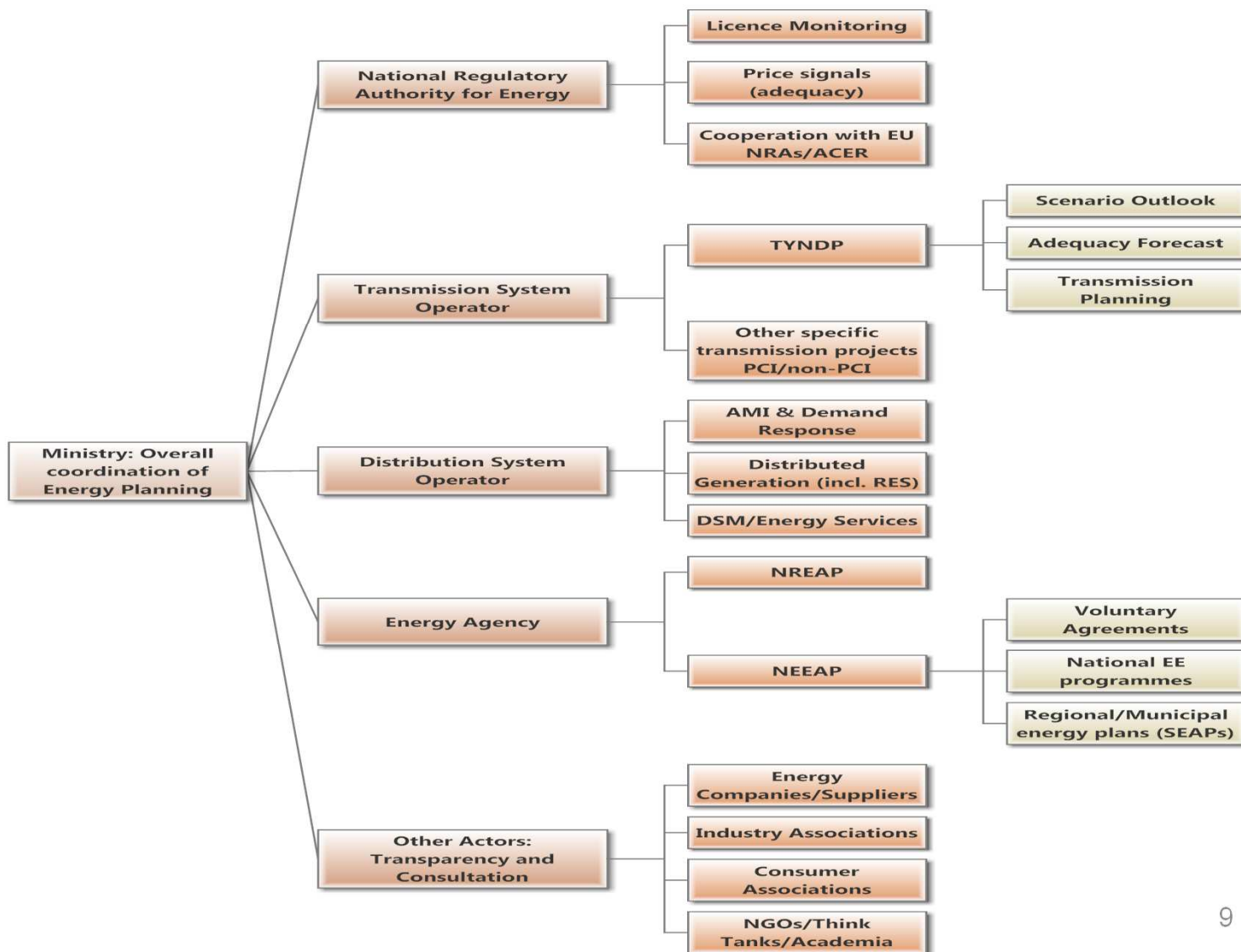
Connecting the pieces for the development a national process (example: electricity sector)



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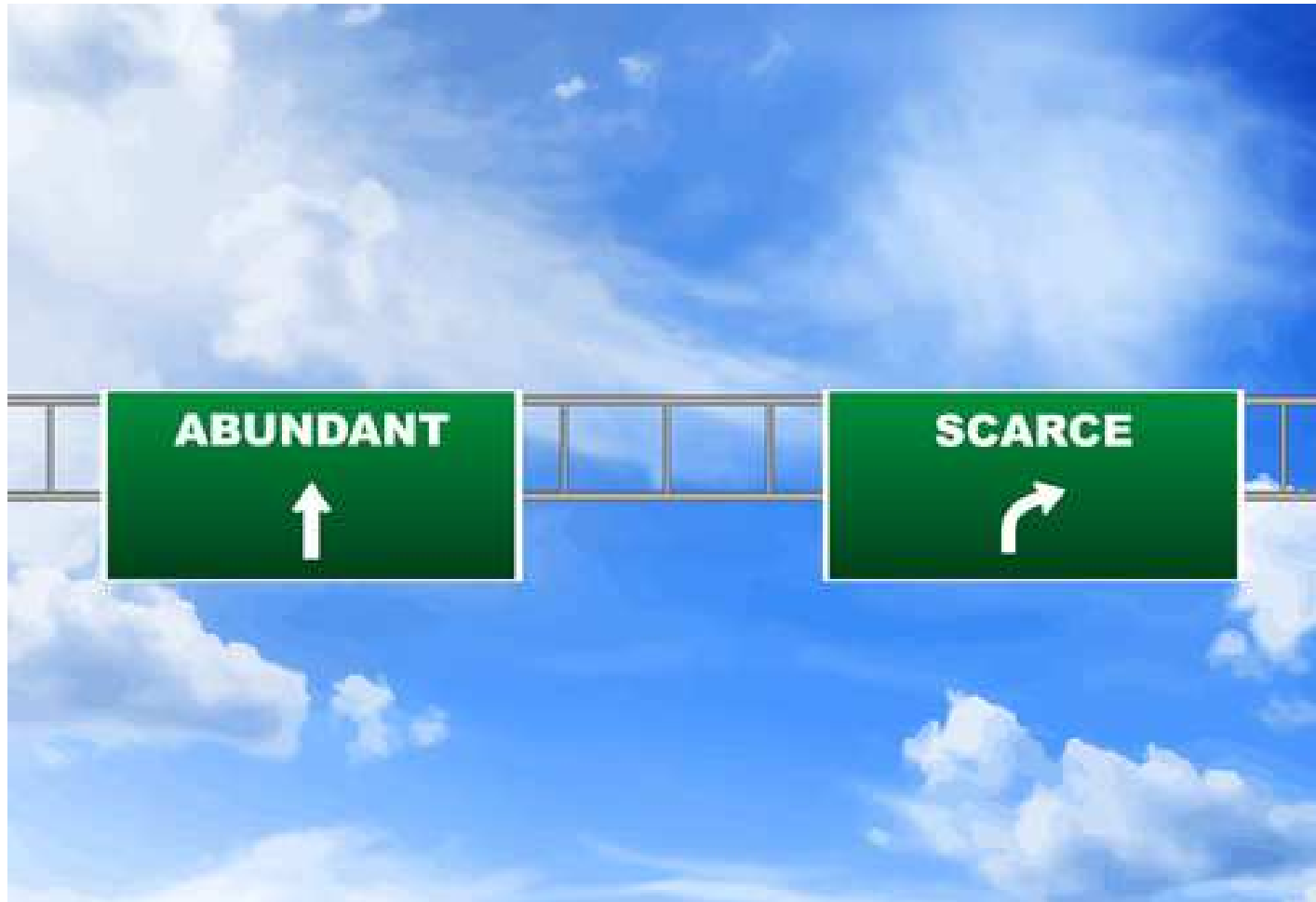


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Two data-related cases in INOGATE





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A data scarcity case

PRICE DIFFERENCES IN REGIONAL MARKETS (AGT PROJECT)

Infrastructure/Transfer Capacity



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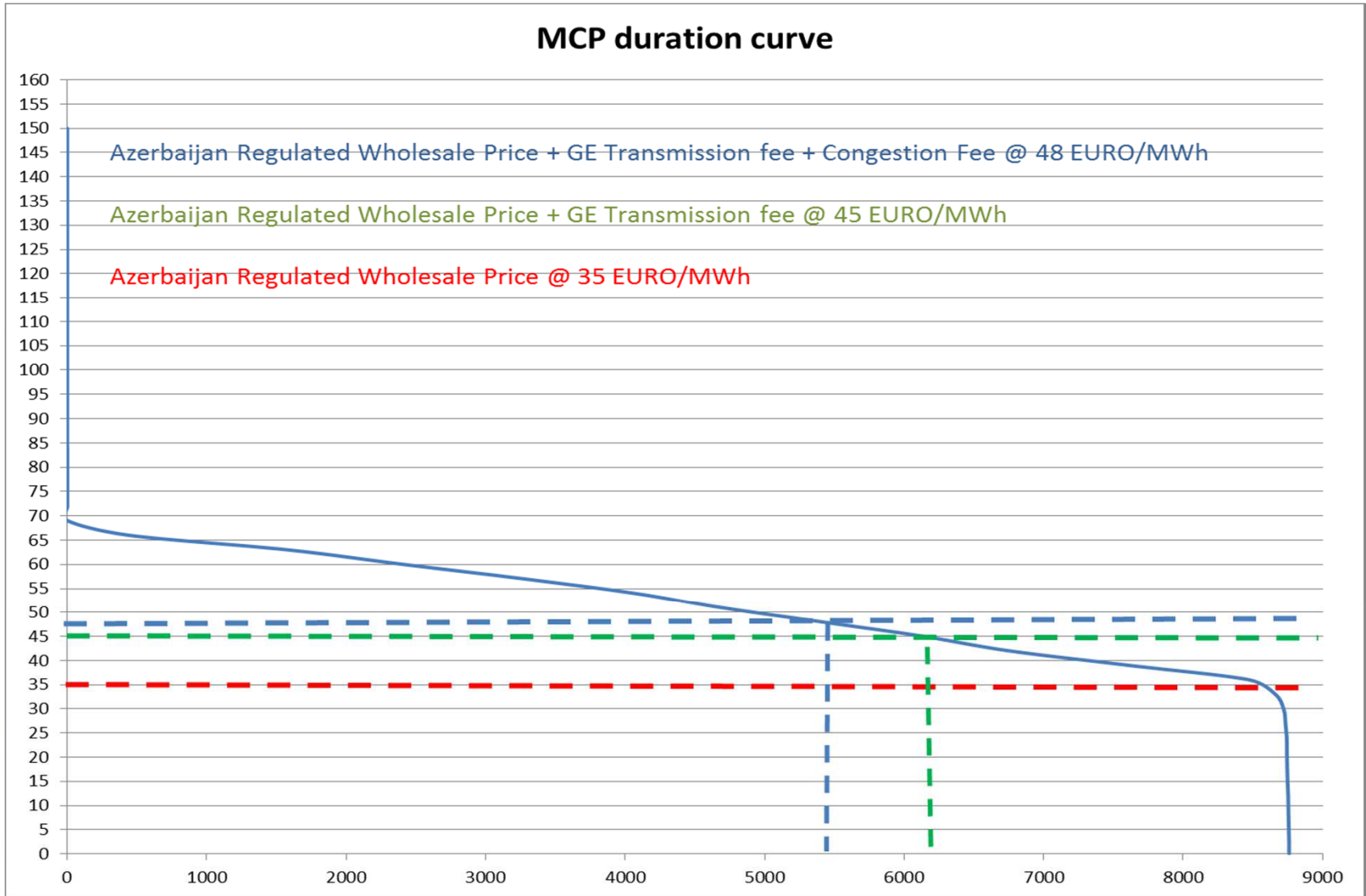


Price assumptions

- Azerbaijan Generation Price ?
 - Wholesale tariff in Azerbaijan \approx 35 €/MWh
- Georgian Transit Fee ?
 - \approx 10 - 13 €/MWh depending on whether congestion in GE-TR border exists
- Turkish wholesale Market Clearing Price (MCP)
 - Our analysis covered a full year (2014)



Price duration curve





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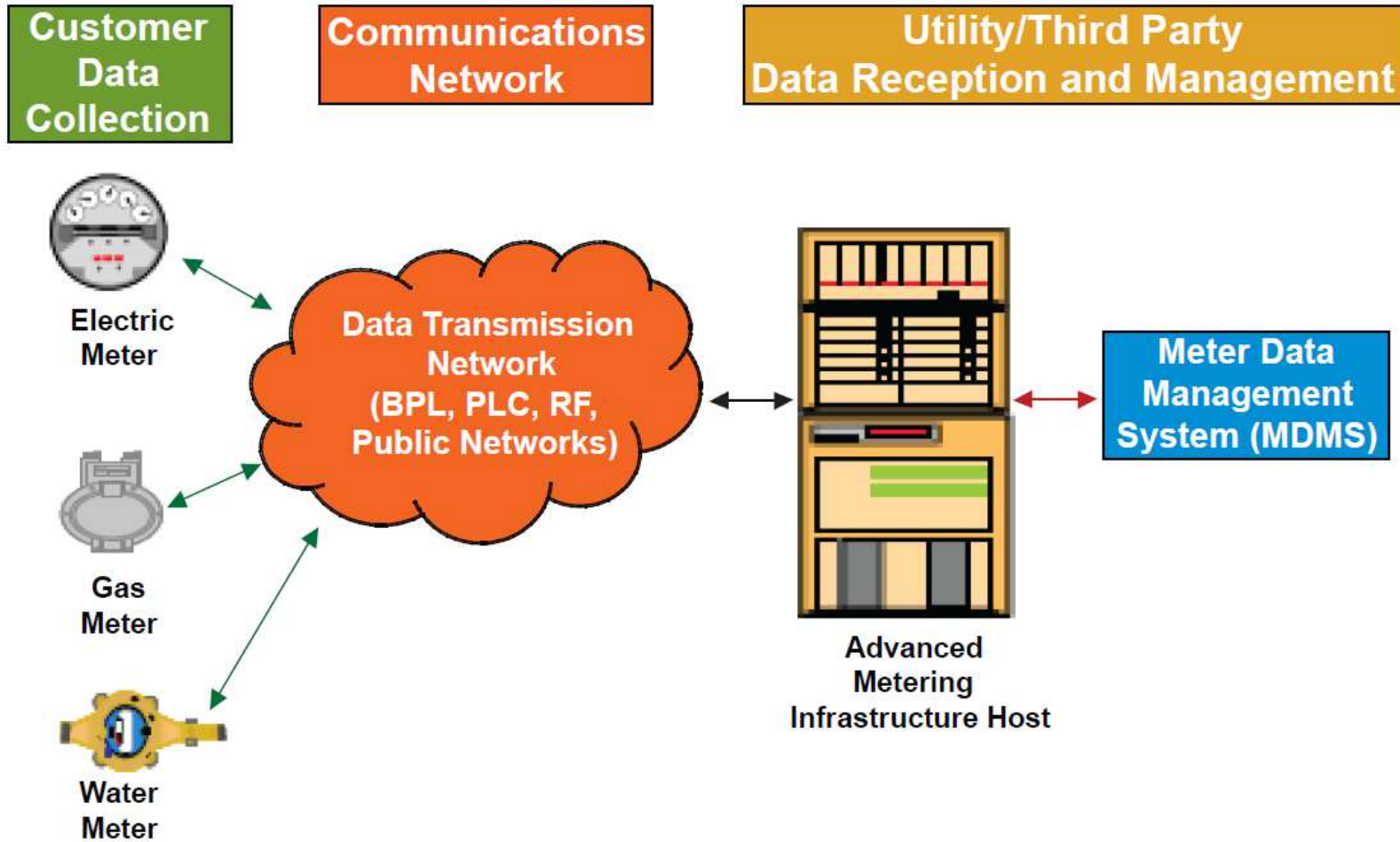
A data overflow case

**AMI PROJECT AT FLAT ENERGY RATE
(AZERENERJI PILOT PROJECT)**

AMI Overview



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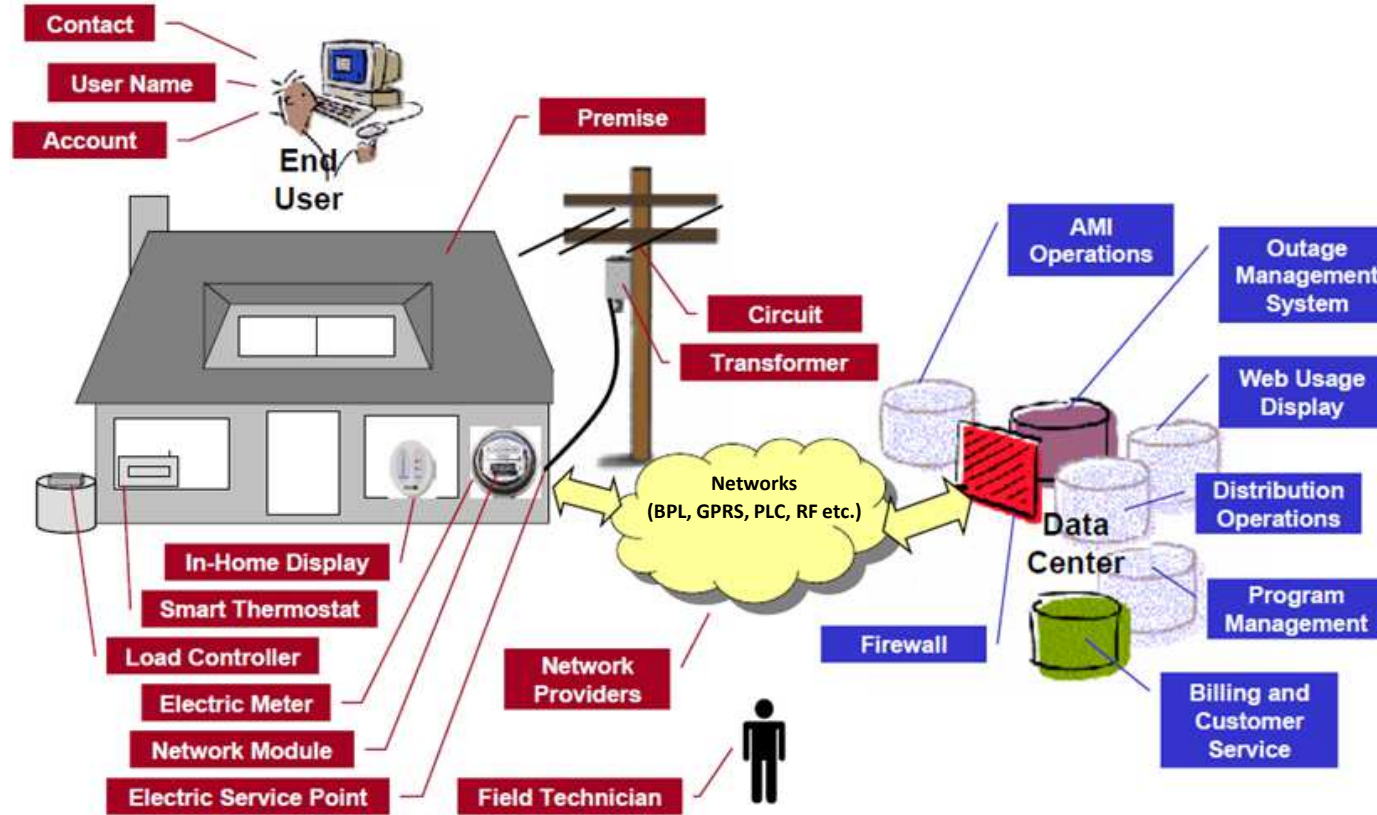
Source: EPRI



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AMI Overview (cont'd)

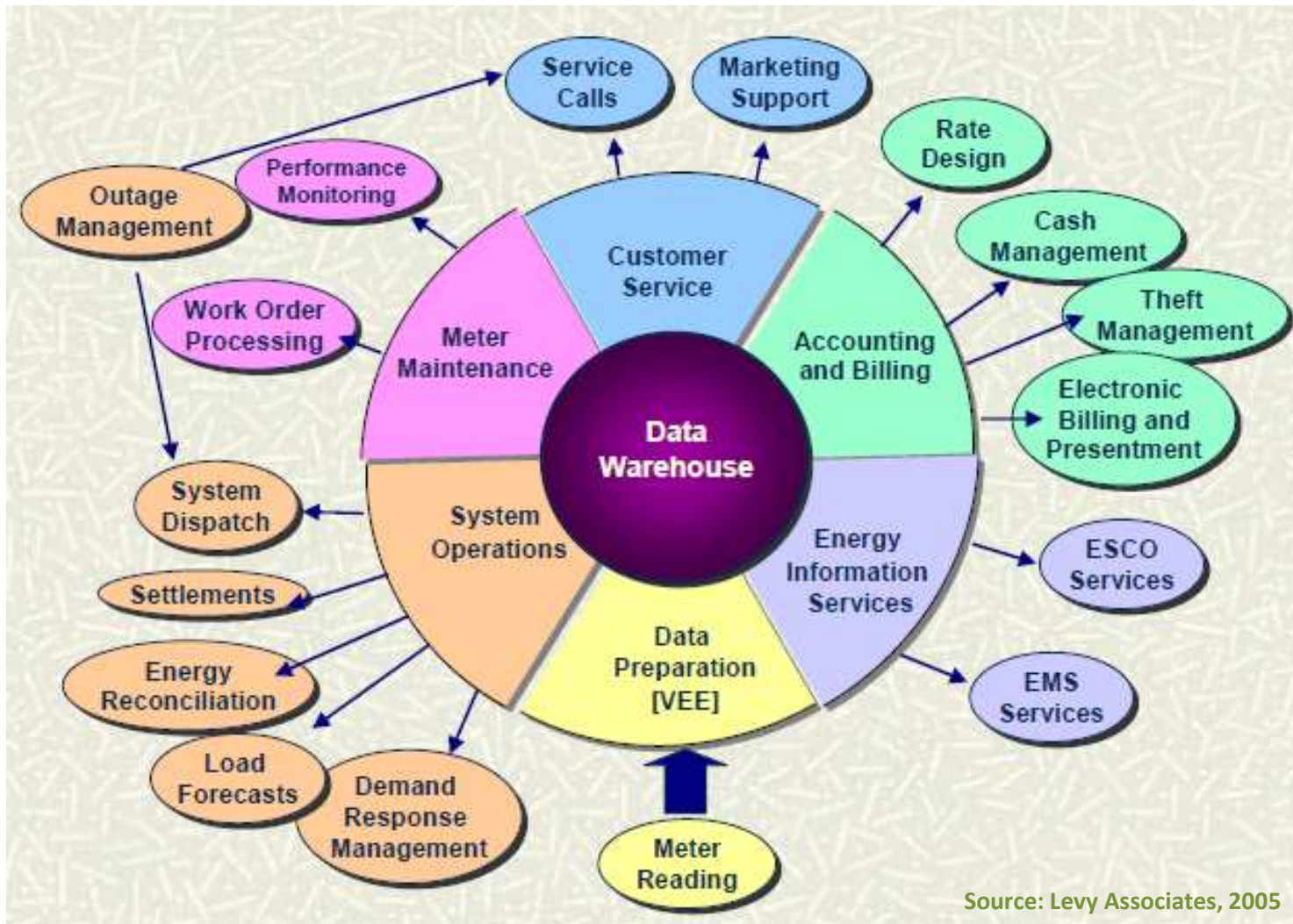


Source: eMeter

Focus on Full Utility Perspective



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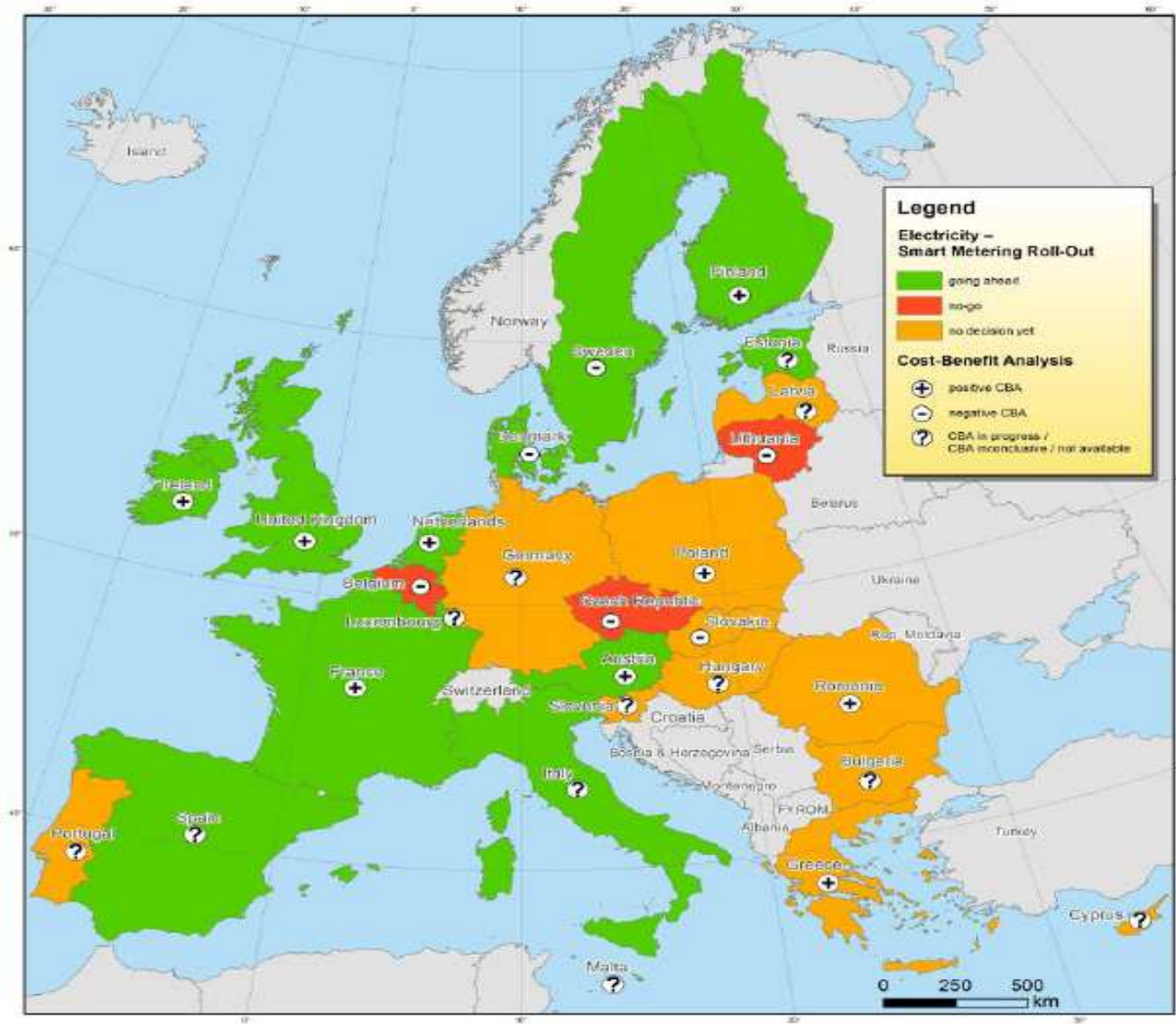


Source: Levy Associates, 2005

CBA outcomes (JRC, Jan 2013)



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Big Question – Is AMI Right For You?

- Is something “broken”?
- Does the project have senior-level advocacy?
 - Never a “trivial” effort
- Will there be political backlash from staff cuts?
- What is the condition of your existing meters?
- Is there flexibility in your procurement process?



Source: Adapted from CH2M Hill

Key takeaways !

- ✓ Availability of data is not really a problem in the EaP countries
- ✓ Disaggregation of data and making use of them still needs some way to go
- ✓ Regulators may have some data !
- ✓ Streamlining is important: EU legislation provides for a structured reporting mechanism
- ✓ This mechanism is integral to the EU and can be used for streamlining the national processes





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Спасибо!
Thank you!

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INOGATE Technical Secretariat and Integrated Programme in support of the Baku Initiative and the Eastern Partnership energy objectives