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CENTER FOR ADVANCED STUDIES, RESEARCH AND DEVELOPMENT IN SARDINIA

CRS4 studies, develops and applies innovative solutions related to the topics HPC, visual computing, quantum computing and artificial intelligence to be relevant in energy transition, predictive medicine, aerospace, cultural heritage, precision agriculture, smart lands and cybersecurity. Founded in 1990, it is located in Pula and Cagliari, has currently 130 employees and an annual budget of about 12 million euros, 50% provided by the Autonomous Sardinia Region and the rest by regional, national and international resources through competitive announcements of opportunities or specific orders. It holds 8 patents and 3 trademarks, has produced more than 220 softwares while registering 27 with the SIAE and published more than 1,700 scientific papers.

FOCUS

GENOME AND EXOME SEQUENCING

SIMULATION MODELING

COMPUTATIONAL TIME AND STORAGE CAPACITY

SPECIALIST CONSULTING

INTERACTIVE INSTALLATIONS

STEM EDUCATION FOR CHILDREN 4-7 YEARS OLD

E-LEARNING

SCIENTIFIC SCHOOLS

VIRTUAL AND AUGMENTED REALITY

ACQUISITION AND RENDERING OF CULTURAL HERITAGE

PARTNERSHIPS FOR REGIONAL, NATIONAL AND INTERNATIONAL PROJECTS



MAIN RESULTS ACHIEVED

- 2024** First Italian reality recognized by QWorld for the dissemination of quantum computing
- 2023** Emulation of quantum computers
- 2023** First latest generation Illumina X Plus sequencing platform in Italy
- 2021** New 6.3 Petabyte computing platform
- 2014** 3D realization of the Statues of Mont'e Prama
- 2012** Performing one of the most in-depth genetic studies in the world of isolated populations
- 2009** Acquisition of the most advanced gene sequencing platform in Italy
- 2008** Entry into the Top 500 worldwide in terms of computational infrastructure
- 1995** Development of Search in Italy, the first Italian search engine
- 1994** Establishment of www.unionesarda.it, the first online newspaper in Italy
- 1993** www.crs4.it, first website in Italy

