



Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

RED GRAMAS

RED GRANADINA DE MUNICIPIOS HACIA LA SOSTENIBILIDAD

(MUNICIPALITIES FROM GRANADA TOWARD SUSTAINABILITY)

WATER IN CORE PROJECT
6TH WORKSHOP IN NICOSIA, CHIPRE.
DATES: 11-13 OCTOBER OF 2011





Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

PROGRAMMES OF THE ENVIRONMENTAL DELEGATION IN DIPUTATION OF GRANADA

- Sustainable Development.
- Environmental Education.
- Water Resources.
- Natural Risks.
- Natural Routes.
- Waste Management.

- Wastewater Treatment Plants
- Environmental Analysis Laboratory.
- Environmental Advice to municipalities.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

ENVIRONMENTAL EDUCATION

It has two pieces of equipment of environmental education operating and one in project phase:

- **“Isla Verde”** in the plant of MSW of Alhendín count.
- **“Verde Velez”** in the plant of Velez de Benaudalla count.
- In project **“Aula del Agua”** in the Science Park of Granada .





Excma. Diputación
Provincial de Granada

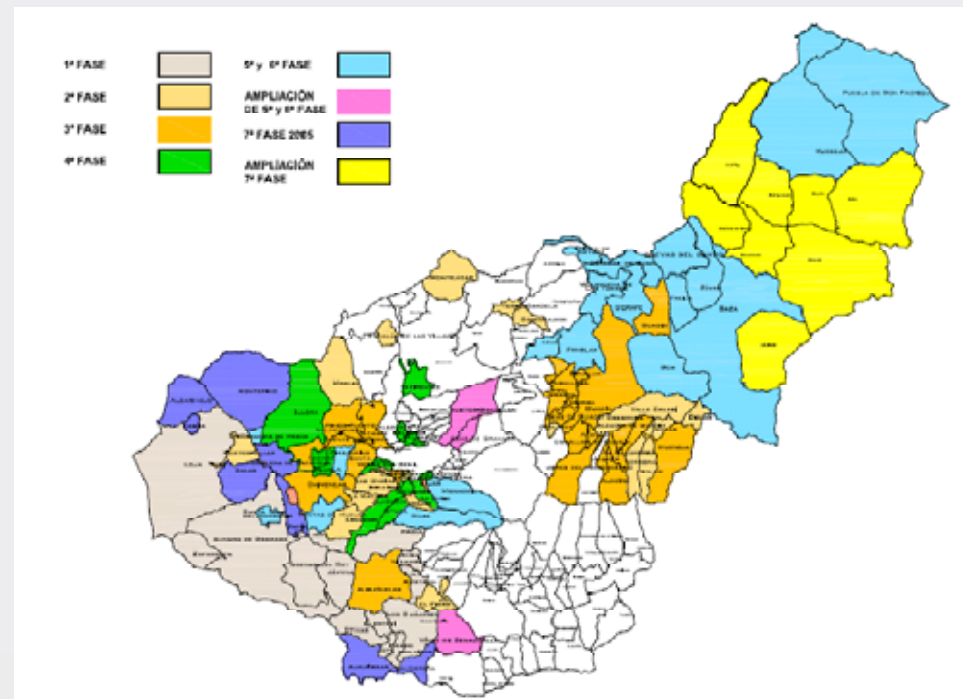


Red Granadina de Municipios hacia la Sostenibilidad

WATER RESOURCES

Plan water resources control and management of groundwater catchments for urban water supplies,
whose objectives are:

- Analyze the current status of deposits.
- Proposals for improvements in the functioning and structure.
- Recommendations for the management and operation.
- Detection of areas for new water supply.





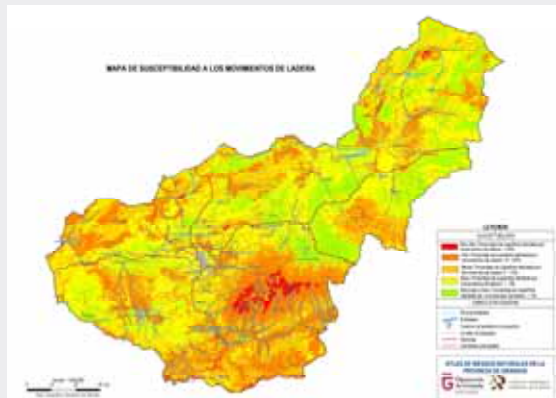
Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

NATURAL RISKS

Publication of the “Natural Risks Atlas of the province of Granada” where we study:



- Floods
- Slope movement
- Earthquakes
- Erosions.
- Karstic processes
- Problems in coastal areas
- Landslide

NATURAL ROUTES

Development of an integrated **Provincial Green Ways Network**, including the **Great European Mediterranean Green Network**, through:

- Director Plan of Natural Roads of the Vega de Granada.
- Vía Verde (“green-way”) of the Sierra de Baza
- Technical feasibility study of different paths integrated into the province Network.





Excm. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

WASTE MANAGEMENT

Provincial Consortium for the treatment of the Municipal Solid Waste (RESUR), integrated by all municipalities in the province and the Deputation of Granada :

- **Plan for Municipal Solid Waste in the province**, with 2 treatment and composting plants and 9 transfer plants.
- **Plan for Debris and remains of Works**, with 5 center operating at the province.
- **Selective Urban Waste Collection**: glass, plastic, paper and cardboard and used domestic oil.
 - **Biomass Composting Plant** (greenhouse vegetable waste).
 - **Awareness campaign and public communication.**



ENVIRONMENTAL ADVICE

- 6 environmental technicians working in 28 municipalities of the province.

its objectives are to conduct technical work environment in line with the legislation currently in force.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

WASTEWATER TREATMENT

Master Plan for Wastewater Treatment in the Province of Granada.

Master Plan for Management sludge wastewater treatment .

New provincial entity to manage integrated water cycle



ENVIRONMENTAL ANALYSIS LABORATORY.

Maintenance and Conservation Program for Wastewater Treatment Plants in the province of Granada. There are 60 plant included in the program.



Wastewater analysis laboratory,



Mobile unit for measuring air pollution, we made measurement compaings at municipalities of ten days duration each.

Vector control and urban pest , with 123 municipalities included.





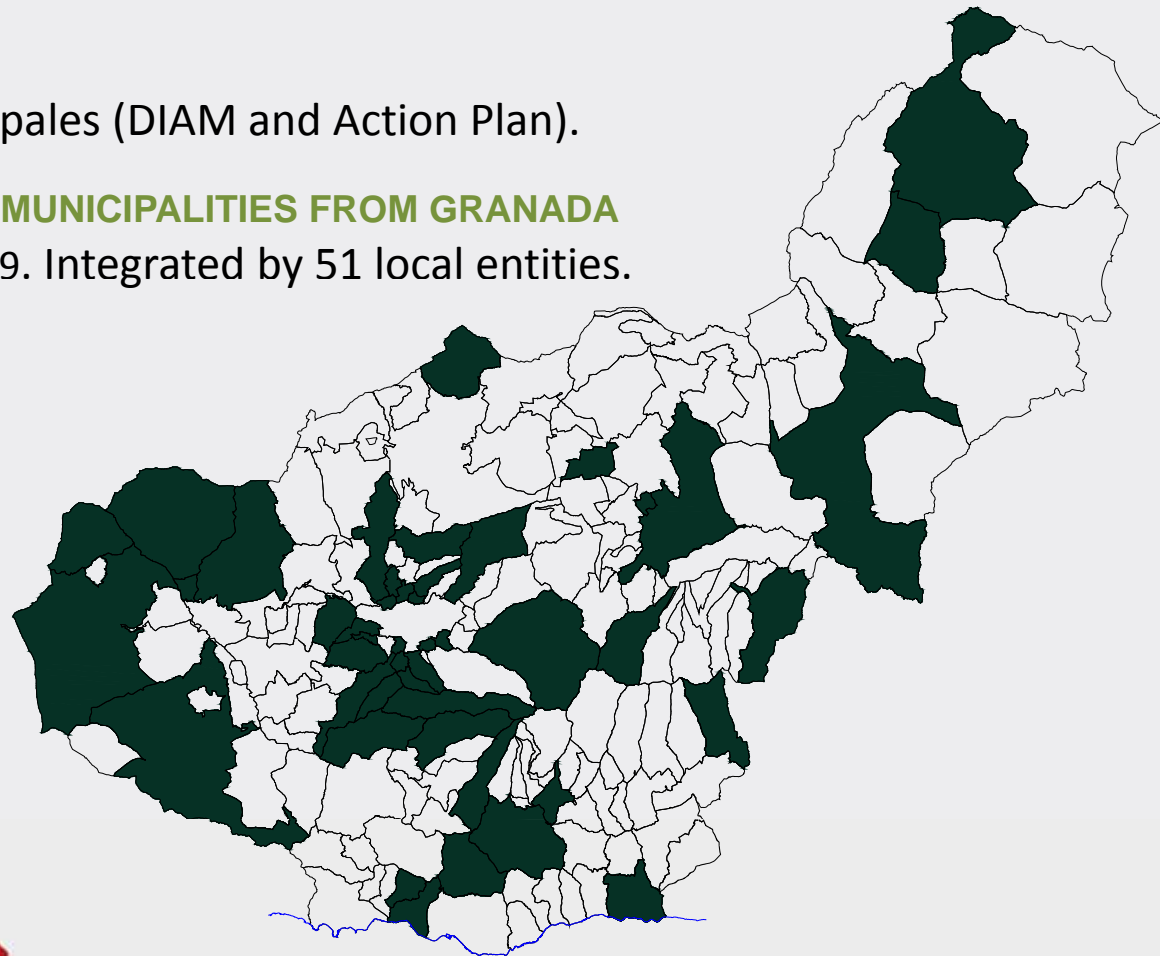
Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

PROGRAM OF SUSTAINABLE DEVELOPMENT

- Agenda 21 Provincial.
- Program of Agendas 21 municipales (DIAM and Action Plan).
- Creation of the **Red GRAMAS (MUNICIPALITIES FROM GRANADA TOWARD SUSTAINABILITY)** in 2009. Integrated by 51 local entities.





Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

GRAMAS NETWORK

FORMED BY:

- Municipalities of Granada province with Agenda Local 21.
- Municipalities of Granada province with interest by making a local agenda 21 .

STRATEGIC OBJECTIVE:

Create a tool for cooperation and exchange of experiences, to incorporate the principles of environmental sustainability, and include good environmental practices in the management of the municipalities in the province of Granada.





Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

PRINCIPLES ON WHICH IT IS BASED

- THE RIO EARTH SUMMIT, 1992.
- THE AALBORG CHARTER, CHARTER OF EUROPEAN CITIES AND TOWNS TOWARD SUSTAINIBILITY, DENMARK 1994.
- AALBORG +10, 2004.
- SUSTAINABLE DEVELOPMENT SPANISH STRATEGY, 2007.
- SUSTAINABLE DEVELOPMENT ANDALUSSIAN STRATEGY.
- GENERAL PROTOCOL, “LOCAL AGREEMENT ABOUT SUSTAINABILITY”. approved in plenary session of Deputation of Granada in March 2007 and subsequently by the municipalities of the province.

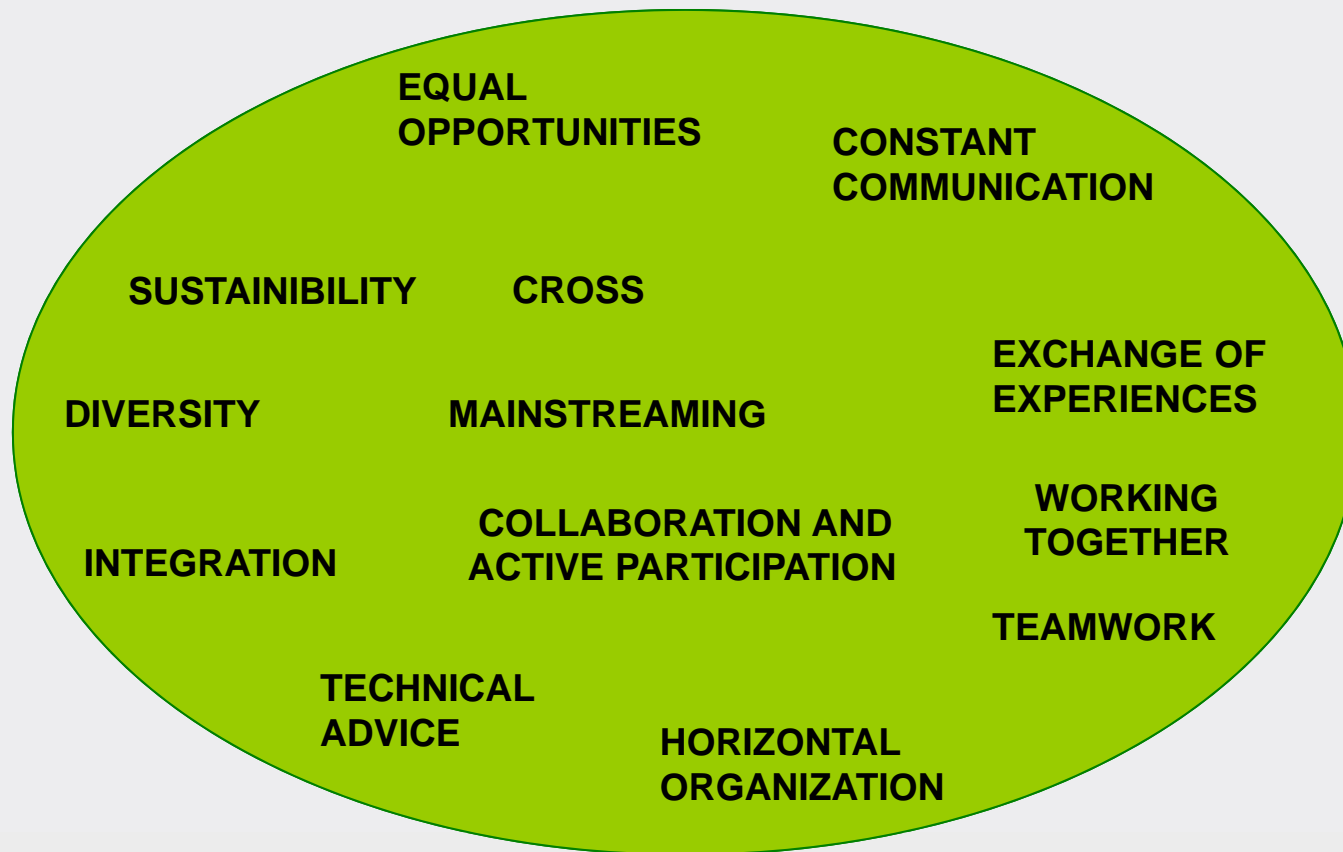


Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

NETWORK FEATURES





Excma. Diputación
Provincial de Granada

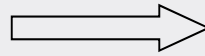


Red Granadina de Municipios hacia la Sostenibilidad

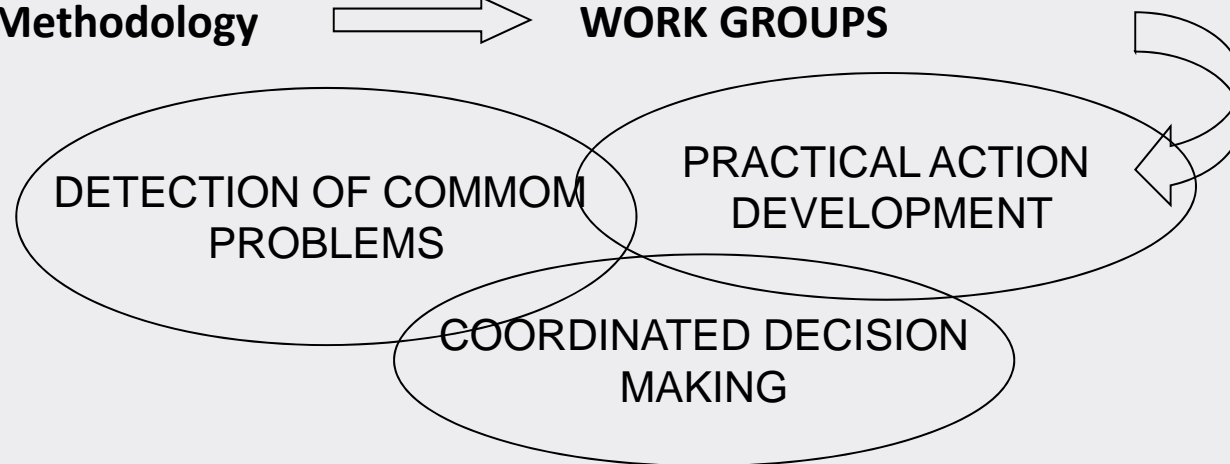
OPERATION OF THE NETWORK



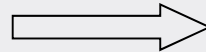
Participatory Methodology



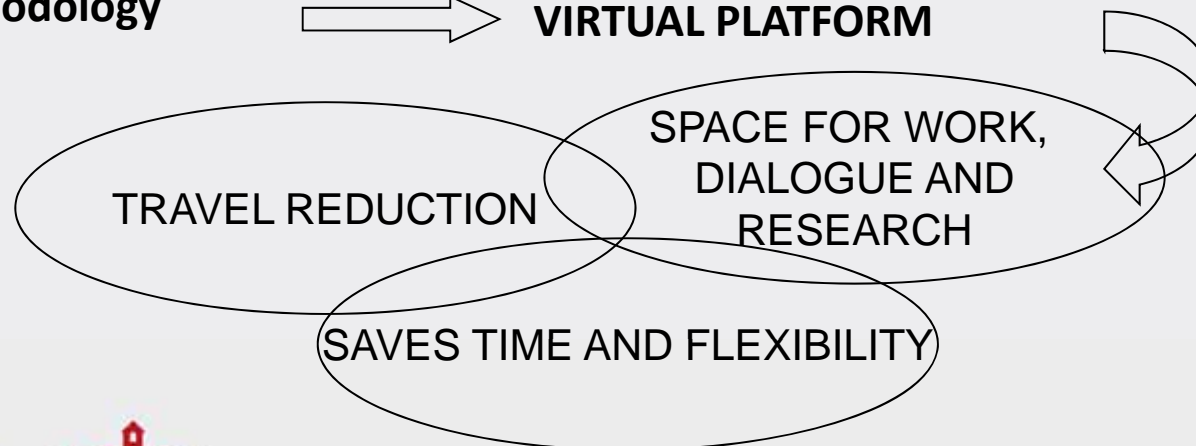
WORK GROUPS



Innovate Methodology



VIRTUAL PLATFORM





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

ORGANIZATION

ASSEMBLY OF THE NETWORK: made by local authorities in the province. The last Assembly was held in 26 of September of 2011.

TECHNICAL SECRETARIAT: Assumed by the Delegation of Environment of the Deputation of Granada.

THEMATICS WORK GROUPS: formed by the municipalities of the province. Each municipality can choose two of them to work.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

SETTING THE WORK GROUPS

Formed by the municipalities of the network organized by subject.

Each workshop has a coordinator who is responsible for the proper functioning of equipment, including submitting to the Assembly's plan of actions envisaged and the results of the work.

In the workshops are represented the following territorial and population criteria:

- Municipalities with a population over 5.000 inhabitants
- Municipalities with fewer than 5.000 inhabitants
- Representation from all the territories that make up the province and integrate the Network





Excmo. Diputación Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

OPERATION OF GRAMAS NETWORK

WHO CAN JOIN?

Municipalities in the province are implementing their Local Agenda 21 and also have adopted in plenary:

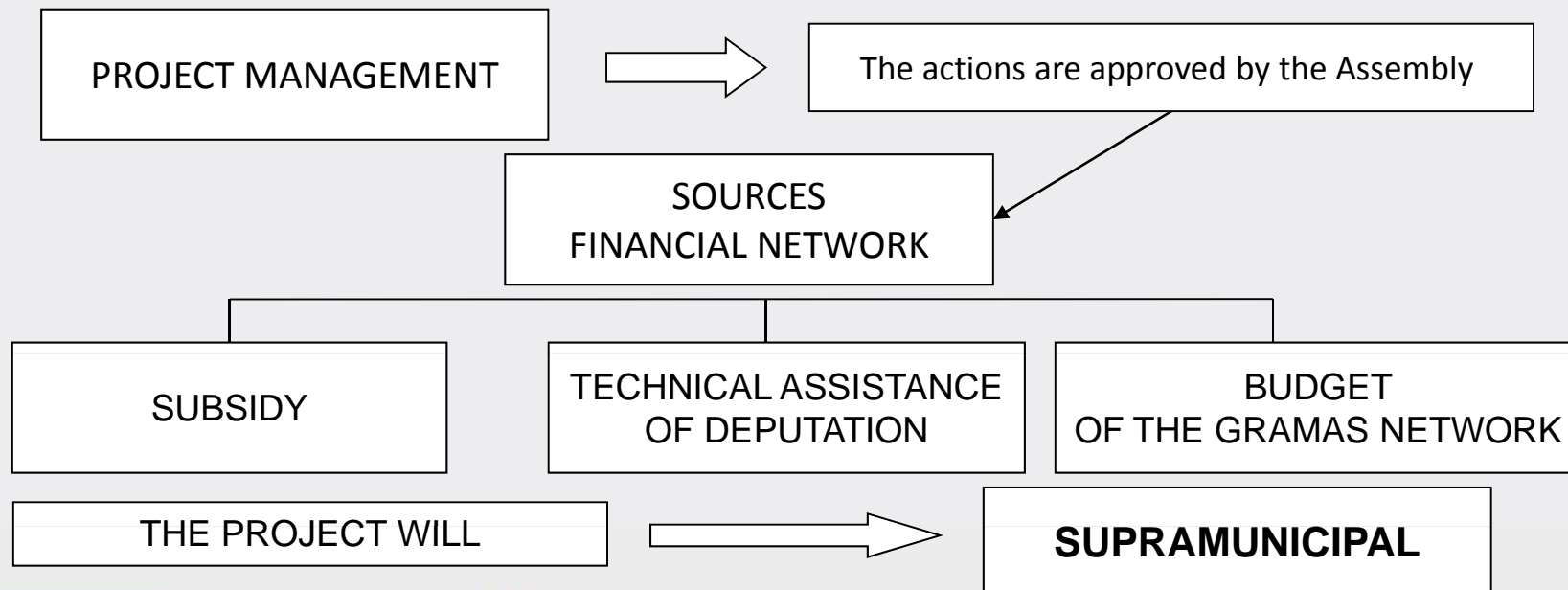
- The Aalborg+10 Charter.
- The Protocolo General: "Pacto Local por la Sostenibilidad".
- Solitude formally join the Red GRAMAS

RIGHTS AND OBLIGATIONS OF MEMBERS

Designate a person to assist with the activities of the network operation, attending meetings and meetings convened to participate actively.

Networking

Enjoy all the network services offered



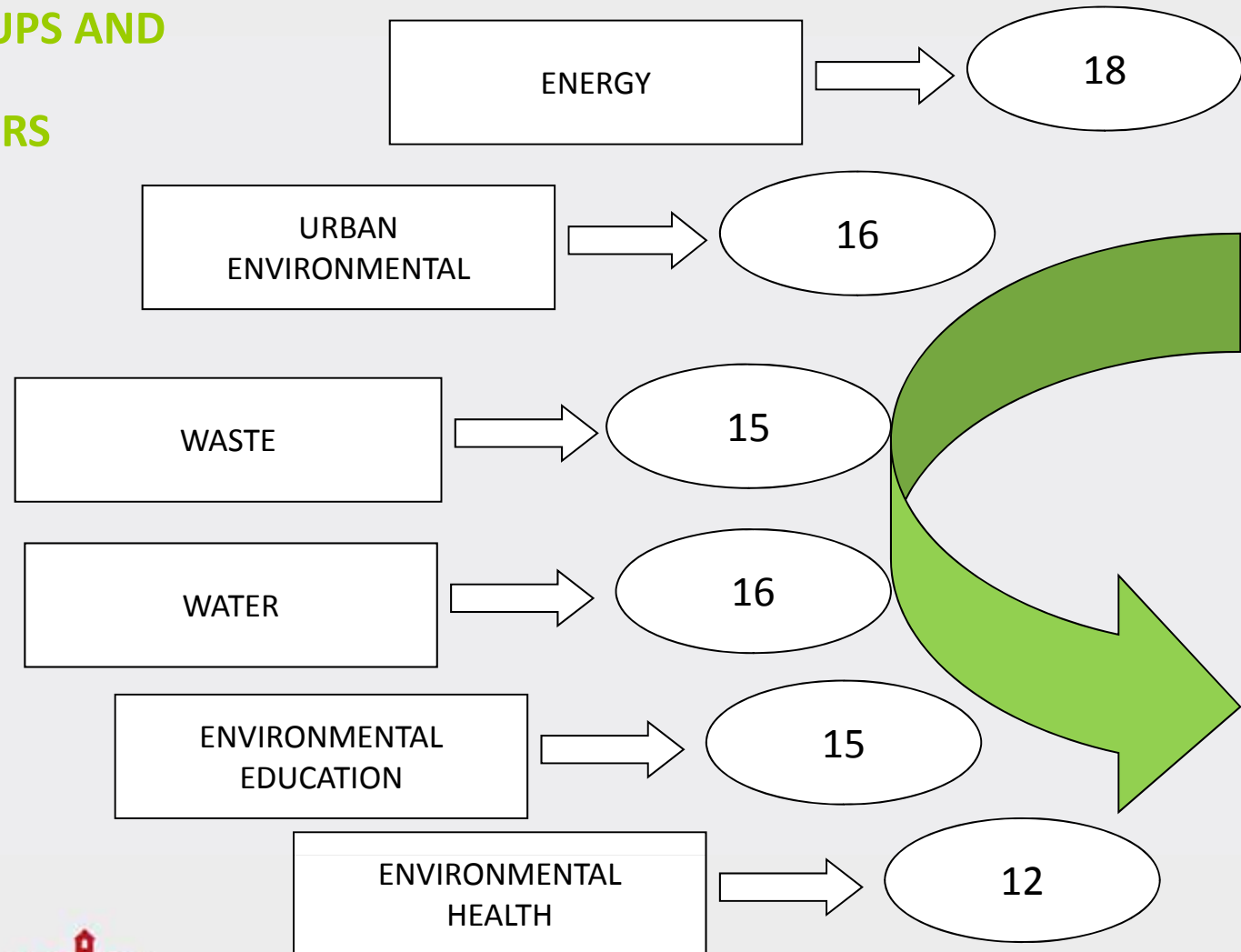


Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

ACTUAL WORK GROUPS AND NUMBER OF MEMBERS





Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

DEVELOPMENT OF WORKING GROUP

All working group have been at least four meeting in person, and continuous work through the virtual platform.

In this meetings have development the following points:

- **Detection of problematic.**
- **Stablishing lines of work.**
- **Prioritization of the actions and timing.**
- **Elaboration of sheets summary of each action.**



Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

WORKSHOPS. CURRENTLY DEVELOPING ACTION

URBAN ENVIRONMENT

MA.1.D.I Model of Green areas Ordenance for municipalities.

MA.2.C.I. Participatory development of a protocol for the detection and resolution of problems in noise.

MA.3.D.I. Legal tools to resolve the issue of breach of obligations of owners of derelict sites.

MA.4.E.I. Improved accessibility to schools and non-motorized traffic associated resolution.

MA.4.E.II. Contribution to the adoption of best practices through a pilot project implementation electric bicycles for use by members and employees of the session.



Excma. Diputación
Provincial de Granada

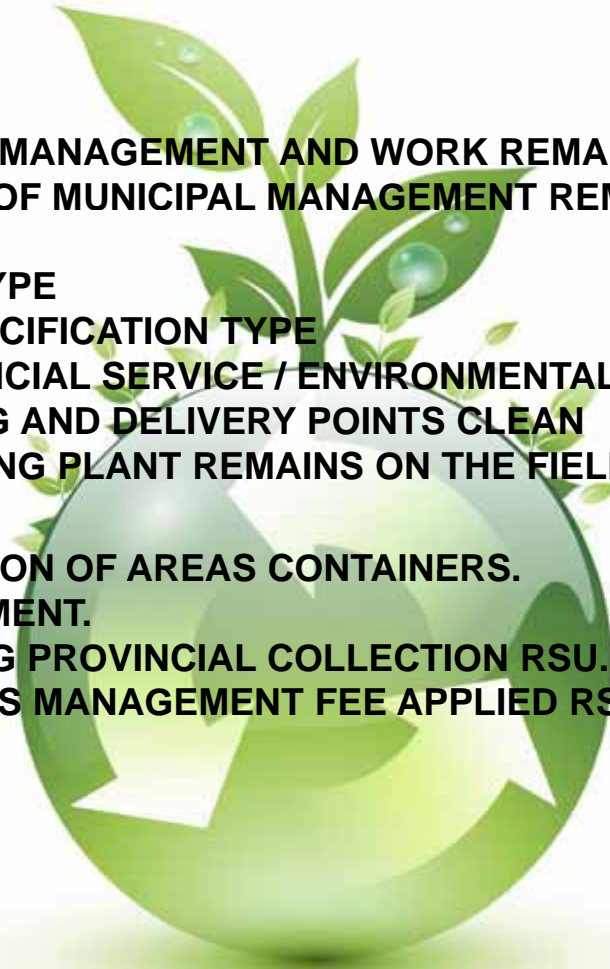


Red Granadina de Municipios hacia la Sostenibilidad

WORKSHOPS. CURRENTLY DEVELOPING ACTION

WASTE

- RE.1.DI: ORDINANCE TYPE INERT WASTE MANAGEMENT AND WORK REMAINS.
- RE.1.D.II: ORDINANCE TYPE OF MUNICIPAL MANAGEMENT REMAINS GREEN, PLANT AND AGRICULTURAL.
- RE.1.D.III: URBAN HEALTH ORDINANCE TYPE
- RE.2.CI: TECHNICAL REQUIREMENTS SPECIFICATION TYPE
- RE.2.BI: INSPECTION MUNICIPAL / PROVINCIAL SERVICE / ENVIRONMENTAL BRIGADES
- RE.4.AI: EDITORIAL DESIGN, PROCESSING AND DELIVERY POINTS CLEAN
- RE.4.A.II: PILOT EXPERIENCE: COMPOSTING PLANT REMAINS ON THE FIELD SCHOOL AND COMMUNITY .
- RE.4.A.III: MSW COLLECTION AND LOCATION OF AREAS CONTAINERS.
- RE.4.A.IV: INTEGRATED WASTE MANAGEMENT.
- RE.5.CI: STUDY OF THE RATE OF EXISTING PROVINCIAL COLLECTION RSU.
- RE.5.C.II: PROPOSALS AND ALTERNATIVES MANAGEMENT FEE APPLIED RSU SCALES AND SECTIONS OF APPLICATION.
- RE.5.C.III: SERVICE TAX ORDINANCE RSU.
- RE.5.C.IV: SEARCH FOR FUNDING.





Excmo. Diputación
Provincial de Granada



**Red Granadina de Municipios
hacia la Sostenibilidad**

WORKSHOPS. CURRENTLY DEVELOPING ACTION

WATER

AG.1A.I: MANAGEMENT MODEL OF INTEGRAL WATER CYCLE IN THE PROVINCE OF GRANADA.

AG.2.B.I. TRAINING COURSE ON THE "HEALTH AND MONITORING PROGRAM DRINKING WATER QUALITY OF ANDALUSIA."

AG.2.C.I. DUTIES AND POWERS OF MUNICIPALITIES REGARDING WATER CONSUMER

AG.2.C.II. CARE AND MAINTENANCE AND DITCHES (ALTA ALPUJARRA)

AG.3.D.I. SPILL CONTROL OF A NETWORK OF MUNICIPAL SANITATION.

AG.4.E.I. CONTROL OF DOMESTIC WASTE TO THE SEWERAGE NETWORK MUNICIPAL.

AG.4.E.II: TEACHING UNIT OF THE INTEGRATE WATER CYCLE: ENVIRONMENTAL EDUCATION GT

AG.4.E.III: VISIT TO THE EXPERIMENTAL PILOT PLANT OF WASTE WATER TREATMENT "Carrión de los Céspedes".



Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

WORKSHOPS. CONTENT AND OBJECT

ENERGY

- EN.1.A.II. Protocol including measures for energy saving and efficiency in projects.**
 - EN.2.C.I. Diagnostic study on the status of electricity distribution infrastructure (areas with weaknesses and flaws)**
 - EN.2.D.I. Integration of urban landscape criteria in the bylaws.**
 - EN.3.A.I. Participatory actions to promote non-motorized transport.**
 - EN.4.E.I. Design of information campaigns and initiatives for adoption of guidelines sustainable mobility.**
 - EN.5.C.I. Document-proposal on streamlining administrative processes for energy production renewable sources by the administration.**
- Application to the stakeholders (Ministry of Industry, Tourism and Trade, Innovation and Andalusia.)**



Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

WORKSHOPS. CONTENT AND OBJECT

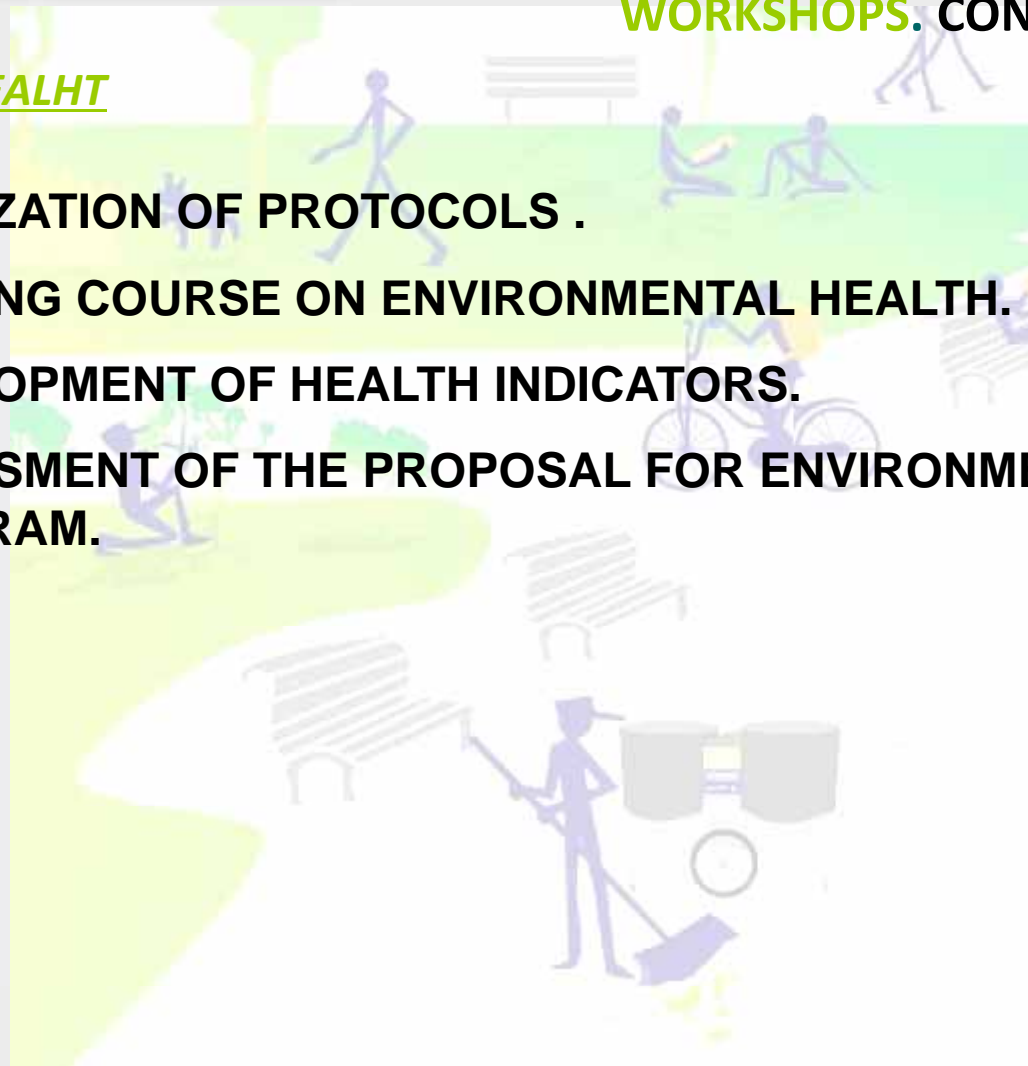
ENVIRONMENTAL HEALTH

SA.1.C.I: REALIZATION OF PROTOCOLS .

SA.2.BI: TRAINING COURSE ON ENVIRONMENTAL HEALTH.

SA.3.CI: DEVELOPMENT OF HEALTH INDICATORS.

**SA.4.CI: ASSESSMENT OF THE PROPOSAL FOR ENVIRONMENTAL
HEALTH PROGRAM.**





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

WORKSHOPS. CURRENTLY DEVELOPING ACTION

ENVIRONMENTAL_EDUCATION AND CITIZEN PARTICIPATION

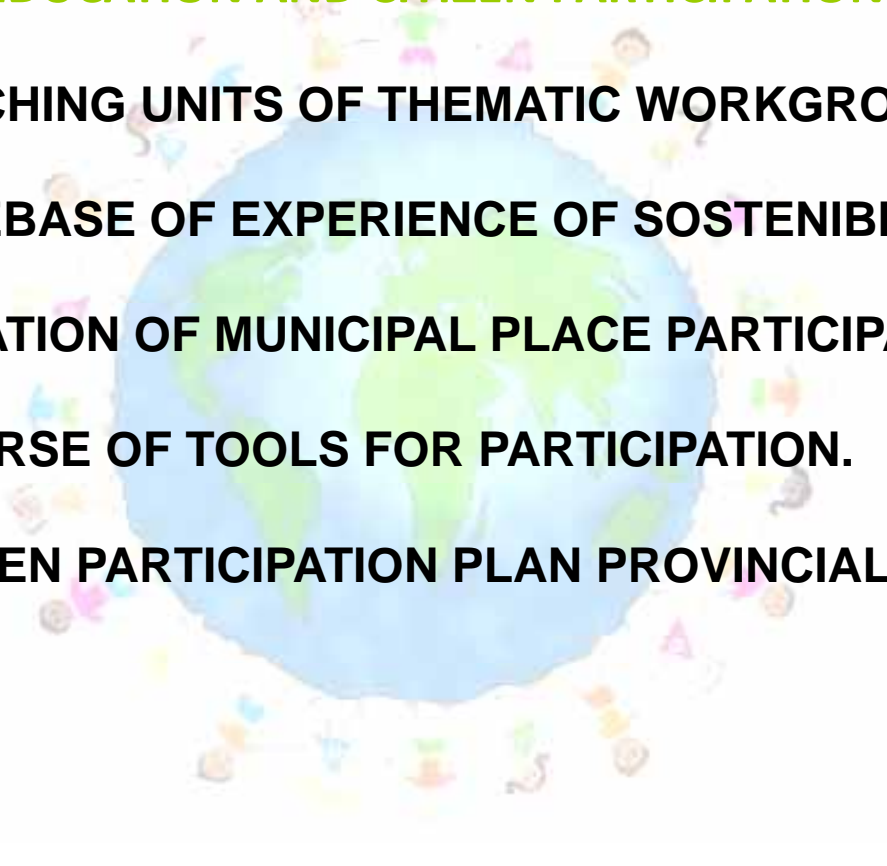
ED.1.CI: TEACHING UNITS OF THEMATIC WORKGROUPS FOR PUPILS.

ED.2.CI: DATABASE OF EXPERIENCE OF SOSTENIBILITY

ED.3.EI: CREATION OF MUNICIPAL PLACE PARTICIPATORY.

ED.3.EII: COURSE OF TOOLS FOR PARTICIPATION.

ED.4.DI: CITIZEN PARTICIPATION PLAN PROVINCIAL.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

PENDING ACTION TO PERFORM





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

- Drawing from the Study: “Conservation and maintenance of irrigation in the High Alpujarra of Granada”.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

- Drawing for the Study: project typical example of Green Point Urban Waste Collection and exploitation.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

- 2TH Phased Improved accessibility to schools and non-motorized traffic associated resolution.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad

- Training Programm On-line.
- 2th Phase Teachings Unit : dynamization.



Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

Publications.





Excma. Diputación
Provincial de Granada



**Red Granadina de Municipios
hacia la Sostenibilidad**

6. ERDF FOUND 2011- 2013: LINES OF ACTION.





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

- 3TH Phased_Improved accessibility to schools and non-motorized traffic associated resolution.
- Order processing types to improve urban environmental management, depending on the needs expressed by the municipalities .
- Project to improve air quality.
- Campaign promoting healthy habits in the municipalities of the province, this action is aimed at both improving the quality of life of the town, reducing pollution, and the health of citizens.
- Development of campaigns for water saving.



Excmo. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad

- Establishment of a loan service of electric bicycles.
- Development of public information signs for the city parks with information on Agenda 21 of the municipality and the GRAMAS Network .



Excma. Diputación
Provincial de Granada



Red Granadina de Municipios hacia la Sostenibilidad



Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad



Proyecto cofinanciado por la
Unión Europea

F E D E R

Fondo Europeo de Desarrollo Regional

Una manera de hacer Europa





Excma. Diputación
Provincial de Granada



Red Granadina de Municipios
hacia la Sostenibilidad



Gracias, Thanks, Merci, ευχαριστίες.

