



# 2. PLANIFICATION AND STRATEGY

# 2.1. COMMUNICATION PLAN

Before carrying out any communication action, a **communication plan** must be designed, which will guide the development of the awareness campaign. This plan should include the following aspects:

- · Diagnosis and objectives
- Target audience
- Message and image
- Moments to communicate

#### 2.1.1. DIAGNOSIS AND OBJECTIVES

Initially, it is necessary to analyse and understand the service for which this communication plan will be carried out: what is it, how it works, who participates in it, strengths, weaknesses, etc. Once we completely understand the service, the **objectives of the campaign** can be set, which might be:

	Specific: they must define how, when, who, etc.
$\mathbf{I}$	Measurables: they must be able to be quantified.
T	Relevant: they must be significant.
	Achievable: they must be realistic, based on the starting point and similar to previous experiences.
	Scheduled: they must be framed in a period, establishing how long should take to achieve this goal.

The objectives will allow the creation of campaign tracking indicators.

Being clear about why to communicate and what to achieve is essential to focus on the message and actions.

# 2.1.2. TARGET AUDIENCE

To be able to achieve the previously set goals, the message and/or channel must be adapted to the target audience. Therefore, it is necessary to be able to define who the target of the communicative action is.

In communication on waste collection services, we can start establishing target categories according to the kind of user, such as household and commercial activities. These categories may present subcategories, such as detached (or semi-detached) and non-detached households when implementing a door-to-door collection scheme.





Within the established categories and subcategories, we may find a great variety of profiles. In many cases, it is impossible to analyze all the profiles (age, sex, nationality, culture, interests, etc.), although it is necessary a careful analysis and to extract those profiles that will require a higher communicative effort. This will allow us to know which communication channels will be best suited to the campaign.

#### 2.1.3. MESSAGE AND IMAGE

Once the object of the communication is known, as well as the objectives of the campaign and the target audience, we can create the message or slogan and the image of the campaign. In addition, when communicating, it is necessary to keep in mind that the message must comply with the following premises: rigor, transparency, and clarity.

Therefore, we need to communicate **precisely**, avoiding ambiguities, and using the appropriate words and concepts, for instance, using the concepts *selective waste collection* and *waste recycling* correctly. We also need to communicate **clearly and concisely**, so then the message could be correctly interpreted by the target audience, and **transparently**, to avoid misunderstandings and possible future frustrations, for instance, when implementing user identification systems, making it clear that a PAYT scheme will also be implemented in the short or medium term.

It should be noted that citizens will be more involved if we get to convey emotions in our message.

The image of the campaign will allow us to transmit in a more visual and direct way. This image should be common in all logistic (bins, containers, cards, trucks, etc.) and communication materials (leaflets, pamphlets, magnets, posters, etc.). When designing the communication materials, easy to read graphics are recommended. For instance, when implementing a PAYT scheme, graphic simulations of the final amount of the new waste charge will offer a clear message to citizens, which is that the ones producing less waste will pay less with the new waste charge.

# 2.1.4. MOMENTS TO COMMUNICATE

Communication actions may be taken in different stages of the implementation, differentiating:

When designing the new waste collection system
When implementing the new waste collection system
When implementing a PAYT system
When the new waste collection system is already implemented

## 2.1.4.1. WHEN DESIGNING THE NEW WASTE COLLECTION SYSTEM

A key aspect to consider when changing the waste collection system, as well as when implementing a KAYT scheme, is the user's acceptance of the system. For this reason, before implementing the new collection system and conducting the communication campaign, a participation process is recommended.

This process provides useful information to the Administration on the citizens' needs in regard to waste collection, in addition to receive inputs from the citizens that may help to design a waste charge that





could be mostly accepted by everyone (among the alternatives proposed by the local authority, all of them validated by technicians and politicians, user may give their opinion about taxable fractions, solutions for scattered households, emergency areas, etc.).

In the case of KAYT schemes, citizens could be asked about which personalized information they would like to receive, or about any other doubts they might have.

This participation could take place in two different moments of the new system definition or implementation process, being conducted in any of them or in both:

Diagnosis phase: is proposed to publicize the current model of waste collection and to collect
the weaknesses and strengths of the system.

Proposal phase: aims to discuss on the new model, and to get a return to redefine some aspects of the proposed model.

Finally, a return phase is proposed to complete the process, and to set out the conclusions and proposals that will be incorporated into the new system.

## 2.1.4.2. WHEN IMPLEMENTING THE NEW WASTE COLLECTION SYSTEM

The implementation of a new waste collection system or a new economic instrument, such a PAYT scheme, requires a communication campaign to transmit how it works. Some of the aspects to consider are:

Dialogue with residents should be an interactive process in which there is a flow of information
to let people know about the changes brought about by the new system, to respond to
questions, and to receive contributions. A physical or telephone information point is also
recommended.

Information should be provided on the environmental, economic, and social impacts of waste management, giving convincing arguments so then the citizens can understand the change.

## 2.1.4.3. WHEN IMPLEMENTING A PAYT SYSTEM

In the specific case of implementing a PAYT system, it should be noted that:

Users should not associate the implementation of the PAYT system with an increase in the
waste charge. Therefore, the calculation of the charges must be transparent. In must be
highlighted that, in Spain, the new waste law 7/2022 requires the self-financing of waste
collection systems. Therefore, if it is necessary to increase the waste charge, it is
recommended to increase it before or after implementing the PAYT system, but not at the
same time.

The reasons why a charge is imposed on some fractions and not on others and the amounts
for each fraction should be clearly explained.

It should be stressed that the new system is fairer, as it applies the 'polluter pays' principle and residents could reduce the amount they pay reducing waste or improving separate collection.





Some pay-as-you-throw systems could be considered an added cost for residents who do not currently pay a charge, like most renters.

These aspects are also applicable to the time a pilot test is conducted before the definitive implementation of a waste collection system or waste charge.

As previously mentioned, at least two kinds of users should users should be distinguished: household and commercial activities. It will be necessary to carry out a communicative task specifically aimed at commercial and industrial activities, and if necessary, at those with a relevant waste production.

When communicating about the new waste collection or PAYT system, the message should be adapted to the different realities found in the municipality. That is, within a municipality, there might be different solutions depending on the area: door-to-door, containers with user identification, and emergency areas. Then, calculations of the charges might be different depending on the area and, consequently, the information should be adapted to each reality.

The communication campaign should be started one or two months before implementation, but not any earlier, otherwise its impact will be diminished. It should continue until implementation begins.

#### 2.1.4.4. WHEN THE NEW WASTE COLLECTION SYSTEM IS ALREADY IMPLEMENTED

Once the new waste collection system is implemented, it is important to keep the communication channels to maintain a high level of participation by monitoring performance, resolving unforeseen problems, and disseminating results. In the first few weeks of system operation, incidents detected during waste collection should be monitored on a daily basis (for example, waste that is disposed of incorrectly). This process should consist of monitoring the garbage trucks' collection, gathering, and dealing with users' complaints, and analysing data (the number of bags and bins collected, the correct and incorrect units, the weight of the different fractions, etc.).

As part of this process, it may be effective to visit commercial activities and households that are not participating in the model. If behaviours not permitted by the ordinance are detected, the offender should be informed and notified that a penalty will be applied if the infraction is repeated.

In general, a four-month monitoring period is proposed from the time of implementation, whose intensity will decrease progressively.

In addition, residents should be periodically informed of the results achieved with the new system (In the following section, the most important communication channels and instruments are detailed). The dissemination of results should stress the benefits of implementing the new system, including a reduction of waste sent to landfill or to the incinerator and an increase in recycling. The monitoring of illegal waste disposal should also be publicised. At the same time, it is also important to run awareness campaigns about the environmental and economic advantages of waste selection.

# 2.2. CHANELS, INSTRUMENTS AND CONTENTS

As previously exposed, communication campaigns are composed by actions, which are carried out by means of instruments, and they get to the citizens by means of communication channels. He the main typologies are described:





#### 2.2.1. CHANNELS

#### 2.2.1.1. IN-PERSON

In-person channels are those which require that both the sender and the receiver of the message share the same time and place, and the message is transmitted by means of the speech of the information staff to the audience. In case any specific material (bins, cards, bags, etc.) needs to be delivered, as it may be the case for waste collection systems with individualization and user's identification, the communication message could be transmitted at the same time.

The time and place of communication actions should be adapted to the target audience. It is recommended to undertake previous dissemination of the actions. Besides, the proactive and enthusiastic attitude of the information staff is essential to achieve the communication goals.

The main in-person communication tools are described below, which may be used complementarily to effectively transmit the different messages to different recipients.

#### Informative or awareness sessions

The informative sessions may be open to all citizens or they may be restricted to some specific groups, such as commercial activities, associations, etc.

The session content will depend on its purpose. It is recommended that they do not last more than 1 hour, including a time for citizens to ask questions and share their reflexions. During these sessions, slide presentations are usually used to help framing the information and making the session more visual.

Attendance may be with or without previous registration, depending on the purpose of the session. If necessary, contact details could be asked to people attending.

# Information points

Information points allow to transmit messages in a more individualized and agile way to citizens visiting them.

The location and the schedule may be chosen to coincide with times of high influx of citizens, such as permanent or periodic markets. This way, information arrives to someone without any need that he or she modifies his/her routines. The target audience in this sort of information points are ordinary citizens.

# Door-to-door communication

It consists of visiting households, commercial activities, and/or large-scale waste generators to transmit individualized messages. The main advantage is that it allows to get the message across more people, although these actions entail a higher dedication, so their cost is also higher.

## Attention office

In case of implementing systems involving an important change of citizens habits, as well as needing to deliver materials, such as bins when implementing a door-to-door system, the option of creating a





permanent space for solving doubts and delivering materials must be considered, particularly during the first months of the new system.

#### Other

In addition to the main tools mentioned above, other in-person communication tools are workshops for schools or citizens, and cultural shows or events.

#### 2.2.1.2. VIRTUAL

The digitalization of information in virtual channels allows for a lower use of raw materials, by means of less paper and printing ink, as well as a reduction in the emission of polluting gases, by avoiding movements taking place in in-person acts. During the pandemic period, in which attendance has been restricted, the use of virtual tools and channels has been an alternative to more traditional actions. However, it is important to keep in mind the existing digital divide, so it is not recommended to exclusively use virtual channels if the aim is to get the message across the entire population.

Virtual communication channels may be used as a complement of in-person ones, to reach as many people as possible.

These include channels that allow two-way communication between the local authority and the public: mobile applications, social media, messaging systems and information phone numbers. On the other hand, websites and municipal media (radio and TV) are channels that allow one-way communication, from the local authority to citizens. These are described below:

# Websites and information materials

As a communicative tools, websites on waste collection are mostly **unidirectional channels** usually configured as a section within an official local government website, although specific websites may be launched when implementing new waste collection schemes or PAYT/KAYT systems.

Local authorities mainly use them to disseminate all the essential information related to the local services:

Waste collection schedules:
 Households
 Commercial activities
 Scattered households

Waste disposal system

Complementary services

Information for a correct separation of waste at home

News and information on changes and new features

In addition, these websites may be also used to disseminate of the results on selective waste collection and waste prevention, as well as discounts on the waste charge and other economic incentives.





In case of implementing new waste collection systems, as door-to-door or containers with user identification systems, websites are essential communication channels, complementing in-person communication actions (meetings, information points, door-to-door communications, etc.).

## Mobile Apps

Mobile apps are **bidirectional communication tools** between users and the local authority offering the waste collection service. Their main features are:

General information on the waste collection service:

Waste collection schedules

Services available and specific collections for some fractions

Recycling and waste prevention: results on selective waste collection

Information on the calculation of the charges

Alerts and notifications from the local government

User's information. By logging in, users may:

Consult information on their participation: waste disposal records over time, trends, statistics, graphs, etc.

Obtain their own indicators on waste collection

Consult their bills, in municipalities where there is a waste charge

- Identification. In case of containers with user identification systems via Mobile phone, the App allows identifying user's waste disposals in the containers
- Incidences. The App allows notifying incidences related to door-to-door systems in a bidirectional way:
  - From the user to the local government. For instance, incidents related on the street cleaning and waste collection services, such as when the waste has not been collected, the bin is broken, or it has disappeared.
  - From the local government to users. For instance, sending notifications on incidences or bad practices on waste disposal.

Contracting specific services. The App lets users to apply for specific services:

- Waste collection services (bulky waste, garden waste...)
- Reuse of bulky waste. Through the App, the user may know which items are available and may express interest for them.

Discounts in the waste charge and other incentives. Through the App, users may:

- Receive notifications and discounts depending on their participation on the selective waste collection.
- Receive awards and benefits depending on their participation on the selective waste collection. For instance, users may get virtual discount vouchers.

#### Social media





Social media are virtual platforms that allow interactions between users, so they allow a **bidirectional communication** between the administration and citizens:

On the one hand, the administration, by means of social platforms such as Twitter, Facebook, Instagram, etc., may:

- Inform about events, meetings, workshops, etc.
- Disseminate results about separate waste collection and waste prevention
- Carry out an environmental awareness task
- Carry out communication campaigns on new waste collection or PAYT systems.

On the other hand, citizens may have the chance to give their opinion. Thus, social media promote citizens' participation.

When implementing new waste collection or PAYT systems, they may be used as a thermometer or indicator of public opinion.

# Direct and personalized information through messaging systems

Direct messaging systems such as WhatsApp, SMS, email, or Telegram may be convenient as communication and consulting channels, since they allow very direct, close and **bidirectional** communication.

# Information phone number

It is also important to have a direct telephone channel to solve questions about the service, especially for those who do not have access to or are not used to new technologies. Therefore, it is necessary to offer a mobile or landline phone for inquiries, as well as a voicemail service to take note of the inquiry and the contact details to call the user back.

# Virtual meetings

During the Covid-19 pandemic period, virtual communication channels were key to keep on communicating, informing, and raising awareness. Thanks to these channels, meetings were expedited easily, while they saved resources and allowed to reduce the emissions of polluting gases.

Therefore, they have become a key tool for communication, complementary to the face-to-face meetings.

# Local media - Radio and TV

Most municipalities have their own or supramunicipal media. These channels are very convenient for broadcasting short videos and ads to inform about the new service.

On the other hand, these media may offer direct information in case press conferences are held, as well as preparing news about the campaign or the new service.

# 2.2.2. INSTRUMENTS

2.2.2.1. MATERIALS





Communicative materials allow citizens to have the necessary information, which they can consult whenever they want. There are several ways in which these materials can be made available to the public: delivery in in-person events, shipments, making them available at important gatherings, etc.

In general, a communicative material must include the following information:

	Objectives and established argument
	Useful information about how the system works
	Actions to be carried out as part of the campaign
informatio	oned in 2.1.3 section, materials should include graphs or other visual means to highlight the on. Normally, this material is divided into two parts: one for general information and one for cific information, which clearly explains all aspects of the new system, including:
	The service schedule and information about the collection method
	The types of services provided
	The payment options
	The ways of acquiring the required items (bins, bags, and ID cards, among others)
	Practical examples of how to calculate the charge, with clear explanations of the calculation method so that everyone can apply it to their case.
	The sanctions that are envisaged in case of non-compliance.
	e different kinds of communicative materials, of different extent, and each one will be used to the main objective of the action being carried out:
•	Brochure or information leaflet. Brief item with basic information about the new charge or
	service.
•	Institutional information letter. Letter, nominal or not, which usually kicks off the communications campaign.
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İ	Institutional information letter. Letter, nominal or not, which usually kicks off the communications campaign.  Magazine or guide. Larger format element that allows to delve deeper into the subject, such
 	Institutional information letter. Letter, nominal or not, which usually kicks off the communications campaign.  Magazine or guide. Larger format element that allows to delve deeper into the subject, such as justifying the change to a new charge, showing simulations, etc.

All communicative materials will use the same image campaign, thus achieving a greater display effect. In addition, it must be considered that elements for the provision or use of the service can become





communicative elements as well. Thus, materials used while providing the service (bins, containers, bags, trucks, etc.) may include information about the service or the campaign image.

# 2.2.2.2. GAMIFICATION

Gamification techniques use elements and principles of gaming to create an engaging learning experience or to raise awareness about a specific topic. Gamification provides immediate positive feedback to users in a way that reinforces them to continue to maintain proper selective collection habits. It may be individual or collective, and it may use digital platforms or in-person resources.

These games end up creating behaviour changes and creating a benefit for both parties.

An example of gamification is the system of accumulating points applied by some supermarkets or gas stations, with which prizes or compensations are obtained. These systems create changes in customer behaviour and habits to achieve compensation.

This tool may be used for developing environmental policies, to encourage citizens to carry out good environmental practices. In the case of waste, citizens can be rewarded if they undertake best practices. Waste collection systems with user identification facilitate the application of gamification techniques, as they provide crucial information about the use of the service of each user.

To implement gamification techniques associated with proper waste management, the following questions must first be answered:

Which are the practices to be rewarded through gamification?

For instance, a proper use of containers, the use of waste collection centres, a proper waste separation, waste prevention practices, etc.

How the practices to be awarded are quantified?

User identification in waste collection systems allow to answer this question.

For instance, number of uses of selective or residual waste containers, number of visits at waste collection centres, etc.

Individual or collective gamification?

Rewards could be stablished depending on individual information availability.

How do we translate best practices into points? What do we offer in return to these points?

It is important to launch a platform that allows citizens to follow the process, to be able to consult the points obtained and the exchangeable goods.

Two experiences of applying gamification in different European cities are exposed below:

# WASTE4THINK. CASCAIS (PORTUGAL)

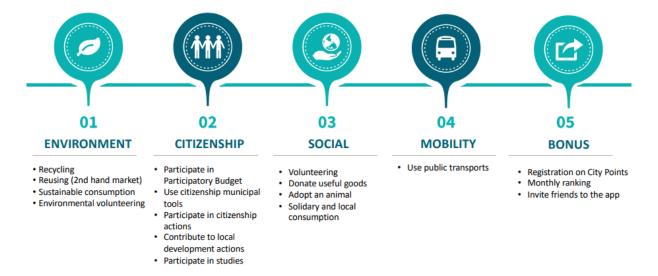
Aiming at promoting best practices among citizens and rewarding people whose actions are an active contribution to local sustainability, the city of Cascais has implemented the CITY OF POINTS project.





The innovative App CITY POINTS CASCAIS allows citizens to gather points by accomplishing some predefined actions. A certain number of points can later be exchanged for vouchers for goods or services provided for different organizations or municipality services.

Some examples of actions that allow gathering points are showed below:



Citizens can also get collective awards, in appreciation for the best practices undertaken, which are invested in neighbourhood improvement.

# MOU-TE PEL RESIDU ZERO. MANLLEU (CATALONIA)

Manlleu City Council promotes "Move for Zero Waste!", a campaign to promote waste reduction and to promote local shopping, by means of inclusive gamification.

Citizens must overcome different challenges, which allow them to get prizes and discounts. In this way, the role of citizens towards a more sustainable and cohesive society is promoted through:

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1	Environmental education. activities and challenges propose sustainable habits
	Waste reduction: challenges promote waste prevention and reduction
	Promoting local shopping: strengthening collaboration between citizens and commercial activities
	Inclusive gamification: participation open to all through new technologies or the information leaflet.







# 2.2.3. DEFINITION OF CONTENTS

The adequacy of different instruments will be determined by the aspects established during the communication plan development (section 2.1). Each content, as well as its communication channel (a picture, a tweet, a roll-up, etc.), will be aimed at a target audience. Both message and objectives established in the communication plan should be adapted to the specific target audience and the used channels.

The created content must accomplish the following premises:

- It must be quality content
  - It must be interesting for the target audience
- It must be helpful in achieving the campaign goals
- It must be entertaining
- It must be able to capture the attention of the citizens and make them participate

Any content will need to be scheduled according to the communication channel that will be used.