D3.2.2 Catalogue of waste-stream providers and potential technology adopters

23 May 2023

KAVA Reference: 21107, GEORIS-KAVA9. GEORIS – Innovative technologies for waste processing in ESEE Region

Authors: Snježana Miletić, Gorazd Žibret, with the contribution of other partners

Responsible partner: Geological Survey of Slovenia (GeoZS)

Version No: Public version 1.0

Contents

Abstract

Based on the results of the mapping and identification process of T3.*2 Identification of and liaising with technology adopters and waste-stream providers in the RIS region,* this document reports on the methods used to approach potential GEORIS technology adopters and waste stream providers and provides a list of them. The Catalogue of waste stream producers and the Catalogue of potential technology adopters holds information of individual companies from Slovenia, Greece, Serbia, Cyprus, Bulgaria and Romania, which could be regarded as the GEORIS stakeholders. They could play a crucial role for the continuation of the work after the end of the project.

1. Introduction

1.1. The GEORIS project

"GEORIS – Innovative technologies for waste processing in ESEE Region" is a project co-funded by the European Institute of Innovation and Technology (EIT) under the EIT RawMaterials' Knowledge Innovation Community (KIC).

The GEORIS project aims to transfer in the RIS region a new geopolymerization technology which uses industrial waste to produce innovative materials for the construction industry (pavement blocks and fire-resistant panels) and the catalytic converters market. The novel technology manifested lower costs of production than the existing one for compatible products, as well as better technical specifications and environmental performance.

The GEORIS consortium involves 11 partners from 4 countries (GR, BE, PL, CY and SI). The project lead partner is ENALOS Research and Development from Greece.

1.2. Overview of Work Package 3

The aim of Work Package 3 (WP3) is to set a firm basis for the GEORIS network build-up, by identifying regulatory barriers in the participating ESEE countries, connecting GEORIS project with waste-stream providers and technology adopters, as well as potential products buyers.

WP3 will thus conclude by setting the ground for WP4 *GEORIS technology demonstration and assessment*, and the results will also be used in WP5 *Capacity and GEORIS network building & matchmaking* and WP6 *Post-project operational plan and Business Development*.

Lead partner of WP3 is Geological Survey of Slovenia, with the participation of EXELIA, ENALOS, MONOLITHOS and SE&C.

1.3. Overview of Task 3.2

The objective of this work is to ease the successful commercialisation of the geopolymerized products and its technology by connecting expertise providers with waste-stream suppliers in the region. Geological Survey of Slovenia (GeoZS) is the leader of the task T3.2 *Identification of and liaising with technology adopters and waste-stream providers in the RIS region*, which has a dual purpose.

Firstly, the partners mapped waste stream producers in the ESEE region to facilitate the spread of the geopolymerization technology. For this purpose, we first mapped the stakeholders of the past projects where GEORIS partner participated. GEORIS consortium evaluated whether these identified stakeholders are relevant also for the GEORIS project. Furthermore, GeoZS and ENALOS, with the aid of task and other partners, have identified new waste-stream providers (GeoZS: SI, BG, PL; ENALOS: GR, CY, RO).

Secondly, the consortium liaises with potential adopters of the GEORIS technologies to foster the adoption of the innovative geopolymerization technologies across the ESEE countries. This would potentially increase the partnership's income through selling IP licenses to interested third parties. Potential technology adopters included a) construction material producers, b) catalytic converter manufacturers, c) waste management companies.

GeoZS, EXELIA, MONOLITHOS and SE&C were responsible for contacting identified waste-stream providers and technology adopters in the ESEE region, by sending them the standardised message, to inform them about GEORIS project, geopolymerization technology, information about planned test fields construction in Slovenia and Cyprus, and give them further contacts in the case they would be interested.

2. Data gathering methods

This section reports on the methods used to approach potential GEORIS technology adopters and waste stream providers, as well as a list of them.

EXELIA has developed a methodological approach on how to gather the required evidence that started the task T3.2 and described it in the GEORIS document *D3.2.1: Guidelines on mapping and contacting potential technology adopters and waste steam providers.* The D3.2.1 document was accompanied by the data collection tools. These were two MS Excel files which were then filled-in with the data collected by partners - one table being for waste stream producers and the second one being for potential technology adopters.

According to the D3.2.1 Guidelines partner supplied data on companies which might be relevant stakeholders for the GEORIS project. Data on waste producers/producers were comprised of name of the company, type of waste stream (metallurgical slags, mine tailings, steel slags, fly ash, construction and demolition waste, red mud from the aluminium industry or other), elements/CRM in waste, quantity of waste, country and location Data on potential technology adopters were comprised of name of the company, type of the company (construction material producers, waste management companies, catalytic converter manufacturers or other), country and location-

Methods used for gathering data were different for waste providers and for technology adopters. Commonly used methods for gathering data on waste producers referred to the exploitation of previous project results (RIS-Alice, RESEERVE, RIS-RECOVER), existing registers on waste collectors, inventories on closed mines, scientific articles (for the type of waste, its chemical composition and quantity) and other available information on the internet (Wikipedia, euracoal.eu, USGS etc.). Technology producers data was collected from the results of the RIS-Alice project, available registers of waste management companies, and registered construction material producers (in particular from the europages.co.uk web page).

Companies listed in the tables were, where possible, contacted by partners using the e-mail content, prepared by GeoZS (Annex 1). Contacted companies were written down in the tables and included in the catalogue.

GeoZS, as leader of the task T3.2, has compiled two catalogues with results from this identification process: The Catalogue of waste stream providers (Chapter 3) and The Catalogue of potential technology adopters (Chapter 4), which are part of the report D3.2.2. This report will be used later-on in the project's go-to-market strategy (T6.4) and post-project continuation plan (T6.5).

Interested key actors will be invited to capacity building seminars (T5.2) and included in other activities of WP5.

3. Catalogue of waste stream providers

The consortium mapped the waste stream producers in the ESEE region (GR, SI, RS, BG, RO, CY, PL with an emphasis in GR, SI) to ease the spread of the geopolymerization technology to more RIS countries. This was carried out mostly through utilizing the results of projects, in which the GEORIS partners participated (e.g., RIS-ALICE, RECOVER, RESEERVE etc.). The list was compiled by ZAG, GeoZS and ENALOS. The result is the Catalogue of waste stream providers, provided in the table below.

WASTE STREAM PROVIDER/PRODUCER	TYPE OF WASTE STREAM	ELEMENT(S) / CRMs	QUANTITY	COUNTRY	LOCATION
Termit d.d.	Mineral raw material (legal status: by product)	Si, Al, Fe, Ca (oxides > 1 wt%), Ba (other elements > 100 mg/kg)	50 000 t annual production	Slovenia	46.129373, 14.763596 (lat/long WGS 84)
SIJ Metal Ravne d.o.o.	Steel slag (legal status: by product)	Ca, Fe, Si , Al, Mg, Cr (oxides > 1 wt%), Mn, V, Mo, Zn, Zr, W, Sr, Ni, Cu, Nb, Ba (other elements > 100 mg/kg)	21 000 t annual production	Slovenia	46.5477, 14.9504 (lat/long WGS 84)
SIJ Metal Ravne d.o.o.	Steel slag (legal status: by product)	Ca, Al, Si, Mg, S, Fe (oxides > 1 wt%), Mn, Sr, Zr, V, Ba, Mo (other elements > 100 mg/kg)	2 200 t annual production, 100 t current stockpile	Slovenia	46.5467, 14.9544 (lat/long WGS 84)
Šoštanj Thermal Power	Fly ash (legal status: non-	Si, Al, Ca, Fe, Mg, K, S (oxides > 1 wt%), Mn, Sr, Ba, V, Zn, Zr (other	370 000 t annual production, 1 000 t current stockpile	Slovenia	46.373330, 15.050444 (lat/long WGS 84)

	hazardous waste)	elements > 100 mg/kg)			
Šoštanj Thermal Power Plant	Bottom ash (legal status: non-hazardous waste)	Si, Al, Ca, Fe, Mg, K, C (oxides > 1 wt%), Mn, Sr, Ba, V, Zr (other elements > 100 mg/kg)	48 000 t annual production, 500 t current stockpile	Slovenia	46.373596, 15.049330 (lat/long WGS 84)
Land owners: Municipality of Litija and private owners	Mine tailings (legal status: Mineral raw material)	Si, Al, Fe, Hg, K, S (oxides > 1 wt%), Ba, Pb, Sr, Zn, Mn, Zr (other elements > 100 mg/kg)	480 000 t current stockpile	Slovenia	46.0491, 14.8290 (lat/long WGS 84)
Celje Heating Plant	Fly ash			Slovenia	Kotna ulica 10, 3000 Celje
VIPAP d.d. - Green Solutions (	Other (paper ash)			Slovenia	Tovarniška ulica 18, Krško, 8270 Krško
Dravske elektrarne Maribor d.o.o.	Other (sediment)			Slovenia	Obrežna ulica 170, 2000 Maribor
Port of Koper d.d.	Other (sediment)			Slovenia	Vojkovo nabrežje 38 6501 Koper
LIVAR d.o.o.	Other (waste foundry sand)	80 - 90 wt.% SiO2	approx. 20 000 t annual production	Slovenia	Ljubljanska cesta 43, 1295 Ivančna Gorica
TALUM Tovarna aluminija d. d. Kidričevo	Other (waste foundry sand)	90-99 wt.% SiO2	approx. 1 000 t annual production	Slovenia	Tovarniška cesta 10, 2325 Kidričevo
Valji d.o.o.	Other (Waste foundry molds and	approx. 80 wt. % SiO2	approx. 1 800 t annual production	Slovenia	Železarska cesta 3, 3220 Štore

	cores (Quartz sand mixed with other materials))				
SILKEM, d.o.o.	Other (A by-product in the production of zeolites)	75-85 wt. % SiO_2, 7-9 wt. % $Al_2O_3 \cdot H_2O$, 4-6 wt.% zeolit, 2-4 wt. % perlit		Slovenia	Tovarniška cesta 10, 2325 Kidričevo
Eti Elektroelement d.o.o.	Other (porcelain fortress)	approx. 35 wt.% SiO_2, 50 wt.% Al_2O_3	approx. 4 000 t annual production	Slovenia	Obrezija 5, 1411 Izlake
Štore Steel d.o.o.	Steel slag		approx. 21 000 t annual production	Slovenia	Železarska cesta 3, 3220 Štore
SIJ Acroni	Steel slag - processed EA C slag (legal status: by product)	Al_2O_3, SiO_2, Fe_2O_3, CaO, MgO (oxides > 10 wt.%)	39 900 t annual production	Slovenia	C. Borisa Kidriča 44, 4270 Jesenice
SIJ Acroni	Steel slag (legal status: by product)	Al_2O_3, SiO_2, Fe_2O_3, CaO, MgO (oxides > 10 wt.%)	51 500 t annual production	Slovenia	C. Borisa Kidriča 44, 4270 Jesenice
SIJ Acroni	waste WaterJet sand	Al_2O_3, SiO_2, Fe_2O_3 (oxides > 10 wt.%)	600 t annual production	Slovenia	C. Borisa Kidriča 44, 4270 Jesenice
Varna Thermal Power Plant	Fly ash	Al, Si, Fe, Ca	approx. 100.000 t/y (3 blocks, 210 MW each)	Bulgaria	TEC Varna EAD, EIC: 103551629, village of Ezerovo 9168, reg. Varna
Alcomet JRC	aluminium dross,	Al, secondary	NA	Bulgaria	Second Industrial Zone, 9700 Shumen

	aluminium scrap				
ETEM Bulgaria	recyclable aluminium	Al, secondary	30 000 metric tons (annual production 2018)	Bulgaria	ETEM BULGARIA S.A. bul.„Ilijanci“119, Sofija 1220
Bobov dol Power plant	Fly ash	Al, Si, Fe, Ca	cca 100.000 t/y (installed capacity 630 MW)	Bulgaria	Village of Golemo Selo, Bulgaria 2600, PO Box - No. 8, town of Dupnitsa
Republika Power plant	Fly ash	Al, Si, Fe, Ca	cca 25.000 t/y (installed capacity 180 MW)	Bulgaria	4 2, 2303 Pernik Industrial zone, Targovishte
Maritsa Iztok Power Plants Complex	Fly ash	Al, Si, Fe, Ca	cca 500.000 t/y (installed capacity 670+1456+900 MW)	Bulgaria	Galabovo, Radetski, Mednikarovo
Nord Holding AD	Al wastes			Bulgaria	Sofia 1220, district of Nadezhda, 1, Elov dol Street
Stomana Industry LTDs	steel slag			Bulgaria	1, Vladaisko Vastanie str. BG-2304, Pernik
Aeiforos Bulgaria s.A	steel slag			Bulgaria/ Greece	1, Vladaisko Vastanie str. BG-2304, Pernik
Ellatzite deposit	copper mining company	Cu, Au		Bulgaria	"Lyulin planina" 9, 1606 Sofia Center, Sofia
Aurubis	provider of non-ferrous metals and one of the largest	Gold, Silver, Lead		Bulgaria	42.713203, 24.160276

	copper recyclers				
Assarel-Medet JSC	company for open pit mining and processing of copper and other types of ores.	Molybdenum, Nickel, Gold, Silver		Bulgaria	500 Panagyurishte
Cumerio Med	copper smelting company	Copper	240,000 tonnes of smelted copper and around 60,000 tonnes of copper cathodes each year.	Bulgaria	2070 PIRDOP
LEMAL Sp. z o.o.	Construction & Demolition Waste	Construction & Demolition Waste	1200 t per year	Poland	Radom
P.R.B KOMBUD Sp. z o.o.	Construction & Demolition Waste	Construction & Demolition Waste	2000 t per year	Poland	Radom, Promyka 12
JUMAR GOSPODAROWANIE ODPADAMI	Construction & Demolition waste	NA	NA	Poland	DŁUGA 20 72-006 Mierzyn
Gorka - quarry in Trzebinia	red mud	Si, Al, Fe, Na, Ca, Ti	3 ha reservoir	Poland	Trzebinia
Bełchatów Power Station	Fly ash	Al, Si, Fe, Ca	approx. 1 mio t/y (Lignite: 5,102 MW	Poland	Bełchatów

			installed capacity)		
Kozienice Power Station	Fly ash	Al, Si, Fe, Ca	approx. 600.000 t/y (Coal, Biomass: 4,016 MW installed capacity)	Poland	Świerże Górne, gmina Kozienice, 26-900 Kozienice
Opole Power Plant	Fly ash	Al, Si, Fe, Ca	approx. 500.000 t/y (Coal: 3,342 MW installed capacity)	Poland	PGE Górnictwo i Energetyka Konwencjonalna S.A. Opole Power Plant Branch, Elektrowniana 25, 45-920 Opole
Turów Power Station	Fly ash	Al, Si, Fe, Ca	approx. 300.000 t/y (Lignite: 1,95 MW installed capacity)	Poland	Bogatynia
Połaniec Power Station	Fly ash	Al, Si, Fe, Ca	approx. 300.000 t/y (Coal: 1,8 MW installed capacity)	Poland	Połaniec
Rybnik Power Station	Fly ash	Al, Si, Fe, Ca	approx. 300.000 t/y (Coal: 1,775 MW installed capacity)	Poland	Podmiejska 44-207 Rybnik
Dolna Odra Power Station	Fly ash	Al, Si, Fe, Ca	approx. 300.000 t/y (Coal: 1,772 MW installed capacity)	Poland	Dolna Odra Power Plant 74-105 Nowe Czarnowo 76 near Gryfino
Pątnów Power Station	Fly ash	Al, Si, Fe, Ca	approx. 280.000 t/y(Lignite:	Poland	Kazimierska, 62-510 Konin, Wielkopolskie

			1,674 MW installed capacity)		
Jaworzno Power Station	Fly ash	Al, Si, Fe, Ca	approx. 260.000 y/t (Coal: 1,535 MW installed capacity)	Poland	ul. Promienna 51 Jaworzno
Łaziska Power Station	Fly ash	Al, Si, Fe, Ca	approx. 200.000 y/t (Coal: 1,155 MW installed capacity)	Poland	Wyzwolenia 30 43-170 Łaziska Górne
Łagisza Power Station	Fly ash	Al, Si, Fe, Ca	approx. 160.000 t/y (Coal, Biomass: 1,06 MW installed capacity)	Poland	Pokoju 14 42-504 Będzin
Mytilineos	Red Mud	Si and Al for geopolymers also Scandium, Titanium	700000 t/Yy	Greece	Voiotia
Larco SA	Metallurgical slag	Si and Al, also Cobalt	450000 t/y	Greece	Larimna
PPC SA	Fly Ash	Si and Al, Ca	1500000 t deposit	Greece	Kozani ptolemaida
Imerys	Cyclones	Si and Al	50000 t/y	Greece	Milos
SIDENOR	Steel Slag	Si and Al	900000 t/y	Greece	Northern Greece
Synergatiki Beton ABEE	Metallurgical slag/Fly Ash	Si and Al,Ca		Greece	Karystos Evia
Lykomitros Steel SA	Steel Slag	SI and Al		Greece	Volos
Lafarge Iraklis	Fly Ash	SI and Al, Ca	100.500 t/y	Greece	Volos

TITAN AE	Fly Ash	Si and Al, CA		Greece	Athens
Hellenic Halivourgia	Steel Slag	Si and Al		Greece	Athens
Hellenic Copper mines	Mine tailings	Copper	1500 t per year / 50000 t deposit	Cyprus	Skouriotissas 5, Cyprus, Larnaca
Netiatis Group	Construction and Demolition waste	Construction and Demolition waste	2000 t per year	Cyprus	
Certeju de Sus	Open-pit mine	Au		Romania	Apuseni Mountains
Timok Project	Mining company	Gold, Copper, Molybdenum		Serbia	Kralja Milana, 11000 Belgrade
Serbian ZinJin Copper DOO	Mining company	Copper, gold and silver		Serbia	Đorđa Vajferta 29, 19210 Bor
Veliki Majdan mine	Processing Waste (Flotation Tailings)	Pb-Zn		Serbia/UK	4427992, 19.30427
Rudnik mine	Mining Waste Landfills	Pb-Zn		Serbia/UK	44.11739, 20.52237
TPP Nikola Tesla	fly ash	Al, Si, Fe, Ca		Serbia	Obrenovac
TPP Kostolac	fly ash	Al, Si, Fe, Ca		Serbia	Kostolac, Požarevac

4. Catalogue of potential technology adopters

The partners in the T2.3 liaised with potential adopters of the GEORIS technologies to foster the adoption of the innovative geopolymerization technologies across the countries in the ESEE region: GR, SI, RS, BG, RO, CY and PL. The focus was on construction material producers and waste management companies, and in GR also on catalytic converter manufacturers. The result is the Catalogue of potential geopolymerisation technology adopters:

TECHNOLOGY ADOPTER	TYPE	COUNTRY	LOCATION
TOGGO d.o.o.	Manufacture of refractory materials	Slovenia	Bistriška cesta 85 SI-2319 Poljčane
Gorenjska gradbena družba d.d.	Construction material producer (+ storage and processing of construction waste)	Slovenia	Jezerska cesta 20, SI-4000 Kranj
SIJ Acroni d.o.o.	Producer of flat rolled steel products	Slovenia	Cesta Borisa Kidriča 44 SI-4270 Jesenice
SALONIT ANHOVO D.O.O.	Construction material industry (cement and additives)	Slovenia	Vojkova Ulica 1 5210 Deskle
INTERCAL Slovenija d.o.o.	Construction material producers (lime)	Slovenia	Savska cesta 1 1410 Zagorje ob Savi
Goriške opekarne d.o.o.	Construction material producers (bricks, thermal insulation wall elements)	Slovenia	Merljaki 7, 5292 Renče Slovenija
Wienerberger d.o.o.	Construction material producers	Slovenia	Boreci 49, 9242 Križevci pri Ljutomeru, Slovenija
TERMIT d.d	Construction material producers	Slovenia	Drtija 51, 1251 Moravče

OGM-BI d.o.o. (https://ogm-bi.si/)	Construction material producers (refractories)	Slovenia	Pod Hruševco 32, 1360 Vrhnika
Knauf Insulation, d.o.o. Škofja Loka	Construction material producers (insulating material)	Slovenia	Trata 32, 4220 Škofja Loka
CEGRAM, d.o.o.)	Cement products	Slovenia	Podbrezje 26, 4202 Naklo
CEMENTNI IZDELKI JARC	Cement products	Slovenia	Vaše 10/a, 1215 Medvode
Cementni izdelki Kavčič	Cement products	Slovenia	Polica 14, 4202 Naklo
OGNEUPORNI GLINI AD	Construction material producer	Bulgaria	Industrialna Zona Zapad 5800 Pleven
KAOLIN JSCO	Construction material producer (also Fire-resistant products - chamotte)	Bulgaria	Ul Dabrava 8 7038 Senovo
MAKMETAL HOLDING JSC	Waste management company	Bulgaria	Sofia 1505 40, "Vladimir Vazov" Blvd., floor 2 1505 Sofia
METALSTROY	Construction material producer (steel construction, insulation panels)	Bulgaria	Southern Industrial Zone, Plovdiv, Bulgaria 4109 Plovdiv
NEW LITIC LTD. (Thermostone)	Construction material producer (eco-frindly stone cladding)	Bulgaria/Spain (office)	Industrial Zone, Mailbox 53 8900 Nova Zagora
Aurubis	provider of non-ferrous metals and one of the largest copper recyclers	Bulgaria	
RADKOM	Waste management companies	Poland	Radom
CERADBUD	Construction material producers	Poland	Radoszyce

CLEAN WORLD	Industrial waste management industry	Poland	Kasprzykiewicza 45 05-200 Wołomin Leśniakowizna
P.P.H.U. MIETEX	Construction material producer (granite pavement)	Poland	Swidnicka 14 58-150 Rogoznica
WESTERBUD Sp. z o.o.	Construction material producers	Poland	Siedziba firmy ul. Świerkowa 9 87-300 Brodnica
SUPER DACH SP.J.	Construction material producer (Roofing materials, Raw materials for construction and public works, arbours and roofs, and tiles industries)	Poland	Hetmańska 38a 15-727 Białystok
ICOPAL S.A.	Construction material producer (Roofing materials, also fire and water protection system for the roof)	Poland	Laska 169/197 98-220 Zdunska Wola
KRAKOWSKIE ZAKLADY EKSPOLATACJI KRUSZYWA S.A.	Construction material producer & Waste management company	Poland	Rzemieślnicza 1, 30-363 Cracow
LAFARGE KRUSZYWA I BETON SP Z O O	Construction material producer & Waste management company (waste recycling)	Poland	Ilzecka 24/F 02-135 Warszawa
PIOTROWICE SP. Z O.O. ZAKLADY PRZETWORCZE SUROWCOW CHEMICZNYCH I MINERALNYCH	Construction material producer/supplier (gypsum, lime)	Poland	PIOTROWICE Sp. z o.o. Piotrowice 106, 27-630 Zawichost
JUMAR GOSPODAROWANIE ODPADAMI	Waste management company (C&D waste)	Poland	DŁUGA 20 72-006 Mierzyn
Monolithos	Catalytic converter producer	Greece	Athens

SIKA	Material producer	Greece	Athens
PROMAT	Material Producer	Greece	Athens
MAPEI	Material Producer	Greece	Athens
NORDIA	Material Producer	Greece	Athens
AKROLITHOS	Material Producer	Greece	Kavala
PERLOSTONE	Material Producer	Greece	Kavala
NOVAMIX	Material Producer	Greece	Athens
MONOISO	Material Producer	Greece	Athens
KATALYTES AVEE	Catalytic converter producer	Greece	Thessaloniki
YS Cypriot Catalysts Ltd	catalytic converters recycling company	Cyprus	Paralimni (Head office), Psevdas (production)
Vassiliko Cement Works Public Company Lt.	production and distribution of cement and clinker.	Cyprus	1519 Nicosia
Saubermacher Romania SRL	waste management company	Romania	Eduard A. Bielz no.6 550031 Sibiu, Sibiu County
SC GREENKIT SRL	waste management company	Romania	Drojdii 10 540000 Bereni
CHIMFOREX S A,	Raw materials for construction	Romania	Judetul Prahova, Pleasa 107113 Sat Pleasa
Steel-Impex d.o.o.	Waste management companies;	Serbia	Rade Končara 1, Petrovaradin, Srbija

5. Conclusions

The task T3.2 *Identification of and liaising with technology adopters and waste-stream providers in the RIS region* is the basis for network creation of the potential geopolymerization technology adopters and suppliers of the necessary waste for secondary raw material.

Identified key actors have been contacted with the aim to liaise, communicate and collaborate with interested companies and we will continue to be attentive to their feedback.

Technology adopters, waste providers, and waste management companies (recyclers), which have been mapped out and contacted within the task T2.3, will be invited to training seminars organized in T5.2 as well as provided with capacity building materials, prepared in T5.1.

Furthermore, the interested companies will be invited to the GEORIS technology demonstration and assessment (WP4). This will enable the continuation of activities after the end of the GEORIS project and might open business opportunities in the future.

The deliverable *D3.2.2 Catalogue of waste-stream providers and potential technology adopters* is the foundation for the project's go-to-market strategy (T6.4) and post-project continuation plan (T6.5)

ANNEX 1: E-mail for contacting waste producers and technology adopters

To whom it may concern/Dear Sir or Madame,

In the GEORIS project (*Innovative technologies for waste processing in ESEE region)* we will transfer a novel geopolymerization technology that utilises industrial waste to produce construction materials and a catalytic powder, all exhibiting significant financial, performance and environmental advantages (~25-30% reduction in costs & CO_2 emissions). GEORIS targets public authorities responsible for infrastructure development, construction companies, and industrial waste providers, including 11 partners from 4 countries (BE, GR, SI, RS). We are also going to prepare 2 pilot sites (one in Slovenia, second in Greece) by using mineral waste materials and geopolymers as a binder, to demonstrate the appropriateness of this technology for everyday use.

We are contacting you because we recognised you as a potential waste provider or technology adopter, to foster the adoption of the innovative geopolymerization technologies.

If you are interested in the GEORIS project as a waste producer/potential technology adopter and would need more information about the technology we develop, do not hesitate to contact us at sakkas@enalos.com .

Best regards,

Dinos Sakkas

GEORIS project coordinator