



# Results of Nitrates Directive implementation in Romania

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## Legal framework

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**The Nitrates Directive 91/676/EEC** concerning the protection of waters against pollution with nitrates from agriculture sources was fully adopted through the following national legal acts:

- **Government Decision nr. 964/2000** for the approval of the **Action Plan** for the water protection against pollution with nitrates from agriculture sources and for **starting up the Commission and Support Group** for the implementation of the Action Plan for the protection of water against pollution with nitrates from agriculture sources;



# Legal Framework

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## Romania set up Ministerial Orders to implement the Nitrates Directive

- **Joint Ministerial Order no. 452/2001 and no.105.951/2001, for the approval of the rules for organisation and functioning, aims and competence of the Commission and Support Group for the implementation of the Action Plan for the protection of waters against pollution with nitrates from agriculture sources**
- **Ministerial Order nr.1072/2003 regarding the monitoring system of the surface water and groundwater from the agricultural sources;**
- **Joint Ministerial Order nr.242/197/2005 regarding the monitoring system of the soil from the vulnerable and potential vulnerable zones and the system management of organic residues from agriculture**



# Legal Framework

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- Ministerial Order 1387/2006 on approval of **the procedure for public participation** in the development, amendment or revision of Actions Programs for vulnerable zones.
- **Joint Ministerial Order no.1552/743/2008** for the **approval** of the list containing the localities by counties where there are sources of nitrates from agricultural activities(**Vulnerable Zones**) .  
This second designation covers about 50% of the agricultural area of the country and takes into account:
  - concentrations of nitrates in surface water and groundwater in NVZs and potential NVZs
  - possible eutrophication of water bodies



# Legal framework

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**After the second designation of NVZs in 2008**

The **Action Program** for NVZs was adopted by the **Interministerial Commission on 2010.**

The Action Program:

- was subject to public consultation;
- was discussed and approved by the Basin River Committees created at basin river level for consultation purposes.

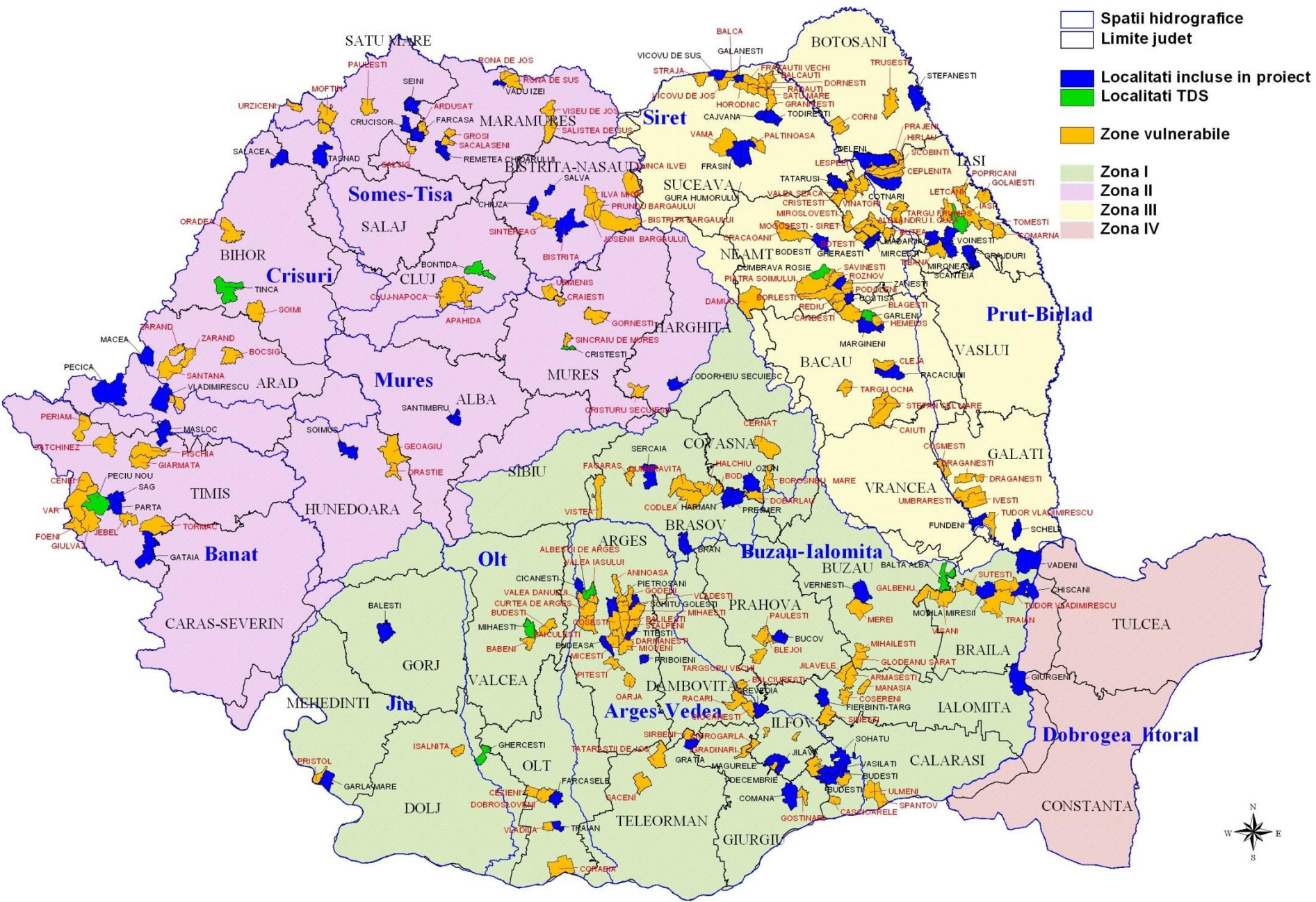


# Integrated Nutrient Pollution Control Project

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## **OBJECTIVES of the Project**

- to reduce the pollution of nutrients in the water bodies
- to promote behavior changes by:
  - demonstrative activities at the level of communes;
  - providing support to the Government of Romania for strengthening the institutional and regulatory capacity to comply with the EU requirements in the water protection area.







# **Integrated Nutrient Pollution Control Project**

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- **Time of Implementation: 2007-2013**
- **Financial Support:**
  - **Loan of Ro Gov: Euro 50 million (World Bank)**
  - **Grand: Euro 5.5 million (GEF)**
  - **Local Budget: Euro 3.63 million**
  - **National Adm. "Apele Romane": Euro 1 million**



# **Integrated Nutrient Pollution Control” Project**

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## **Project Components**

**Component 1: Investments at commune level in the Nitrate  
Vulnerable Zones (45,95 mil. Euro)**

**Component 2: Institutional Strengthening and Capacity  
Building (5,90 mil. Euro)**

**Component 3: Public Awareness and Replication Strategy  
(2,58 mil. Euro)**

**Component 4: Project Management**



# Integrated Nutrient Pollution Control Project

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## **Component 1-Investments at commune level in the Nitrate Vulnerable Zones (1)**

-support for 86 localities, designated as NVZs, to implement sub-projects in the following areas:

- (i) improve collecting, storage and management of the animal and household waste.
- (ii) plant vegetative buffer strips and rehabilitation of some communal pastures;
- (iii) water supply and sanitation;
- (iv) promoting of the environment-friendly nutrients management practices recommended by the Code of Good Agricultural Practices;



# Integrated Nutrient Pollution Control” Project

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## **Component 1-Investments at commune level in the Nitrate Vulnerable Areas(2)**

-support for 86 localities, designated as N V As, to implement sub-projects in the following areas:

- (v) preparation of Feasibility Studies for improvement of services for water and waste waters;
- (vi) testing and demonstration of the feasibility to produce biogas and energy from livestock manure and household organic waste through anaerobic digestion

# Integrated Nutrient Pollution Control” Project

## Picture from the Past: improper waste management practices

Livestock manure, mixed with household waste was accumulated and stored in improper conditions at the household level.



# Integrated Nutrient Pollution Control” Project

## What is proposed through the Project

Support for rural communities for the rehabilitation of the un-authorized waste storages and returning the land to agriculture.



# Integrated Nutrient Pollution Control” Project

Provision of 1050 individual platforms until now



# Integrated Nutrient Pollution Control” Project

**Provision of 1262 bins for separate collection of the household waste**





# Integrated Nutrient Pollution Control” Project

Construction of 13 storage platforms at the  
level of 8 communities ( Total no. 71  
platforms)



# Integrated Nutrient Pollution Control” Project

Provision of equipment for manure management ( 62 equipment for transport and spreading)



# Integrated Nutrient Pollution Control” Project

Demonstrative Tree Planting /  
Afforestation Program, Spring 2011



# Integrated Nutrient Pollution Control” Project

Training Program on Good Agricultural Practices  
for farmers



# Integrated Nutrient Pollution Control” Project

## Water and Sanitation – Support provided by the Project

Support for new waste water treatment plans and for the rehabilitation of some existing degraded waste water treatment plants.





# Integrated Nutrient Pollution Control” Project

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## **Component 2: Institutional Strengthening and Capacity Building**

Update of the Code of Good Agricultural Practices

Support National Administration “Apele Romane” to lead inter-agencies working groups at the river basin and county level

Carrying out a comprehensive training program for the staff of relevant regional and county level agencies, members of the river basin working groups for the implementation of Nitrate Directive.

Carrying out training programs for the Beneficiaries to enable them to access EU funds, including preparation, implementation and project management.

# Integrated Nutrient Pollution Control” Project

**Strengthening the capacity of National Administration”Apele Romane” for water quality monitoring.**

Purchase of the equipment for ground water wells and equipment for mobile laboratories and field investigations.



# Integrated Nutrient Pollution Control” Project

Development of a complex training program for staff at National Administration "Apele Romane".





# Integrated Nutrient Pollution Control” Project

Training of county level working groups for implementation of the  
Nitrate Directive





# Integrated Nutrient Pollution Control” Project

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## **Component 3: Public Awareness and Replication Strategy**

Carrying out of public awareness activities at local, river basin, national and regional levels including

- workshops
- field visits
- study tours
- mass media events and products.

# Integrated Nutrient Pollution Control” Project

*School event organized in Albeștii de Argeș commune, Arges County*



# Integrated Nutrient Pollution Control” Project

**Tree planting contest –Award ceremony**  
Cuza Voda School( Calarasi County)





# Conclusions

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- Implementation of Nitrates Directive is essential to achieve the implementation of the WFD.
- Nitrates Directive is an instrument to protect water from pollution from agricultural sources.
  - **Contributions of the Project**
- Contribution to change of the behaviours of farmers on agricultural works
- Promote a better sanitation in the rural environment in NVZs and implementation of good agricultural practices



# Conclusions

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Nitrates Directive contributes to:

- reduction of the nutrient pollution of surface and ground water resources
- reduction over the long term of discharge of nutrients into water bodies leading to the Danube River and Black Sea through integrated land and water management

# Results of Nitrates Directive implementation in Romania

**Thank you for your kind attention!!**

