

H-K Dataflows Overview

*EEA & ETC-ATNI work
compiled by Luca Liberti*



Presentation Plan

- Overview of H-K
- When and what to report
- How to report
- H-K entities lifecycle
- Special cases
- Papers pitfalls

Overview of AQ Plans – Definitions

- **What are AQ Plans?**
AQ Plans report regulatory information on air quality management
- **When is AQ Plans reporting required?**
Reporting is required within 2 years from the year of first exceedance
- **AQ Plans information is reported in dataflows H-K**
- **Measures for BaP and metals in PM10 can be delivered using only K dataset**

Overview of AQ Plans – Dataflow H-K content

- **Dataflow H – AQ Plan**

General information on the regulatory measures taken to address one or more exceedances of one or more pollutant. It acts as a container for the rest of the information.

- **Dataflow I – Source Apportionment**

Quantification of the contribution to the exceedance from various emission sources e.g. Agriculture, Traffic etc.

- **Dataflow K – Measure**

Detailed information on specific actions taken to address exceedances including economic data.

- **Dataflow J – Evaluation scenario**

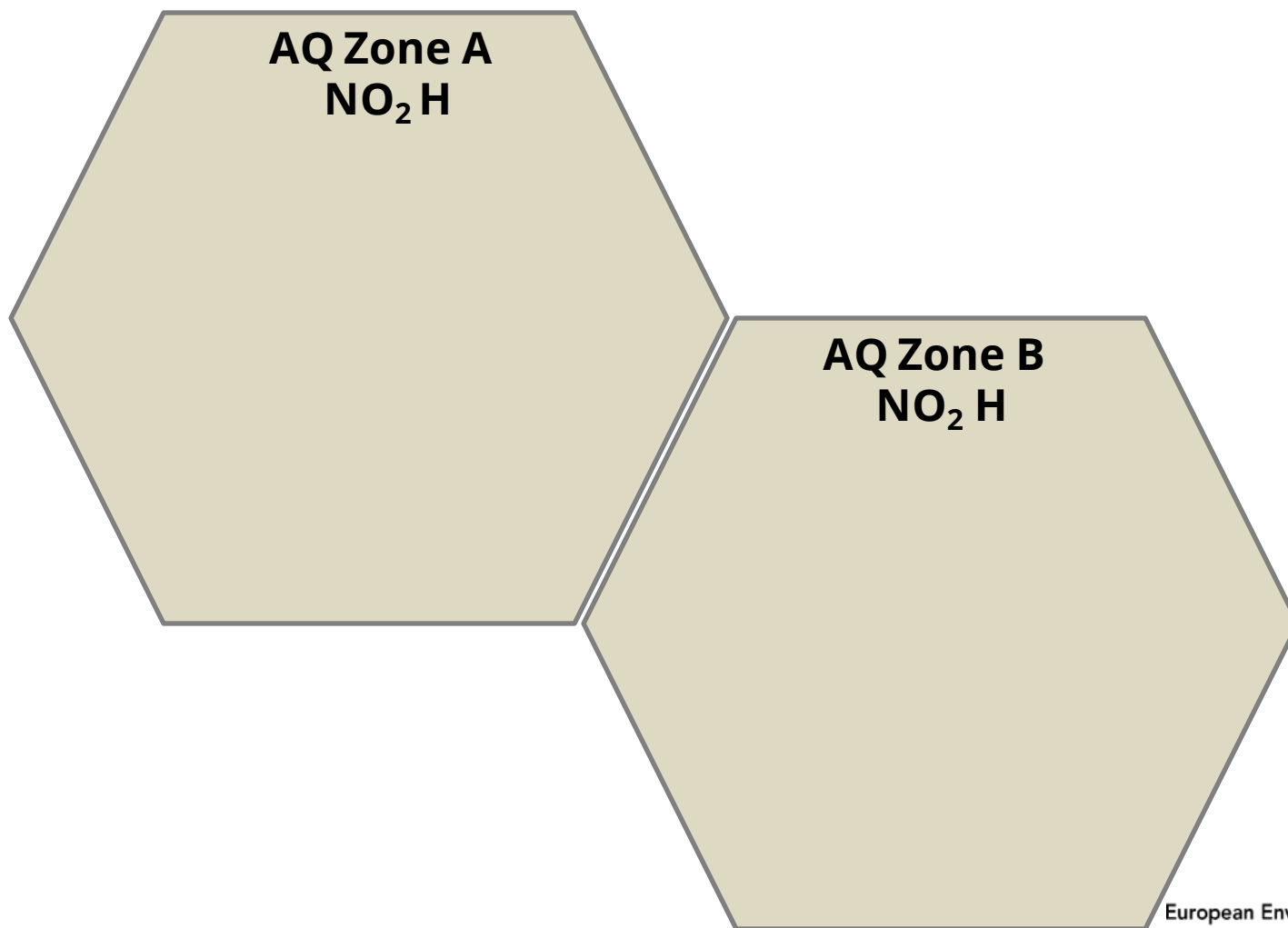
Information on the evolution in air quality expected when implementing the measures in K vs a “business as usual” approach.

Overview of AQ Plans – Content to Structure

- **To understand the logic behind the structure and the links in H-K we follow the process of establishing an AQ Plan**

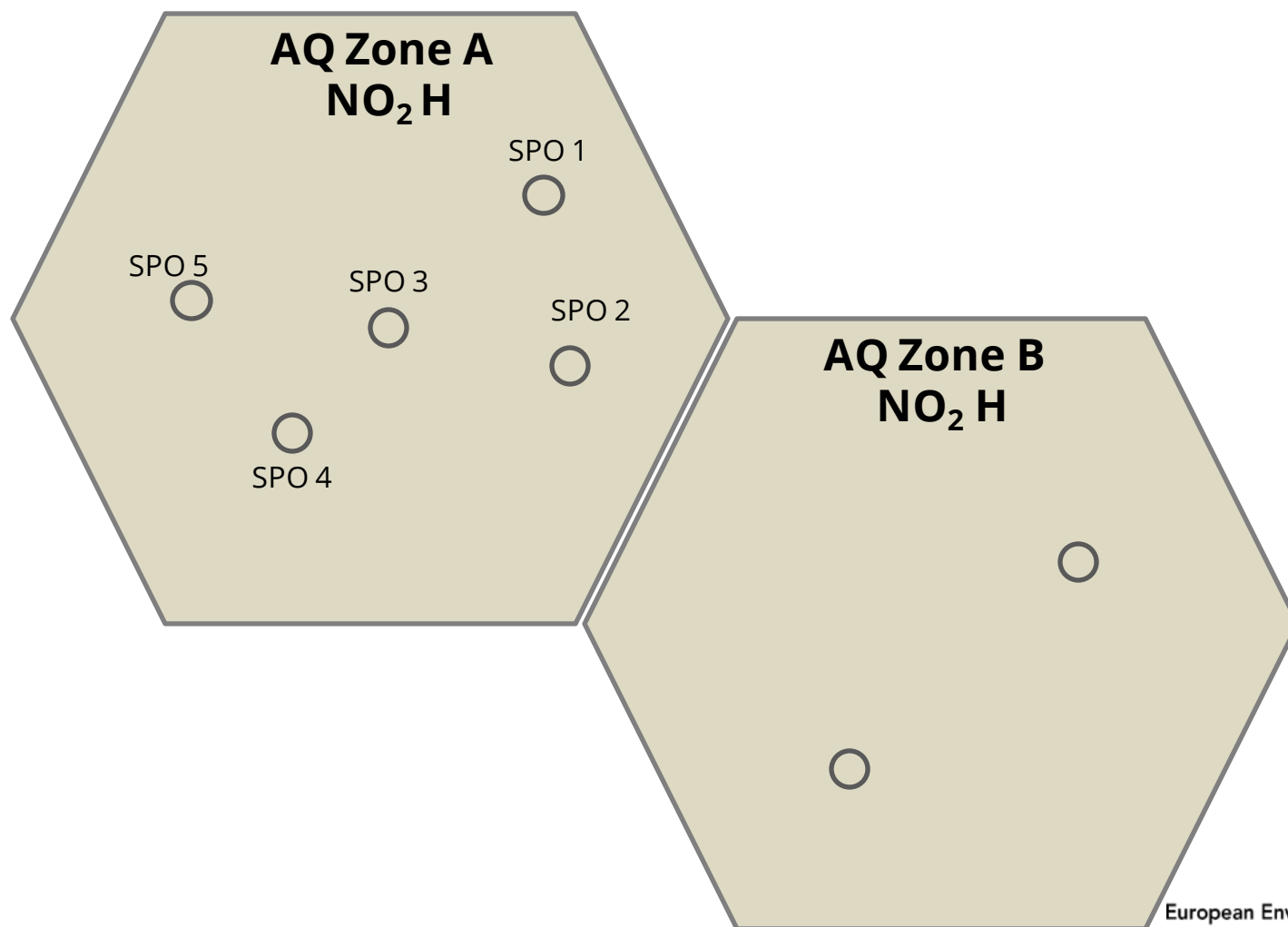
Overview of AQ Plans — The Process

Dataflow B – Zones



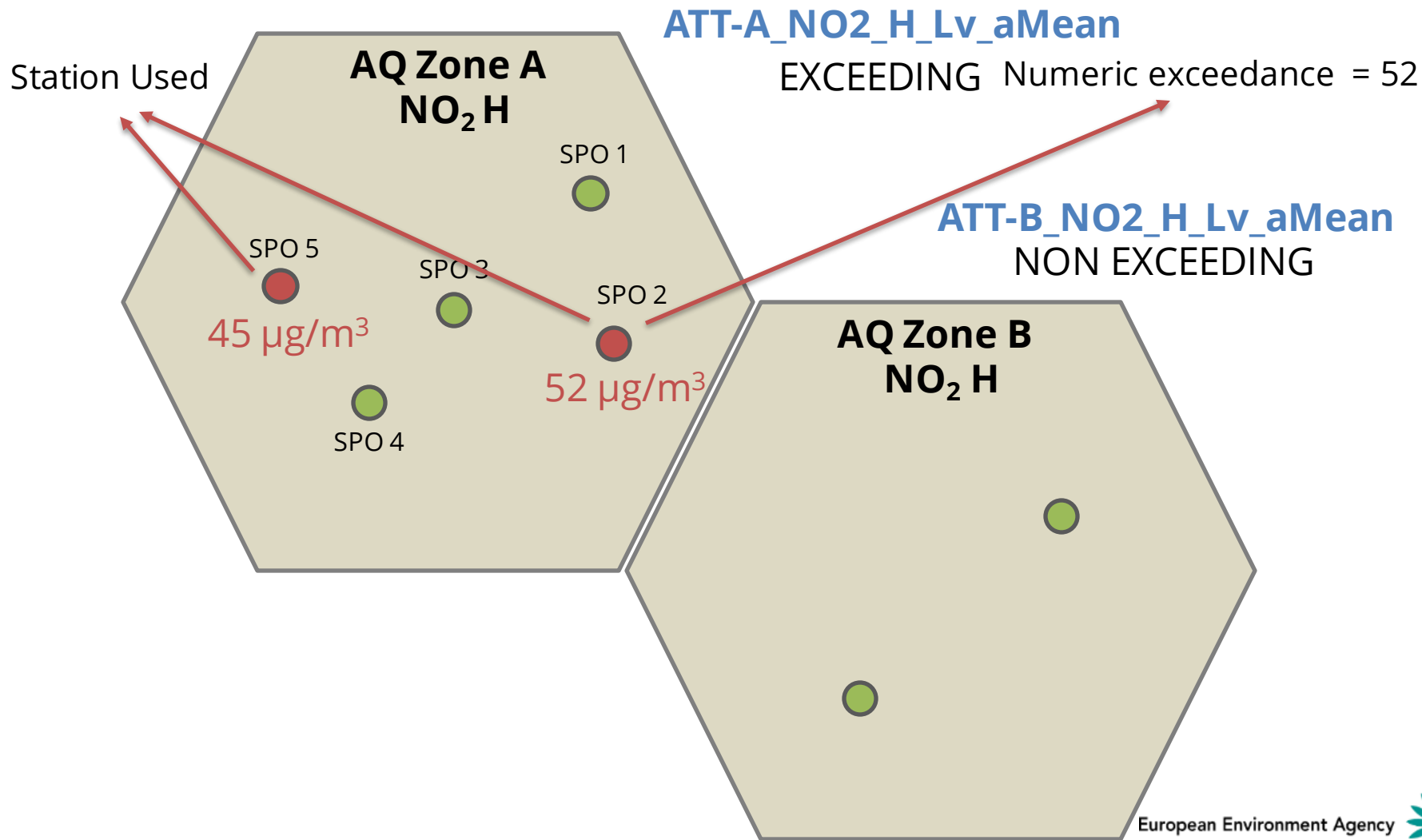
Overview of AQ Plans — The Process

Dataflow D and C – Assessment Methods/Regimes



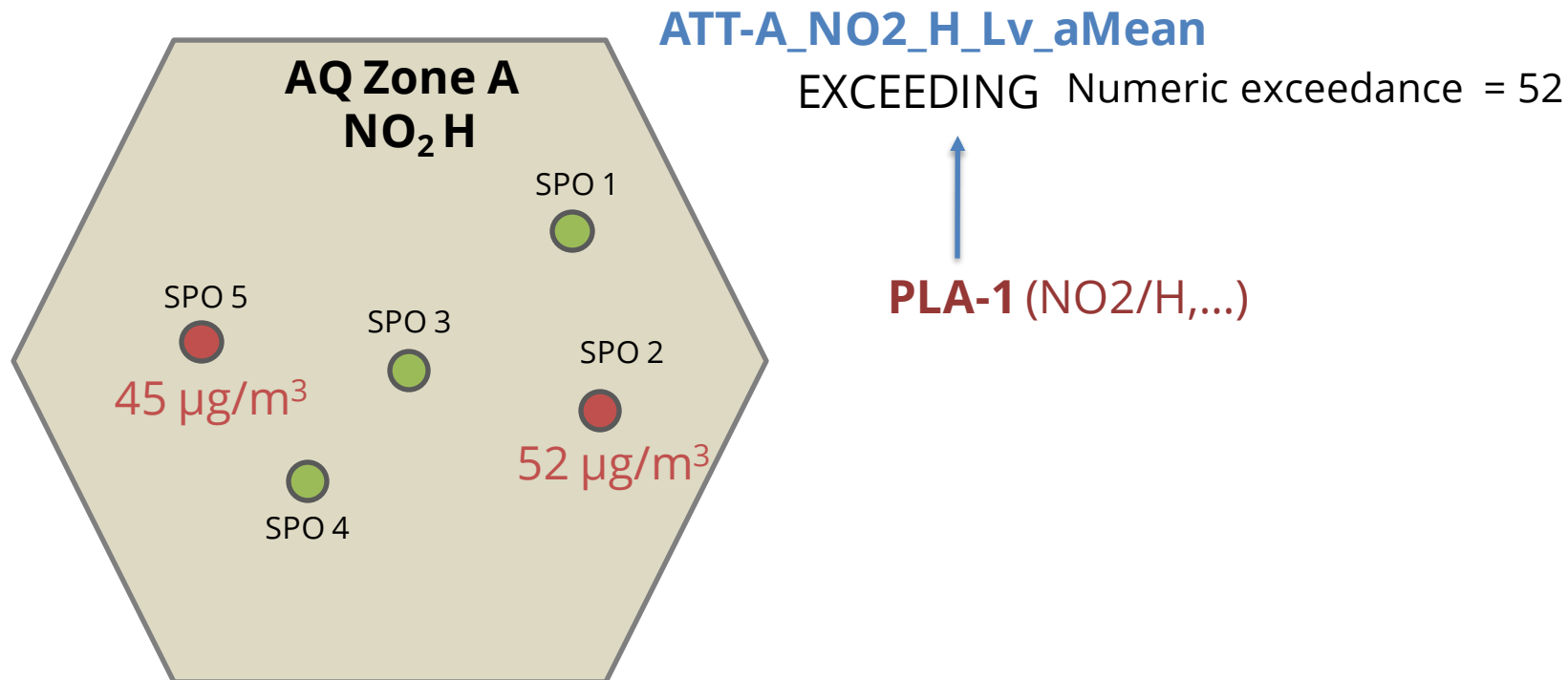
Overview of AQ Plans — The Process

Dataflow G – Attainments



Overview of AQ Plans — The Process

Dataflow H – AQPlans

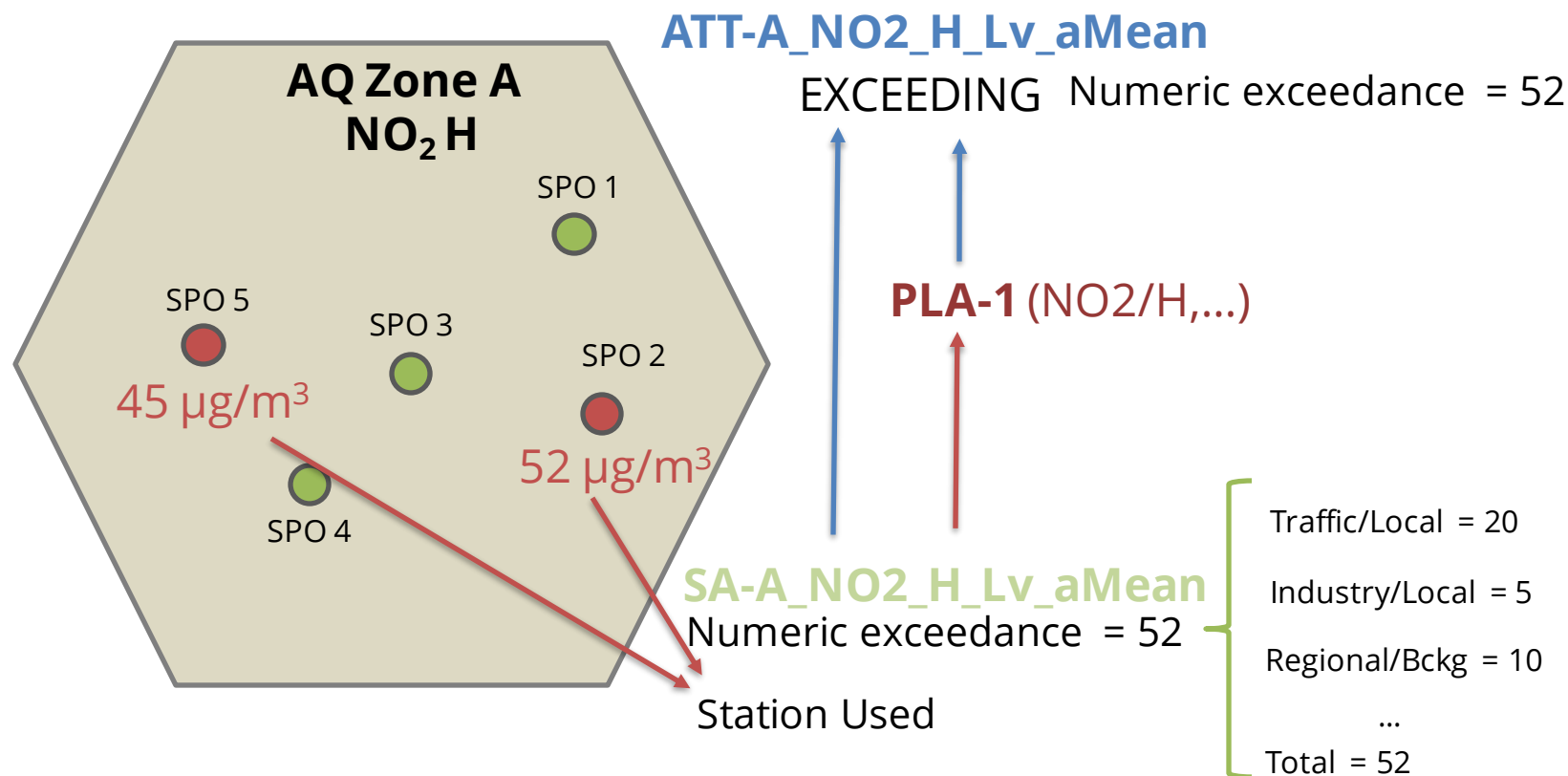


As there is a new exceeding attainment an AQPlan should be put in place. The AQPlan is connected to the Attainment



Overview of AQ Plans — The Process

Dataflow I – Source Apportionments



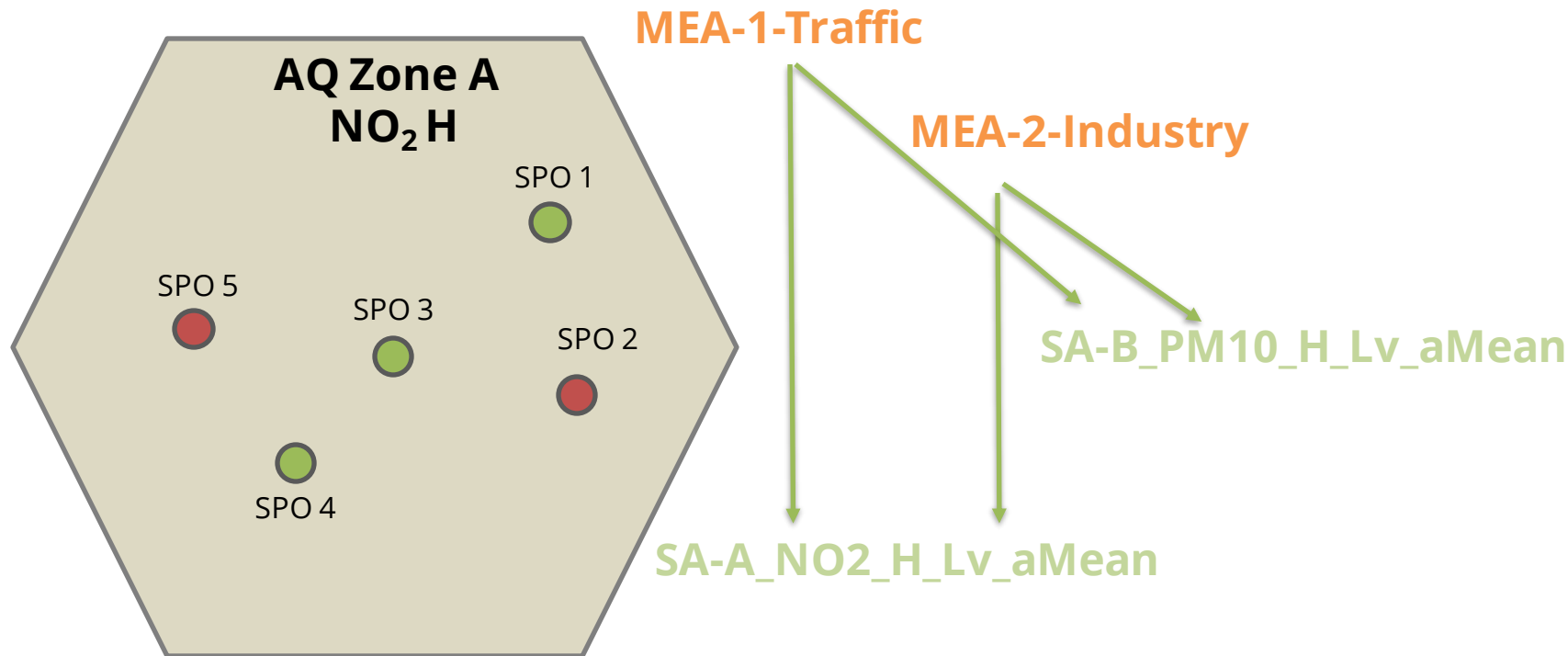
A Source Apportionment is needed to evaluate the contribution of different emission sources. Source Apportionment is connected to the AQPlan and to the Attainment. Exceedance description mimics the Attainment





Overview of AQ Plans — The Process

Dataflow I – Measures

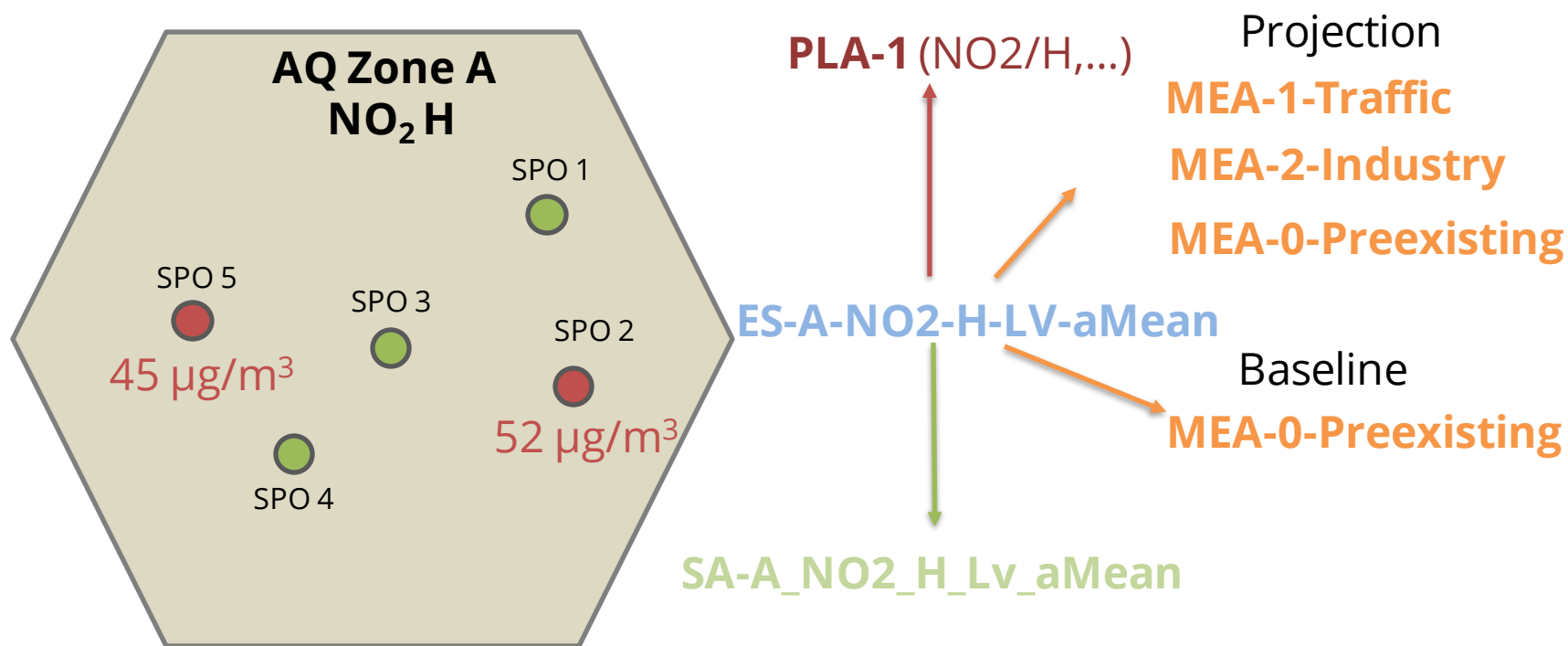


Measures to target emission sources are formulated. Measure can target multiple pollutants so they can be linked to multiple Attainments and Source Apportionments also related to different zones



Overview of AQ Plans — The Process

Dataflow J – Evaluation Scenarios

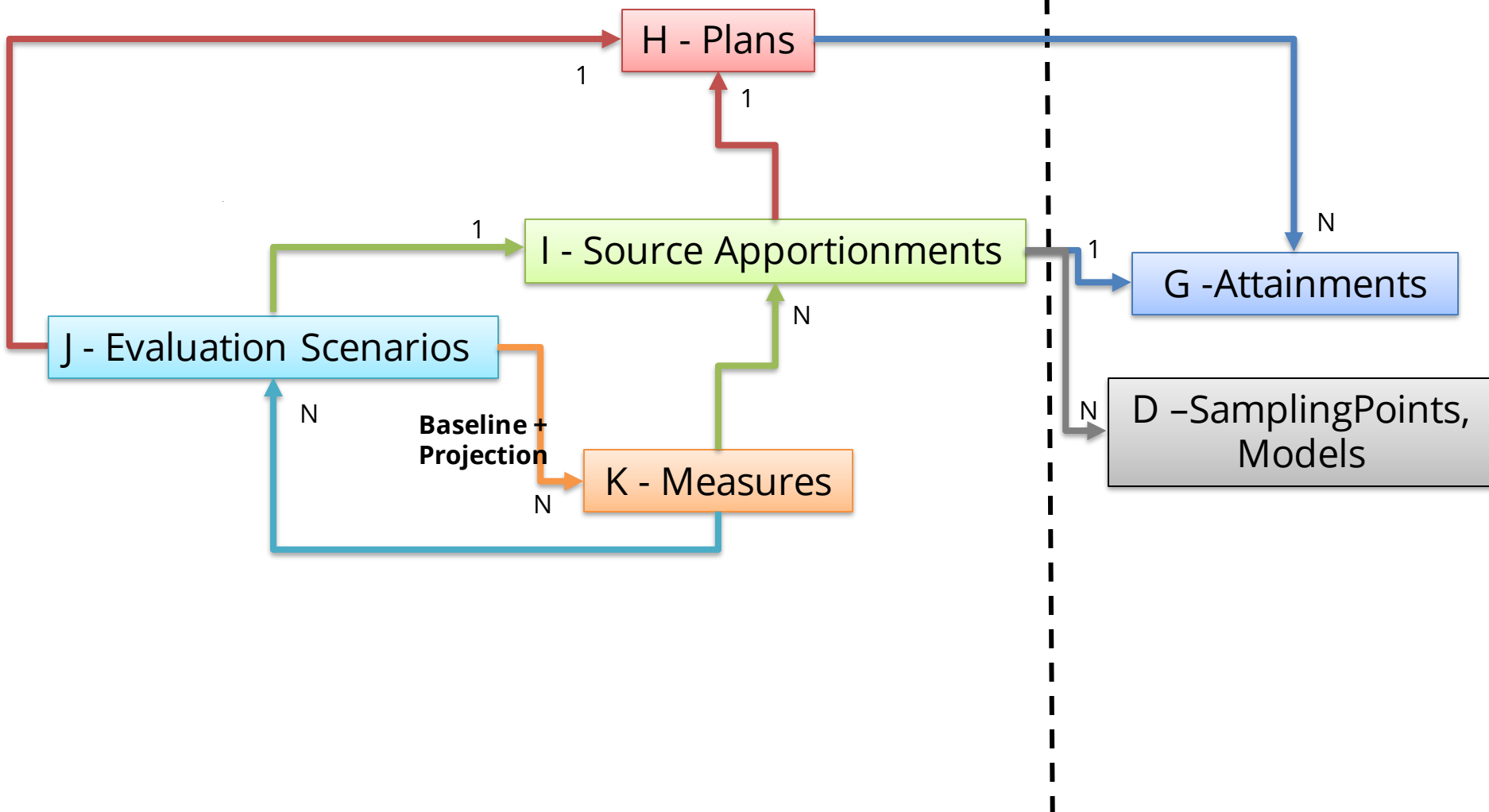


Evaluation Scenarios describe the planned effects of the Measures put in place in the AQ Plan on the Exceedance (linked by the SA). Each scenario takes into consideration the evolution of a Pollutant concentration under existing configuration (Baseline) and with new measures in place (Projection).

Overview of AQ Plans – H-K Structure

H-K Domain

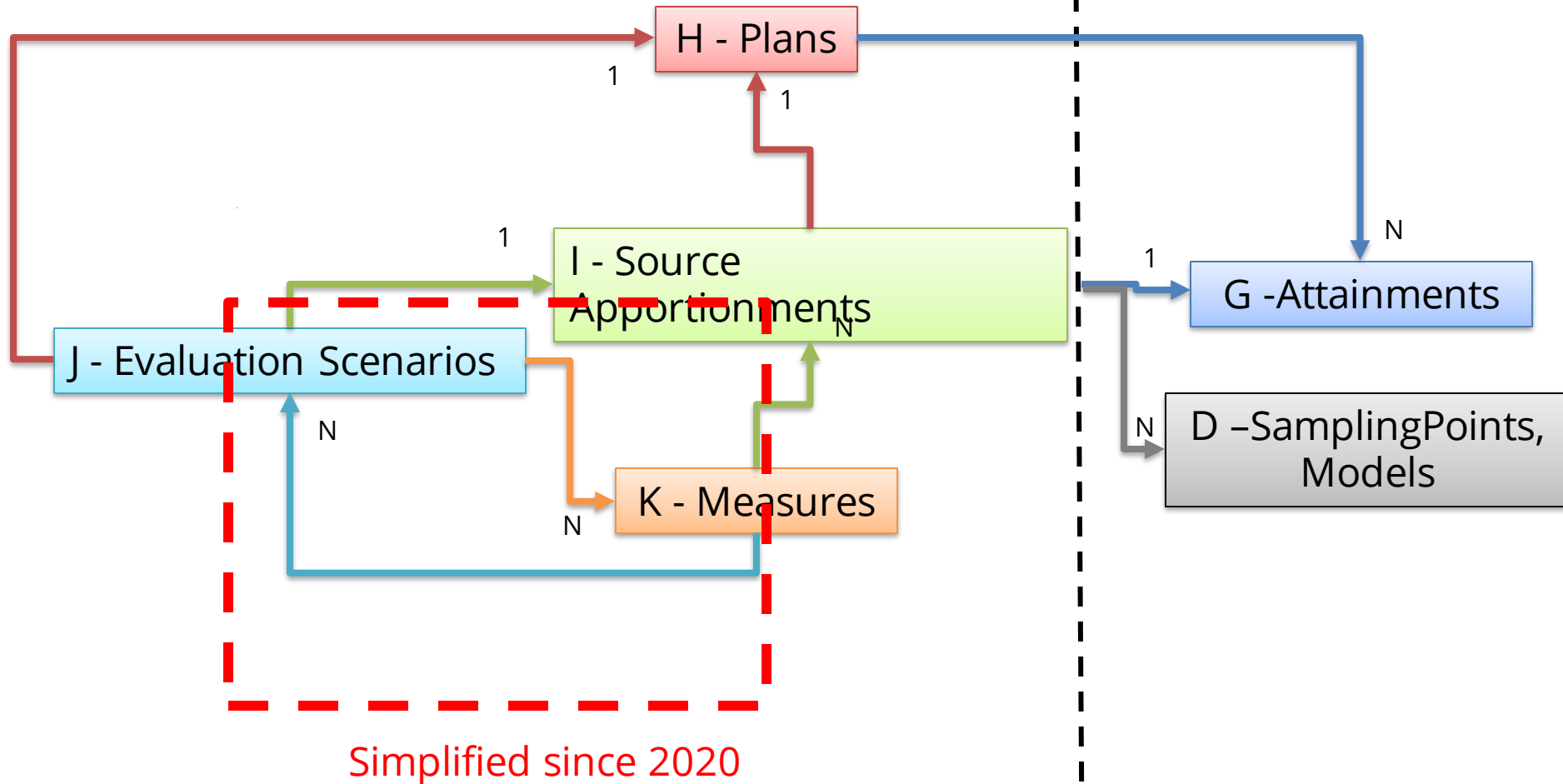
B-G Domain



Overview of AQ Plans – Simplified Links (2020)

H-K Domain

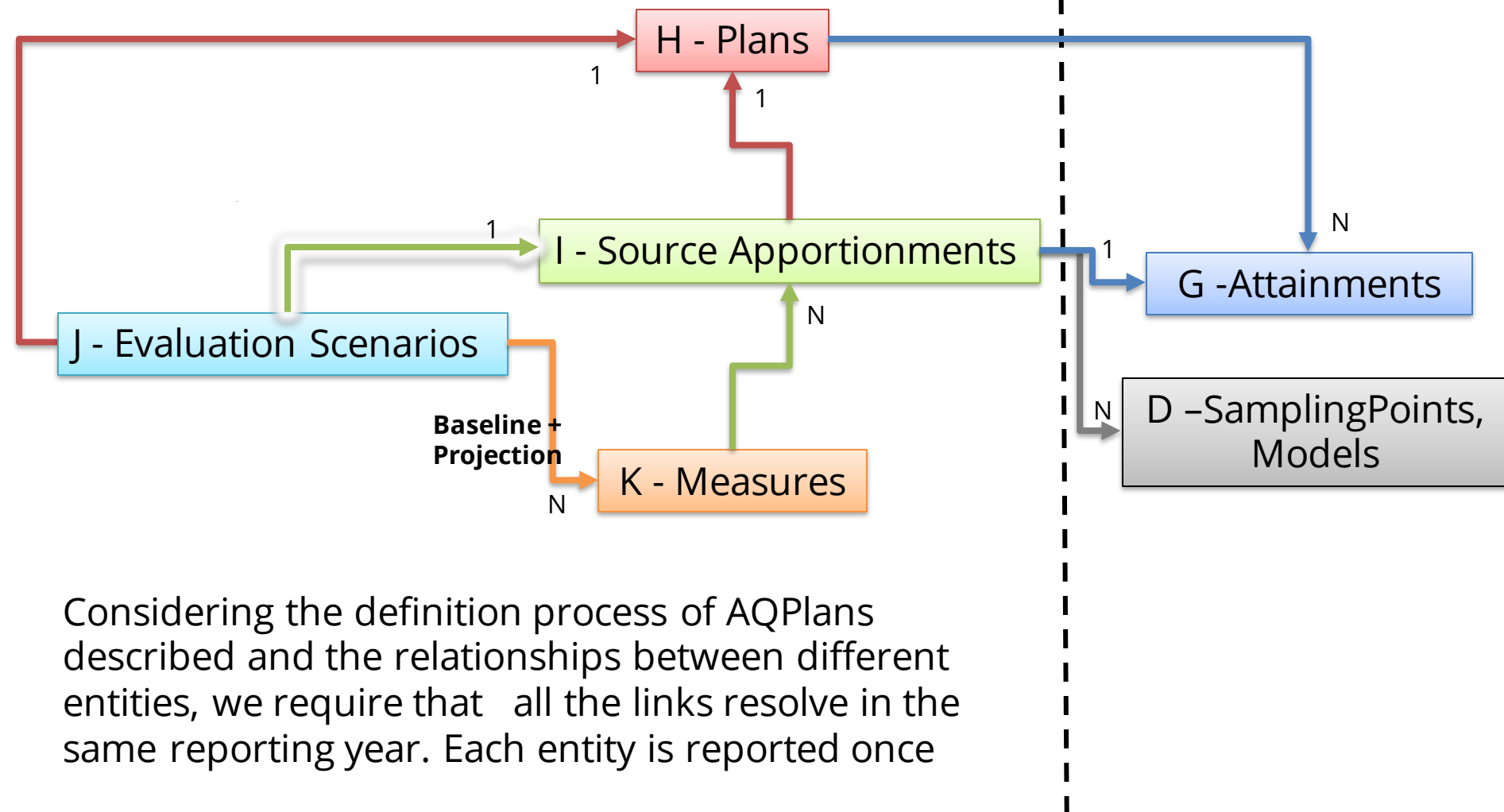
B-G Domain



Overview of AQ Plans – Simplified Links (2020)

H-K Domain

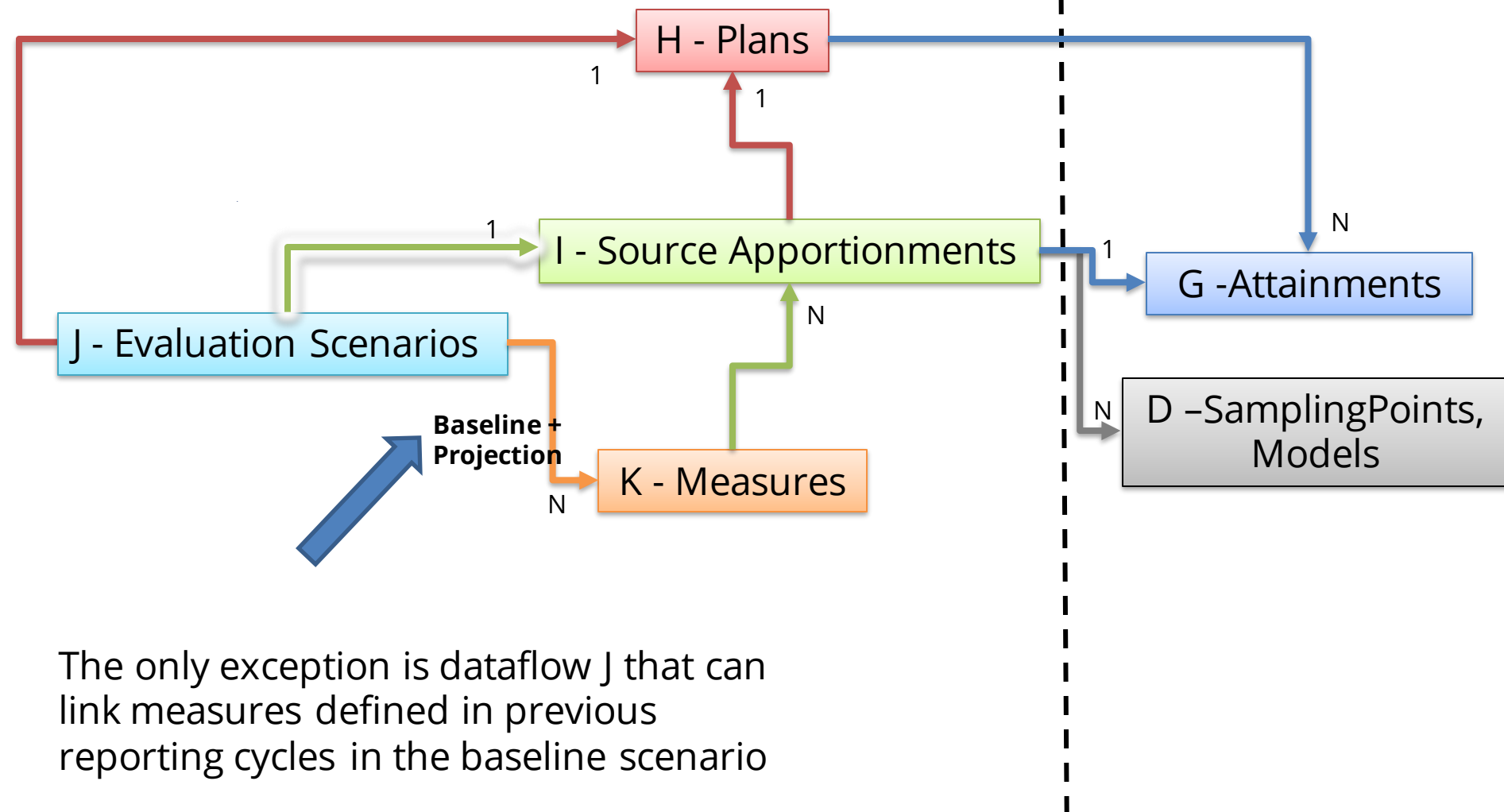
B-G Domain



Overview of AQ Plans – Simplified Links (2020)

H-K Domain

B-G Domain



When to report – To Report or Not To Report

- **Reporting AQ Plans is strictly required only after an AQ Exceedance is observed the first time**
- **What does it mean?**
For a given AQ Zone, Pollutant and Protection target, Environmental Objective and Metric we should look at the first year the Attainment is exceeding
- **In 2019 only 59 Attainments in 10 countries were exceeding for the first time mostly O3 (also PM2.5, PM10, SO2, BaP)**

When to report – To Report or Not To Report

- **No need to report AQ Plans if no new AQ Plans are put in place**
- **No need to report old AQ Plan already reported in previous years**
- **Resubmissions of updates or corrections should be made in the original reporting cycle (more on entities lifecycle)**

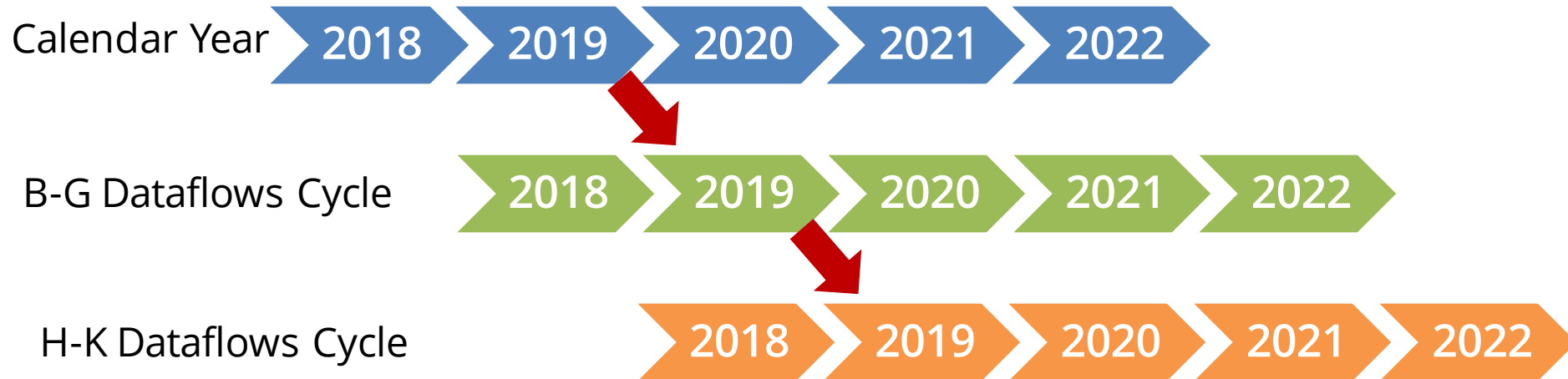
When to report – Reporting schedule

- There is a difference between reporting cycle and reporting time**



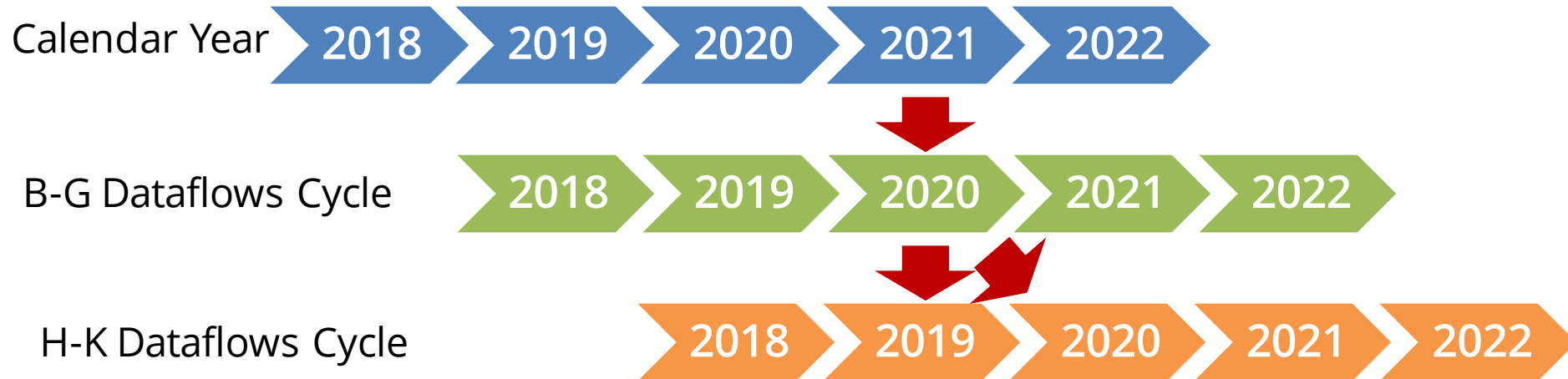
When to report – Reporting schedule

- There is a difference between reporting cycle and reporting time**



When to report – Reporting schedule

- **There is a difference between reporting cycle and reporting time**



How to report – Submission procedure

- **When reporting H-K we expect a full package of submission including H, I, K, J**
- **The only exception is to have only K submitted - More on this later**
- **Partial submission cannot be blocked if all the links are resolved.**
- **Partial submission does not comply with IPR requirements**

How to report – Submission procedure

Since 2020 we expect H-K submissions to be made in

- In a single envelope for each dataflow**
- As a single file for each envelope**
- New submission of the same dataflow cancels the previous one**

How to report – Submission Sequence

Since 2020 we expect H-K submissions to follow a sequence that allows verification of links

- **H**
- **I**
- **K**
- **J**

Entity Lifecycle - Corrections

- A correction of an entity in any of the dataflows, in which reporting year is submitted?
- **Corrections are submitted in the same reporting year as the original submission in new envelopes**
- **Submissions should contain both corrected and non corrected entities**

Entity Lifecycle - Changes to AQPlan or Measure

- If after submitting AQPlan or Measure in year Y its status changes in Y+x, what needs to be reported and in which reporting year?
- Should be submitted in year Y with an updated status within a full submission containing the rest of the AQ Plans/Measures originally submitted in Y
- Applies to changes in:
 - aqd:Status, aqd:AdoptionDate in AQPlan
 - Aqd:PlannedImplementation in Measure



Entity Lifecycle - Changes in AQ Zones

- If the AQ Zones definition changes and there is still an exceedance, what need to be reported in H-K?
- **We expect a new H-K delivery that targets the new Attainments**

Special Cases -Measures without AQ Plans

- **Legislation requires reporting of Measures on heavy metals in PM10 and BaP but does not require AQ Plans. But measures without Source Apportionment are meaningless.**
- **Countries should report Measures connected to 'dummy' SA and to Attainments. QA will accommodate missing link to AQ Plans**

Special Cases –Source Apportionment for O3

- **Most Source Apportionment entries are meaningless for O3**
- **Provide 'empty' Source Apportionments**

Papers Pitfalls –Deduction Assessments

- Papers has a facility to specify deduction assessment methods for natural source deduction

I.2.6 Macro exceedance situation

A.2.1 Exceedance ** ☒

A.2.2 Numerical exceedance *

A.2.3 Number of exceedances *

Deduction assessment method

A.2.4.1 Assessment method

Items per page 10 Filter

Assessment type	Command
No data was found	
0 to 0 of 0	

First Previous Next Last

A.2.4.2 Adjustment type

Values from <http://dd.eionet.europa.eu/vocabulary/aq/adjustmenttype>

A.2.4.3 Adjustment source

Values from <http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype>

Volcanic eruption inside the Member State
Volcanism outside the Member State
Coastal wetlands
Seismic activity inside the Member State
Seismic activity outside the Member State
Geothermal activity inside the Member State
Geothermal activity outside the Member State



Papers Pitfalls –Deduction Assessments

- Deduction of natural sources has not much sense in the context of Source Apportionment (there is a specific entry related to natural sources)
- We recommend to keep this section empty and specify as adjustmentType either none applied non applicable or fully corrected.

Papers Pitfalls –Deduction Assessments

- Some reporters reported the exceeding Assessment Methods in the Deduction Assessment box

I.2.6 Macro exceedance situation

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Deduction assessment method

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A.2.4.3 Adjustment source

Values from <http://dd.eionet.europa.eu/vocabulary/aq/adjustmentsourcetype>

- Volcanic eruption inside the Member State
- Volcanism outside the Member State
- Coastal wetlands
- Seismic activity inside the Member State
- Seismic activity outside the Member State
- Geothermal activity inside the Member State
- Geothermal activity outside the Member State



Papers Pitfalls –Station Used

- Station Used = Sampling Point Used
- Are the exceeding sampling points

	<div>Values from http://dd.eionet.europa.eu/vocabulary/aq/areaclassification</div> <div>A.2.5.3 Area estimate [km²]<input type="text"/></div> <div>A.2.5.4 Road length estimate [km]<input type="text" value="2"/></div> <div>A.2.5.6(a) Station used<div><div>SPO.DE_DENW211_NO2_dataGroup1 ×</div><div>SPO.DE_DENW148_NO2_dataGroup3 ×</div><div>SPO.DE_DENW219_NO2_dataGroup3 ×</div><div>SPO.DE_DENW336_NO2_dataGroup3 ×</div><div>SPO.DE_DENW212_NO2_dataGroup1 ×</div><div>SPO.DE_DENW332_NO2_dataGroup3 ×</div><div><input type="text"/></div></div></div> <div>A.2.5.6(b) Model used<input type="text"/></div>
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Thank you for your attention!

