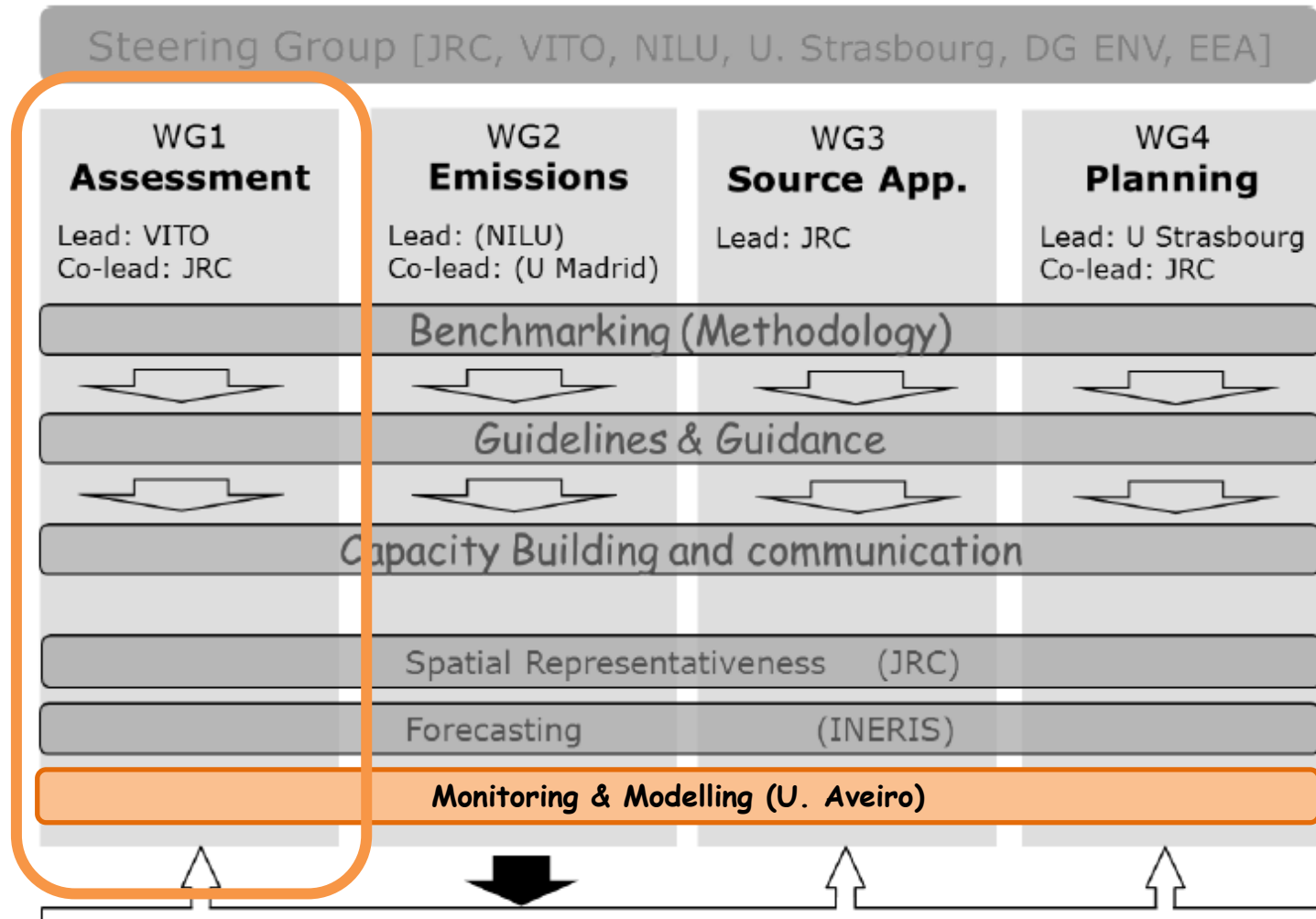# WG1-CCA: Model & Monitoring

Introduction

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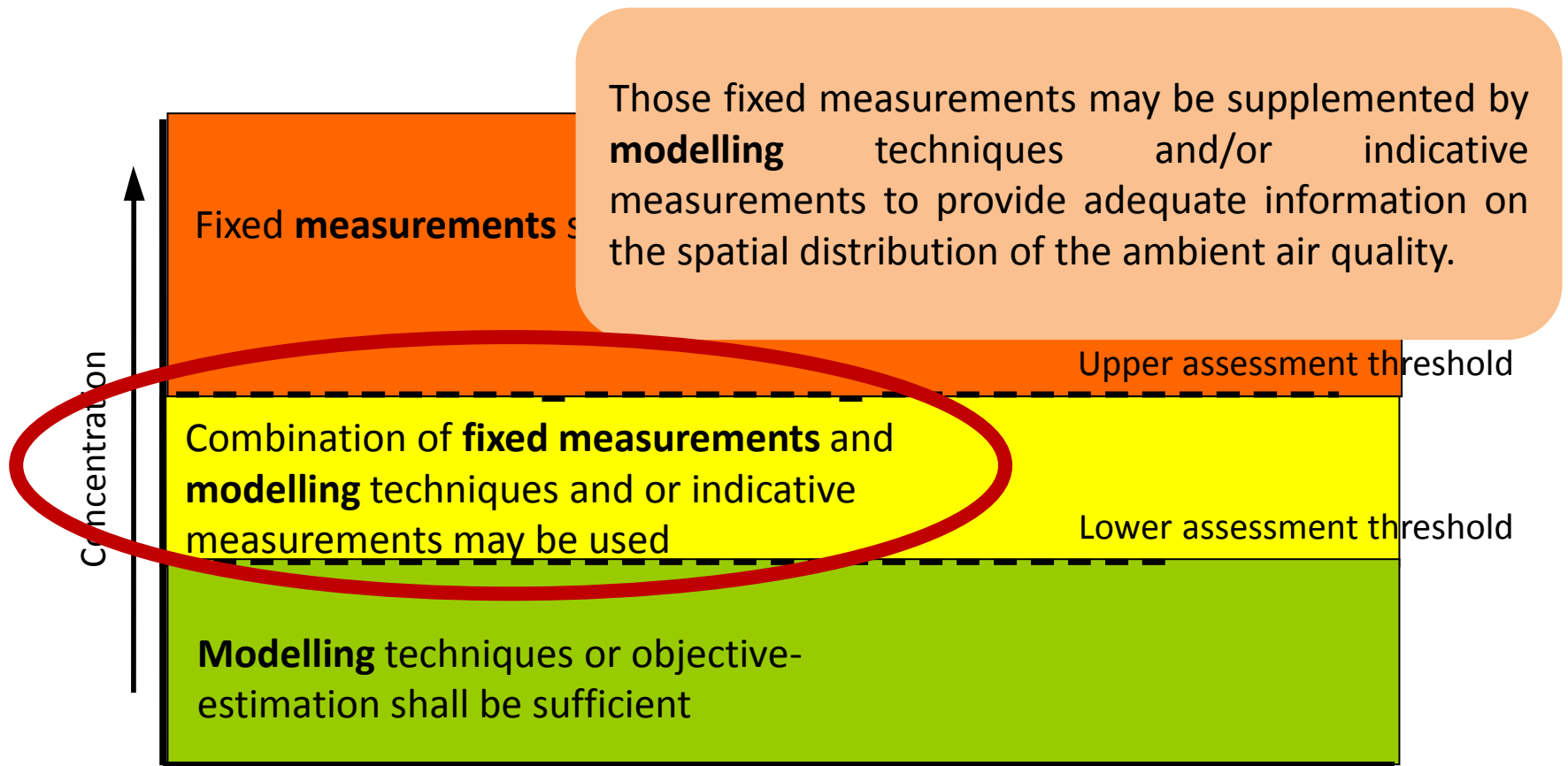
Objectives | FAIRMODE structure

Objectives | following last WG2-SG1…

To deal with inter-WG about the use of monitoring and modeling to support assessment and planning applications.

- To promote best practices on the combined use of models and monitoring for Directive related applications

- To develop and apply quality assurance practices when combining models and monitoring

- To provide guidance on station representativeness and station selection for the combined use of monitoring with modelling and for validation purposes

- …

Air Quality Directive| assessment criteria

Assessment strategy depends on upper and lower assessment thresholds

Those fixed measurements may be supplemented by **modelling** techniques and/or indicative measurements to provide adequate information on the spatial distribution of the ambient air quality.

Concentration

Fixed **measurements** s

Upper assessment threshold

Combination of **fixed measurements** and **modelling** techniques and or indicative measurements may be used

Lower assessment threshold

Modelling techniques or objective-estimation shall be sufficient

SO_2, NO_2, NOx, PM10, PM2,5, Pb, C_6H_6, CO

Work plan 2014 | request for participants

1. REVIEWING METHODOLOGIES

- Comparison of various methodologies (for assessment and planning) in which monitoring and modeling data are used in conjunction. (past findings (2010-2011) will be a starting point to assess current best practices)

This topic was already discussed by a FAIRMODE working subgroup in the past (WG2-SG1; 2010-2011).
Findings were presented in a discussion document, which will be a starting point to assess current best practices.

Work plan 2014

2. GUIDANCE ON MODEL VALIDATION WHEN USING M&M

- Guidance on model validation after combination of monitoring/modelling and its incorporation into the model quality objectives and model evaluation tool.

Q1. How to validate model outputs after combination of M&M?
How to arrive to an independent model evaluation?
What is the current practice?

Q2. Do we need a different (more stringent) MQO for models that combine measurement in their final results? Why?

Q3. Does it make sense to compare evaluation results from combined modelling/monitoring results and from modelling results alone?