

Input by FAIRMODE to e-Reporting under the AQ Directives

- Framework -

Artur Gsella (EEA), Tony Bush (ETC/ACM),
Anke Lükewille (EEA)

FAIRMODE technical meeting, Kjeller (Norway), 28-29 of February 2014



Use of models for assessment

- Models cannot replace measurements for compliance checking when limit values are exceeded; modelling can supplement monitoring by measurements.

Modelling can support the overall compliance assessment process:

- Characterises spatial distribution of concentrations (exposure!).
 - Recognises that finding the location of highest concentration in a zone is sometimes hard...
- In combination with measurements when zone is in exceedance of the lower assessments threshold.
 - Sole use of modelling for assessing levels where pollutant levels are below the lower assessment threshold.

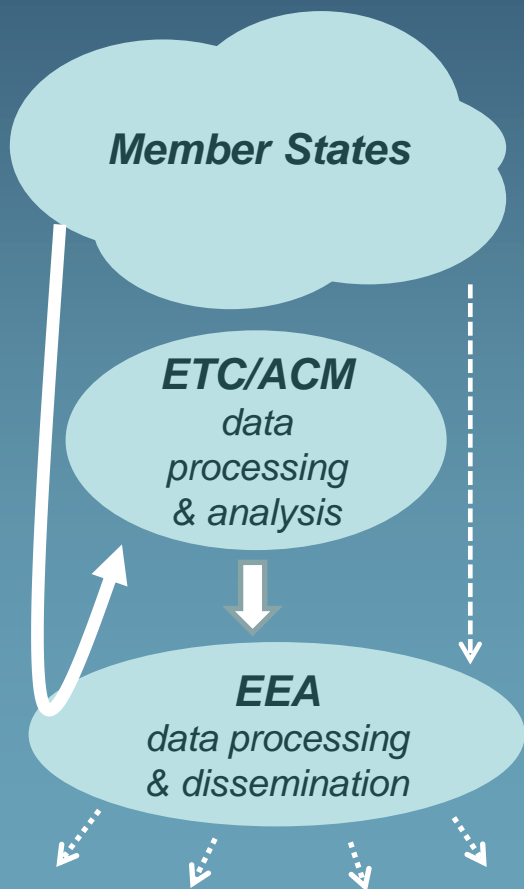
Background to modelling as an assessment method

- Modelling techniques may supplement fixed measurements or may be sufficient in assessing the ambient air quality (allowing reduction of the number of sampling points) as set out by: *Articles 6, 7 and 10 of the AQD & Article 4 of 4DD.*
- **As for measurement based assessment methods, supplementary assessment methods (here modelling) need to be described in detail → Commission Implementing Decision of 12 December 2011 (“Implementing Rules”, IPR).**

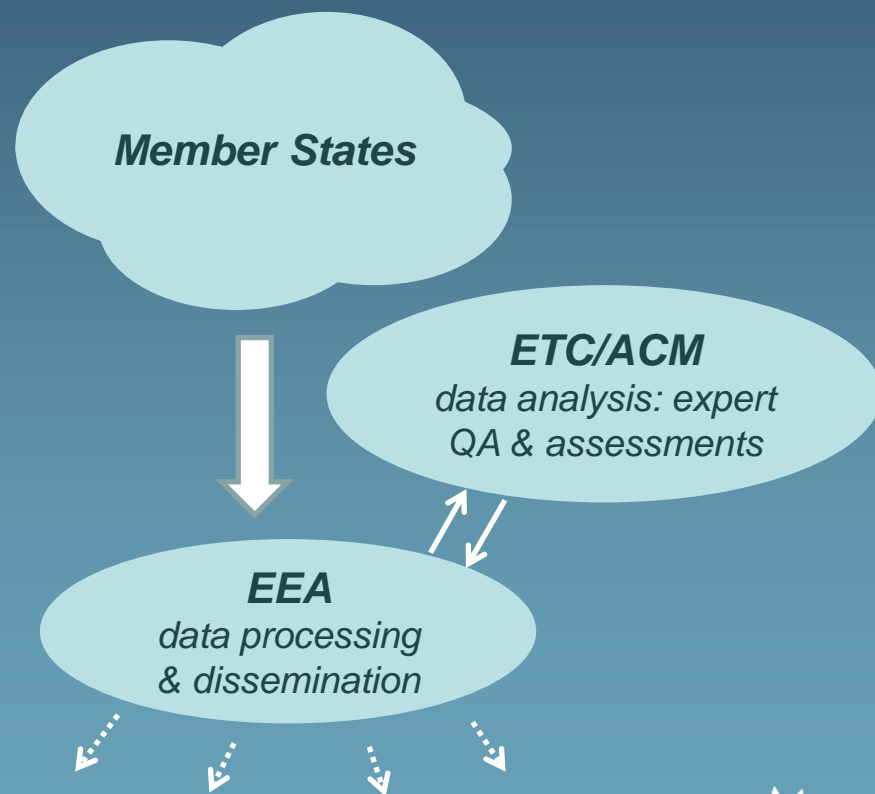


Air quality reporting in transition:

- how has it been?



- how is it going to be?



Air quality reporting in transition:

- how has it been?

Council Decision 97/101/EC of 27 January 1997 establishing a reciprocal exchange of information and data from networks and individual stations measuring ambient air pollution within the Member States

Commission Decision 2004/461/EC of 29 April 2004 laying down a questionnaire to be used for annual reporting on ambient air quality assessment under Council Directives 96/62/EC and 1999/30/EC and under Directives 2000/69/EC and 2002/3/EC of the European Parliament and of the Council (notified under document number C(2004) 1714), (Text with EEA relevance) (OJ L156, 30.04.2004, pp.78-125)

...

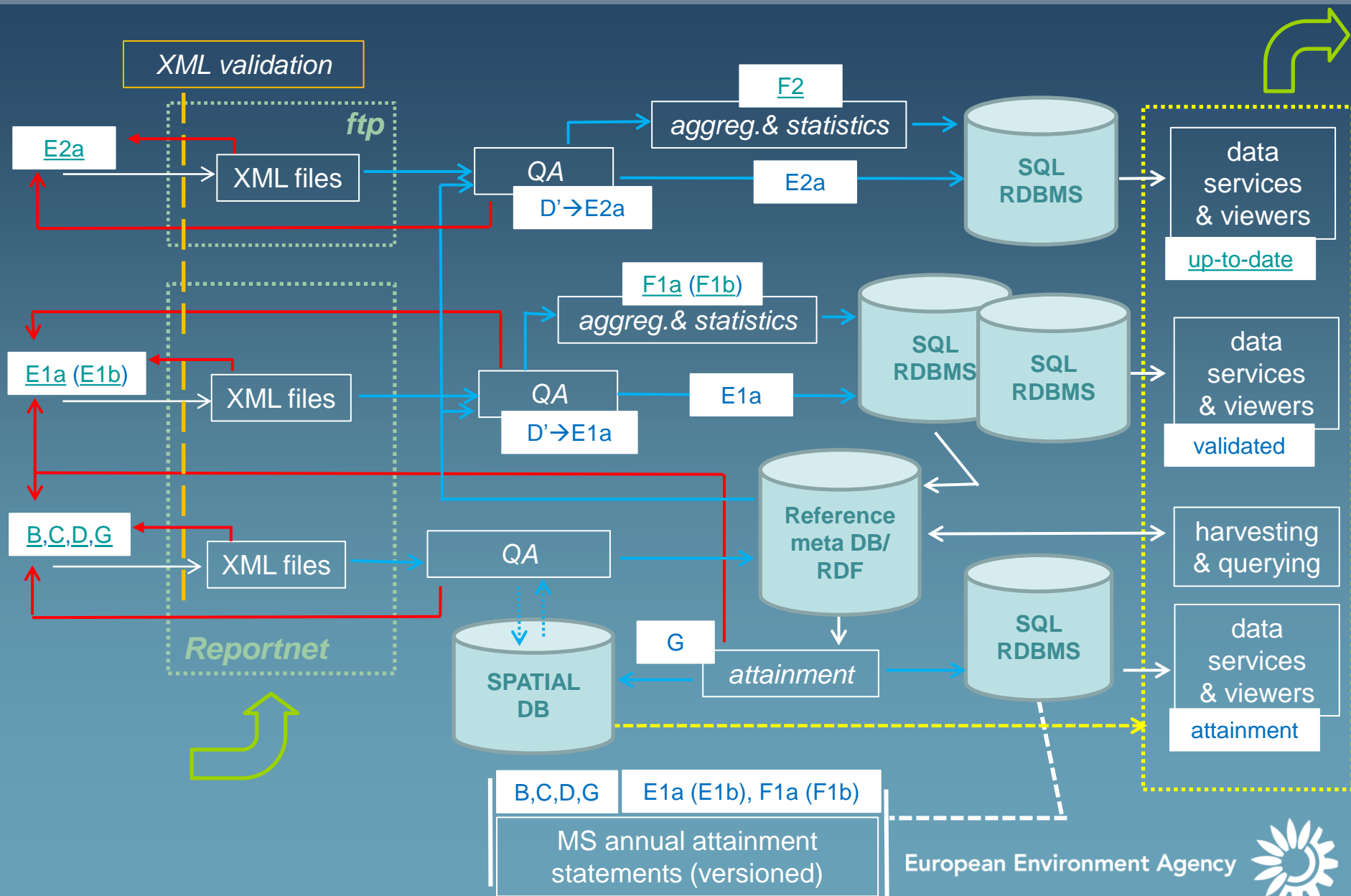
- how is it going to be?

COMMISSION IMPLEMENTING DECISION of 12 December 2011 laying down rules for Directives 2004/107/EC and 2008/50/EC of the European Parliament and of the Council as regards the reciprocal exchange of information and reporting on ambient air quality, notified under document C(2011) 9068)(2011/850/EU)



Air Quality e-Reporting (B-G) process flows at the EEA

v.03022013



Background to modelling as an assessment method

Description allows methods to be identified and checked against the **Data Quality Objectives** of the AQD and 4DD.

- Description forms **part of data flow D** - assessment method metadata.
- Modelled and objective estimation data forms **part of data flow E1b (primary)**
- → **F1b (final statistics)**

EEA, IPR decision



Input by FAIRMODE to e-Reporting under the AQ Directives

- First questions -

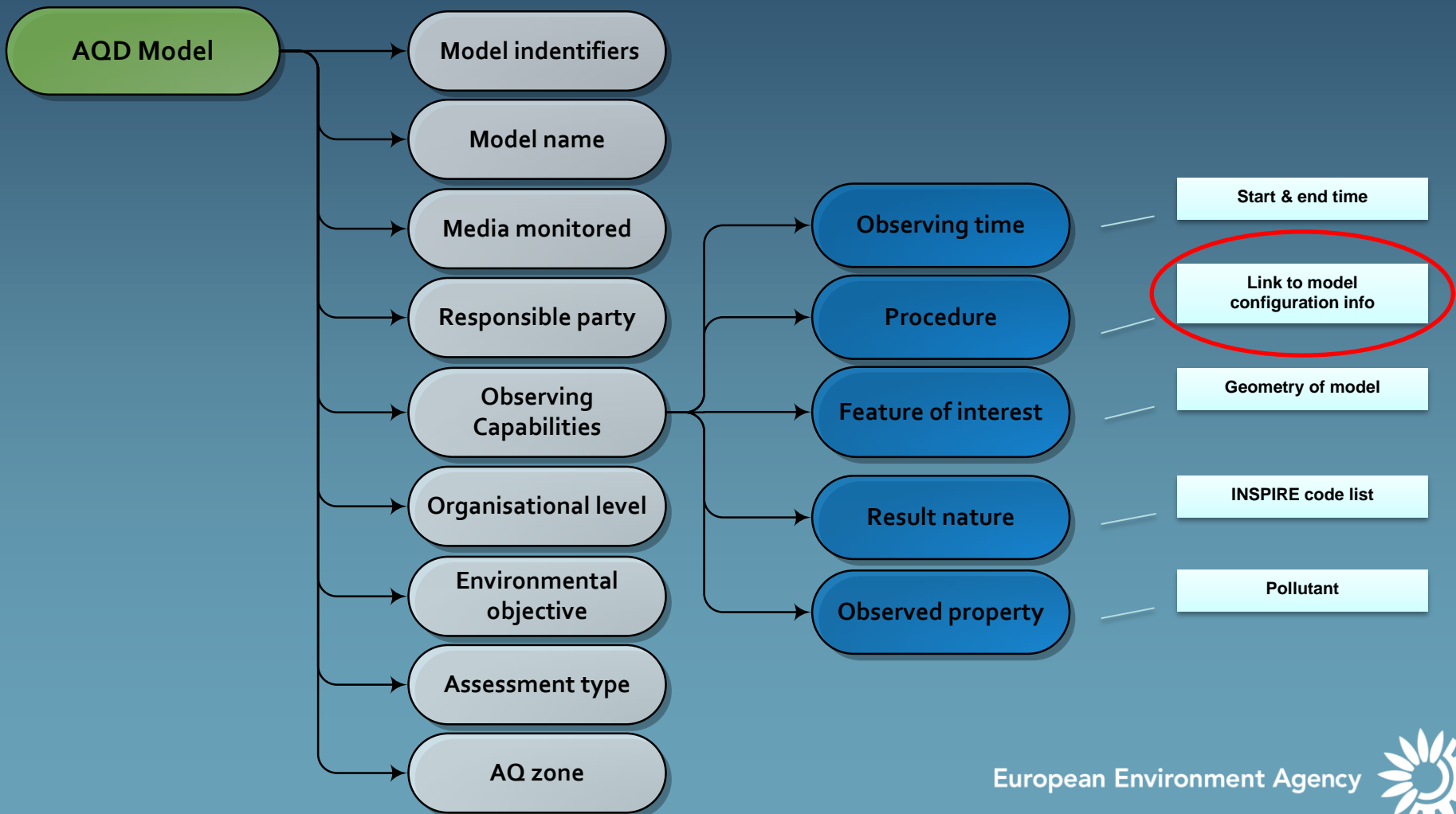
Artur Gsella (EEA), Tony Bush (ETC/ACM),
Anke Lükewille (EEA)

FAIRMODE technical meeting, Kjeller (Norway), 28-29 of February 2014



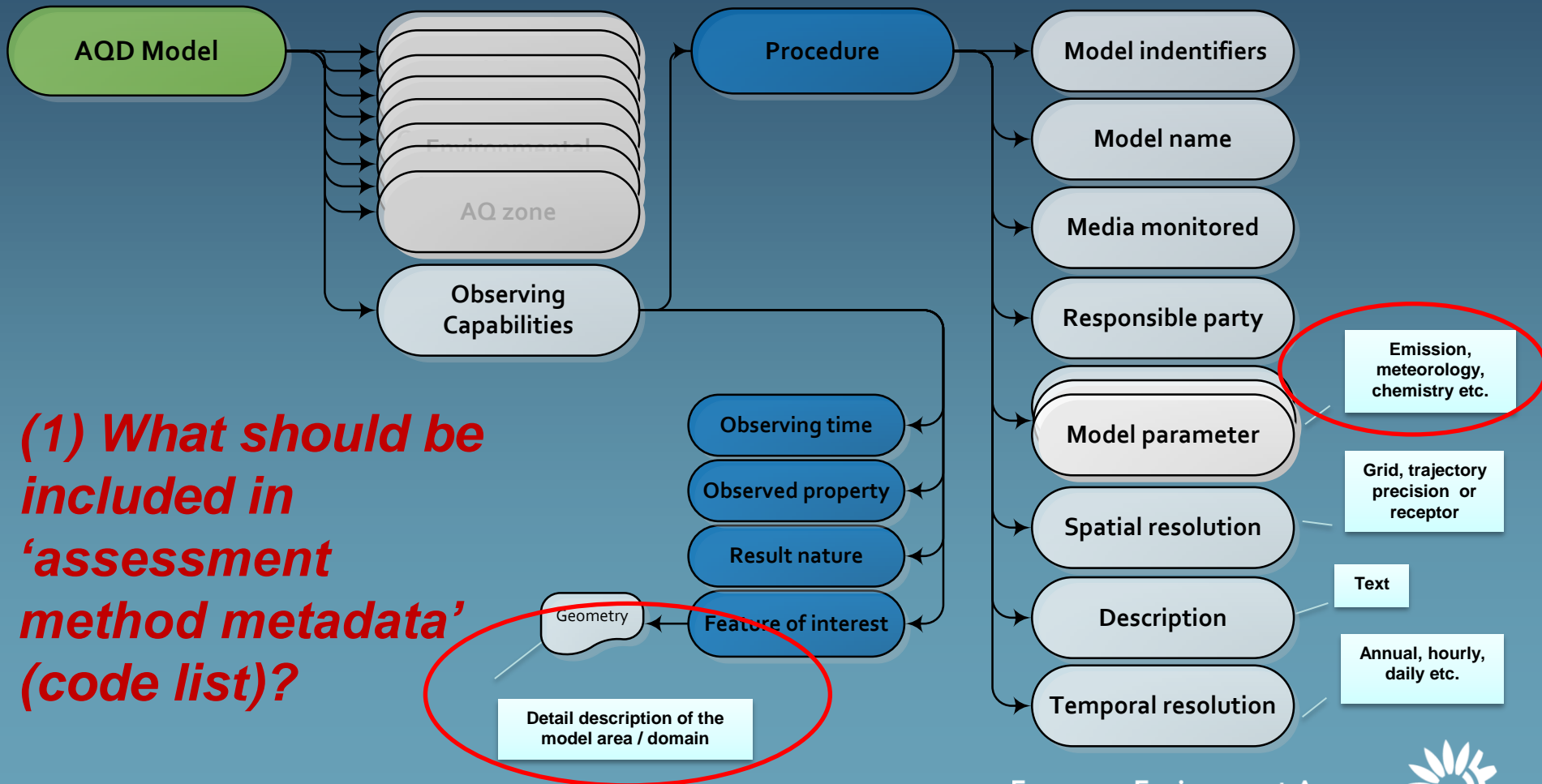
Meta-data setup for models (data flow D: assessment methods)

source: *Modelling and objective estimation data model*, by Tony Bush (ETC/ACM, Nov 2013)



Meta-data setup for models (data flow D: assessment methods)

source: Modelling and objective estimation data model, by Tony Bush (ETC/ACM, Nov 2013)



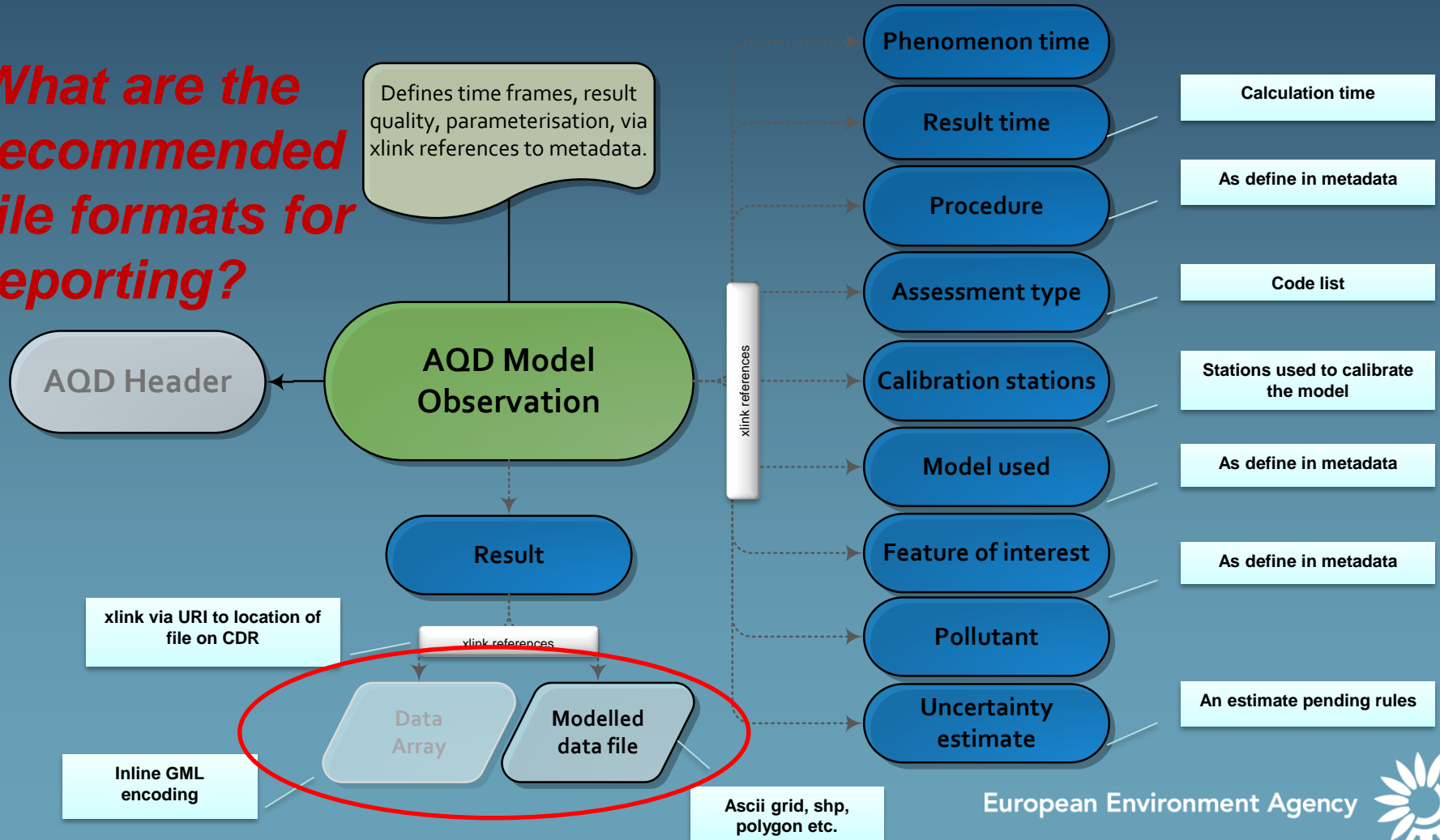
(1) What should be included in 'assessment method metadata' (code list)?



Data setup for models (data flow E1b: primary modelling results)

source: *Modelling and objective estimation data model*, by Tony Bush (ETC/ACM, Nov 2013)

What are the recommended file formats for reporting?



Draft timetable for the e-Reporting of modelling results

(EEA e-Reporting development plan)

- Consensus on how to report modelling data (generic list of model input parameters, common format for modelling results, possible updates of the data model & AQ-XSD...): **2014.**
- Capacity building - MS able to report modelling results in agreed formats: **mid 2015.**
- EEA ready to ingest the data from models, store it and use it for assessments and analysis: **2015 - 2016.**



First input by FAIRMODE?

By IPR Pilot meeting 12-13 June 2014:

- Formats for delivering AQ assessment data – first recommendations
- Expert opinion on the ‘model parameters’ (code list)

Basis: Detailed questions prepared by EEA (Artur Gsella)

IPR Pilot meeting 25-27 November 2014:

- Possibility of FAIRMODE expert group meeting at EEA (back to back, one day) if FAIRMODE is interested in organising this

Thanks in advance!

More info, questions

Air quality reporting in transition:

The e-Reporting [timeline](#)

For more information visit:

<http://www.eionet.europa.eu/aqportal>

Questions to EEA: artur.gsella@eea.europa.eu

Transition to e-Reporting: overview and current status

