

# Balkan industrial solid waste reuse: The SWAN digital ecosystem developments

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# Project:

## “a digital Solid Waste reuse plAtform for BalkaN”

EU Programme: **Interreg Balkan-Med**

Project acronym: **S.W.A.N.**



**Interreg**   
Balkan-Mediterranean



Priority axis: **Environment**

Budget: **968.000 Euros**

<http://www.interreg-balkanmed.eu/home/>

<https://www.swan-interreg.com/>

**Project duration: September 2017-June 2020 (2yrs+9mo)**



**PARTNERSHIP:**

**Lead Partner-Greece:**

Association of Municipalities in the Attica Region-Solid  
Waste Management Public Authority(EDSNA)



**Partners-Greece**

Greek Ministry of Environment and Energy

University of the Aegean-

Research unit-Department of Business Administration



**Partners-Albania**

Albanian Ministry of Tourism and Environment

**ILIRIA**-Protection and Social & Environmental  
Development Association NGO



**Partner-Bulgaria**

Bulgarian Industrial Association-  
Union of the Bulgarian Business



**Partner-Cyprus**

Cyprus University of Technology-

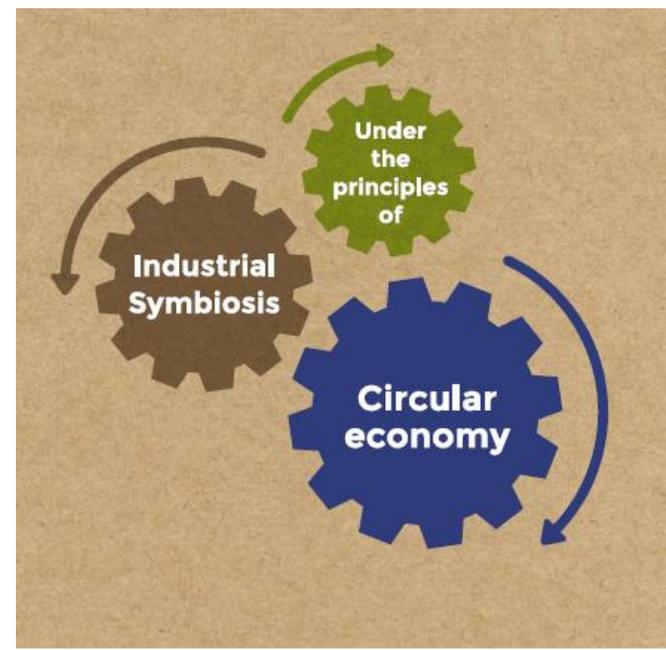
Department of Environmental Science and Technology



**a digital Solid Waste reuse pLAtform for BalkaN**



SWAN project develops local and transnational cooperation in the Balkan-Mediterranean region, among **industrial solid waste producers** and **potential solid waste re-users**

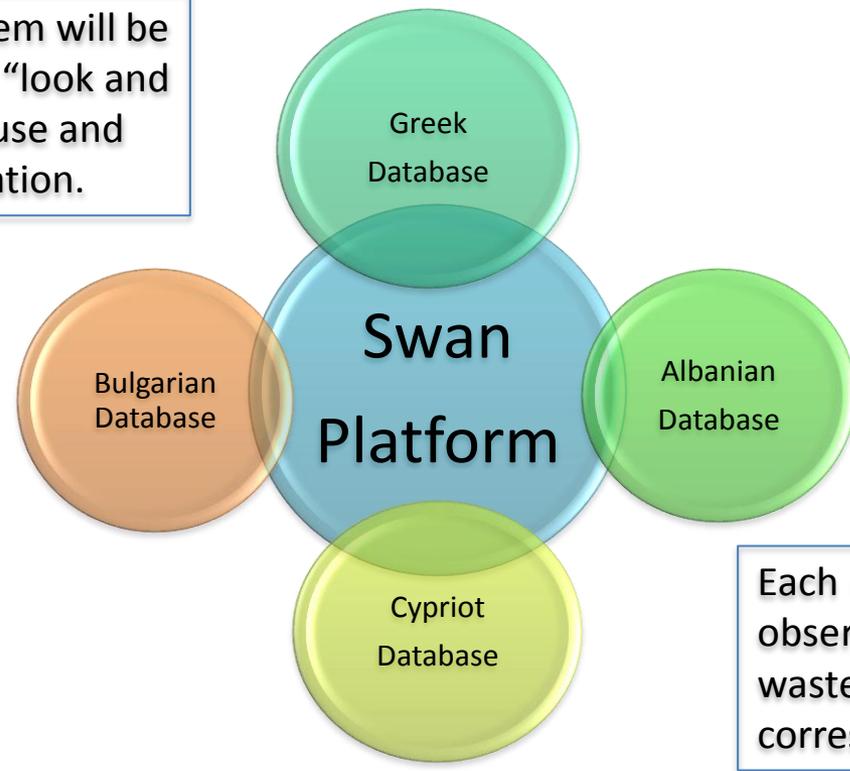


Its implementation, will ensure the diversion of an important fraction of non-hazardous solid waste, from further treatment or landfilling will contribute as well on saving raw materials, under the principles of **circular economy** and **industrial symbiosis** and will demonstrate **circular economy good practices**.



**a digital Solid Waste reuse pLAtform for BalkaN**

The SWAN digital ecosystem will be designed with a standard “look and feel” to facilitate ease of use and software design simplification.



Each data base will act as a digital observatory by registering solid waste sources of the region’s corresponding partner.

**S.W.A.N. DIGITAL ECOSYSTEM**

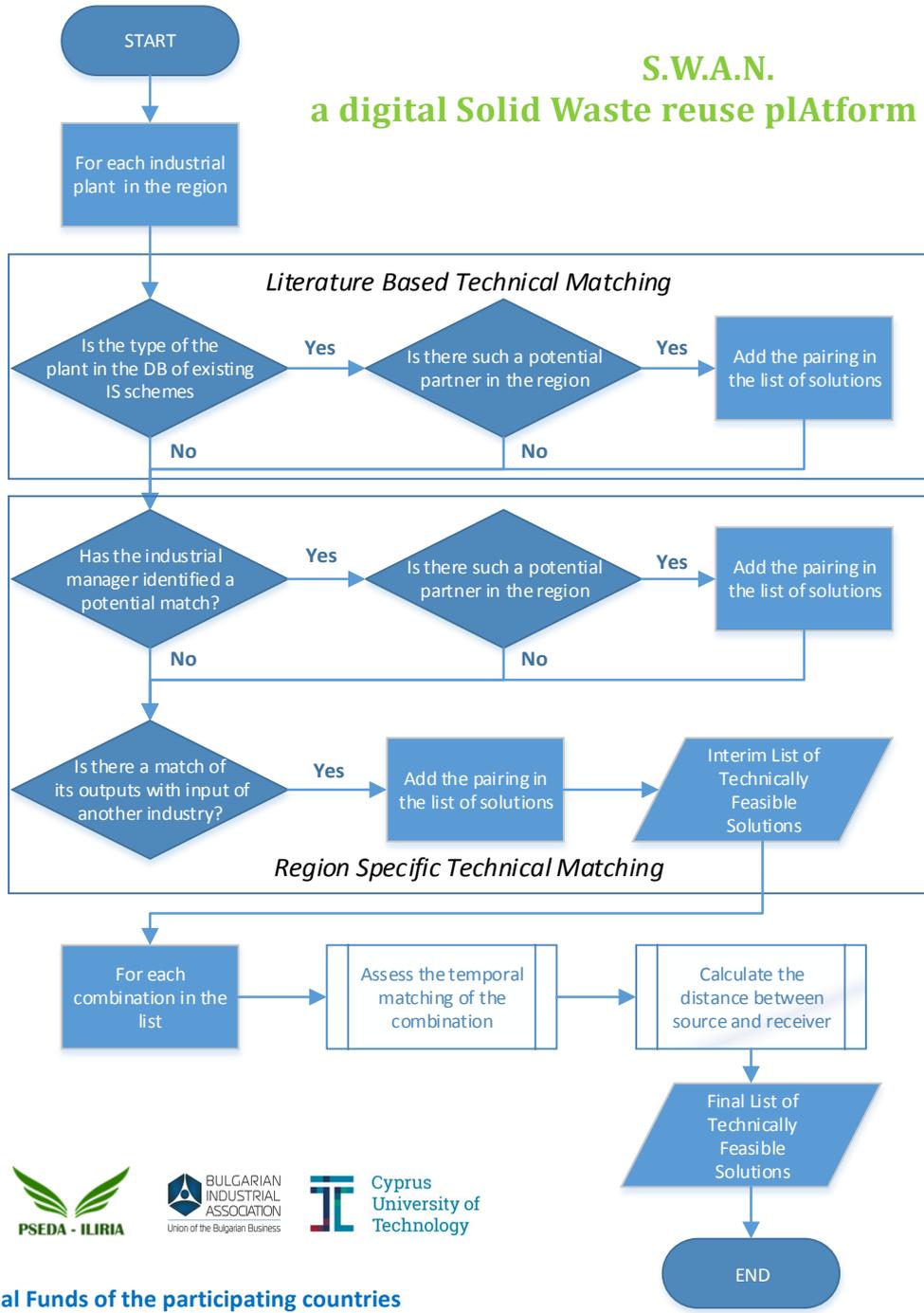


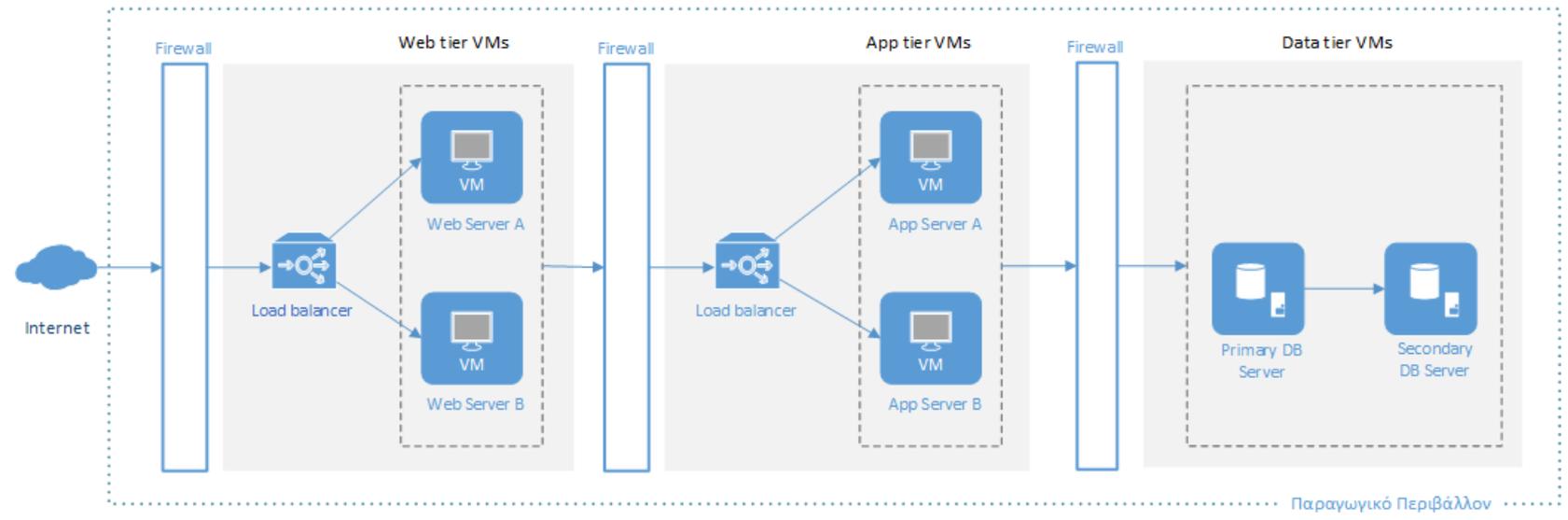
Mapping

Matching

Assessing

The SWAN platform algorithm

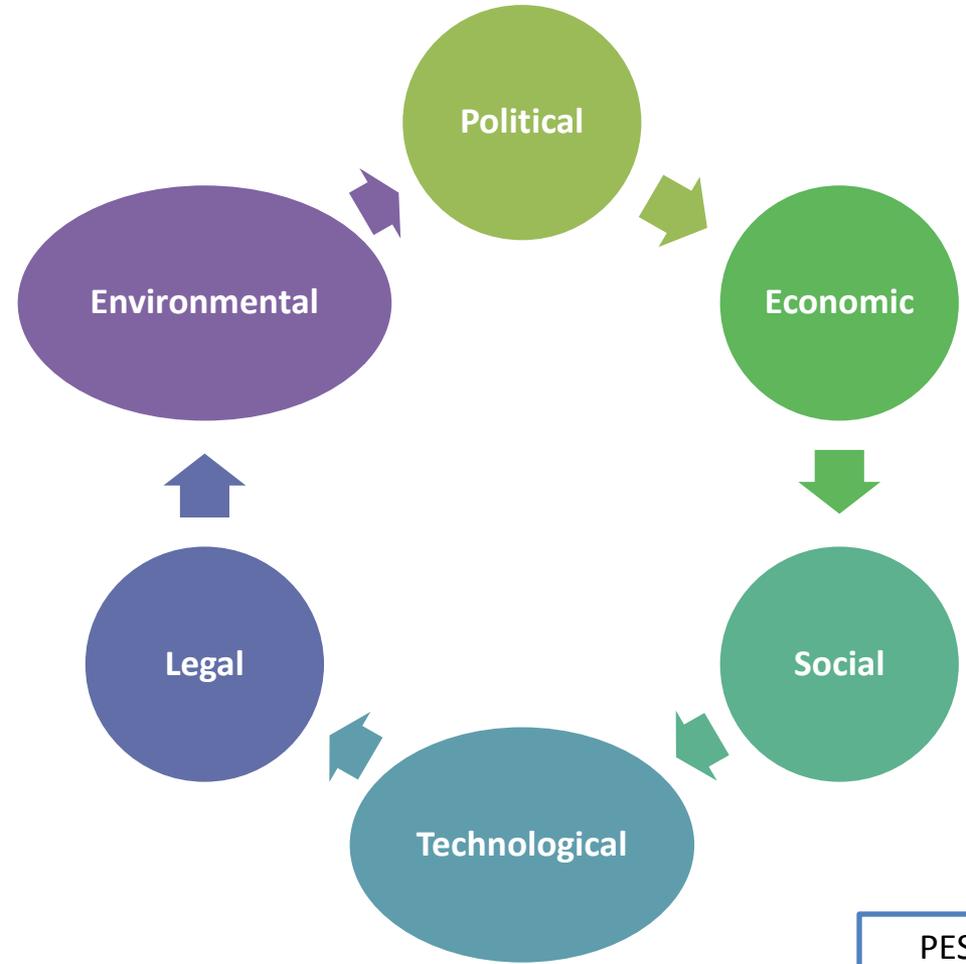




**Algorithm N-Tier Application Architecture**



# a digital Solid Waste reuse platform for BalkaN



Waste Management Administrators

Ministry of Environment

Regional Authorities

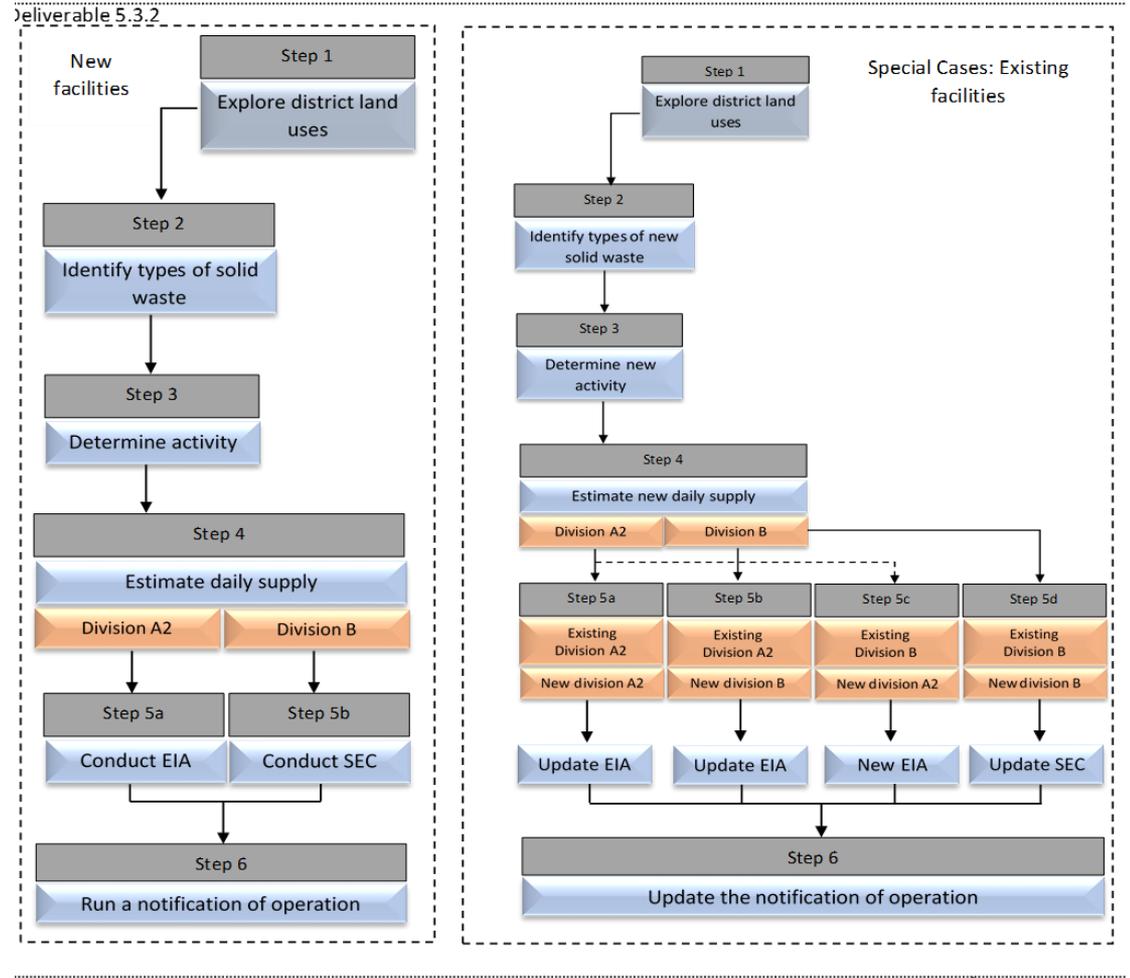
**PESTLE questionnaire**

PESTLE will be used so that the SWAN project partners can identify the factors that may act as implementation barriers for the proposed solid waste reuse model in the Balkan region.

**Pilot project**

The project implementation study provides a generic tool for decision makers, enhanced with a flowchart to direct interested stakeholders through the process of preparing and submitting the required documentation to public authorities.

The guidance applies to both new and existing storage facilities that are modernized.



# Benefits

## Environmental

- Saving non renewable resources by providing secondary materials
- GHG abatement
- Reduce waste disposal

## Financial

- Industries will develop relevant strategies, quality specifications and standards for resource savings
- Waste producers and collectors will identify ways to recover value

## Social

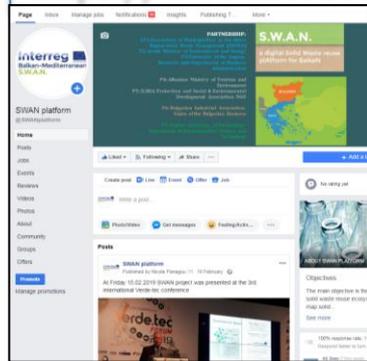
- Job creation, ranging from IT support for the IT platform, to new SMEs that will enter the resulting waste management value chains
- Low cost waste management

Social media:



Web site: <https://www.swan-interreg.com/>

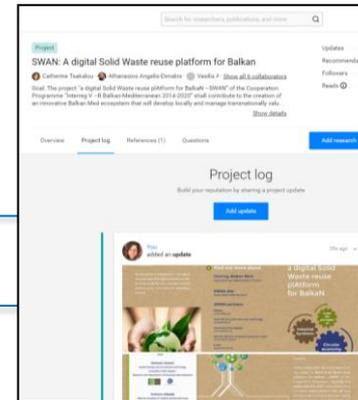
<https://www.facebook.com/SWANplatform>



<https://www.linkedin.com/in/s-w-a-n-platform-4b91a4173>



<https://www.researchgate.net/project/SWAN-A-digital-Solid-Waste-reuse-platform-for-Balkan>



**Information about SWAN project**



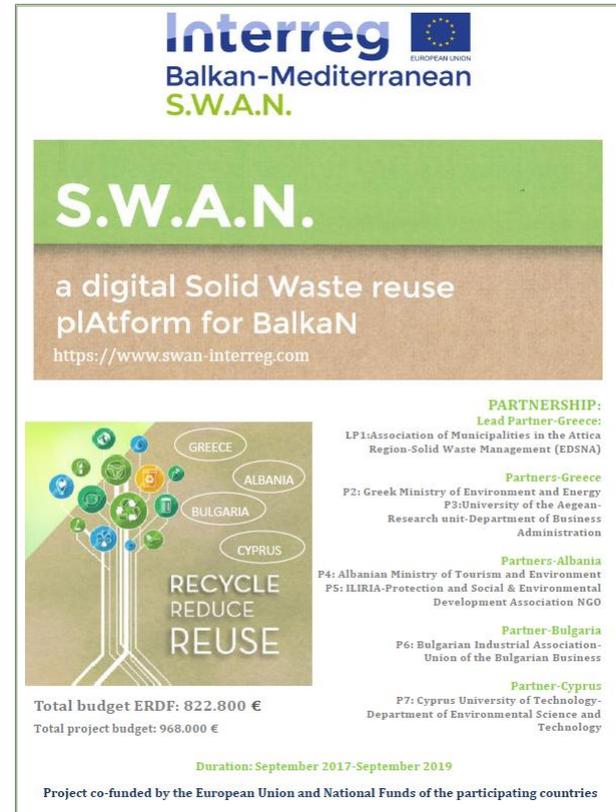
# Interreg



EUROPEAN UNION

## Balkan-Mediterranean S.W.A.N.

Thank you for your attention!  
Ευχαριστώ!



**Interreg**   
EUROPEAN UNION  
**Balkan-Mediterranean  
S.W.A.N.**

## S.W.A.N.

a digital Solid Waste reuse  
platform for Balkan  
<https://www.swan-interreg.com>



**RECYCLE  
REDUCE  
REUSE**

**PARTNERSHIP:**  
**Lead Partner-Greece:**  
LP1: Association of Municipalities in the Attica Region-Solid Waste Management (EDSNA)

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P2: Greek Ministry of Environment and Energy  
P3: University of the Aegean-  
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**Partner-Bulgaria**  
P6: Bulgarian Industrial Association-  
Union of the Bulgarian Business

**Partner-Cyprus**  
P7: Cyprus University of Technology-  
Department of Environmental Science and  
Technology

Total budget ERDF: 822.800 €  
Total project budget: 968.000 €

**Duration: September 2017-September 2019**

Project co-funded by the European Union and National Funds of the participating countries