Natural sources contribution

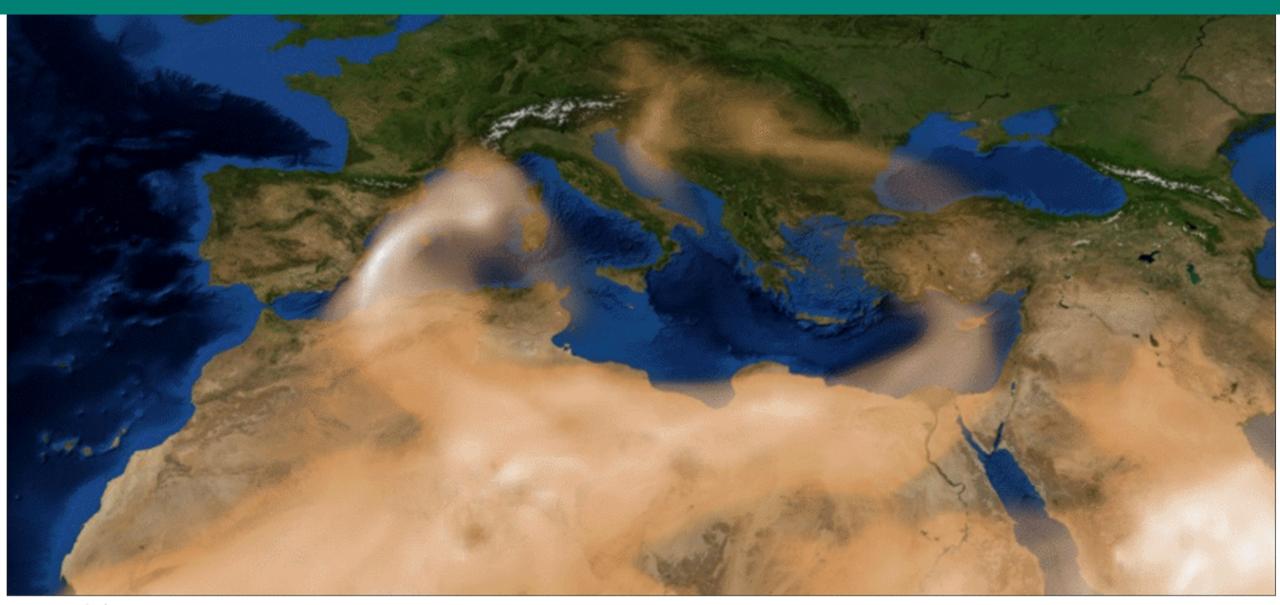
Jaume Targa







Natural sources contribution











KEY QUESTIONS!

- Should we report corrected data?
- Is it sufficient to quantify correction in G?





KEY QUESTIONS!

- Should we report corrected data?
 - MUST REPORT CORRECTION VALUES
 - NO CORRECTED
- Is it sufficient to quantify correction in G?





KEY QUESTIONS!

- Should we report corrected data?
- Is it sufficient to quantify correction in G?
 - -NO
 - -DG ENV REQUIRES DATA TO BE PROVIDED

UNDER D1B+E1B







Proposal & discussion

- Types of contribution
- Reporting
- Discussion





Type of contribution

- Contribution can be calculated from
 - Direct measurements
 - Modelling
 - A combination of both
- Meta-data D/D1b and data E1a/E1b will depend on how
 - it is calculated







Type of contribution

However, which ever type...

We are expecting countries to report the CORRECTION

VALUES not the CORRECTED





Direct measurements

• SIMPLE example:

- Direct Na & Cl measurements in PM10
- Report SPOs in D
- Report data under E1a



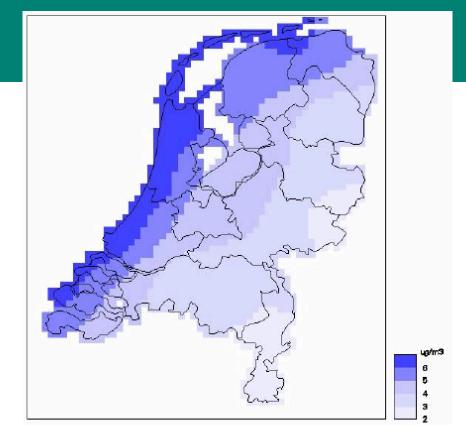




Modelling

"SIMPLE" modelling example:

- Modelled NaCl
- Report Model in D1b
- Report data under E1b







- Complex contribution calculation:
 - Identification of episode days

- Quantification of daily contribution at background stations
- Quantification at each SPO level





- If contribution looks like a timeseries:
 - Data to be reported as timeseries
 - D1b

2017-01-01T00:00:00,2017-01-01T24:00:00,3,1,37.4@@2017-01-02T00:00:00,2017-01-02T24:00:00,3,1,34.3 04T00:00:00,2017-01-04T24:00:00,3,1,60.5@@2017-01-05T00:00:00,2017-01-05T24:00:00,3,1,34.5@@2017-0 $07 \\ \textbf{T00:} \\ 00: \\ 00: \\ 00: \\ 2017 \\ -01 \\ -08 \\ \textbf{T24:} \\ 00: \\ 00: \\ 3, \\ 1, \\ 53: \\ 0002017 \\ -01 \\ -08 \\ \textbf{T00:} \\ 00: \\ 00: \\ 00: \\ 2017 \\ -01 \\ -08 \\ \textbf{T24:} \\ 00: \\ 00: \\ 3, \\ 1, \\ 51: \\ 3002017 \\ -01 \\ -08 \\ \textbf{T00:} \\ 00:$ 10T00:00:00,2017-01-10T24:00:00,3,1,26.8@@2017-01-11T00:00:00,2017-01-11T24:00:00,3,1,42.3@@2017-0 13T00:00:00,2017-01-13T24:00:00,3,1,23.5@2017-01-14T00:00:00,2017-01-14T24:00:00,3,1,24.6@2017-0 22T00:00:00,2017-01-22T24:00:00,3,1,31.9002017-01-23T00:00:00,2017-01-23T24:00:00,3,1,33.6002017-01 25T00:00:00,2017-01-25T24:00:00,3,1,49.9002017-01-26T00:00:00,2017-01-26T24:00:00,3,1,24.5002017-01 28T00:00:00,2017-01-28T24:00:00,3,1,31.5002017-01-29T00:00:00,2017-01-29T24:00:00,3,1,23.6002017-01 06T00:00:00; 00, 2017-02-06T24:00:00, 3, 1, 43.5@2017-02-07T00:00:00, 2017-02-07T24:00:00, 3, 1, 27.4@2017-02-07T00:00; 00, 2017-02-07T04:00:00, 3, 1, 27.4@2017-02-07T00:00; 00, 2017-02-07T00:00; 00, 2017-0000; 00, 2017-000; 00, 2017-000; 00, 2017-000; 00, 2017-000; 00, 212T00:00:00,2017-02-12T24:00:00,3,1,23.9@@2017-02-13T00:00:00,2017-02-13T24:00:00,3,1,27.0@@2017-0 $15 \\ \mp 00:00:00:00,2017-02-15 \\ \mp 24:00:00,3,1,36.20 \\ \pm 2017-02-16 \\ \pm 00:00:00:00,2017-02-16 \\ \pm 24:00:00,3,1,40.70 \\ \pm 2017-02-16 \\ \pm 20$ $18 \\ \textbf{100:00:00:00,2017-02-18T24:00:00,3,1,23.8662017-02-19T00:00:00,2017-02-19T24:00:00,3,1,23.0662017-02-19T00:00,2017-02-19T00:00,2017-02-19T00:00,3,1,23.0662017-02-19T00:00,3,1,23.065017-00-19T0$ 21T00:00:00,2017-02-21T24:00:00,3,1,32.1@@2017-02-22T00:00:00,2017-02-22T24:00:00,3,1,40.6@@2017-0 24T00:00:00,2017-02-24T24:00:00,3,1,16.9@@2017-02-25T00:00:00,2017-02-25T24:00:00,3,1,40.0@@2017-0 27T00:00:00,2017-02-27T24:00:00,3,1,19.4@@2017-02-28T00:00:00,2017-02-28T24:00:00,3,1,23.5@@2017-0 02T00:00:00,2017-03-02T24:00:00,3,1,30.4@@2017-03-03T00:00:00,2017-03-03T24:00:00,3,1,21.3@@2017-0 05T00:00:00,2017-03-05T24:00:00,3,1,19.8@@2017-03-06T00:00:00,2017-03-06T24:00:00,3,1,34.3@@2017-0 11T00:00:00,2017-03-11T24:00:00,3,1,20.5@22017-03-12T00:00:00,2017-03-12T24:00:00,3,1,20.6@22017-0

> 14T00:00:00,2017-03-14T24:00:00,3,1,25.5@22017-03-15T00:00:00,2017-03-15T24:00:00,3,1,34.4@22017-0 17T00:00:00,2017-03-17T24:00:00,3,1,31.1@2017-03-18T00:00:00,2017-03-18T24:00:00,3,1,31.1@2017-0

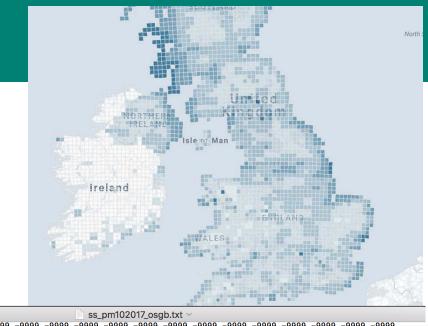
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http://cdr.eionet.europa.eu/pt/eu/aqd/e1b/envw6n PT-E1B-2017.xml

- If contribution looks like a MODEL:
 - Data to be reported as MODEL
 - D1b
 - E1b using external file like:
 - ESRI SHAPE
 - **ASCII**

– ...

https://cdr.eionet.europa.eu/gb/eu/aqd/e1b/envw8h8i



```
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```

If contribution looks like...

- A) Turn them into timeseries (provide daily PM₁₀ Correction)
- B) Model data of annual/daily PM₁₀ corrections





Direct measurements + modelling ENSURE

- E1b is reported using aggregation code list
- No hourly data!!!
- Minimum reporting data is DAILY
- CORRECTION VALUES







Pollutant

 Internal discussions if we should create specific pollutant code list for correction

- HOWEVER, CURRENT GUIDANCE ARE:
- Report data as /1, /5 or /6001





Discussion – identify in D1b & E1b

- Should we identify in D1b & E1b that the assessment method and data are for CORRECTING? - NO
- Is it sufficient to identify these at Assessment Regime &
 Attainment level?? YES, FOR NOW!





Discussion – id

▼<gml:featureMember>

</gml:featureMember>

ASSESSMENT

REGIME (C)

```
▼<aqd:inspireId>
                                              ▼<base:Identifier>
                                                 <base:localId>ARE-PT3001_00005_H_LV_daysAbove_2017/base:localId>
                                                 <base:namespace>PT.APA.AQ</base:namespace>
                                               </base:Identifier>
                                             </aqd:inspireId>
                                             <aqd:pollutant xlink:href="http://dd.eionet.europa.eu/vocabulary/aq/pollutant/5"/>
                                            ▼<aqd:assessmentThreshold>
                                              ▼<aqd:AssessmentThreshold>
                                               ▼<aqd:environmentalObjective>
                                                 ▼ <aqd:EnvironmentalObjective>
                                                    <aqd:objectiveType xlink:href="http://dd.eionet.europa.eu/vocabulary/aq/objectivetype/LV"/>
                                                    <aqd:reportingMetric xlink:href="http://dd.eionet.europa.eu/vocabulary/aq/reportingmetric/daysAbove"/>
                                                    <aqd:protectionTarget xlink:href="http://dd.eionet.europa.eu/vocabulary/aq/protectiontarget/H"/>
                                                  </agd:EnvironmentalObjective>
                                                 </agd:environmentalObjective>
                                                 <aqd:exceedanceAttainment xlink:href="http://dd.eionet.europa.eu/vocabulary/ag/assessmentthresholdexceedance/aboveUAT"/>
                                               ▼<aqd:classificationDate>
                                                 v<gml:TimeInstant gml:id="ARE-PT3001_00005_H_LV_daysAbove_2017.Date">
                                                    <gml:timePosition>2017-12-31/gml:timePosition>
                                                  </gml:TimeInstant>
                                                 </aqd:classificationDate>
                                                 <agd:classificationReport>http://qualar.apambiente.pt/</agd:classificationReport>
                                               </aqd:AssessmentThreshold>
                                             </aqd:assessmentThreshold>
                                            ▼<aqd:assessmentMethods>
                                              ▼<aqd:AssessmentMethods>
                                                 <aqd:assessmentType xlink:href="http://dd.eionet.europa.eu/vocabulary/aq/assessmenttype/model"/>
                                                 <aqd:assessmentTypeDescription>Description of the modeling for adjusting</aqd:assessmentTypeDescription>
                                                <aqd:modelAssessmentMetadata xlink:href="PT.APA.AQ/MOD-PT00081"/>
                                               </aqd:AssessmentMethods>
                                             </agd:assessmentMethods>
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                                                 <aqd:assessmentType xlink:href="http://dd.eionet.europa.eu/vocabulary/ag/assessmenttype/fixed"/>
▼<aqd:assessmentMethods>
  ▼<aqd:AssessmentMethods>
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      <aqd:assessmentTypeDescription>Description of the modeling for adjusting</aqd:assessmentTypeDescription>
      <agd:modelAssessmentMetadata xlink:href="PT.APA.AQ/MOD-PT00081"/>
    </aqd:AssessmentMethods>
                                              <aqd:zone xlink:nrei="PT.APA.AQ/ZON-PT3001"</pre>
```

v<aqd:AQD AssessmentRegime gml:id="ARE-PT3001 00005 H LV daysAbove 2017">

</aqd:AQD AssessmentRegime>

Discussion – identify in D1b & E1b

G – link to model used for adjusting PM10

```
▼<aqd:exceedanceDescriptionAdjustment>
 ▼<aqd:ExceedanceDescription>
    <aqd:exceedance>false</aqd:exceedance>
    <aqd:numberExceedances>25</aqd:numberExceedances>
   ▼<aqd:deductionAssessmentMethod>
     ▼ <aqd:AdjustmentMethod>
      ▼<aqd:assessmentMethod>
        ▼<aqd:AssessmentMethods>
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           <aqd:assessmentTypeDescription>model</aqd:assessmentTypeDescription>
           <aqd:modelAssessmentMetadata xlink:href="PT.APA.AQ/MOD-PT00081"/>
         </aqd:AssessmentMethods>
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        <aqd:adjustmentSource xlink:href="http://dd.eionet.europa.eu/vocabulary/ag/adjustmentsourcetype/G2"/>
      </aqd:AdjustmentMethod>
    </agd:deductionAssessmentMethod>
   ▼<aqd:exceedanceArea>
     ▼ <aqd: ExceedanceArea>
        <aqd:areaClassification xlink:href="http://dd.eionet.europa.eu/vocabulary/aq/areaclassification/urban"/>
        <aqd:stationUsed xlink:href="PT.APA.AQ/SPO-PT03100 00005 100"/>
      </aqd:ExceedanceArea>
    </aqd:exceedanceArea>
   </aqd:ExceedanceDescription>
 </aqd:exceedanceDescriptionAdjustment>
```

Any Questions?







EEA-ETC/ACM contact:Jaume Targa (4sfera Innova)

Principal consultant

AQD IPR e-Reporting Helpdesk: aqipr.helpdesk@eionet.europa.eu

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