



LIFE

EGG
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Deliverable DA1.1.1 Map of egg processing and ceramic companies in Spain and Portugal



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1. Introduction

The actions contemplated in the LIFE EGGSHELLENCE project are structured in five groups of actions, being those of type "A" the preparatory actions of the project. This deliverable corresponds to Action A1 and includes a map and several lists of egg processing companies and ceramic companies from Spain and Portugal.

The solution proposed in the project envisages the treatment of eggshell by egg processing companies with the machinery that MAINCER is developing and the transport of the resulting bio-CaCO₃ to the end user: the ceramic company.

The lists of ceramic companies from Spain have been elaborated including not only manufacturers of wall tile compositions (the type of ceramic tile that contains calcium carbonate as raw material, object of study in Life Eggshellence) but also bricks and roof tiles as these ceramic products can also be potential users of the bio-CaCO₃ (many of these products are obtained with clays that already contain calcium carbonate). The reason for widening the type of ceramic materials is that wall tile manufacturers are located in Castellón and for some egg processing companies the distance that bio-CaCO₃ will have to be transported can reduce economic viability. Roof and brick tile manufacturers are spread throughout Spain and can be an alternative end user.

The lists will be included and continuously updated in the web page of Life Eggshellence (expected on February-March 2021).

2. Egg processing companies in Spain

The list of egg processing companies located in Spain has been obtained through several sources. The main source has been the directory of egg processing companies registered in the Agencia Española de Seguridad Alimentaria y Nutrición (AESAN): https://rgsa-web-aesan.mscbs.es/rgsa/formulario_principal_js.jsp

The use of this directory has been suggested by INOVO, the Spanish Association of Egg processing companies, member of the Stakeholders Advisory Board created in the project. By selecting the appropriate activity (egg products) as it can be seen in Figure 1, a list of 25 companies is obtained. These companies have been checked in different web pages that contain financial information and some of them have been removed from the list as no commercial activity has been observed or the company has been extinguished. In addition, some of them have been contacted and they have confirmed that they are not generating eggshell so they have also been removed from the list.

The final list of 20 companies is shown in Table 1. AGOTZAINA, in bold in this list, is the Life Eggshellence partner involved in the testing of the machinery that will separate the membrane from the eggshell and in the preparation of the bio-CaCO₃ used in the industrial trials. In addition, the other companies in bold have shown their interest in the replication of this solution and are members of the Stakeholders Advisory Board created in the project. For these companies, actual generation of eggshell is listed in Table 2, being the total amount almost 5,600 tonnes (approximately one third of total eggshell generated in Spain: 16,000 tonnes).



Seguridad Alimentaria / Registro Sanitario / Empresas Alimentarias Inscritas (RGSEAA)

Empresas Alimentarias Inscritas (RGSEAA) / FOOD COMPANIES REGISTERED IN SPAIN

Búsqueda Avanzada / Advanced Search	
Razón Social / Enterprise Name:	<input type="text"/>
Clave / Food sector:	<input type="text"/> Huevos y derivados.
Categoría / Main activity:	<input type="text"/> Fabricación o Elaboración o Transformación
Actividad / Type of product or individual activity:	<input type="text"/> Ovoproductos
CCAA / Region:	<input type="text"/>
Provincia / Province:	<input type="text"/>
Localidad / Town:	<input type="text"/>
Nº RGSEAA / Spanish Registration Number:	<input type="text"/> . <input type="text"/> / <input type="text"/>

Figure 1. Selection criteria used to obtain the list of egg processing companies registered in the AESAN.

Table 1. Final list of egg processing companies obtained in the database of the AESAN grouped by regions.

Region	Registration number	Enterprise name	Address	Town	Province
Andalucía	14.00655/CA	Granja Rodriguez S.L.	Vega La Apreciada 22	Conil De La Frontera	Cádiz
Andalucía	14.01436/SE	Alvarez Camacho S.L.	Extramuros de San Sebastián s/n	Marchena	Sevilla
Aragón	14.02750/HU	Interovo Iberica S.L.U.	Ctra Huesca-Grañen km. 15.7 s/n	Callen	Huesca
Illes Balears	14.02081/IB	Avicola Ballester, Sa	Cami Monastir Benedictines, s/n	Manacor	Mayorca
Castilla y León	14.00126/BU	S.A.T. N. 1511 Reservado La Andaya	Camino Valleval, s/n	Tordomar	Burgos
Castilla y León	14.00145/BU	Calidad Pascual, S.A.U.	Carretera Madrid-Irún (Este) s/n	Aranda de Duero	Burgos
Castilla y León	14.00169/VA	Marcopolo Comercio S.L.	Carretera Segovia Km. 19.5	Aldeamayor de San Martín	Valladolid
Castilla la Mancha	14.00112/GU	Dagu, S.A.	Ctra. N-II, Km. 50,600	Cabanillas del Campo	Guadalajara
Castilla la Mancha	14.02342/TO	Arandi Illescas, S.L.	C/ Sabina, 6 Y 7 (Polg. Ind. La Arboleda)	Illescas	Toledo
Cataluña	14.01038/B	Granjas Leonart Y Subirana S.A.	CT De Terrasa, 2	Ullastrell	Barcelona
Cataluña	14.00436/L	Angel Baldoma Sa	Pol. Ind. Camp Llong C/ Tramontana, Parc 55	Balaguer	Lleida
Cataluña	14.00047/T	Copain S.L.	Carrer Antonio Rubio i Lluch, 8-14	Reus	Tarragona
Cataluña	14.00442/T	Produccion y Comercializacion Avicola S.A.	Ct Cambrils Km 6,2.	Reus	Tarragona
Comunidad Valenciana	14.01254/V	Avicola Llombay, S.A.	Pda Bornaig, s/n	Llombai	Valencia

Comunidad Valenciana	14.003264/V	Ovoproductos Guillen, S.L.	Av Bodegas (De Las) s/n Parcela M803 Pol Nuevo Tollo	Utiel	Valencia
Comunidad Valenciana	14.003460/V	S.A.T. 7572 Hermanos Salon	Paraje Relamina (La) s/n	Sinarcas	Valencia
Galicia	14.00203/LU	Granja Campomayor, S.L.	Ctra.Nac.547-P.K.27 Lg. Ximonde, s/n	Palas De Rei	Lugo
Madrid	14.00893/M	Gestión De Comercio Avícola, S.L.	Cr. M-204 (De Ambite) Nº 26	Tielmes	Madrid
Navarra	14.01323/NA	Agotzaina S.L.	Carretera Estella s/n	Arbizu	Navarra
País Vasco	14.00746/VI	Avicola Arbaraitz, S.L.	Diseminados, 4	Asparrena	Álava

Table 2. Eggshell generated by some of the companies listed in Table 1.

Region	Enterprise name	Eggshell (tonnes/year)	Province
Andalucía	Alvarez Camacho S.L.	600	Sevilla
Castilla y León	Calidad Pascual, S.A.U.	1,000	Burgos
Cataluña	Copain S.L.	400	Tarragona
Cataluña	Producción y Comercialización Avícola S.A.	900	Tarragona
Galicia	Granja Campomayor, S.L.	190	Lugo
Navarra	Agotzaina S.L.	2,500	Navarra

3. Producers of wall tile compositions and other ceramic companies in Spain

Ceramic tiles are thin slabs made from clays, silica, fluxes, calcium carbonate and other raw materials. Wall tiles are the type of ceramic tiles used as coverings for walls.

One of the required wall tile properties is high dimensional stability. This is achieved by low firing shrinkage (less than 1%), which is accompanied by high porosity, facilitating tile installation. High porosity allows the tile to be readily accessed by water, hydrating the amorphous and glassy phases present. This can lead to tile curvature and even crazing of the glaze layer. It is therefore necessary for fired tiles to contain a large quantity of crystalline phases to enable attaining low moisture expansion (below 0.1 %).

Dimensional stability, high porosity and crystalline phase formation are achieved by introducing calcium and/or magnesium carbonates in the composition in percentages varying from 10 to 15%. According to the ceramic tile production more than 150,000 tons/year of calcium carbonate are consumed by the Spanish ceramic tile industry. Therefore, the ceramic wall tile producers could absorb the totality of eggshells produced by egg transformation industry and would reduce the extraction of the limestone destined to the ceramic industry of around 40%.

All the companies that produce wall tile bodies in Spain are clients of ITC-AICE, so in this case the list has been obtained from ITC-AICE's own database. All the companies are located in the province of Castellón (Comunidad Valenciana). EUROATOMIZADO is partner of Life Eggshellence (they will carry out the industrial trials for the production of wall tile compositions with the new bio-CaCO₃ together with ADM from Portugal) and NUEVOS PRODUCTOS CERÁMICOS belongs to the same group. This group consumes approximately 40,000 tonnes of calcium carbonate annually (almost one third of total annual consumption of calcium carbonate of the companies listed in Table 3: 150,000 tonnes). In fact, this group could absorb the totality of bio-CaCO₃ produced by all the Spanish egg processing companies. Despite this, Keraben Grupo

and Euroarce are also interested in this solution and are members of the Stakeholders Advisory Board to study the possible use of the bio-CaCO₃ once the project ends.

Table 3. Producers of wall tile bodies.

Enterprise name	Address	Town	Province
Azuliber 1, S.L.	Camí Prats, s/n	Alcora	Castellón
Arcilla Blanca, S.A.	Pol. Ind. Partida Foies Ferraes, s/n	Alcora	Castellón
Euroarce Ceramics, S.A.	Calle Pas de Fulla, 4	Onda	Castellón
Euroatomizado, S.A.	Pol. Ind. El Colomer, Cami Colaor, 40	Onda	Castellón
Nuevos Productos Cerámicos, S.A.	Partida Emperadora, s/n	Villafamés	Castellón
Arcillas Atomizadas, S.A.	Av. Manuel Escobedo, 30	Onda	Castellón
Keraben Grupo, S.A.	Ctra Valencia - Barcelona, Km 44,3	Nules	Castellón
Porcelanosa, S.A.	Crtra. N-340 km 56,2	Villarreal	Castellón
Venis, S.A.	Crtra. N-340 km 56,5	Villarreal	Castellón
Grespania, S.A.	CV 16 km 2,2	Castellón	Castellón

Apart from manufacturers of wall tile bodies, a search of other ceramic companies which could consume bio-CaCO₃ has been made. The reason is that for some of the egg processing companies the distance to the companies from Table 3 could make the solution economically not viable, specially in the case of companies which are generating small quantities of eggshell. For these companies the cost of acquisition of the machinery to separate the membrane from the eggshell together with the cost of transporting the bio-CaCO₃ could be too high.

The types of companies which can be end users of the bio-CaCO₃ are bricks and roof tile producers. These companies use clays which in many occasions contain calcium carbonate, so it is technically feasible to introduce another source of calcium carbonate. For the search of these types of companies the databases of Hispalyt (Asociación Española de Fabricantes de Ladrillos y Tejas de Arcilla Cocida) have been used. In fact, Hispalyt is also member of the Stakeholders Advisory Board. Hispalyt informed all its associates of the project and demanded authorization to be contacted by ITC, being this a long process. Once having their acceptance, by means of telephone interviews, actual interest of the ceramic companies different from wall tile producers (bricks and roof tiles producers) in the use of bio CaCO₃ from eggshell has been checked.

From these interviews, the following list of companies has been obtained. From this table it can be concluded that in almost all the regions where there are egg processing companies there are also ceramic companies. Only in Aragón, no ceramic company has been identified (two existing ones did not accept being involved).

Table 4. Ceramic companies potential users of bio-CaCO₃ grouped by regions.

Region	Province	Enterprise
Andalucía	Córdoba	Proceran S.A.U.
Andalucía	Jaén	Baiceram S.L.
Andalucía	Jaén	Cerámica Gayga S.L.
Andalucía	Jaén	Cerámica La Andaluza De Bailén S.L.
Andalucía	Jaén	Cerámica La Union S.L.
Andalucía	Jaén	Cerámica Malpesa S.A.
Andalucía	Jaén	Terrabrick, S.L.
Andalucía	Jaén	Torres Padilla, S.L.
Andalucía	Sevilla	Ag Tecno-3

Andalucía	Sevilla	Fabricación De Ladrillos A.G.-2 S.L.
Andalucía	Sevilla	Refractarios Andalucía S.L.
Castilla la Mancha	Albacete	Cerámica Chinchilla, S.L.
Castilla la Mancha	Ciudad Real	Cerámicas Valera S.A.
Castilla la Mancha	Cuenca	Cerámicas De Mira S.L.
Castilla la Mancha	Toledo	Cerámica Hermanos Hernández S.A.
Castilla la Mancha	Toledo	BMI Roofing Systems S.L.U.
Castilla la Mancha	Toledo	Cerámica Millas Hijos S.A.
Castilla la Mancha	Toledo	Cerámica Pastrana S.A.
Castilla la Mancha	Toledo	Cerámica Peño S.L.
Castilla la Mancha	Toledo	La Paloma Cerámicas
Castilla la Mancha	Toledo	La Paloma Cerámicas (Cerámica Elu S.L.)
Castilla la Mancha	Toledo	Mazarrón Tejas S.L.
Castilla la Mancha	Toledo	Mazarrón Termoarcilla S.L.
Castilla y León	Valladolid	Cerámica Zaratán, S.A.
Castilla y León	Zamora	Cerámicas Saza S.A.
Cataluña	Barcelona	Comercial Aymerich S.A.
Cataluña	Lleida	Cerámica Belianes S.L.
Cataluña	Lleida	Cerámica de Almacellas S.A.
Cataluña	Lleida	Cerámica Farreny S.A.
Cataluña	Lleida	Cerámica la Coma S.A.
Cataluña	Lleida	Palau Cerámica de Alpicat S.A.
Cataluña	Lleida	Teuleria Almenar S.A. (Tealsa)
Comunidad Valenciana	Alicante	Cerámica la Esperanza
Comunidad Valenciana	Alicante	Cerámica Mayor S.A.
Comunidad Valenciana	Valencia	Cerámicas Alonso S.L.
Comunidad Valenciana	Valencia	Cerámicas Arcis S.L.
Comunidad Valenciana	Valencia	Cerámicas Jornet S.A.
Comunidad Valenciana	Valencia	Ceramosa S.L.
Extremadura	Badajoz	Tabicesa S.A.U.
Galicia	Ourense	Cerámica La Manchica S.L.
Islas Baleares	Baleares	Ladrilleras Mallorquinas S.A.
La Rioja	La Rioja	Cerámica De La Estanca S.A.
La Rioja	La Rioja	Herederos Cerámica Sampedro S.A.
Murcia	Murcia	La Ladrillera Murciana
Navarra	Navarra	Cerámica Utzubar S.A.

4. Egg processing companies in Portugal

The list of egg processing companies located in Portugal has been obtained through the involvement of DGAV (Direção-Geral de Alimentação e Veterinária – Directorate-General for Food and Veterinary). DGAV is

supporting the Life Eggshellence project and indicated that the egg processing companies can be found in the following web page:

<http://srvbamid.dgv.min-agricultura.pt/portal/page/portal/DGV/genericos?actualmenu=279689&generico=326344&cboui=326344>

This web page redirects to this second web page (<https://sipace.dqav.pt/Estabelecimentos/PublicacaoNCV?s.Seccao=12>), where there is the list of 15 companies shown in Table 5 (the three companies in bold belong to the Stakeholders Advisory Board). For these companies, actual generation of eggshell is listed in

Table 6, being the total amount around 6,000 tonnes.

Table 5. List of Portuguese egg processing companies.

Enterprise name	Address	Town
Fabridoce – Doces Regionais Lda.	Rua da Paz 117 – Quintã do Loureiro, 3800-587 Cacia	Aveiro
Aviários Xavier	Rua de Santa Eulália, 881 ,4570-051, Balazar	Póvoa de Varzim
AVIÁRIO DO RESOURO-Produção de Ovos, Lda	Rua dos Aviários, n.º 5, Resouro, 2435-690, Urqueira	Ourém
Clara & Gema - Sociedade Produtora de Ovos, Lda.	Rua da Peralva, nº 2-Curvaceiras, 2305-511, Paialvo	Tomar
Ovos do Caramulo, Lda.	Zona Industrial da Adiça, Lt 23, 3460-321, Tondela	Tondela
OVOPOR-Agro-Pecuaria dos Milagres, SA	Alcaidaria, Milagres ,2415-011, Leiria	Leiria
José Maria Mendes & Mendes, Lda	Rua Nossa Senhora Fátima, 318 - Lapa - Santiago da Guarda, 3240-650	Ansião
GEMADOURO-Produtores de Ovos, S. A.	Parque Industrial da Mota, Lote 35, 3100-354, Pombal	Pombal
Derovo-Derivados de Ovos, S.A.	Parque Industrial da Mota / Lote 30-Apartado 1018, 3100-354, Pombal	Pombal
Campovo-Produção e Comercialização de Ovos, SA	Bairro da Bela Vista, 3100-359, Gramela	Pombal
ZÉZEROVO-Produção Avícola do Zêzere, S.A.	Relvas, 2240-518, Ferreira do Zêzere	Ferreira do Zêzere
António Violante Afoito	Cabeço do Monte, 2000-490, Santarém	Santarém
Aviários-Agro Ovo, Lda	Quinta do Almargem - Assafora - S. João das Lampas, 2705-435, Assafora	Sintra
Liderfresh, Lda.	Casal Vale da Tábua n.º 34, 2565-006, Campelos	Torres Vedras
Rica Granja	Vale das Balsas, Apartado 50, 6150-508 Proença a Nova	Castelo Branco

Table 6. Eggshell generated by some of the companies listed in Table 5.

Enterprise name	Eggshell (tonnes/year)	Town
Derovo-Derivados de Ovos, S.A.	2,000	Pombal
Rica Granja	3,400	Castelo Branco
Fabridoce – Doces Regionais Lda.	660	Aveiro

5. Ceramic companies in Portugal

In the case of Portugal spray-driers manufacturing wall tile bodies are spread through all the country. For this reason only this type of companies has been analysed. Adelino Duarte da Mota (ADM) is partner of Life Eggshellence (they will carry out the industrial trials for the production of wall tile compositions with the new bio-CaCO₃). This company consumes approximately 13,000 tonnes of calcium carbonate annually (almost half of total annual consumption of calcium carbonate of the companies listed in Table 7: 30,000 tonnes).

Table 7. Producers of wall tile bodies.

Enterprise name	Address	Town
Unipasta, Pastas Cerâmicas, S.A.	Parque Industrial Manuel Mota, Lt. E	Pombal
Gres Panaria Portugal, S.A.	R. da Chousa Nova 3, 3830-133	Ílhavo
Cinca, Companhia Industrial de Cerâmica, S.A.	R. 1º de Maio 1	Argoncilhe
Recer, Industria de Revestimentos Cerâmicos, S.A.	Estr. Vila Verde, 3770-953	Oliveira do Bairro
Adelino Duarte da Mota, S.A.	Estr Nacional 1 3105-253	Meirinhas

6. Map of egg processing and ceramic companies

A map has been elaborated with the egg processing companies listed in the previous sections together with the ceramic companies identified (Figure 2). Ampliations of the map for the regions with a higher concentration of companies (Comunidad Valenciana in Spain and the upper part of Portugal) have also been included in Figures 3 and 4. Apart from these maps, the closest ceramic companies (wall tile bodies manufacturers and other ceramic producers) as well as the distance to these companies has been estimated and included in Table 8. As already stated, for many egg processing companies the distance to wall tile bodies manufacturers is high (more than 400 km) and for this reason, other types of ceramic companies have been included. In this way, the maximum distance is less than 150 km except in the case of GRANJA RODRIGUEZ which is 238 km far away from the closest ceramic company: PROCERAN. In the case of Portuguese egg processing companies only the closest wall tile body manufacturer has been included as in this case, the distances are smaller (maximum 158 km). All this information will be included in the web page of the project.



Figure 2. Map of egg processing companies and ceramic companies.

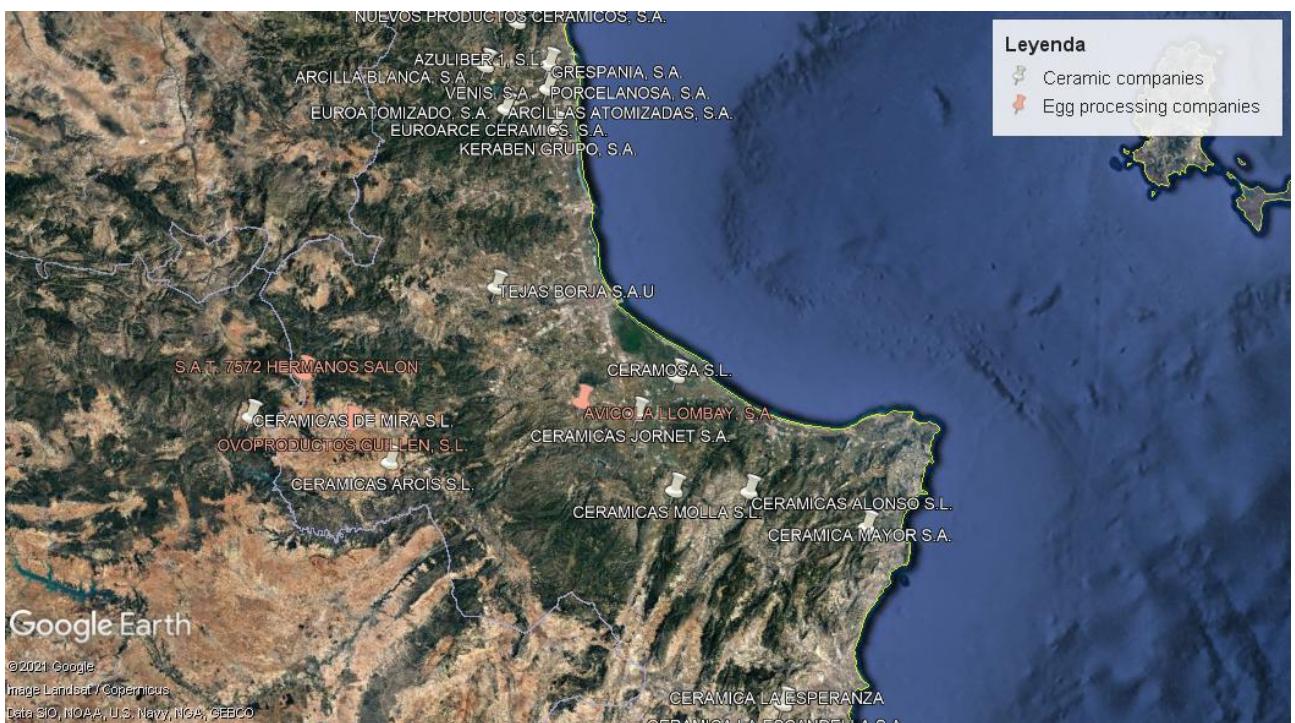


Figure 3. Map of egg processing companies and ceramic companies for the region of Comunidad Valenciana (Spain).

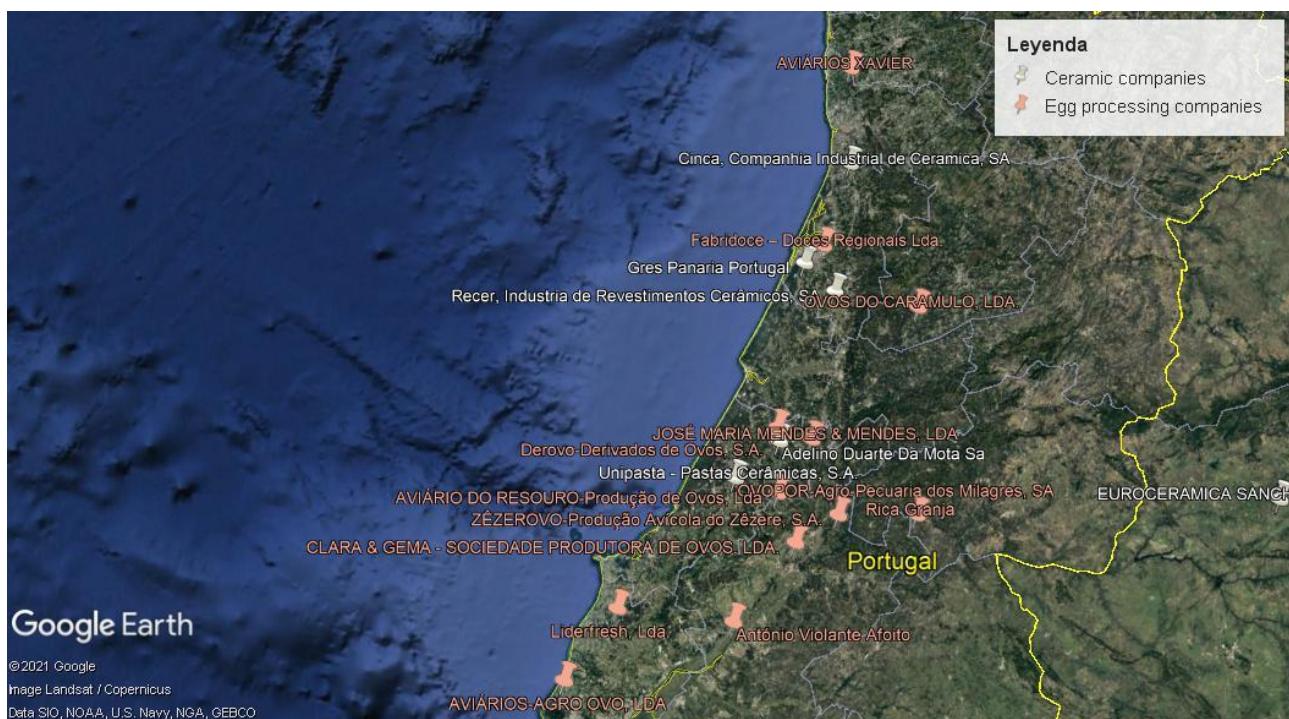


Figure 4. Map of egg processing companies and ceramic companies for the upper part of Portugal.

Table 8. Egg processing companies and the closest ceramic companies/cluster.

Enterprise name	Closest wall tile manufacturer	Distance (km)	Closest ceramic company	Distance (km)
Granja Rodriguez S.L.	Adelino Duarte Da Mota (Adm)	601	Proceran S.A.U.	238
Alvarez Camacho S.L.	Adelino Duarte Da Mota (Adm)	532	Proceran S.A.U.	82
Interovo Iberica S.L.U.	Nuevos Productos Ceramicos, S.A.	265	Ceramica de Almacellas S.A	111
Avicola Ballester, S.A.	--	--	Ladrilleras Mallorquinas S.A.	14
S.A.T. N. 1511 Reservado La Andaya	Keraben Grupo, S.A.	507	La Paloma Ceramica y Gres S.L (Klinker Seg)	143
Calidad Pascual, S.A.U.	Keraben Grupo, S.A.	450	La Paloma Ceramica y Gres S.L (Klinker Seg)	103
Marcopolo Comercio S.L.	Keraben Grupo, S.A.	587	La Paloma Ceramica y Gres S.L (Klinker Seg)	49
Dagu, S.A.	Keraben Grupo, S.A.	367	Mazarron Termoarcilla S.L.	98
Arandi Illescas, S.L.	Keraben Grupo, S.A.	411	Mazarron Termoarcilla S.L.	12
Granjas Leonart Y Subirana S.A.	Euroatomizado, S.A.	268	Comercial Aymerich S.A.	78
Angel Baldoma Sa	Euroatomizado, S.A.	260	Ceramica Belianes S.L.	37
Copain S.L.	Euroatomizado, S.A.	174	Ceramica Belianes S.L.	75

Produccion y Comercializacion Avicola S.A.	Euroatomizado, S.A.	171	Cerámica Belianes S.L.	69
Avicola Llombay, S.A.	Keraben Grupo, S.A.	86	Cerámicas Jornet S.A.	19
Ovoproductos Guillen, S.L.	Keraben Grupo, S.A.	123	Cerámicas Arcis S.L.	17
S.A.T. 7572 Hermanos Salon	Keraben Grupo, S.A.	144	Cerámicas Arcis S.L.	39
Granja Campomayor, S.L.	Adelino Duarte Da Mota (Adm)	456	Cerámica La Manchica S.L.	95
Gestión De Comercio Avícola, S.L.	Keraben Grupo, S.A.	360	Mazarrón Termoarcilla S.L.	90
Agotzaina S.L.	Euroatomizado, S.A.	527	Cerámica Utzubar S.A.	2
Avicola Arbaraitz, S.L.	Euroatomizado, S.A.	545	Cerámica Utzubar S.A.	18
Fabridoce – Doces Regionais Lda.	Gres Panaria Portugal, S.A.	12	--	--
Aviários Xavier	Cinca, Companhia Industrial de Cerámica, S.A.	63	--	--
AVIÁRIO DO RESOURO-Produção de Ovos, Lda	Adelino Duarte da Mota, S.A.	18	--	--
Clara & Gema - Sociedade Produtora de Ovos, Lda.	Adelino Duarte da Mota, S.A.	35	--	--
Ovos do Caramulo, Lda.	Recer, Industria de Revestimentos Cerâmicos, S.A.	58	--	--
OVOPOR-Agro-Pecuaria dos Milagres, SA	Adelino Duarte da Mota, S.A.	10	--	--
José Maria Mendes & Mendes, Lda	Adelino Duarte da Mota, S.A.	14	--	--
GEMADOURO-Produtores de Ovos, S. A.	Unipasta, Pastas Cerâmicas, S.A.	2	--	--
Derovo-Derivados de Ovos, S.A.	Adelino Duarte da Mota, S.A.	17	--	--
Campovo-Produção e Comercialização de Ovos, SA	Adelino Duarte da Mota, S.A.	22	--	--
ZÊZEROVO-Produção Avícola do Zêzere, S.A.	Adelino Duarte da Mota, S.A.	65	--	--
António Violante Afoito	Adelino Duarte da Mota, S.A.	65	--	--
Aviários-Agro Ovo, Lda	Adelino Duarte da Mota, S.A.	158	--	--
Liderfresh, Lda.	Adelino Duarte da Mota, S.A.	114	--	--
Rica Granja	Adelino Duarte da Mota, S.A.	101	--	--