

WASTE MANAGEMENT PROJECTS PREPARATION AND IMPLEMENTATION MILESTONES AND “WORTH TO KNOW” FROM ROMANIA



Phd. Gabriel Mihai Ghinea
ISWA Manager – ROMANIA

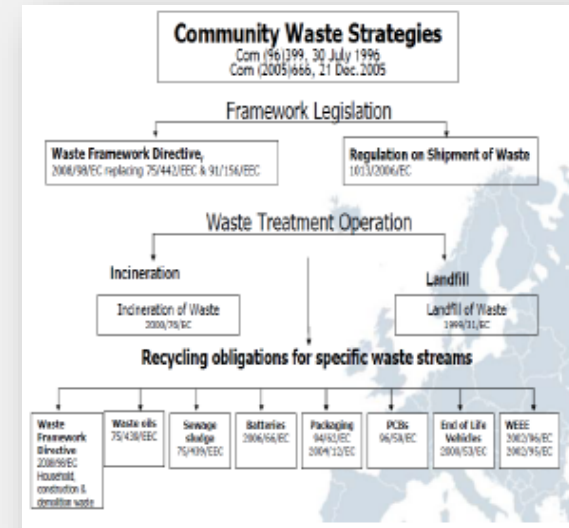
A. INTEGRATED WASTE MANAGEMENT SYSTEMS IN RO
B. DESIGN, CONSTRUCT, OPERATE AN IWMS
E. CONCLUSIONS



A. WASTE MANAGEMENT SYSTEMS IN ROMANIA

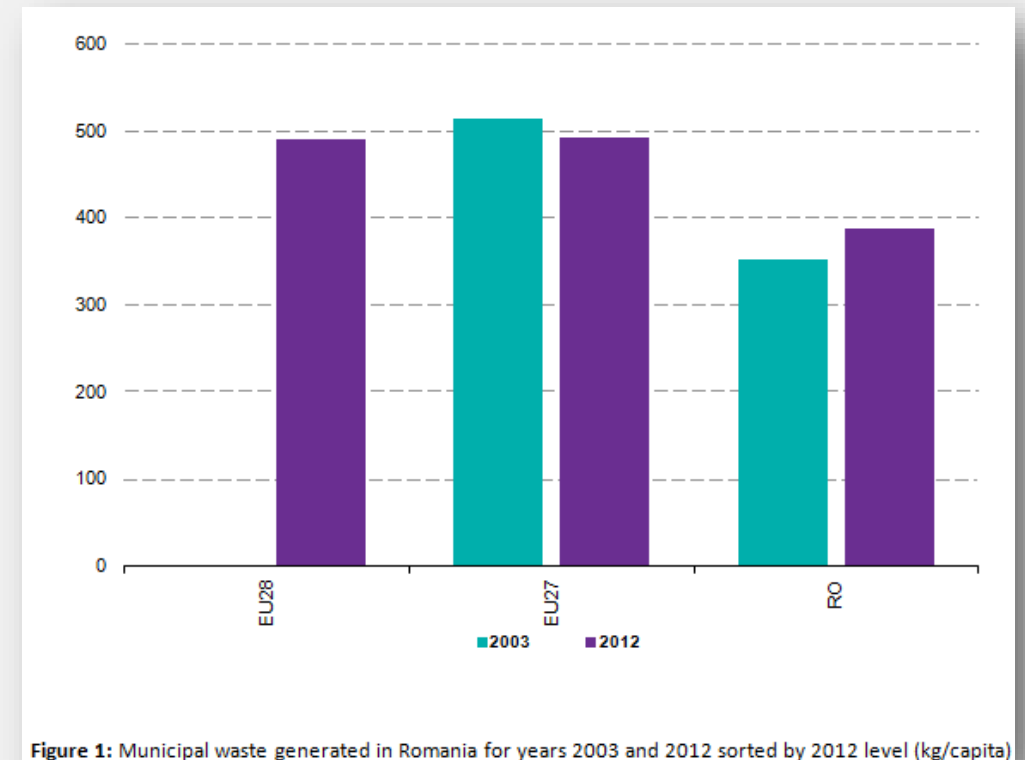
ROMANIA'S ACCESSION TO THE EU IN 2007 HAS PUT THE ROMANIAN WM UNDER THE REGULATIVE INFLUENCE OF VARIOUS EUROPEAN DIRECTIVES

- collection, transport and treatment of MW is **under the responsibility of the local public administrations**, who then decides to either place it under their own management or outsource to private operators
- **400 licensed operators** for WM services, with the largest 10 holding more than 80% of the market share
- more than **1 000 companies** having **been licensed nationally for the collection of packaging waste**. The paper/cardboard and metal waste management have by far the most efficient recovery and recycling systems
- **238 existing MSW landfills not in compliance with EU regulation** are to be closed by 2013, and **65 compliant landfills/transfer stations are to be constructed**, (50 with an average capacity of up to 100 000 t/y, another 15 landfills - up to 50 000 t/y)



A. WASTE MANAGEMENT SYSTEMS IN ROMANIA

- 80% of the population in Romania benefited from collection services (90 % in the urban areas and only 70 % in rural areas)
- standard daily rate waste generation used is 0.9 kg/capita/day for the urban areas and 0.4 kg/capita/day for the rural areas
- A total of **4 million tons** of waste was generated



A. WASTE MANAGEMENT SYSTEMS IN ROMANIA



WM Projects in RO

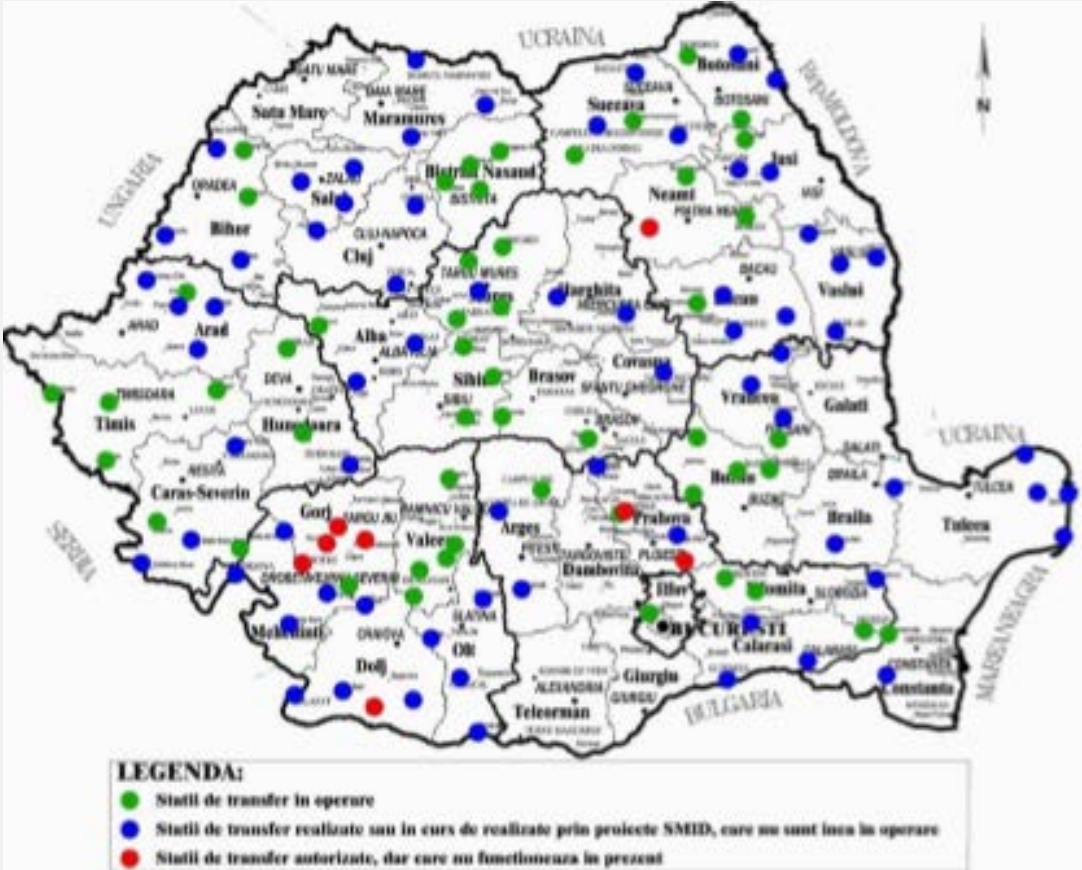


Separate collection of recyclables

A. WASTE MANAGEMENT SYSTEMS IN ROMANIA

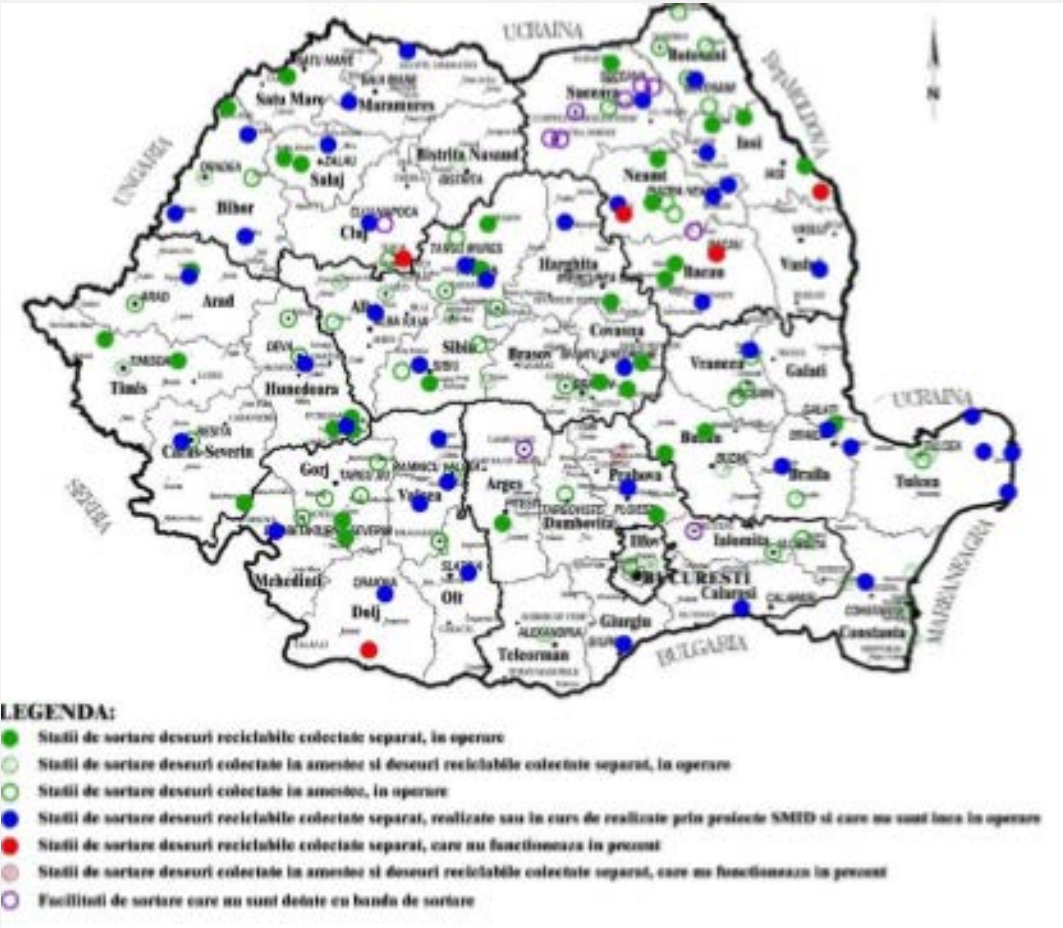


Separate collection of biowaste

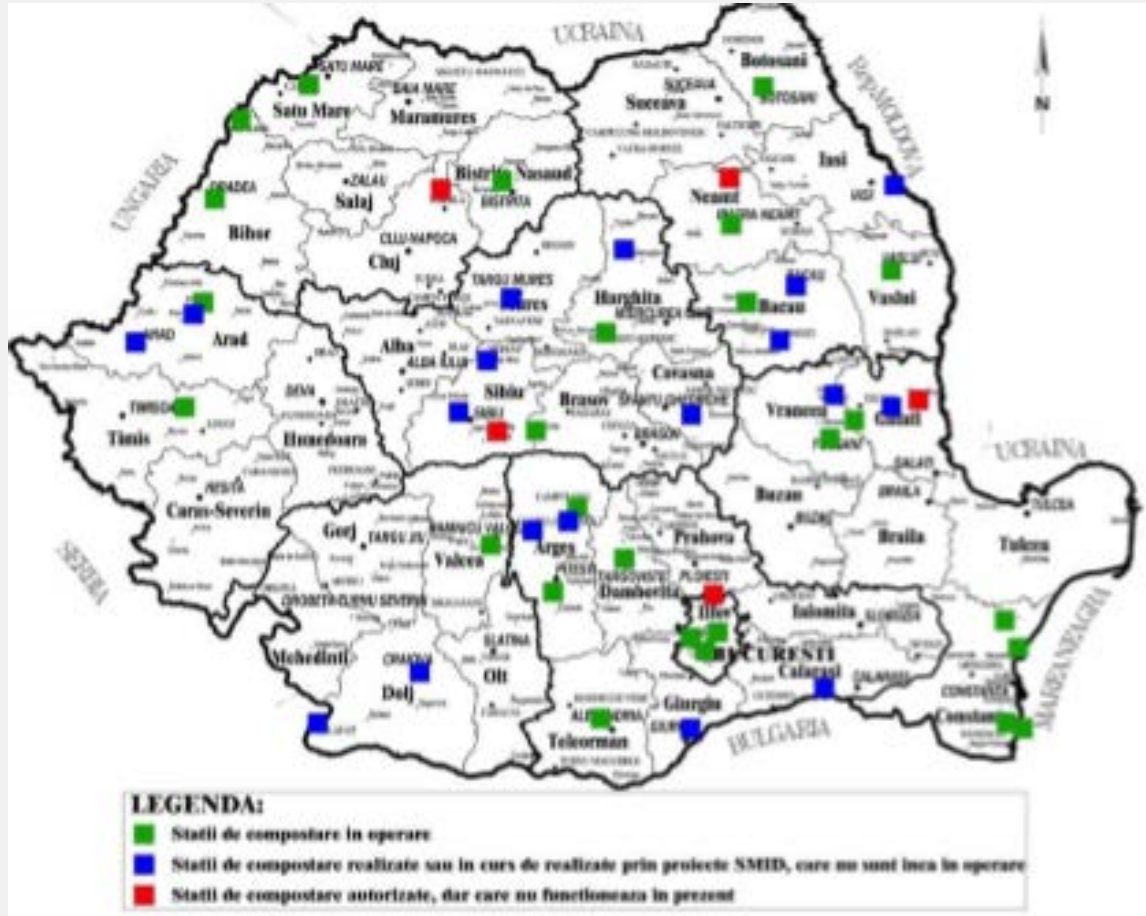


Transfer stations

A. WASTE MANAGEMENT SYSTEMS IN ROMANIA



Sorting stations



Composting plants



A. WASTE MANAGEMENT SYSTEMS IN ROMANIA



Counties with waste treatment before disposal



Landfills



B. DESIGN, CONSTRUCT, OPERATE

Technical Assistance for Vaslui County in implementing the Integrated Waste Management System, Jud. Vaslui, 2016



STUDY CASE – EXAMPLE OF IWMS ON COUNTY LEVEL

C. CONCLUSIONS

MAIN DEFICIENCIES REPORTED IN DESIGNING AND IMPLEMENTING INTEGRATED WASTE MANAGEMENT SYSTEMS IN ROMANIA WERE

TECHNICAL

- poor quality of collection
- quantity: **lower than expected waste generation**
- quality: **effectiveness of selective collection**
- **absence of and / or poorly competent operators** to manage the built assets
- **poorly developed markets** for waste outputs recycling very low: recyclables and compost

POLITICAL AND INSTITUTIONAL

- **tariffs strategies** to ensure sustainability not adopted and/or implemented
- **investments plans not secured and challenged** by competing infrastructures (as incinerators) putting technical and financial sustainability at risk
- **no incentives for public awareness and responsibility on selective collection**
- insufficient allocation of staffs and resources for management (PMU)





Gabriel Mihai Ghinea
ghinea.mihai.gabriel@gmail.com

Technical Project Manager
ISWA Manager, Romania, Bucharest

