

GOAL

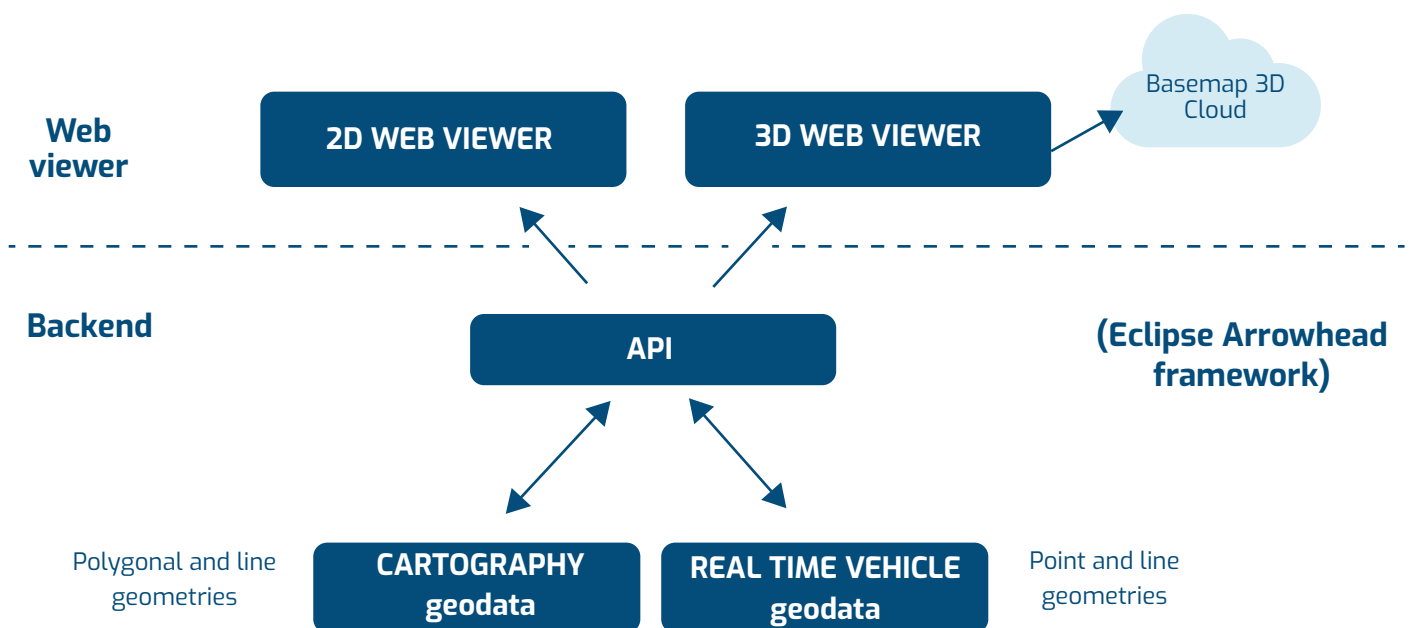
Develop an engineering tool chain that will considerably increase efficiency of earthwork execution. Web solution based on a 2D/3D visualization

Challenge

dotGIS will focus on a framework of integrated geo data management for construction. The goal is the machine operation optimisation related with real-time routing calculator with the main objective of achieving a system giving a framework helping in the decision-making process. It will allow the user to combine different inputs with the same objective. All geodata and standards of geodata could be uploaded to the platform and combined them is an automated way in order to manage and monitor the evolution of construction.

dotGIS is working to develop the GIS-based solution for the visualization and monitoring of earthworks. This web solution is based on a 2D/3D visualization by using

dynamic maps with real time information of the field earthworks. The “Acciona use case” is being participated by dotGIS with IoT integration was carried out with functionalities of search, filter and visualize both in 2D and 3D view. The platform was connected in real time with drone images provider. For the synchronization of the joining developments in an Arrowhead environment, in which each company uploads its advances, they are shared and displayed in a web viewer that includes the developed functionalities.





Engineering Phases



Results

Through this platform it will be possible to get in at a comprehensive geographical analysis of all workflows in the field, with real-time information, reducing costs, duplicating tasks, and improving the control and prediction of work. It will also have a lower environmental impact through the digitisation of a sector such as construction.

dotGIS will exploit the web with accessible demonstrations in order to be in closer contact with potential customers.



Partner Data



dotGIS is a Spanish big data start-up with a high degree of innovation and development in the use of advanced methodologies and technological systems, specifically, in the geospatial analysis of massive amounts of data. In addition to the visualization and segmentation of data through maps, dotGIS performs geospatial analysis that includes both knowledge of the environment (geological, hydrological, cartographic, terrain models, satellite information, etc.), as well as providing answers to questions that deal with the events that occur in a place; what, where, how and why an event occurs.

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