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## SmartVitiNet - Mid-term Progress



SmartVitiNet is a European project which aims to transform the viticulture sector by piloting and commercialising an innovative phytosanitary and plant protection system. The project has received recognition and funding from the European Innovation Council and SMEs Executive Agency (EISMEA) under the topic I3-2021-INV2a-GREEN.

The project team meticulously defined the user requirements and the minimum viable product (MVP), set up the technical system requirements, formulated image-derived indices of water-stressed plants, and devised a diagnostic algorithm for water stress. The reference architecture design and data management plan now stands finalised, catering to the project's technical demands and ensuring efficient data handling.

On the hardware front, SmartVitiNet has made significant strides. Sensor selection, refinement of the existing UAS prototype, and enhancement of the spraying system prototype, including the actuator software, have all seen considerable progress. A carefully designed pilot plan is in place, and the collection of benchmark data is underway, offering valuable insights for performance optimisation and effective progress measurement.

The SmartVitiNet DSS and portal are coming into form with advanced visual interfaces, visual analytics, and a multilayer vineyard cadastre platform. The Competence Center for Precision Viticulture is progressing steadily, with the center's setup, operation, and management taking shape, and a strong focus lies on developing center training programs and services, as well as fostering community value networks.



In line with its overarching objectives, SmartVitiNet is diligently working towards developing a decision-making support system. This robust tool is designed to assist vineyard owners in managing their vineyards more effectively, thereby improving production. Moreover, the system will aid regulatory agencies at both local and national levels in offering better and more concrete advice and guidelines on viticulture issues through a visually appealing portal.

Additionally, the project is dedicated to developing customised sensing and actuating systems to be mounted on drones, alongside relevant infrastructure like charging stations and spraying machines. Demonstrating efficient and feasible solutions in real application scenarios is a key focus, further emphasising the project's commitment to practical, industry-relevant innovation.

As the project reassesses initial tasks for upscaling SmartVitiNet services, the goal remains to ensure a robust and scalable solution, customised to meet the dynamic needs of the viticulture industry. SmartVitiNet takes pride in the progress made and is excited to share more updates as it continues to innovate and transform the viticulture sector.

***“The value of an idea lies in the using of it”  
-Thomas Edison***

The coordination team of SmartVitiNet participated in the Coordinators' Day for projects funded by the European Innovation Council and SMEs Executive Agency (EISMEA) under the Interregional Innovation Investments (I3) instrument of the European Regional and Development Fund (ERDF). At this event, the SmartVitiNet project was featured among ten other notable initiatives. This event provided an excellent opportunity for potential collaborations with other relevant projects, fostering a synergistic network of innovation and knowledge. Moreover, the SmartVitiNet coordination team gained valuable insights into the administrative responsibilities of funded projects, fortifying their project management arsenal.





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