

TECHNICAL UNIVERSITY OF CIVIL ENGINEERING

Research Center of Mineral Waste Valorisation into Construction Materials Bd. Lacul Tei 124 * Sector 2 * RO-020396 * Bucureşti - ROMÂNIA Tel.: +40-21-242.12.08, Fax: +40-21-242.07.81



Research Center of Mineral Waste Valorisation into Construction Materials (CC-VADEMC) includes professor-researchers from the Technical University of Civil Engineering Bucharest, from Romania and abroad collaborators with important research activities on the mineral resources management in construction.

The evaluation of the waste recycling technological, environmental and economic advantages /limitation



The recovery (treatment) of industrial waste as secondary raw materials (SRMs) into conventional and advanced construction materials

INVESTIGATING-PROCESSING IDENTIFYING

THE TECHNICAL / SCIENTIFIC OFFER **TESTING OF THE DEVELOPMENT OF THE RECOVERY & CONSTRUCTION** RECYCLING MATERIALS

Achievements: required



ENGINEERING AND

testing.

TECHNOLOGICAL

 Atomic absorption spectrophotometer AA-500; Multiparameter analyzer function of pH meter conductivity, oxygen meter; 	 Automatic titrator TitroLine Easy; Vacuum Pump Rocker 410; Masterflex 7524-55 peristaltic pump; Column for percolation leaching test ; Magnetic stirrers and other devices for leaching tests. 	 Automatic mixer for pastes and grouts processing; Drum mixer for concrete; Apparatus (Rheotest Medingen GmbH type) for measuring characteristics of pastes and mortars; Standard devices for measuring the rheological characteristics of self-compacting concrete; Drying oven UFB 400;
 meter conductivity, oxygen meter; C200 colorimeter 	WETHODS	 Drying oven UFB 400; Hydraulic machines for mechanical strengths

• Experimental methods and numerical simulation of the construction materials with the SRMs behavior in application, as required by EU Construction Product Regulation 305/2011- Basic Requirements; • Assessment of contaminants release by appropriate leaching test (CEN /TC 351/WG1 N179, CEN /TC 292).



Director of the Research Center of Mineral Waste Valorisation into Construction Materials (CC-VADEMC) Professor Maria GHEORGHE PhD E-mail: <u>ccvademc@utcb.ro</u>; <u>mariagh@utcb.ro</u> Web: http://<u>ccvademc.utcb.ro</u>