Mobilizing Investments in Nitrogen Management

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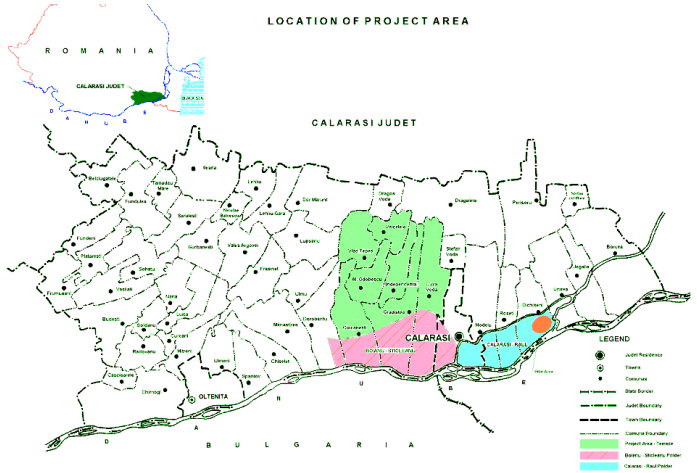
June 2020

ROMANIA

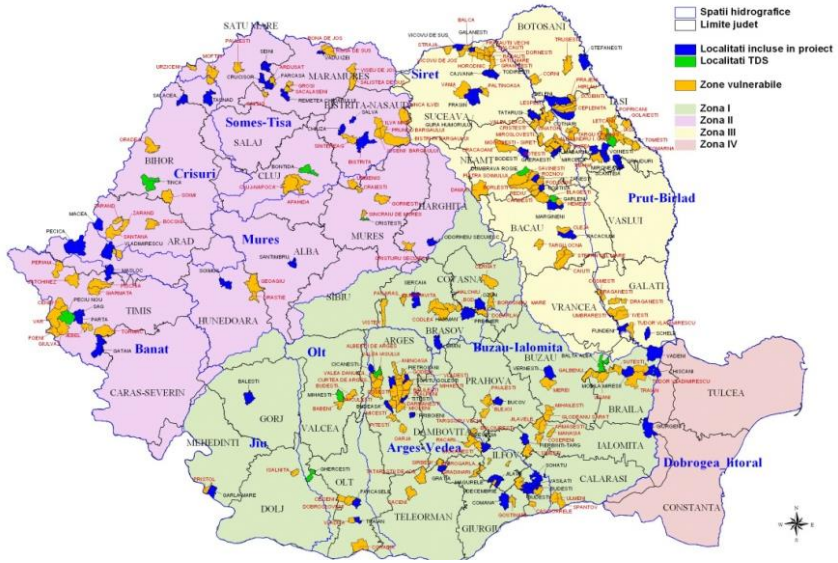
Significant impact on the Black Sea

- Almost 1/3 of the Danube River Basin surface
- More than 1/3 of the Danube River length (1,075 km)
- 99% of the Romanian territory is in the Danube Water Basin
- More than 3 million farms, with 90 % under 5ha covering almost 30 % of the total agricultural

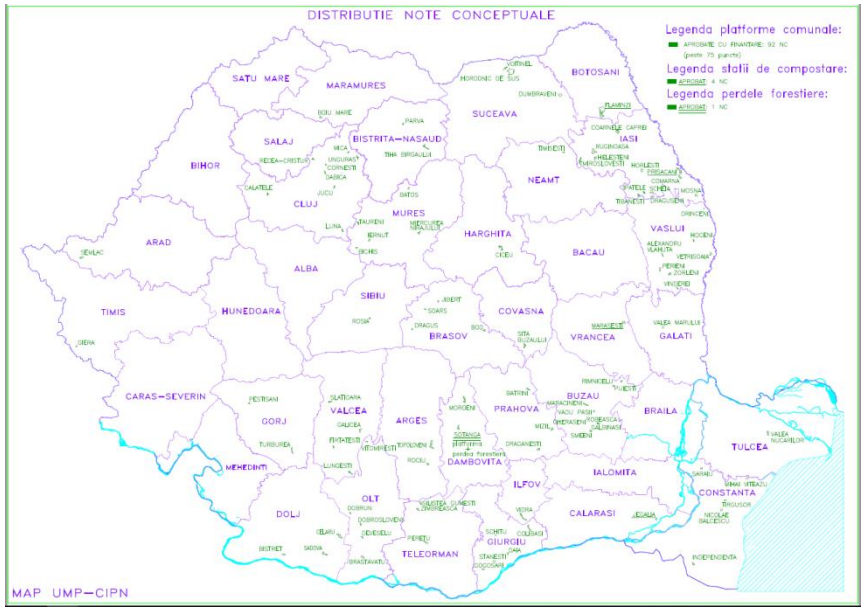
Nutrient Pollution Control in Romania **2002 - 2007**



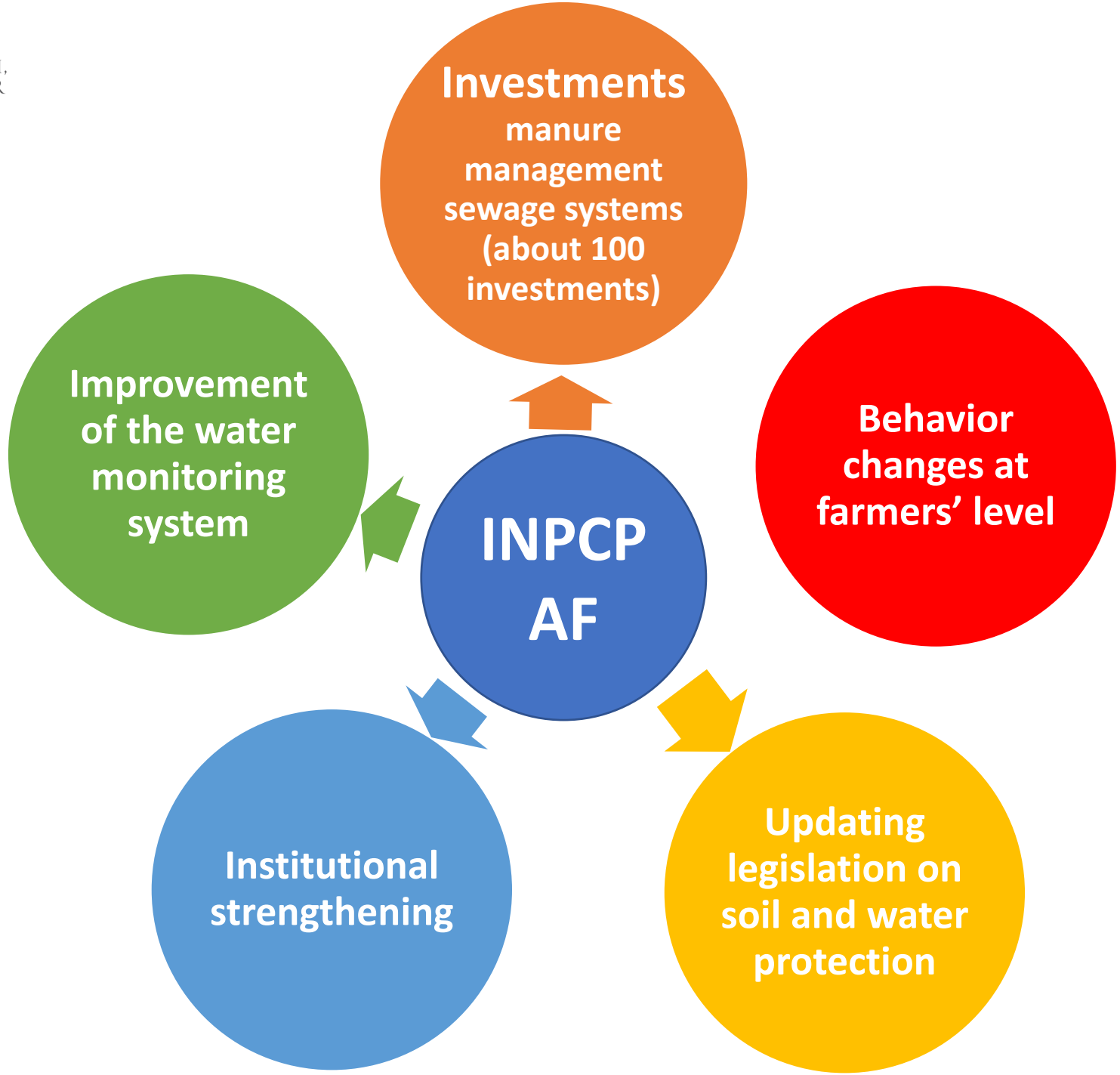
Nutrient Pollution Control in Romania **2008 - 2017**

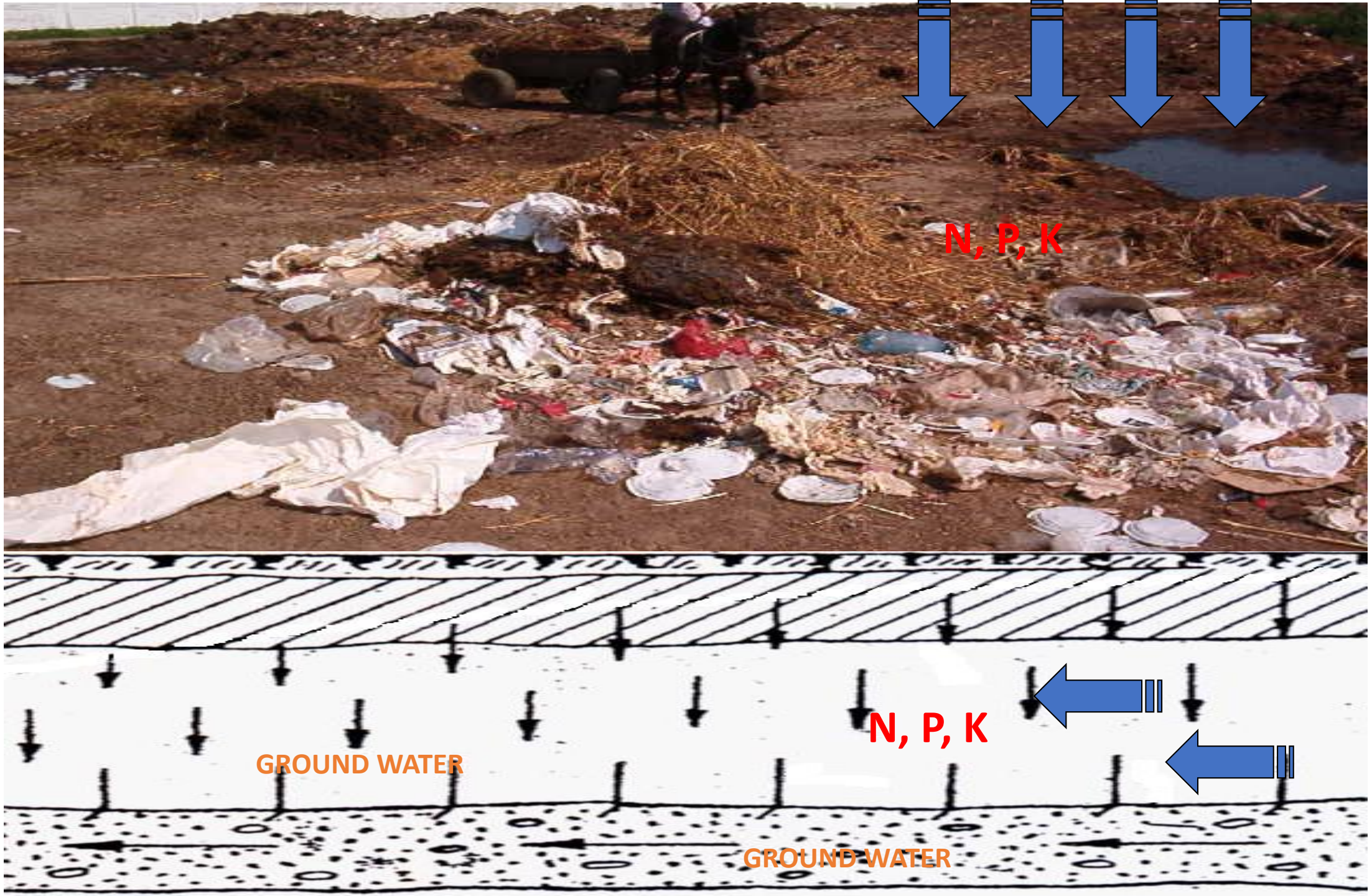


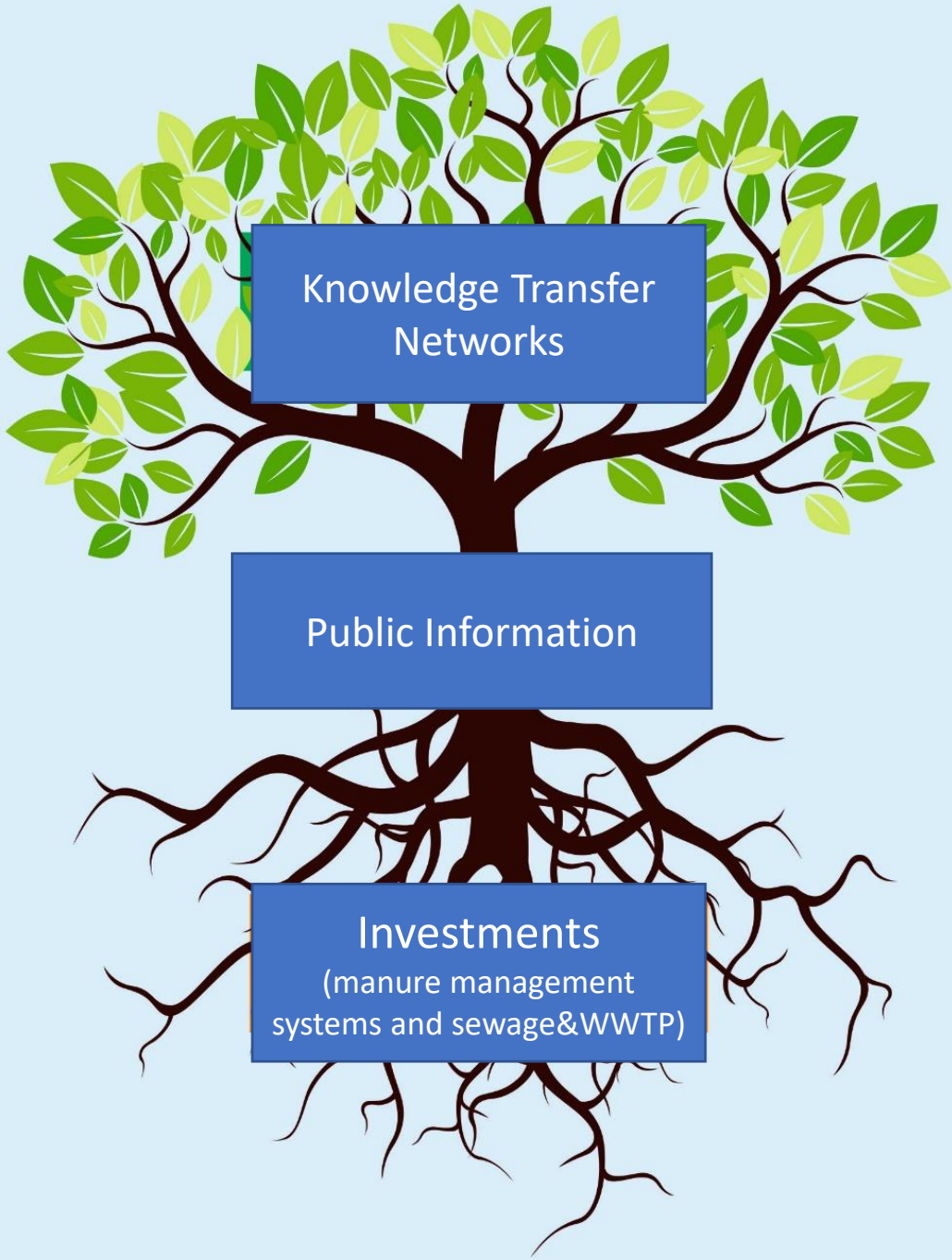
Nutrient Pollution in Romania **2017 – 2022**



Country-wide project,
Given that entire territory of Romania applies the Nitrate Directive


Investments
manure management sewage systems (about 100 investments)
Behavior changes at farmers' level
Updating legislation on soil and water protection
Institutional strengthening
Improvement of the water monitoring system
INPCP AF


N, P, K
N, P, K
GROUND WATER
GROUND WATER


Knowledge Transfer Networks
Public Information
Investments
(manure management systems and sewage&WWTP)

Communal and individual platforms in use

Biogas

Community level solution for manure management

Functional Guarantee	Minimum (or Maximum, as appropriate) Requirement
1. Electrical Power (hourly production)	Minimal 370 kW
2. Thermal Power (hourly production)	Minimal 424 KW
3. Concentration of H2S from biogas	Maximal 200 ppm
4. Dried solid digestate from dryer	Minimal 88% dry material
5. Energy Crops Consumption	Maximum 5,5 tons/day

Knowledge Transfer Networks for farmers training, information and permanent support

Actions to attract the interest of decision makers, investors and local representatives

Four levels of action:

I. Involve the authorities, beneficiaries and other stakeholders in the process of designing the infrastructure for achieving visible results on water quality - *demand driven and customized investments*;

II. Collaborate and support local authorities to implement efficient systems for nutrient management - *Monitoring and control compulsory*;

III. Inform, dialogue and increase awareness in order to induce changes in the current behaviors;

IV. Monitor the soil and waters quality and the effect of the remedial measures. Communicate the results and future measures.