

Nilufer Food Lab (Turchia)



DemirEnerji

Beril Alpagut, Demir Enerji

Fostering the **U**rban food **S**ystem
transformation through **I**nnovative
Living **L**abs **I**mplementation



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101000717.



DEMIR ENERJI EU NETWORK



9 projects



5 projects



1 project



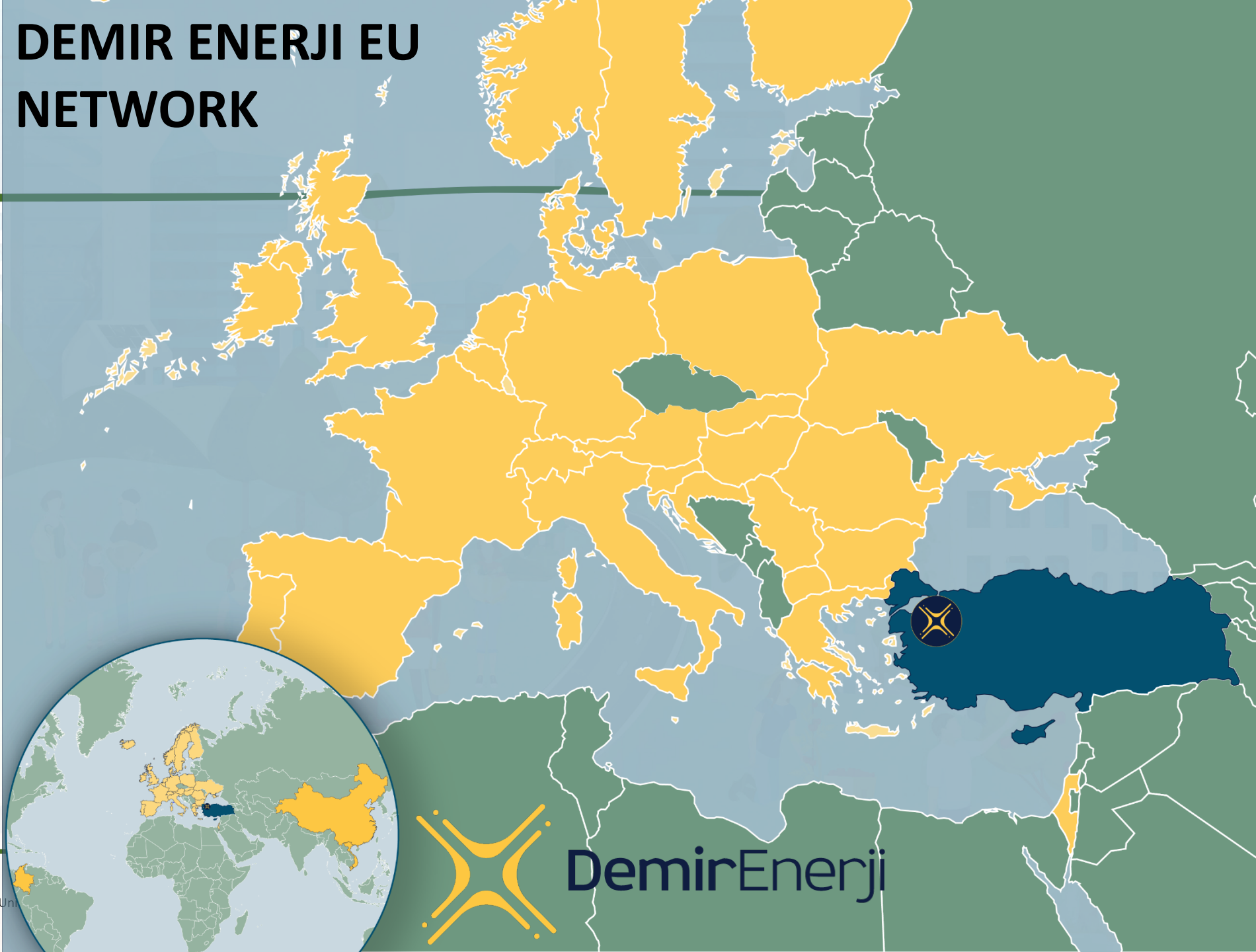
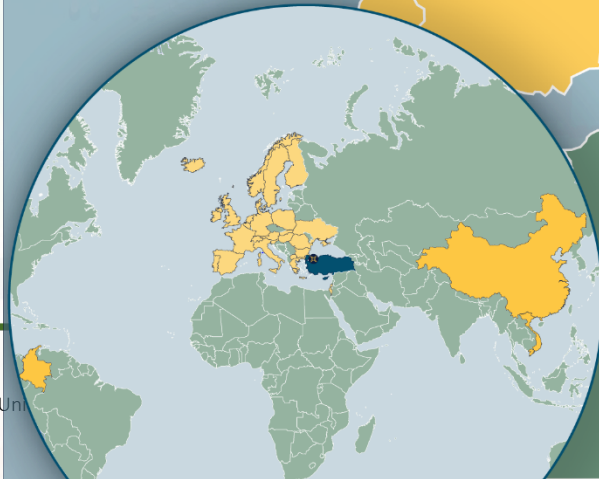
2 projects



1 project



1 project



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from the European Union

About FUSILLI

- * Food and Natural Resources project funded by Horizon 2020
- * 4 years: January 2021-December 2024
- * 34 partners
- * 13 countries
- * Focus on supporting cities to facilitate their transition towards more sustainable food systems, in line with the FOOD2030 priorities, in 12 Food 2030 Living Labs.
- * Creation of a FUSILLI Knowledge Community

FUSILLI Living Labs



- * Athens (Greece)
- * Castelo Branco (Portugal)
- * Differdange (Luxembourg)
- * Kharkiv (Ukraine)
- * Kolding (Denmark)
- * Nilufer (Turkey)
- * Oslo (Norway)
- * Rijeka (Croatia)
- * Rome (Italy)
- * San Sebastián (Spain)
- * Tampere (Finland)
- * Turin (Italy)

FUSILLI Partners



Coordinator Fundación CARTIF with 34 partners from 13 countries

AHLMAN

CiviESCO

EROSKI



V. N. KARAZIN KHARKIV NATIONAL UNIVERSITY



Oslo

ROMA



TNT
TERRITOIRE NATUREL
TRANSFRONTALIER



CITY OF
ATHENS



CITY OF
ATHENS



DONOSTIA
SAN SEBASTIÁN
Ekonomia Bultzatzeko Zinegotzigoa
Concejalía de Impulso Económico



Kolding
Kommune
en del af trekantområdet

OSLOMET

SDU



uni.lu

UNIVERSITÉ DU
LUXEMBOURG

CARTIF

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LEITAT
managing technologies



RISORSE
PER ROMA *spa*

Steinbeis
Europa Zentrum

VU
VRIJE
UNIVERSITEIT
AMSTERDAM

Ville de
Differdange

Tampere University
of Applied Sciences

VWINGS
ICT SOLUTIONS

Câmara Municipal
CASTELO
BRANCO

eco
FELLOWS



NİLÜFER
BELEDİYESİ
BURSA

TAMPERE.
FINLAND

TECNOALIMENTI

FONDAZIONE
DELLA COMUNITÀ
DI MIRAFIORI ONLUS



CITTA' DI TORINO



FUSILLI Objectives

At the core of FUSILLI are 12 Living Labs in 12 different cities.

- * Main objective: to **develop urban food plans** within their **local contexts** to achieve an integrated and safe holistic transition towards healthy, sustainable, secure, inclusive and cost-efficient food systems.
- * FUSILLI follows a multi-objective approach of implementing **feasible and replicable innovative urban policies**, in line with the four priorities of the EU's **FOOD2030 policy**:
 - nutrition for sustainable and healthy diets,
 - climate-smart and environmentally sustainable food systems,
 - circularity and resource efficient food systems and
 - innovation and empowerment of communities.

FUSILLI Living Labs

- * These cities will overcome barriers regarding the development and the implementation of **integrated, systemic food policies** that support the transition towards sustainable food systems in **urban, peri-urban and nearby rural areas**.
- * Via an **open knowledge community**, cities will be empowered to implement **innovative and personalized policies and actions**, placing **citizens** in the heart of the process.
- * Each city will thus develop a **Living Lab** as an **open innovation ecosystem** with the objective to implement different innovative actions through **all stages of the food chain**, including production and processing, distribution and logistics, consumption, food loss and waste, as well as governance.

FUSILLI Actions



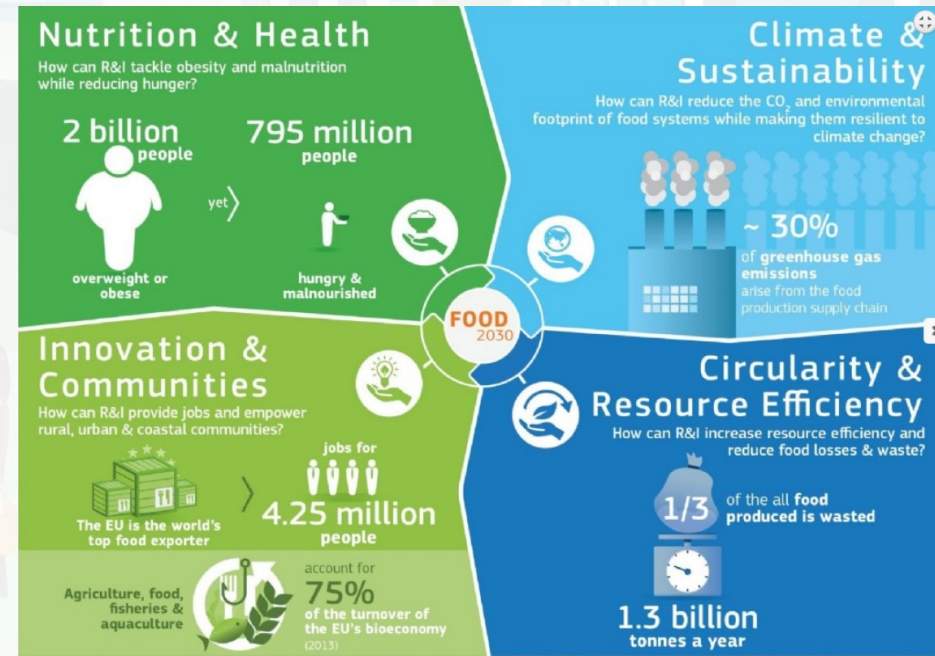
FUSILLI Network: Urban Food System Transformation

* The Farm to Fork Strategy



FUSILLI Network: Urban Food System Transformation

* Food 2030



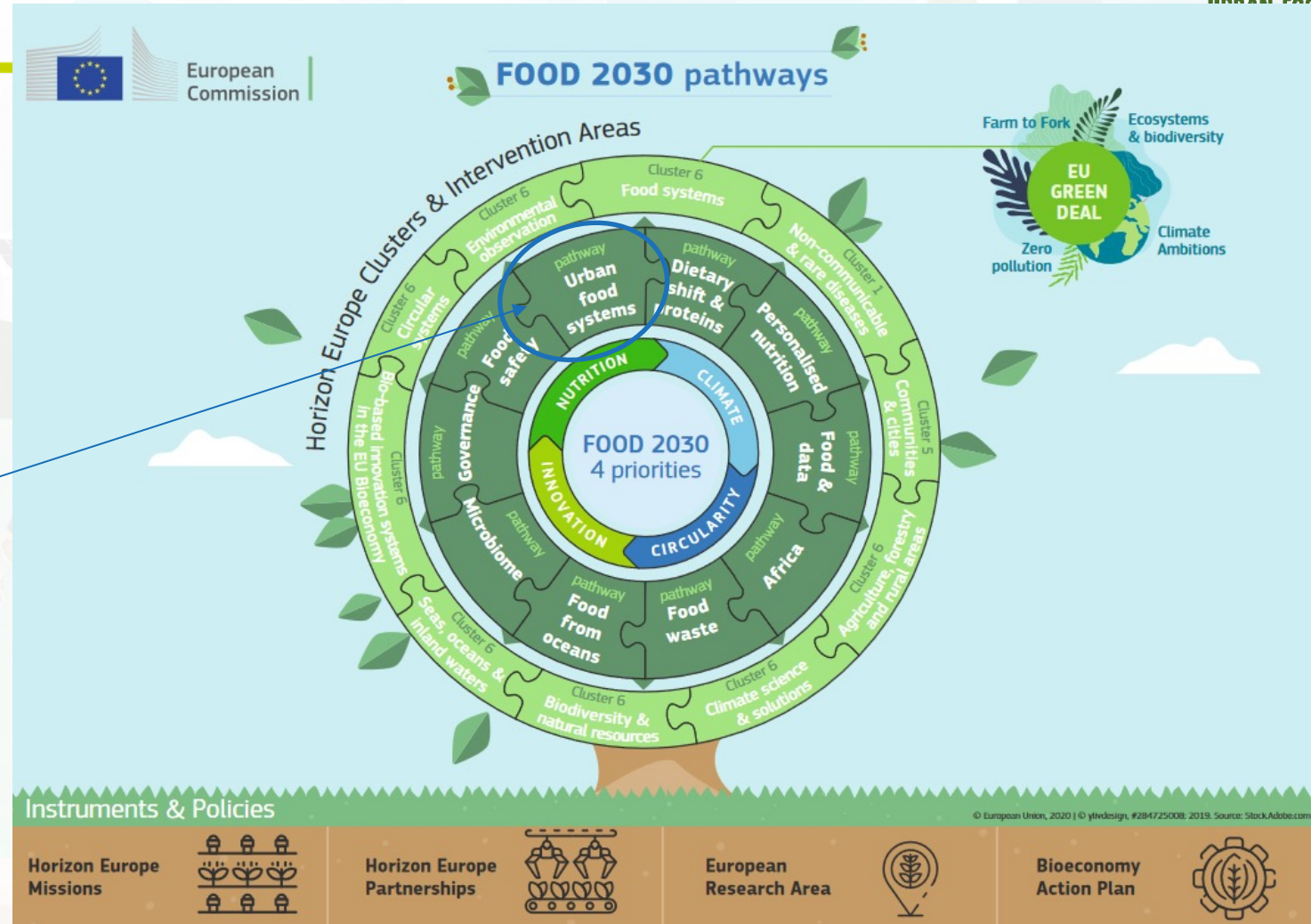
FUSILLI Network: Urban Food System Transformation



FUSILLI Network: Urban Food System Transformation

* FOOD 2030 pathways

We all are here



FUSILLI Implementation Structure

- * WP1: Network of Food2030 Living Labs
- * WP2: Food Policies and Practices Identification – Knowledge Community
- * WP3: Urban Food Participatory Long-Term Planning
- * WP4: Investment Infrastructure Package
- * WP5: Cooperation with other Projects & Networks (**DEMIR**)
- * WP6: Dissemination, Communication & Exploitation
- * WP7: Coordination
- * WP8: Ethics



Nilufer Living LAB

Fostering the **U**rban food **S**ystem
transformation through **I**nnovative
Living **L**abs **I**mplementation



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Why Should Food Systems Transform?

- Today's food systems need to be improved and transformed because they are not sustainable (circular) and can be affected by these following factors;

INCREASE IN POPULATION

BIODIVERSITY LOSS

ENVIRONMENTAL

LACK OF RESOURCES

CLIMATE CHANGE

DEGRADATION

POLLUTION AND WASTE

DISEASES CAUSED BY MALNUTRITION

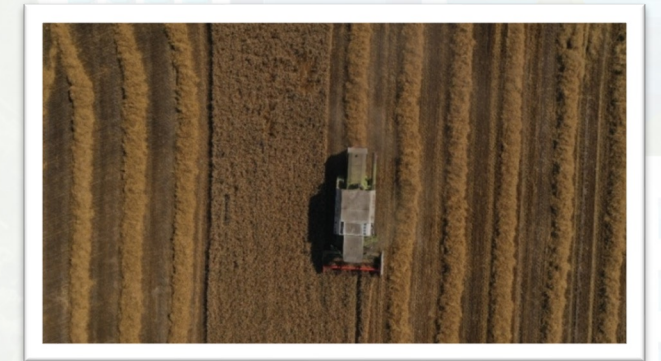
Thematic Years & FUSILLI Context

A long period of time is needed to make a food system more **sustainable**, **healthy** and **inclusive**. Nilufer's intention to transform the food system starts before FUSILLI.

Local farmers have been supported for a long time and all decision-making mechanisms are brought together, starting from the neighborhood level.

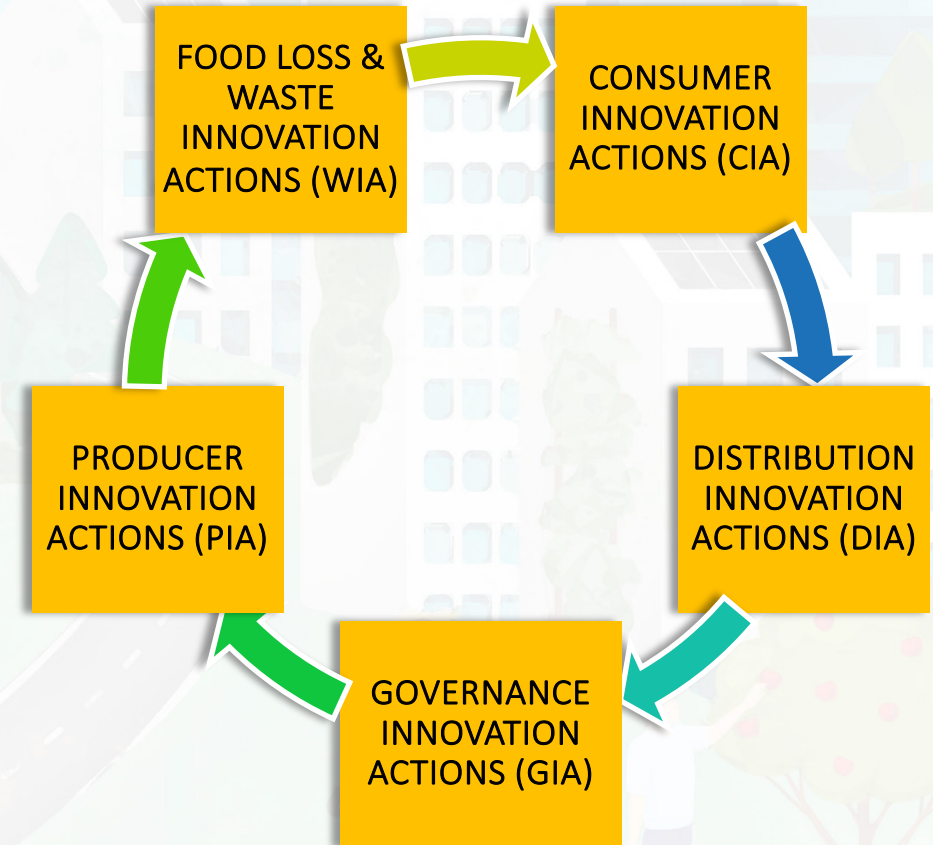
The FUSILLI Project brings together the achievements of the **2020 Year of Agriculture**, **2021 Year of Food** and the **2022 Year of Climate**. Due to its integrated approach, it is a project that lays the foundations of the food system transformation in Nilüfer and facilitates the transition to a more sustainable food system.

All these efforts are directed and prioritized in line with different needs and objectives of every thematic year.



Thematic Years & FUSILLI Context

- Nilufer has a population of 536.356 people and have 42 urban and 22 rural neighborhoods in its borders
- LL activities were designed with an approach that includes consumers, producers and everyone else in the system.
- We strive to include our citizens in the food system transformation processes in our 64 neighborhoods with the "City Council participation model".
- Actions were divided into 5 categories
- 48 main actions (192 sub-actions)
- 120 of 192 actions completed in M33/48
- Total Progress: %62,50



Thematic Years & FUSILLI Context



- As Nilufer is willing to transform the food system, it already has;
 - ✓ City council participation model, (Where everyone is included in the processes)
 - ✓ living lab practices,
 - ✓ The experiences of other cities within FOOD2030 family,
 - ✓ Achievements of Agriculture-Food-Climate years,
 - ✓ Educations for different ages,
 - ✓ Stakeholders and their involvement,
 - ✓ Political commitments (MUFPP, SECAP, Strategic Plan etc.)
- FUSILLI helps Nilufer to combine all of these.



Actions done on behalf of Consumer Innovation Actions

CIA1 - Education of children for production and consumption of healthy food CIA11- Educational App

- 2.179 students planted seasonal vegetables, collected and harvested their seeds, both in neighborhood gardens and in raised beds at their schools.

CIA2 - Establishment of Producer/ Consumer/ Prosumer Coops (part of Alternative food networks)

- Number of Nilüfer Bostan **Salepoints** have been increased. (6 Branches)
- Konaklı EcoFarm **irrigation** project has been applied.
- Konaklı EcoFarm's production **parcels defined** and more than **2.000 fruit saplings** planted.



Actions done on behalf of Consumer Innovation Actions

CIA3 - Neighbourhoods / Virtual Food Community.

- An **inventory** of «which product was released in which neighborhood, at what time» was taken.
- The Food Community has made **14 bulk purchases** to date.



CIA5 – Food Labs

- The fertility of soil and seeds was discussed on **Terra Madre Day** celebrated in different neighborhoods, where local flavors and locally produced products are honored, food producers meet with consumers. (Information on plant production, animal husbandry, culinary culture and traditional recipes were shared with workshops.)
- **Seed Exchange Festival** where seed exchange, sowing, planting information and local recipes are shared



Actions done on behalf of Consumer Innovation Actions

CIA6 – Food Hub

- Hasanağa Food Hub has been established and started producing.



Actions done on behalf of Consumer Innovation Actions



CIA7 – Food Card
• People-in-need were identified and **974 families** benefited from «Halk Kart» .

CIA10 - Educational workshops with local chefs to develop recipes with local food



Actions will be done on behalf of Consumer Innovation Actions

UPCOMING ACTION



CIA8 - Promote sustainable consumption

- Including workshops and meetings with consumers via neighborhood committees



Actions done on behalf of Distribution Innovation Actions

DIA1 – Farmers’ markets

- Preparation of **directives** regarding the establishment and operation of markets
- Collection of necessary **documents** (Farmer Registry Sys. etc.) after the notification of the directive
- Determination of **divided sale parcels** by meeting with manufacturers
- Designing and printing **product labels** and **ID cards**
- **Periodic control** of markets
- Removal of **non-producer** sellers



DIA2 - Short supply chain (Local Stores)

- Determination of places to sell, infrastructure and zoning works
 - Supply, sale, storage and logistics of products
 - Opening of new sales points



Actions done on behalf of Distribution Innovation Actions

DIA3 - Food Packaging

- Packaging design and production

DIA6 - Food Festivals

- Determination of festival themes (depending on products)
- Terra Madre Day (on CIA5)
- Local Product Festivals; Peach, Fig, Pepper, Artichoke, Olive
- Misi Local Flavors Festival
- Seed Exchange Festival

DIA8 - Gastronomy Chain And Fair-trade Events

DIA11 - Fairtrade Municipal Procurement

- Nilkoop includes women's solidarity associations in production and pays their shares. (The cooperative also provides many supports for the producers on different stages.)



Actions done on behalf of Distribution Innovation Actions

DIA9 - Municipal Procurement from Local Farms

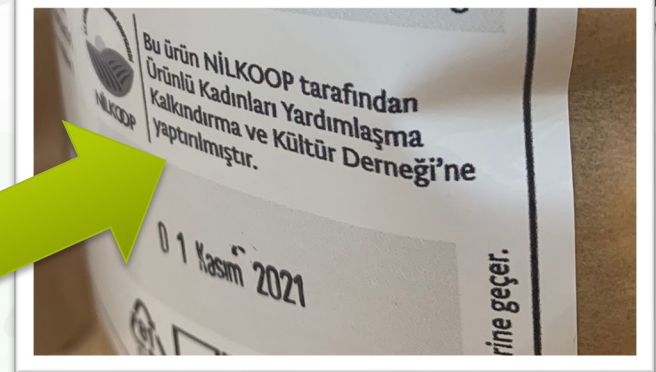
- Food supply to municipal facilities (nursing homes, etc.) from local producers and cooperatives supported by the municipality (6-month contracts)

DIA10 - Producer and Consumer Coops Business Models

- Determination of products to be sold, preparation of specifications and contracts
- Determination of Women's Associations (according to criteria such as experience, quality, hygiene, etc.)
- Training, production and control of women's associations
- Supervision of productions by food engineer
- Purchasing products from Women's Solidarity Associations and selling them at Bostan sales points

“This product was produced by Ürünlü Women's Aid, Development and Culture Association for NILKOOP”

Label:



Actions done on behalf of Distribution Innovation Actions

DIA12- Promotion of Local Foods and New Buying Options

- Promotional activities to be carried out to promote geographically indicated products and region-specific products (Ex: Hasanağa Artichoke, Bursa Black, etc.)

DIA13- Zero KM Agriculture

- Sales from the field, in producer markets and orchards
(There will be a mini salepoint for Zero-KM sales at Konaklı EcoFarm.)
- People also redirected to producers directly (via the producer list on the website)



UPCOMING ACTION



DIA14- Catalogue of Local Producers

- Determining the production criteria of local producers (those who do not use pesticides, those who save water, those who produce local products, those who have soil analysis done, those who use local seeds, etc.)
- Listing and classification of manufacturers
- Inspection of manufacturers
- Publishing the manufacturer's catalog



Actions done on behalf of Governance Innovation Actions

GIA1 – Food Policy Council

- The Food Council was established within the City Council and held its first Establishment Meeting with stakeholders, academic chambers and professional chambers.

GIA3 – Municipal Food Commission

- Food Commission has been established (but pending instructions for charter).

GIA6 – Environment (+Energy)

- Approval was received for the installation of 1MW Capacity Solar Power Plant in Güngören Neighborhood.
- Sustainable Energy and Climate Action Plan (SECAP) prepared.

GIA10 – Sign MUFPP

- MUFPP signed in August 2022.



Actions will be done on behalf of Governance Innovation Actions

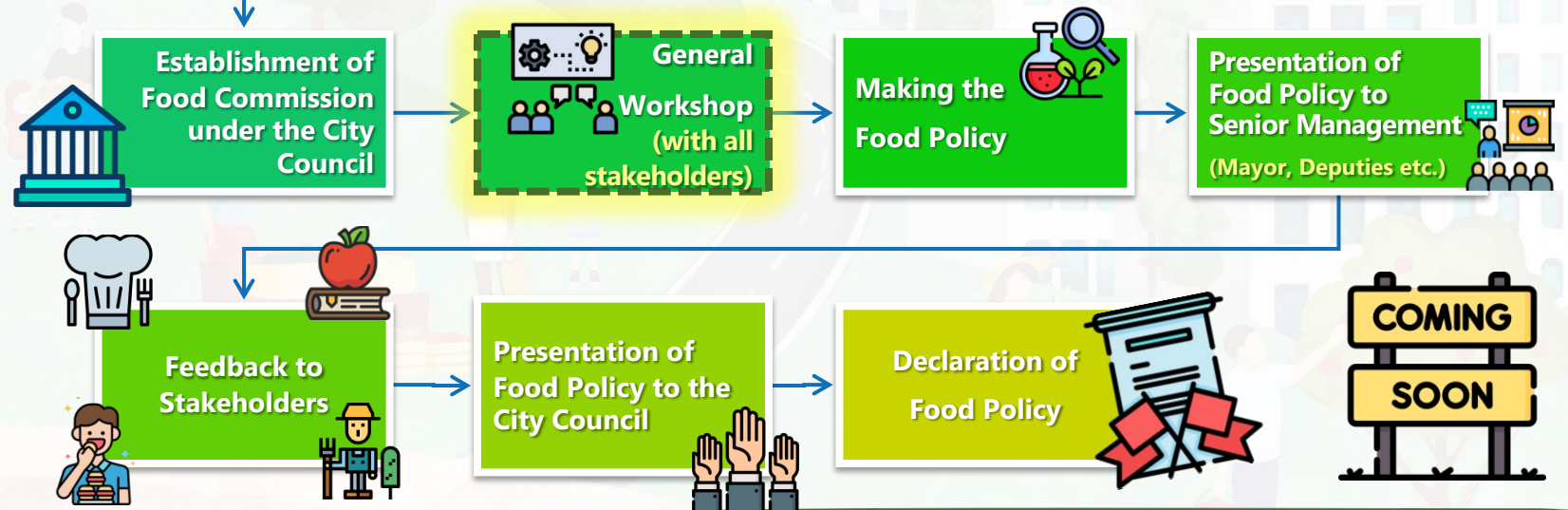
UPCOMING ACTIONS

GIA2 - Food Charter



GIA4 - Urban Planning & Zoning

- It will be carried out as a continuation of the ongoing land mapping.
- It is aimed to use land maps as a basis in zoning works.



Actions done on behalf of **Producer Innovation Actions**

PIA1– School Food Gardens

- Determination of pilot schools
- Negotiations were held with the Ministry of National Education for approvals. The new gardens were planned to be implemented after the semester.

PIA4 – Seed Library

- Library inventory has been updated



Actions done on behalf of **Producer Innovation Actions**

PIA5 – Roof-top Gardening

- Detection of available places
- Project planning and measurements
- More than 400K seedlings were distributed every year to indirectly support rooftop gardening.



PIA7 - Smart Precision Farming To Reduce Agricultural Inputs

- Making product recommendations based on soil analysis results
- Training and awareness raising activities on irrigation, fertilization and pesticide application
- Trainings and awareness-raising activities on ecological agriculture



Actions done on behalf of **Producer Innovation Actions**

PIA8 – Community Kitchens

- Strawberry jam production in the community kitchen with Atlas Women's Solidarity Association.



Strawberry jam was produced under the supervision of our food engineer.

Actions done on behalf of **Producer Innovation Actions**

PIA9- Urban Garden Allotments / Community Gardens

- Determining the locations of the urban vegetable gardens to be established in urban neighborhoods,
- Preparation and assembly of raised beds in designated places and installation of drip irrigation system, filling the beds with soil,
- Transferring it to the headman and neighborhood committees,
- Sowing-Planting-Harvest activities

PIA10 - Community Supported Agriculture (CSA)

- Mapping through Community Supported Agriculture and determining the locations of urban gardens where new business models will be tested

PIA12 - Multi-functional Farming

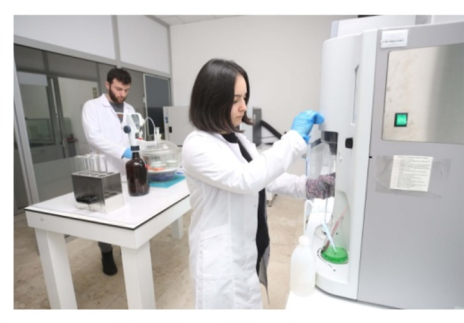
- Field preparations, seed sowing and seedling planting
- Sales from the field, in producer markets and Bostan Salepoints
- Converting fresh sales surplus into processed products (sauce, tomato paste, jam, canned food, pickles, etc.)



Actions done on behalf of Producer Innovation Actions

PIA13 - Soil analysis & Restoration of Degraded Soil & Development of Smart Soils

- Determination of the lands where profile excavation will be carried out according to the soil structures on the map
- Taking samples with municipal resources
- Analysis of soil samples (400+ samples analyzed)
- Processing the land profile structure on maps with satellite images



After acquiring the only laboratory in our region which was about to close, the Municipality transferred the operation of the lab to Nilkoop.

PIA 14 - Food Quality Training Activities for Producers / Distributors / Consumers

- Identification of stakeholders
- Carrying out workshops and trainings



Actions done on behalf of Producer Innovation Actions

PIA16 - Water Analysis & Water Treatment

- Conducting water analyzes by taking samples from water resources
- Evaluation of the results of water analysis
- Sharing the analysis results with authorized institutions and the public
- Requesting improvement from relevant institutions according to the analysis results



PIA17 - Biodiversity Conservation (advocacy actions mostly)

- Identifying elements that threaten biological diversity and organizing a workshop on conservation methods
- Inclusion of seeds obtained from various parts of Turkey in the seed inventory
- Publication of public informative content within the scope of World Wetlands Day (22 March), Biological Diversity Day (22 May), World Environment Day (5 June) events

PIA21 – GHG mitigation (Compost house, usage of gray water and rain harvesting)

- Compost production in Compost House, Cold compost production
- SECAP preparation



Actions done on behalf of **Producer Innovation Actions**

PIA22 - Reuse of Fodder

- Planting and cropping triticale in the ground

PIA 23 - Health Training Activities for Food Producers

- Hygiene and sanitation trainings were given to Producer Women's Solidarity Associations at the Farmers' House in Akçalar.



Actions **will be done** on behalf of **Producer Innovation Actions**

UPCOMING ACTIONS



PIA11 - Integrate refugees in agro-food production in cities

- This action has been updated as a workshop with earthquake victims and will be helpful for sustaining their traditional recipes.



PIA15 - Traceability QR-based App

- Determining the stages for consumers to access the stories (processes) of the products via the QR code at the point of sale (or label) etc.



Actions done on behalf of Food Loss and Waste

WIA4 - Organic Waste Collection and De-centralized Green Bin Composting

- Determination of pilot application areas (19 Mayıs Neighborhood)
- Providing meetings and materials where applicable



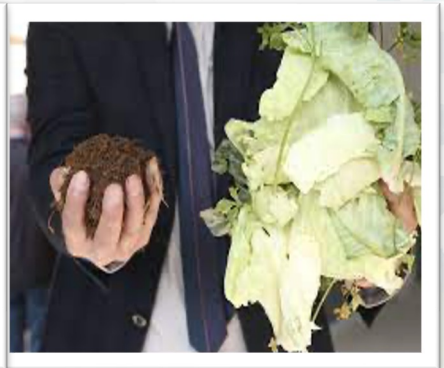
Applied Compost Production Study:

Organic wastes collected from the street market by volunteers and turned into compost.

Actions done on behalf of Food Loss and Waste

WIA7- Biofertilizers

- Utilization of compost from compost house and cold compost area
- Planting legumes in production areas before production and mixing them back into the soil



Actions will be done on behalf of Food Loss and Waste

UPCOMING ACTIONS



WIA1 - Reduce Food Waste / Food Rescue



WIA2 - Waste Management in University Canteens



WIA8 - Guide for Restaurants to Reduce Food Waste



ILAB ORISTANO → NILUFER VISIT



ILAB ORISTANO → NILUFER VISIT



ILAB ORISTANO → NILUFER VISIT



ILAB ORISTANO → NILUFER VISIT



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ILAB ORISTANO → NILUFER VISIT



NİLÜFER'İN ÜNÜ ALYA'YA VARDI

İtalya'nın Sardinya Adası'nda faaliyetlerini sürdüren ILABFOOD Oristano Proje Ekibi, Nilüfer'deki gıda sistemini görmek ve iyi uygulama örneklerini yerinde incelemek için Nilüfer Belediyesi'ne iki günlük gezi programı gerçekleştirdi. Nilüfer Belediyesi'nin ortağı olduğu FUSILLI Projesi'nin faaliyetlerini de yerinde inceleyen ekip, sosyal sorumluluk çalışmaları, inovasyon ve sosyal girişimcilik alanından da yapılabilecek projeler hakkında Nilüfer Belediyesi'nin ilgili birimleriyle görüş alışverişinde bulundu.

KIRSAL ALANLAR ÖNCELİKLI

Ziyaretin ilk günü Nilüfer İnovasyon Merkezi'nde yapılan toplantılara katılan katılımcılar, su-



numların ardından Nilüfer Belediyesi Gıda Merkezi'ni gezdiler. İkinci gün ise saha ziyaretleri yapıldı. Topluluk mutfağı, üretici pazarı, Nilüfer Tarımsal Analiz Laboratuvarı, Ürünli Kent Bostanları ve İhsaniye Mini Bostanı ziyaret eden ekip, Nilüfer'deki gıda sistemini

yakından inceledi. Katılımcılar ayrıca FUSILLI Projesi hakkında da bilgi aldı. ILABFOOD Oristano Proje Ekibi daha sonra Nilüfer Belediyesi Halk Ev'i'nde Başkan Turgay Erdem'i de ziyaret ettiler. Her yıl farklı bir tema ile çalışma gerçekleştirdiklerini anlatan Erdem, görev geldikten sonra Tarım Yılı, Gıda Yılı ve İklim Yılı temalarını belirlediklerini ve bu temalarla ilgili çalışmalar yaptıklarını söyledi. Bu çalışmaların kırsal alanlarda da değerlendirildiğini aktaran Erdem, kooperatif ile bu çalışmalar geliştirip, yürüttüklerini vurguladı. **(Aydın Samet Öztürk)**

İtalyan proje ekibi Nilüfer'in gıda sistemini inceledi

İtalya'dan gelecek Nilüfer Belediyesi'ni ziyaret eden ILABFOOD Oristano Proje Ekibi, belediyenin oluşturduğu gıda sistemini inceledi. İtalyan ekip, iki günlük ziyarette, Nilüfer Belediyesi'nin kırsal kalkınma ile ilişkilendirilen çalışmalar hakkında bilgi aldı.



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Bunu öğaharak, dünyanın birçok alanını kurtarıyor diye dışarıyorum" dedi. Ziyarete katılan konuklar da çok verimli zaman geçtiklerini belirttik, gösterilen misafirperverlikten dolayı teşekkür ettiler. Projele inceleme ve deneyimlerini kendileri için önemli olduğunu söyleyen katılımcılar, kırsal kalkınma ile ilişkilendirilen çalışmaların dikine değer olduğu yorumlarına İtalyan konuklar da katıldı.

İtalyan ekip gıda sistemini inceledi



İtalya'dan gelecek Nilüfer Belediyesi'ni ziyaret eden ILABFOOD Oristano

Proje Ekibi, belediyenin oluşturduğu gıda sistemini inceledi. **12'DE**

European Union's Horizon 2020 research and innovation program

İtalyan proje ekibi Nilüfer'in gıda sistemini inceledi ...

■ İtalya'dan gelecek Nilüfer Belediyesi'ni ziyaret eden ILABFOOD Oristano Proje Ekibi, belediyenin oluşturduğu gıda sistemini inceledi. İtalyan ekip, Nilüfer Belediyesi'nin kırsal kalkınma ile çalışmalar hakkında bilgi aldı. **4'DE**



İtalyan proje ekibi Nilüfer'in gıda sistemini inceledi

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İTALYANLAR NİLÜFER'İ İNCELEDİ



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İtalya'nın Sardinya Adası'nda faaliyetlerini sürdüren ILABFOOD Oristano Proje Ekibi, Nilüfer'deki gıda sistemini görmek ve iyi uygulama örneklerini yerinde incelemek için Nilüfer Belediyesi'ne iki günlük gezi programı gerçekleştirdi. Nilüfer Belediyesi'nin ortağı olduğu FUSILLI Projesi'nin faaliyetlerini de yerinde inceleyen ekip, sosyal sorumluluk çalışmaları, inovasyon ve sosyal girişimcilik alanından da yapılabilecek projeler hakkında Nilüfer Belediyesi'nin ilgili birimleriyle görüş alışverişinde bulundu. Ziyarete Oristano Üniversitesi'nden Daniela Mastino, Oristano Belediyesi'nden Stefano Cadoni, Marco Scava ve Paola Pina, Oristano İMC Müdü'nden Gianni Brundu ve Barbara Lei, Cagliari Üniversitesi'nden Anna Maria Pina ve ILABFOOD Ekibi Çalışkan Matteo Belinas ve Preciana Lisa katıldı.

GIDA SİSTEMİNİ İNCELEDİLER

Ziyarete iki günlük Nilüfer İnovasyon Merkezi'nde yapılan toplantılara katılan katılımcılar, sunumların ardından Nilüfer Belediyesi Gıda Merkezi'ni gezdiler. İkinci gün ise saha ziyaretleri yapıldı. Topluluk mutfağı, üretici pazarı, Nilüfer Tarımsal Analiz Laboratuvarı, Ürünli Kent Bostanları ve İhsaniye Mini Bostanı ziyaret eden ekip, Nilüfer'deki gıda sistemini yakından inceledi. Katılımcılar ayrıca FUSILLI Projesi hakkında da bilgi aldı. Her yıl farklı bir tema ile çalışma gerçekleştirdiklerini anlatan Erdem, görev geldikten sonra Tarım Yılı, Gıda Yılı ve İklim Yılı temalarını belirlediklerini ve bu temalarla ilgili çalışmalar yaptıklarını söyledi. Bu çalışmaların kırsal alanlarda da değerlendirildiğini aktaran Erdem, kooperatif ile bu çalışmalar geliştirip, yürüttüklerini vurguladı. **(Aydın Samet Öztürk)**



Sınır ötesi Nilüfer

İtalya'nın Sardinya Adası'nda faaliyetlerini sürdüren ILABFOOD Oristano Proje Ekibi, Nilüfer'deki gıda sistemini görmek ve iyi uygulama örneklerini yerinde incelemek için Nilüfer Belediyesi'ne iki günlük gezi programı gerçekleştirdi. Nilüfer Belediyesi'nin ortağı olduğu FUSILLI Projesi'nin faaliyetlerini de yerinde inceleyen ekip, sosyal sorumluluk çalışmaları, inovasyon ve sosyal girişimcilik alanından da yapılabilecek projeler hakkında Nilüfer Belediyesi'nin ilgili birimleriyle görüş alışverişinde bulundu.



İtalyan proje ekibi Nilüfer'i inceledi

İtalya'dan gelecek Nilüfer Belediyesi'ni ziyaret eden ILABFOOD Oristano Proje Ekibi, belediyenin oluşturduğu gıda sistemini inceledi. İtalyan ekip, Nilüfer'deki çalışmalar hakkında bilgi aldı. **7'DE**

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THANK YOU!



DemirEnerji



Any Questions?
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Fostering the **U**rban food **S**ystem
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101000717.

