Project acronym - Project title
I.T.A.M.A.- ICT Tool per la diagnosi di malattie Autoimmuni nell'Area Mediterranea

Programme Priority Axis	1 Promoting the smart and sustainable growth through research and innovation
Programme Investment Priority	1b) promoting business investment in R&I, developing links and synergies between enterprises, research and development centres and the higher education sector, in particular promoting investment in product and service development, technology transfer, social innovation, eco-innovation, public service applications, demand stimulation, networking, clusters and open innovation through smart specialisation, and supporting technological and applied research, pilot lines, early product validation actions, advanced manufacturing capabilities and first production, in particular in key enabling technologies and diffusion of general purpose technologies
Investment Priority Specific Object	1.1 Enhance the activities of innovation and research to improve the quality of life and the utilization of the cultural heritage

Project Lead Partner
Università degli Studi di Palermo - Dipartimento di Fisica e Chimica

Project Partners	
Partner 2	Università degli Studi di Messina - "Dip. di Patologia umana dell'adulto e dell'età evolutiva "Gaetano Barresi"
Partner 3	Minister of Health, Malta Health Department
Partner 4	AcrossLimits Ltd

Project duration (months)	Start date	End date
46	01.06.2018	31.03.2022

Project summary

I.T.A.M.A. addresses the problem of the diagnostic delay of autoimmune diseases with a high prevalence in the Mediterranean area, with attention to celiac disease, which determines a high cost for national health systems.

The project develops innovative ICT tools for health services able to anticipate the times and improve the accuracy of the diagnosis of celiac disease; avoid invasive examinations, especially in paediatric age; reduce the costs of the disease generated by the delay of the diagnosis.

From the structural point of view, the project will make available to the scientific community a database with heterogeneous metadata tests for the autoimmune diseases diagnosis, for epidemiological studies, for the development of automated diagnostic systems and for knowledge transfer.

From a procedural point of view, validation diagnostic guidelines will be provided to minimize the use of biopsy especially in paediatric children.

From a technological point of view, a system based on artificial intelligence will be validated to support clinical decisions in the diagnosis of celiac disease.

The final objective is to anticipate diagnosis times by optimizing the diagnostic path

Project results
2 Healthcare enterprises that adopt the innovative tools developed in the project.

Project outputs	
✓ 2 enterprises that use the database of metadata for the diagnosis of autoimmune diseases; ✓ 22000 children in paediatric age undergo screening for celiac disease	✓ 2 enterprises that use dedicated biomedical software and innovative systems to support the diagnosis of celiac disease ✓ 5 enterprises using technology transfer services

Budget	ERDF Contribution	National Contribution	Additional Co-financing
€ 2.294.623	€ 1.950.430	€ 344.193	€ 0

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