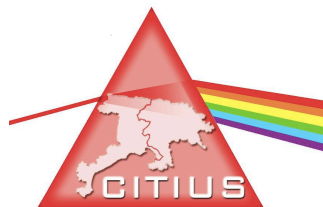


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Interregional Centre of Ultrafast Photonic Technology for Spectroscopy

- GOAL of project: build a new interregional center of excellence for both fundamental and applied state-of-the-art research in several scientific fields, ranging from physics to chemistry, from biology to medicine
- HOW: developing an innovative light source generating ultrashort light pulses in the VUV and soft X-ray spectral range and an experimental set up for time resolved spectroscopy, at the University of Nova Gorica
- WHO: partners involved have different and complementary skills. Development and exploitation of cutting-edge light sources (UNG and ELETTRA), realization high-order harmonic generation sources (LUXOR Padova), light source mechanical stabilization (University of Ljubljana), development of light source control systems (Kontrolni sistemi d.o.o.), preparation of chemical samples to be studied with the light (ISOF Ferrara)

<http://www.citius-lab.eu>

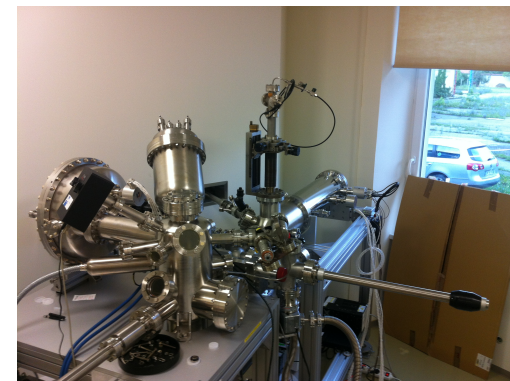


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RESULTS: the laboratory has been built and is in operation at UNG

More pictures at www.citius-lab.eu

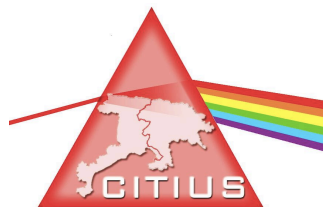


KNOWLEDGE AND TECHNOLOGY TRANSFER

New links with SMEs, research institutes and universities have been set

Examples: (see website <http://cenils.eu/>) RIAL Vacuum, National Instruments, Optotek, CAENels, Jagiellonian University, BISOL...

Strong connection with photovoltaic research and industry



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BENEFICIARIES: All universities and laboratories in the Program Area engaged in the development of new technologies, in the study of new materials for the production and storing of clean energy, and in training highly specialized researchers, engineers and technicians; high-tech small and medium enterprises engaged in the development and use of innovative light sources; policy makers engaged in supporting innovation at the service of society.

IMPACT: Thanks to CITIUS, Slovenia and Italy are now co-owners of a state-of-the-art laboratory (one of the most advanced in Europe) for fundamental and applied research in material science. With a “modest” investment, and thanks to the strong link between the new laboratory and the big infrastructure FERMI at Sincrotrone Trieste, Slovenia has joined the roadmap of the research infrastructures of pan-European interest (total investment: about 15 billions euros in the next 10-15 years), promoted by the ESFRI initiative (<http://cordis.europa.eu/esfri/>). Last but not least, CITIUS has already triggered the birth of new projects (like, e.g., the project CENILS: <http://cenils.eu/>) aimed at promoting technology transfer at trans-national level.



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Suggestions for the cross-border program Slovenia-Italy 2014-2020

- Promote innovation based on the development and use of innovative light sources
- Promote cohesion of universities and research/training centers in the Program Area
- Support concrete projects (start-ups and spin-off, exchange of personnel, ...), aimed at establishing a link between industrial and academic research in the field of innovation.