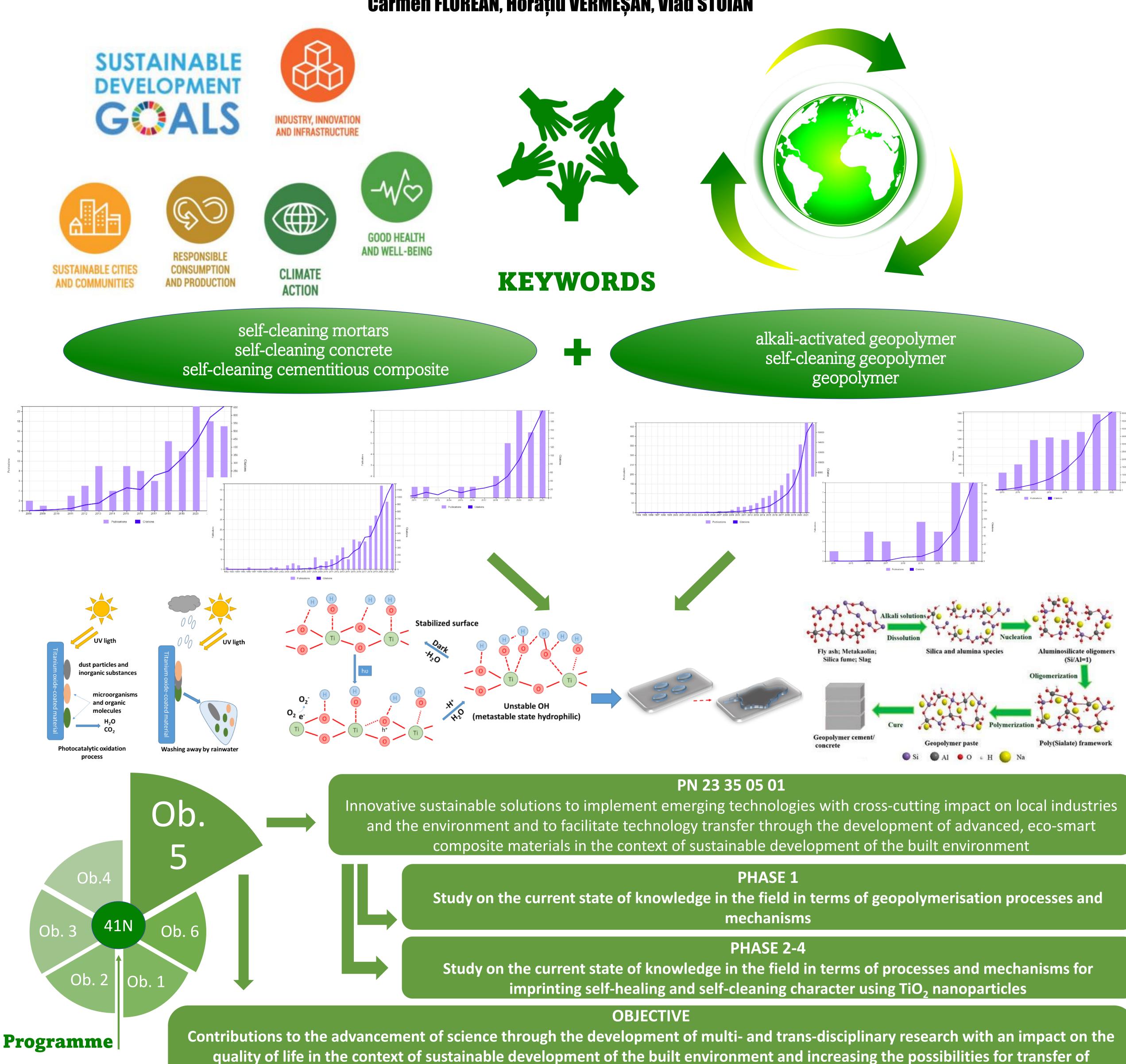


Research and Development in Construction, Urban Planning and Sustainable Territorial Development National Institute "URBAN - INCERC,, R&DNI "URBAN - INCERC,,

Study on the Possibilities of Developing Cementitious or Geopolymer Composite Materials with Specific Performances by Exploiting the Photocatalytic Properties of TiO_2 Nanoparticles

Andreea HEGYI, Adrian-Victor LĂZĂRESCU, Adrian Alexandru CIOBANU, Brăduț Alexandru IONESCU, Elvira GREBENIȘAN, Mihail CHIRA, Carmen FLOREAN, Horațiu VERMEȘAN, Viad STOIAN



RESULTS
The results of the research carried out indicate the real and growing interest for the development of these materials but also the existence of some elements still

controversial or insufficiently analysed, therefore concluding the need for further research in these areas.

emerging technology through the development of advanced, eco-intelligent, self-cleaning materials that allow the reintegration into the

economic circuit through recovery and recycling of waste and industrial by-products while exploiting the specific character of

nanomaterials responsive to environmental factors.

ACKNOWLEDGEMENTS:

This paper was supported by the Programme 41N/18.01.2023 Advanced research on the development of eco-innovative solutions, composite materials, technologies and services, in the concept of a circular economy and increased quality of life, for a sustainable digitised infrastructure in a built and urban environment resilient to climate change and disasters—"ECODIGICONS", Programme code: PN 23 35 05 01: "Innovative sustainable solutions to implement emerging technologies with cross-cutting impact on local industries and the environment and to facilitate technology transfer through the development of advanced, eco-smart composite materials in the context of sustainable development of the built environment", financed by the Romanian Government.