



7 June 2011

**Clarification No 2 for open call for tenders:****Framework contract for the provision of IT consultancy services related to integration of sensor observation service for near real time data****Reference number: EEA/SES/11/001****Question 1:**

The first three bullet points in *Annex I – Tender Specifications*, Section 7, page 4 address the need to setup and test SOS, to integrate existing systems towards SOS and to integrate EEA dataflows into ArcGIS server.

Could you please detail the proportion of a contractor's workload which EEA envisages should go into these?

Or alternatively, could you please give more detail as to the infrastructure these three bullet points imply; e.g. How many servers and systems are there? How many clients will need to be set up?

**Answer 1:**

*It is not straight forward to specify which proportion of the contractor's workload will be on the setup and test of SOS including the integration to existing systems, as we expect to split the work in smaller modules. The current system is based on a Biztalk server (currently one instance), which receives data and is responsible for converting/mapping the data into various databases (SqlServer 2008 R2). The databases are partly used by different web applications partly for archiving. We expect to continue to use Biztalk as a data broker and will need to change or re-develop our Biztalk solution in order to receive SOS data. This development will also include integration to our ArcGIS Server production environment, which currently consists of 3 physical servers (each with 16 cores). The EEA SOS endpoint is expected to be closely coupled with the ArcGIS Server production environment.*

**Question 2:**

Addressing the third bullet point from *Annex I – Tender Specifications*, Section 7, page 4, we would like to ask:

Could you please detail both the nature and the number of these dataflows?

And connected to this: How many sensor networks are already deployed and would need to be integrated with the proposed EEA system? What kind of data do these sensor networks measure and do they adhere to a common data format for delivery of measurement data?

**Answer 2:**

*The main dataflow in the EEA near real time system is air quality (ozone, PM10, NOx, etc) but we also have a smaller setup receiving bathing water quality data. For air quality data we have around 70 data providers around Europe delivering around 100.000 measurements per day. We do not have access to the physical sensors of the external networks, so the dataflow is purely based on data exchange between different endpoints. Both for air quality and bathing water data, we use a proprietary data format (xml and csv version) but with the introduction of SOS this will change, though we will continue to support the old data formats.*