Eva’s points

* Develop your idea and the state of the art of your concept

During the last years the demand for Earth Observation technologies have increased with the main objectives of improving the monitoring of:

* + Atmosphere
  + Marine environment
  + Land
  + Climate change
  + Emergency management
  + Security

This is the objective of the focus area “Building a low-carbon, climate resilient future”. To achieve them, new Earth Observation sensors, data processing algorithms and applications are needed, and these will be provided by our project.

DEOS-UD will:

* + Research and improve the existing Earth Observation technologies for remote sensing.
  + Develop a data processing software containing machine learning algorithms focused on urban sustainable developments
  + Develop a web based for data sharing.
* Show your top level WP’s rationale.

To do so, a suitable definition of work packages and interrelationships is needed.

In this image is possible to appreciate the overall structure of the project.

The first work package is the one that corresponds with project management and is in charge of communicating with all the other work packages in order to assure the success of the project. Then we have another level of work packages, corresponding to: Quality and administration, business planning and exploitation of results and communication and dissemination strategies. They are in charge of the quality of the project and the elaboration of plans in order to assure the continuity of the results and the insertion of new knowledge into the society.

Then we have the technical part of the project, which will deal with the elaboration of the new technology sensors, modular systems to implement the sensor into the satellite and the elaboration of an application focused on urban development. This part is composed by the elaboration of the state of the art, which will define the new technologies requirements. The product development that will do the design of them and then the simulation, testing and validation.

* Shor your consortium and WP leading actors.

The consortium has been chosen accurately in order to meet the capability of developing the project properly.

It is made up of 8 different partners distributed in 5 different countries.

They have a wide knowhow and expertise in the areas covered in the project.

The partners that will be in charge of management, quality, business plan and communications are HIRO and BHO.

The ones in charge of research and innovative design: HIRO, Airbus defence and space and ICUBE-SERTIT.

In charge of the development and testing: Airbus, Deimos and Thales Alenia.

Finally, the ones dedicated to urban development will be ViTO and ReSAC.

This consortium is well-structured, balanced and strong. Each partner has a well-defined role but they would be capable of achieving the project expectations in case one partner leaves the project.

* Show your staged Gantt diagram, indicating your main milestones.

Here we can appreciate the gantt diagram of the project. Its total duration is of three years and a half.

There are fifteen milestones during the project in order to assure the correct development of it. At the beginning there are more density of milestones in order to assure a proper project start and, along its development, more of them are added to accomplish partial objectives, such as preliminary design and prototype manufacturing.

* Show your main deliverables and expected delivery dates.

There are seventeen deliverables associated to the different work packages of the project. Each work package has at least one deliverable and they are a way of show the progress of the package or its completion.

Is possible to appreciate that the first work packages only have one deliverable while in WP4, correspondent to the design of sensor, modular system and application, 8 deliverables appear.