



**WINPOL**  
Interreg Europe



European Union  
European Regional  
Development Fund

## **Good Practice title and geographic reference**

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LIPOR

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Thematic Seminar 1

“Use of Information & Data in the waste field”

# Description:

## Problem Addressed

### TRADICIONAL APPROACH

Total weight collected from one (or more) circuits for each flow

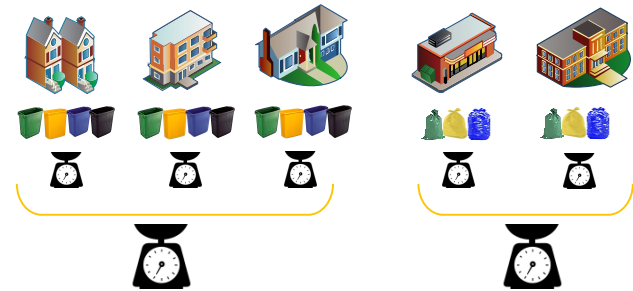


Global Collection Profile by Zone



### DATACENTER

Total weight collected from one (or more) circuits for each flow



Global Collection Profile by Zone

Individual Collection Profile for each client

## Objective

Statistical Reporting



Improve Decision Making Process



On time Information



# Implementation:

## Timescale

2016

2017

2018

2019

Foundation

Development of the information model - DATACENTER

Implementation of the Automated Weighing System

Definition of Performance Indicators

Technology Market Study - Benchmarking

Android Application Development

Development of the new model for street bin collection registration

RFID UHF Monitoring Pilot - Door to Door Collection

Improvements in the statistical analysis system

ArcGis Integration

Development of the information model - Automated Weighing System

## Resources Needed

Development Team

Development Team

Development Team

Development Team

UHF On board Reading System

UHF On board Reading System

UHF On board Reading System

UHF Portable Reading System

UHF Portable Reading System

License Plate recognition system

License Plate recognition system

## Stakeholders

LIPOR

LIPOR

LIPOR

LIPOR

TecMinho

TecMinho

TecMinho

TecMinho

Municipalities

Municipalities

Municipalities

Municipalities

# Evidence of success:

## Results achieved

Key Indicators	Before	After
Number of clients monitored	0	30.000
Number of clients revisited	0	2.000
Number of Daily Data Records	0	6.000
Hours of manual data insertion (monthly)	1.068	0
Cost of manual data insertion (monthly)	5.892,60€	0€
Vehicle weighing time	Reduced by 75%	
Registration of non-conformities time	Reduced by 80%	

# Lessons learned:

- Key success factors
  - To test every solution on the market;
  - Custom Made System;
  - Multidisciplinary cooperation
  
- Negative aspects
  - Difficulty in ensuring the use of the Platform by the municipalities;
  - Short Development team
  
- Challenges
  - Collection Teams;
  - Using an online platform that is constantly changing;
  - Integration with other informatic systems

## Contact details:

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# Thank you!

Questions welcome



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