



Towards a Circular Economy at the Region of Crete

Dr **ELENI HATZIYANNI**

Director of Environment and Spatial Planning
Region of Crete, Greece



Περιφέρεια Κρήτης
Region of Crete



*Towards a circular economy
and sustainable tourism on islands
European Parliament, SEARICA
Intergroup
Brussels, 11 April 2018*



Seas, Rivers, Islands
Coastal Areas



Waste Management Crete's Regional Planning

Regional Council's Decision n_o 89/2013:
*Update on Waste Management Planning at Crete
Island*

Regional Council's Decision n_o 62/2016:
*Waste Management Planning at Crete Island, including
Local Plans of Municipalities for Waste Management*



*European Legislation on Waste:
Framework, Management, Special
Categories of Waste, etc.*

Directive 2008/98/EK

Waste Management Crete's Regional Planning

Qualitative Goals

- **Sustainable Management at the whole Island**
- **Ranking:**
 - a) prevention, b) preparation for re-use, c) recovery, d) other types of recovery, e) disposal
- Reducing of Waste Content on Hazards (**Qualitative Improvement**).
- **Source Sorting/distinct processing** (recycling, composting, energy recovering)
- Focusing on «**Pay as You Throw**».
- Focusing on the “**Proximity Principle**”
- **Use the Best Available Techniques**
- **Organizing Systems of Special Waste Management**
- **Safe Waste Disposal at the final step**
- **Information Campaigns, Citizens Awareness Raising**
- Focusing on “**Green Supplies**” Policies

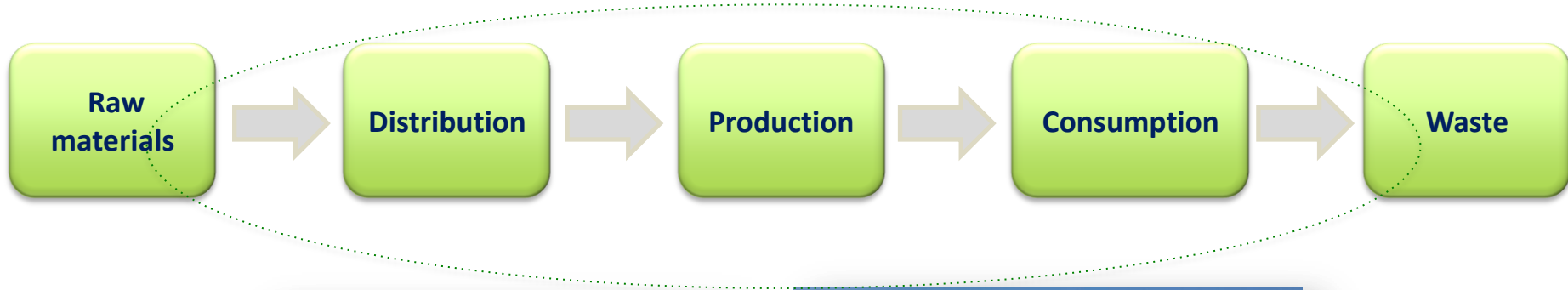
2 December 2015



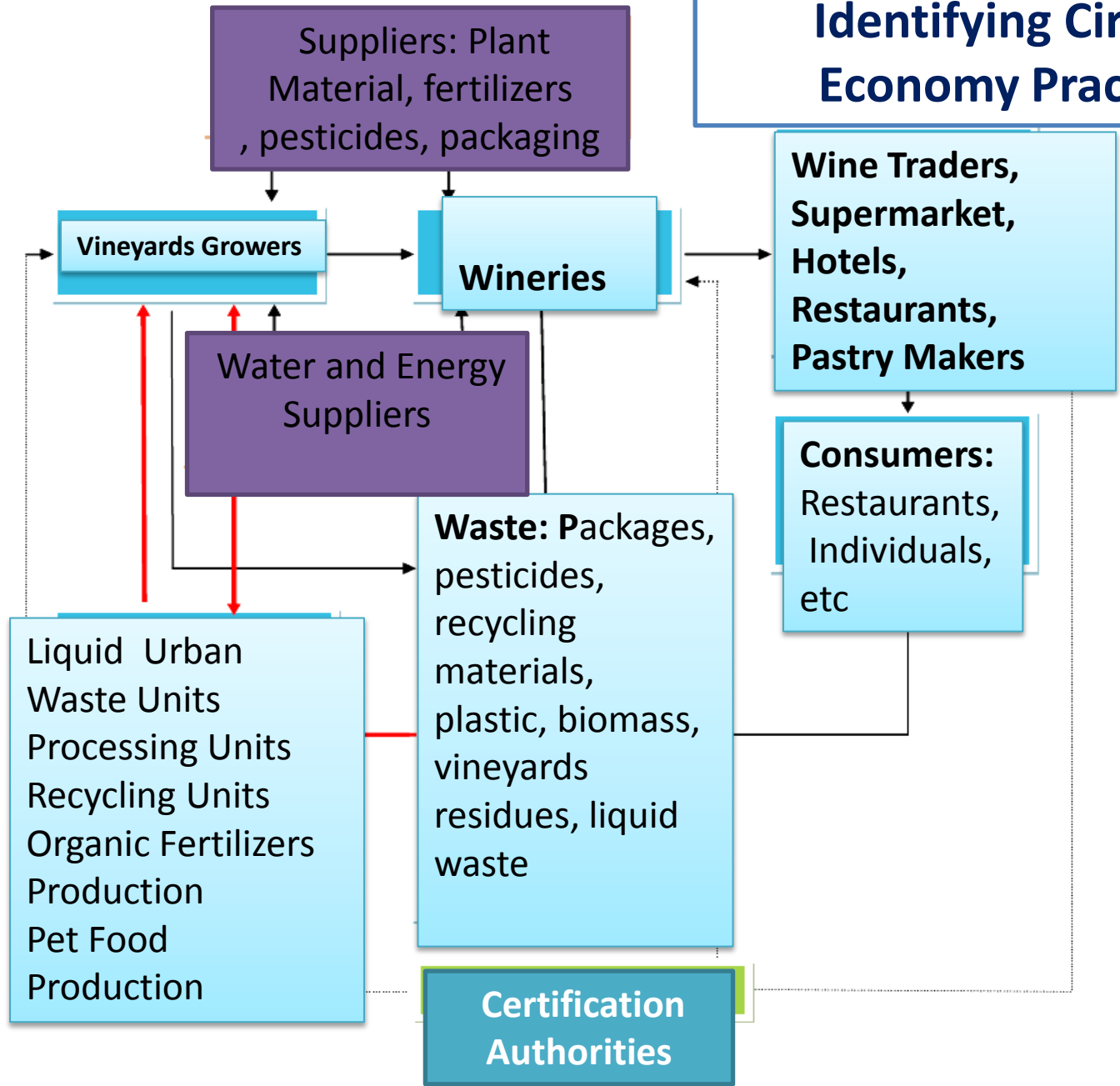
- **The Concept of “Value Chain” before Recycling for sustainable Development and less environmental footprint**
- **SME’s Social Responsibility**
- **Innovation and New Business Models**

Our Activities towards Circular Economy

I. Identifying Value Chains & Value Synergies (at the Regional Level)

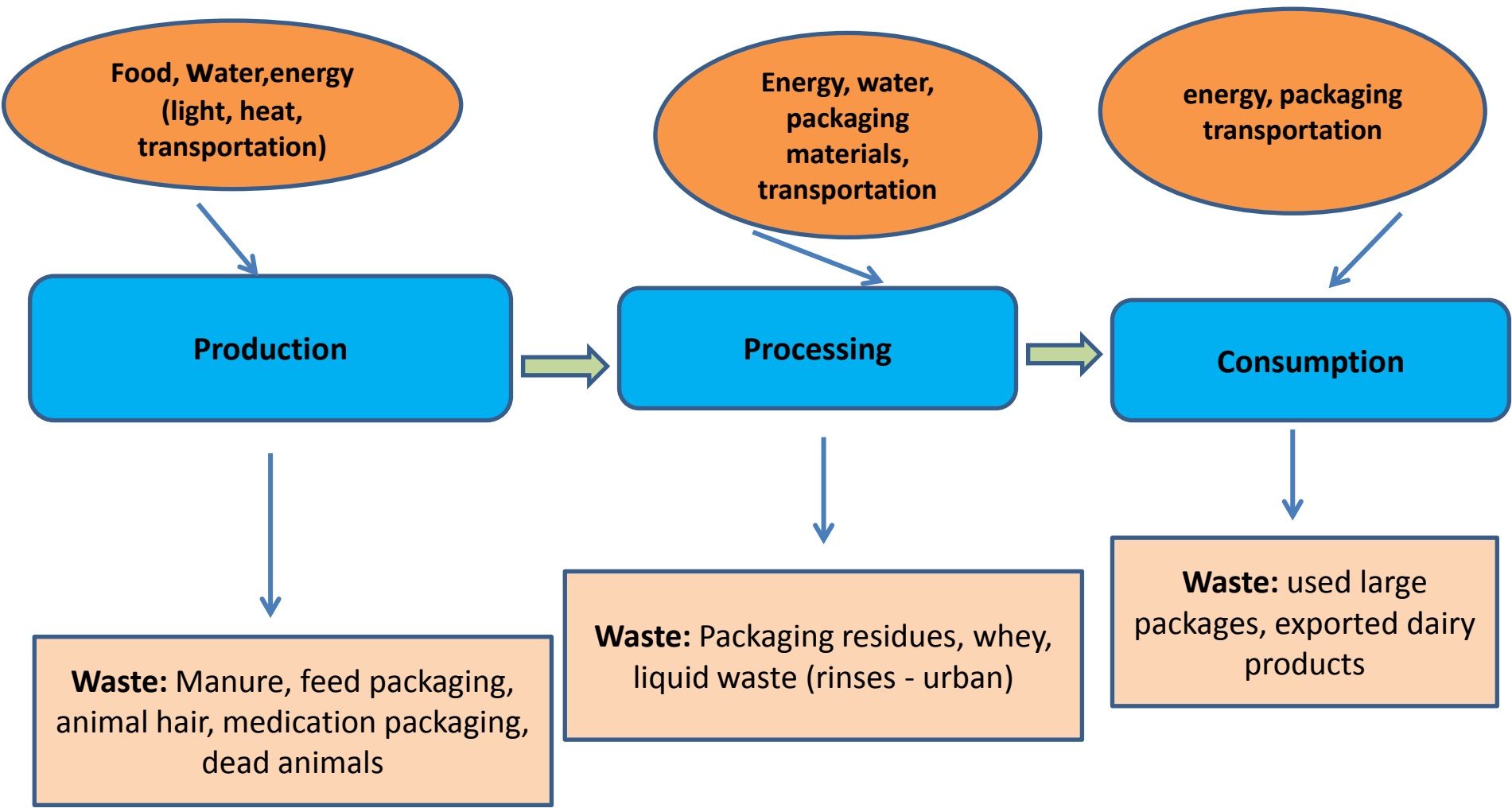


“Wine Value Chain” Identifying Circular Economy Practices



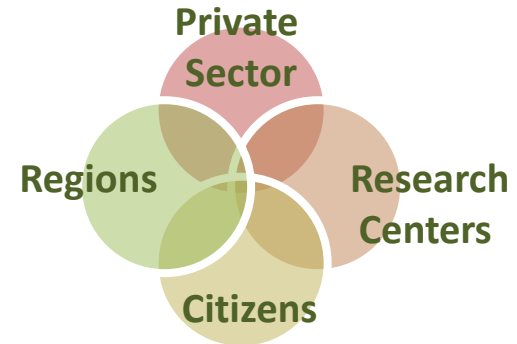
“Cheese Value Chain”

Identifying Circular Economy Practices



Our Activities towards Circular Economy

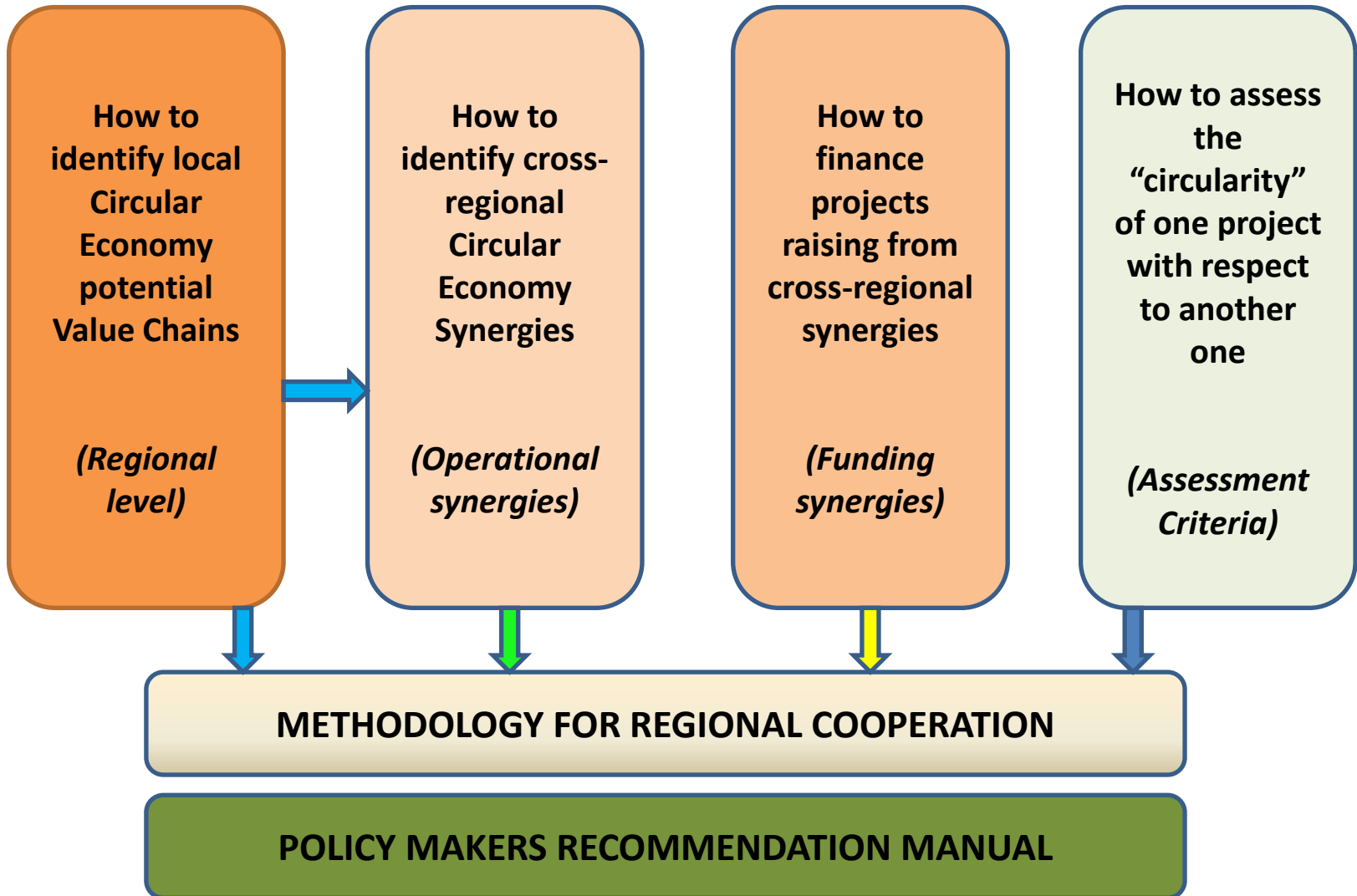
II. Interregional Cooperation





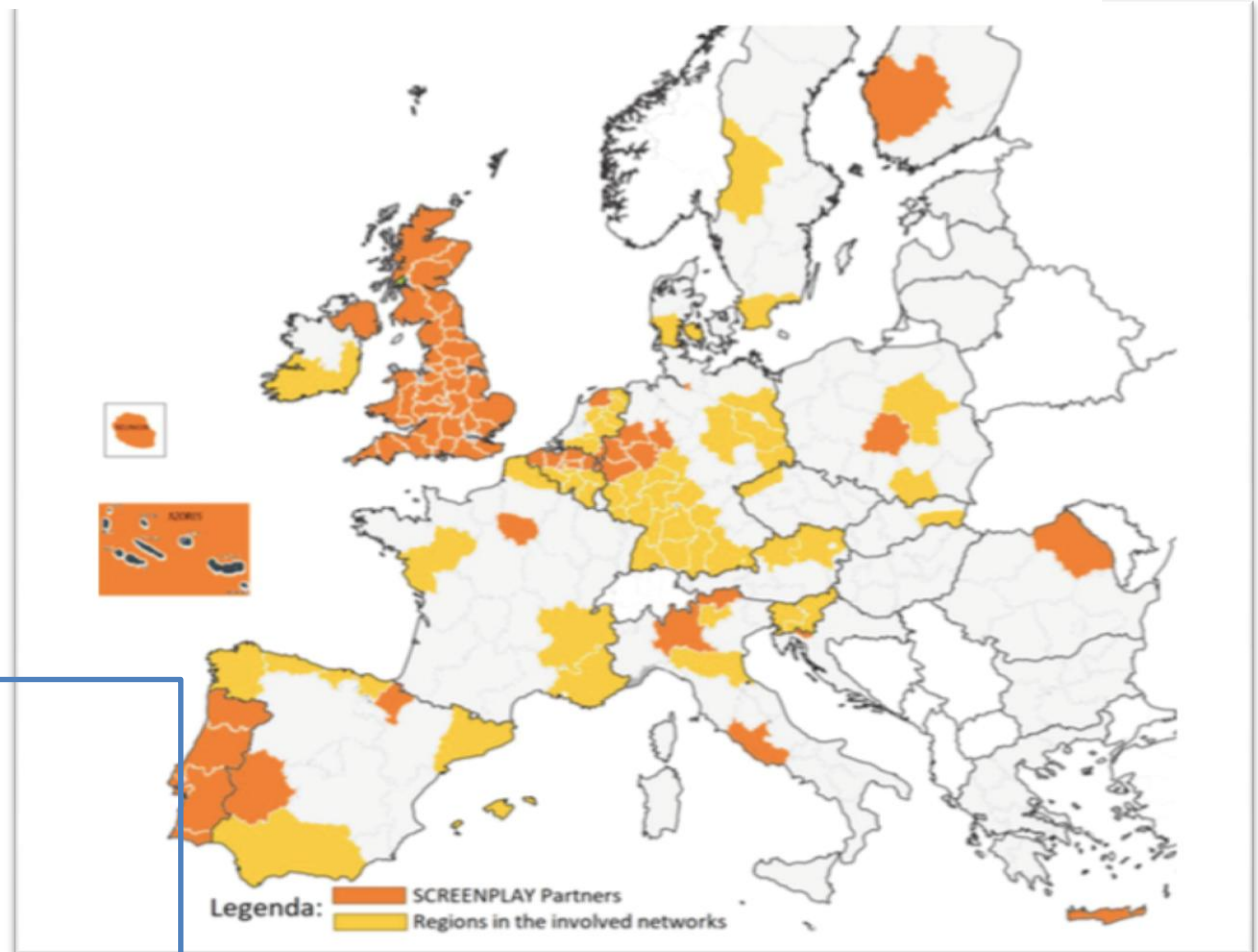
16 European regions from 12 different European countries, plus 1 UK national body aiming at the definition of a replicable systemic approach towards a transition to Circular Economy in EU regions

The four steps of the SCREEN project



MoU at European Level

For a synergic use of regional and European funds targeted to circular economy projects



Synergies/Links:

- EU DGs
- EU Investment Bank
- Regions
- Networks
- Clusters
- Ris3Platform

In terms of SCREEN project: 3 International Workshops for new Proposals



**Milano
February 2017**



**London,
November 2017**



**Brussels,
February 2018**



Our Activities towards Circular Economy

III. Future Actions and Funding Synergies



Consultation at the Region Agrofood Sector: Cheese Dairies and Wineries

- ✓ With Thematic Experts,
- ✓ «Round Tables» of Entrepreneurs and Researchers
- ✓ Exchange of expertise and best techniques
- ✓ Use of Common Strategies and Tools,
- ✓ Best implementation of Research Project Results,
- ✓ Identification of Pilot Actions/Projects
- ✓ Supporting, Consulting for funding and entrepreneurship

JUST Completed:

*Face to Face Interviews and Filled Questionnaires
in 34 SMEs (25 cheese dairies, 9 wineries)*

New, On Going Projects at Crete

The example of F4F



Food for Feed (F4F): An Innovative Process for the Conversion of Hotel Food Residues in Feeding

- Project partners:

Waste Management Association of Crete – (Lead Partner)

3 higher education institutions from Greece

Freie Universität Berlin

- Duration: 1/9/2016 to 28/2/2020
- Case Study/area: Heraklion, Crete



F4F OBJECTIVES:

- The development of an efficient collection and transportation network for hotel food waste
- Development, confirmation, evaluation and optimization of the proposed pasteurization process based on solar drying
- The assessment of the feed produced in productive animals (hens and pigs) and in companion animals (cats and dogs)
- The environmental and economic evaluation of the project
- Variety of publicity and dissemination actions

New, On Going Projects at Crete

The example of A2UFOOD



A2UFOOD

Development and implementation of innovative actions aimed at holistic approach to management food waste in the urban areas.

Duration Project: 1/3/2018 to 28/2/2021

Case Study/Area: Municipality of Heraklion

Financing: Urban Innovative Actions

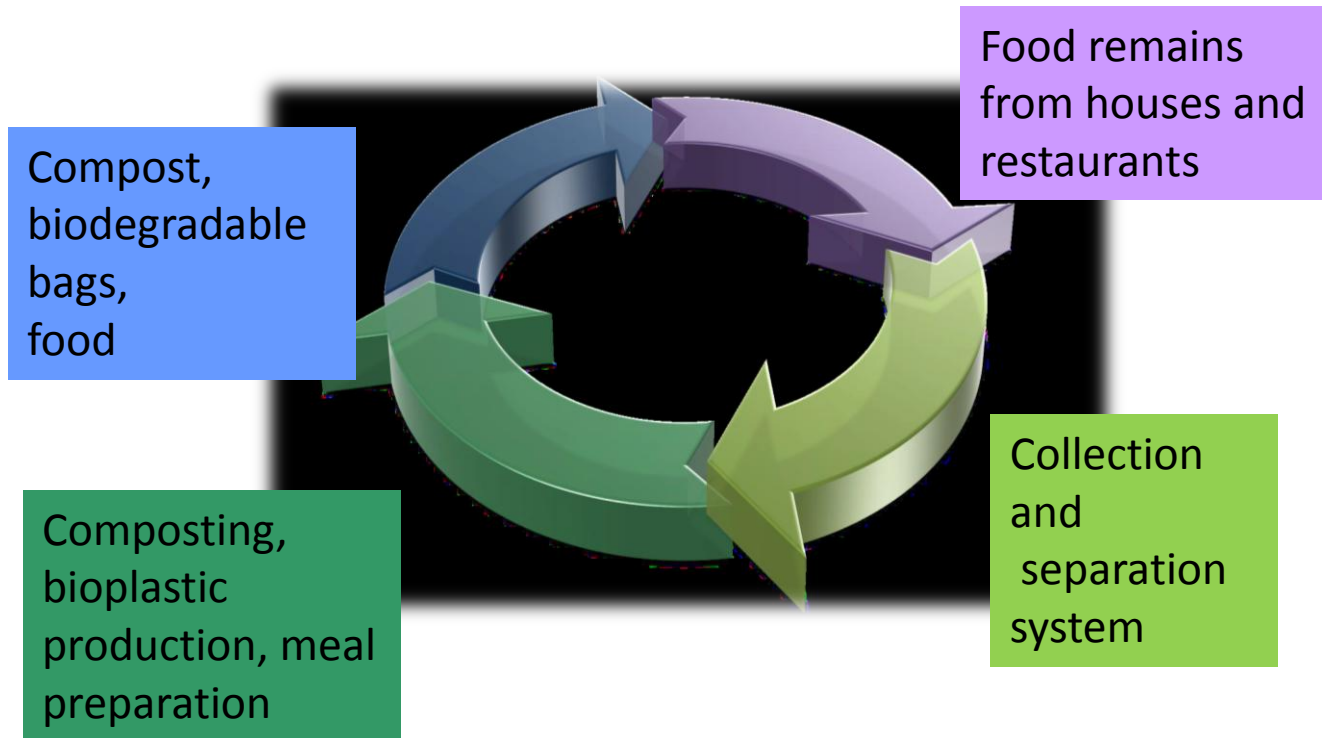
A2UFOOD Objectives:

- Prevention of organic waste production with various innovative methodologies
- Exploitation of inevitably generated organic waste:

Activities:

1. Sorting at the source of organic (kitchen) waste in dining areas.
2. Creating a restaurant for the needy.
3. Construction 1 pilot unit production bioplastic and production 25,000 biodegradable bags.
4. Composting . Production and use at least 250 tn / yr compost in gardens and parks.

A2UFOOD Contribution to Circular Economy:



Our Activities towards Circular Economy IV: Funding at Regional Level



Focusing on Public/Private/Partnerships (PPP):

Ris3Crete: Smart Specialization Strategy of Crete



The **Region of Crete** started to apply the **Smart Specialization Strategy (RIS3 Crete)** as a **new approach to promote the reform of the local economy by revitalizing traditional and emerging specific activities**, and by updating its production potential. RIS3Crete is coordinated at headquarter level by the Regional Governor and by the Regional Council of Research and Innovation, and at an executional level by the Department of Development Planning of the Region of Crete.



The Agro-Food EDP established the Agro-Food Innovation Platform and relevant working group.

The first consultation focused on specific products (olive oil, milk products, horticulture, vine/ wine products) in the 4 areas of specialisation:

- 1) Smart agriculture and livestock farming,
- 2) Environmentally-friendly agriculture - livestock farming and adaptation to Climate Change,
- 3) Traceability and food safety in the agro-food sector,
- 4) Circular economy.

RIS3 consultation and discussions took place with entrepreneurs, academic and research bodies all over Crete (Heraklio, Ierapetra, Chania, Rethymno and in regional offices). There was a high level of participation with a total of 81 ideas/proposals submitted electronically on the RIS3 Crete website. The results were approved by the Regional Council of Research and Innovation.

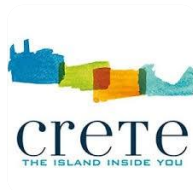
Further Steps: At Regional, Transregional, European Level

- ✓ Building consensus on a shared path towards material resource resiliency, circular economy and sustainable tourism on islands,
- ✓ Building capacity in Regions dealing with seasonal variation of waste and marine litter,
- ✓ Focusing on coordination between policies to achieve sustainable development results for islands and coastal areas, interregional cooperation and cross-sectoral collaboration.

Thank you!



Περιφέρεια Κρήτης
Region of Crete



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΠΕΡΙΦΕΡΕΙΑ ΚΡΗΤΗΣ

Dr Eleni Hatziyanni
**Director of Environment & Spatial
Planning**

elhatziyanni@crete.gov.gr

Skype Eleni Hatziyanni

Eleni Kargaki
Local Coordinator of BLUEISLANDS
lena.kargakis@gmail.com
Region of Crete, Greece

