
ANNEX I – MUNICIPALITY QUESTIONNAIRE

INTERVIEW WITH THE MUNICIPALITY OF _____

Date:

Time:

Place:

Contact/responsible person:

INTRODUCTION

1. What is your name and your role within the municipality?

2. Which are the strengths and weaknesses of:
 - a. Your waste collection and disposal system

 - b. Your taxation scheme

3. Which are the critical success factors for an efficient management of municipal solid waste (MSW)?

4. Which are the most important external variables in a waste management system?

5. (*Only for PAYT municipalities*) How important was the perspective of having better environmental quality when deciding for the introduction of a PAYT scheme?
 - Not important
 - Slightly important
 - Important
 - More than important
 - Very important

6. *(Only for PAYT municipalities)* How important was the perspective of having better financial situation when deciding for the introduction of a PAYT scheme?
 - Not important
 - Slightly important
 - Important
 - More than important
 - Very important

7. *(Only for PAYT municipalities)* How important was the perspective of respecting the federal and cantonal law on environmental protection when deciding for the introduction of a PAYT scheme?
 - Not important
 - Slightly important
 - Important
 - More than important
 - Very important

8. Do you think that the recent decision of the federal tribunal (case Romanel-sur-Lausanne) will have an influence on your current waste management system?

GENERAL INFORMATION ABOUT THE MUNICIPALITY

1. Area (in m²):

2. Population:

3. Foreign population (not Swiss):

4. Average education:

5. Average income:

6. Average age:

7. Average household size:

8. What is the level of environmental awareness in the municipality? (Consider environmental organizations, initiatives and other activities in the municipality)
 - Low
 - Medium
 - High

9. Are there councillors from social or environmental party within the municipal council? If yes in which proportion?

10. Do you collaborate with other municipalities for the management of MSW?

WASTE PRODUCTION

1. Which are the total and per capita quantities of waste produced in the stated years?

| | Quantità di rifiuti prodotti | | | | | |
|-------------|------------------------------|------------|-------|------------|------|------------|
| | 2005 | | 2008 | | 2011 | |
| | Total | Per capita | Total | Per capita | | Per Capita |
| Residual | | | | | | |
| Bulky | | | | | | |
| Recyclable: | | | | | | |
| - Paper | | | | | | |
| - Glass | | | | | | |
| - Metals | | | | | | |
| - Aluminium | | | | | | |
| - PET | | | | | | |
| Organic | | | | | | |

COLLECTION AND TRANSPORTATION OF WASTE

1. How does your collection system works? (e.g. How many levels, kerbside, centralized, Ecopoint, Ecocentre, etc.).
2. Do you manage directly the MSW collection or this is given in outsourcing? If given in outsourcing please state the proportion.
3. *(Only for PAYT municipalities)* Did you modify your MSW collection system after the introduction of the PAYT scheme? If yes explain how.
4. Do you collect waste only from households or also from businesses? Is waste from businesses included within MSW? In case also waste from businesses is collected and included please specify:
 - a. Type of business (sector and size)
 - b. Total number of businesses
 - c. Number of businesses to which the PAYT scheme applies
5. In the quantities of MSW is included also waste coming from public garbage bins?

6. How frequently do you collect MSW? (specify for underground containers, Ecocentre, etc.)

7. Briefly describe what is included within collection costs. Are there relevant differences among types of waste (e.g. bulky, residual, recyclable, etc.)?

8. Which vehicles are used in order to perform MSW collection? If possible specify:
 - a. Number of vehicles

 - b. Type of vehicles

 - c. Kilometres in one year

 - d. Fuel consumption and/or emissions of CO₂

9. What are the maintenance costs related to these vehicles?

10. What are the costs related to the collection of MSW?

| | Collection costs | | | | | |
|-------------|------------------|------------|-------|------------|------|------------|
| | 2005 | | 2008 | | 2011 | |
| | Total | Per capita | Total | Per capita | | Per Capita |
| Residual | | | | | | |
| Bulky | | | | | | |
| Recyclable: | | | | | | |
| - Paper | | | | | | |
| - Glass | | | | | | |
| - Metals | | | | | | |
| - Aluminium | | | | | | |
| - PET | | | | | | |
| Organic | | | | | | |

11. Do you have profits coming from recyclable materials? If yes specify the price (CHF/ton) for each material.

| Profits from recyclable materials | | | |
|-----------------------------------|------|------|------|
| | 2005 | 2008 | 2011 |
| Paper | | | |
| Glass | | | |
| Metals | | | |
| Aluminium | | | |
| PET | | | |
| Others | | | |

WASTE DISPOSAL

1. Where do you dispose MSW? If more than one place please specify which type of waste, where and the relative quantities.

2. Briefly describe what is included within disposal costs. Are there relevant differences among types of waste (e.g. bulky, residual, recyclable, etc.)?

3. What are the costs related to MSW disposal?

| | Disposal costs | | | | | |
|-------------|----------------|------------|-------|------------|------|------------|
| | 2005 | | 2008 | | 2011 | |
| | Total | Per capita | Total | Per capita | | Per Capita |
| Residual | | | | | | |
| Bulky | | | | | | |
| Recyclable: | | | | | | |
| - Paper | | | | | | |
| - Glass | | | | | | |
| - Metals | | | | | | |
| - Aluminium | | | | | | |
| - PET | | | | | | |
| Organic | | | | | | |

4. Are there additional costs related to MSW management that have not been included in the previous tables? If yes please specify them for the following years:
 - a. 2005
 - b. 2008
 - c. 2011

OTHER INCENTIVES TO SEPARATION AND RECYCLING

1. Do you have parallel programs which aim to incentivise separation and recycling at households' level?
 - a. If yes specify which program(s) and the related costs

2. Do you have Ecopoints or Ecocentres? If yes specify:
 - a. Number of Ecopoints and Ecocentres
 - b. Management costs of these

OTHER COSTS

1. If not included previously, what are the administrative, management and maintenance costs related to MSW management?.
 - a. These costs include costs related to illegal dumping or waste tourism?

2. *(Only for PAYT municipalities)* Did you perceive an increase in administrative, management and maintenance costs after the introduction of the PAYT scheme? If yes specify these costs and years.
3. Do you have other costs related to rising households' awareness regarding separation and recycling? If yes specify these costs.
4. *(Only for PAYT municipalities)* Did you have costs for informing or rising households' awareness after the introduction of the PAYT scheme? If yes specify these costs.

SOCIAL ASPECTS

1. Did you have problems with large families with babies, low income or elders related to the PAYT scheme (e.g. Not being able to sustain disposal costs due to large quantities of diapers, etc.)?
2. Did you adopted ad-hoc solutions or other type of subsidies to help households with problems in paying for waste disposal? If yes specify how many families received these type of subsidies.

ILLEGAL DUMPING AND WASTE TOURISM

1. Did you experience problems related to illegal dumping or waste tourism? If yes please specify the situation, place, frequency and measures adopted.
2. Do you have an idea of the extension of the problem?

Waste tourism

1. *(Only for PAYT municipalities)* Did you experience a reduction in quantities of MSW disposed in some areas of the municipality after the introduction of the PAYT scheme?
2. *(Only for non-PAYT municipalities)* Did you experience an increase in quantities of MSW disposed in some areas of the municipality after neighbouring municipalities introduced a PAYT scheme?

Illegal dumping

1. Did you experience problems related to illegal dumping of MSW (e.g. burned n fireplaces, dumped in woods or other public spaces)? If yes explain the situation, frequency, etc.

2. *(Only for PAYT municipalities)* Have you noticed and increase in illegal dumping after the introduction of a PAYT scheme?
3. Do you have costs related to clean up, restore, surveillance or others related to illegal dumping? If yes please state the amount of these costs and if these have been already included or not in the above questions.
 - a. Have you noticed an increase in costs and/or frequency related to these episodes?
4. Have you adopted enforcement policies or other type of measures related to illegal dumping?
5. Did you have costs related to rising households' awareness related to illegal dumping?

REMARKS