

pre-waste



Monitoring waste prevention actions

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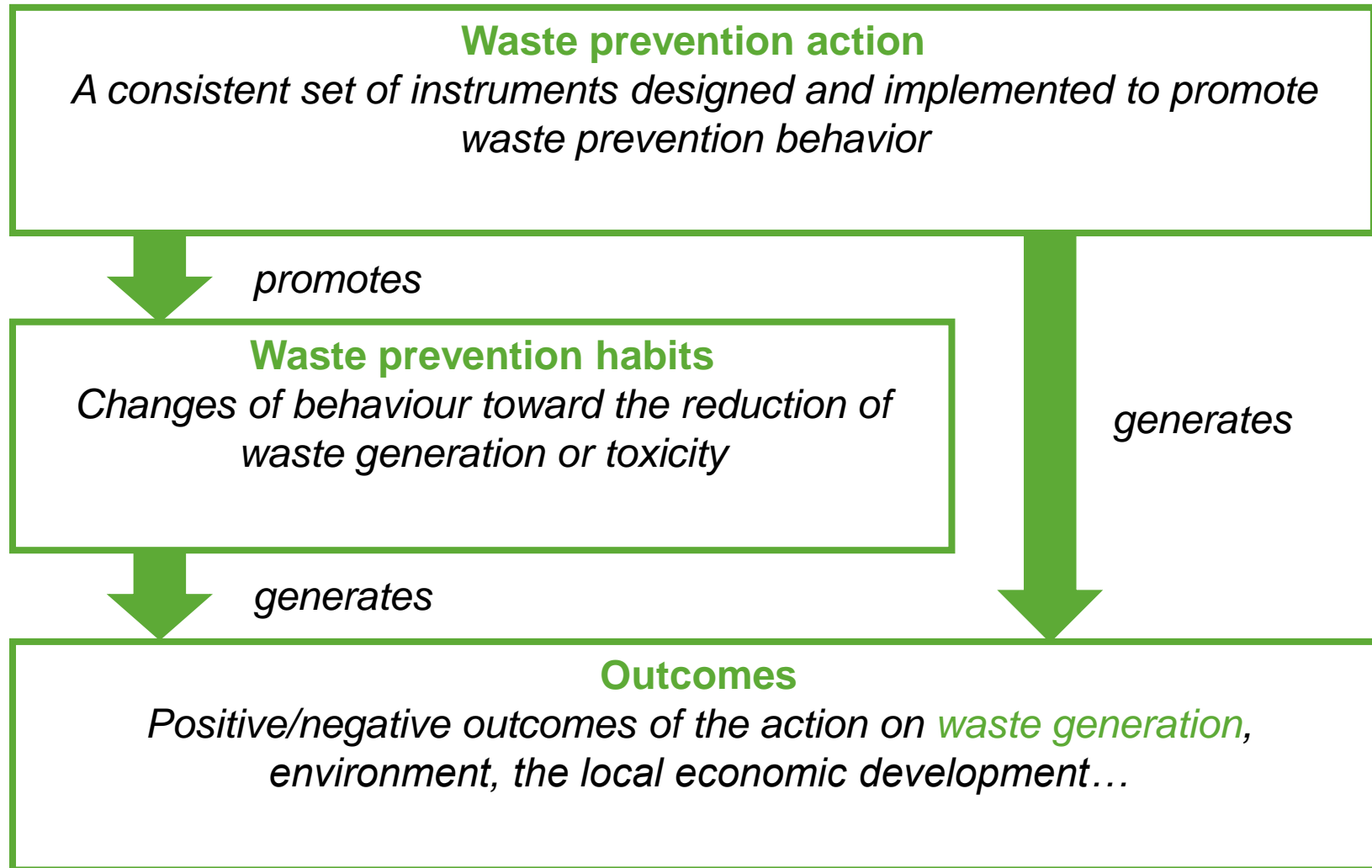
Monitoring waste prevention

- Need to assess the **efficiency** of the **policies...**
- ...Yet, some **difficulties**:
 - Assessment of something that **cannot be measured** (waste that is not generated)
 - Monitoring **changes of behaviour?**
 - **Heterogeneity** of waste prevention actions

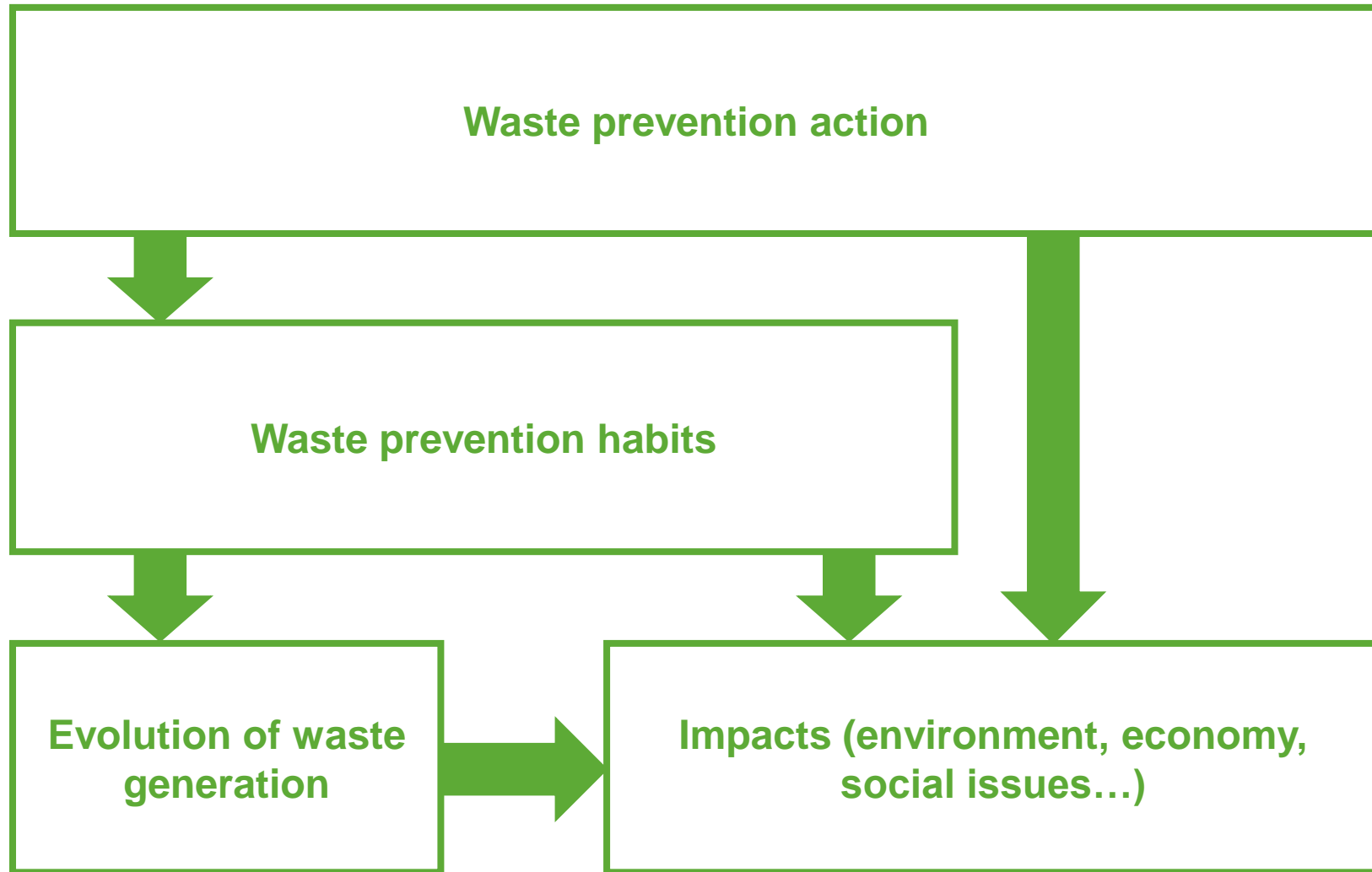
Prewaste indicators

- Main objectives:
 - Define a **general framework**
 - Identify several **methods** for their calculation
 - Practical application: **webtool**
- Scope:
 - Focus on waste prevention **actions**
 - As **exhaustive** as possible
 - Main purpose: monitoring the activities

Waste prevention: diagram



Waste prevention: diagram



Waste prevention: example

Awareness campaign on food waste

- General communication campaign raising awareness
- Direct communication activities with distribution of toolkits and advices for cooking/preserving/reusing food

Waste prevention habits

- Cooking the scraps for new recipes
- Using shopping lists to avoid waste
- Knowing and using technics to store and preserve food
- Knowing sell-by date and eat-by date...

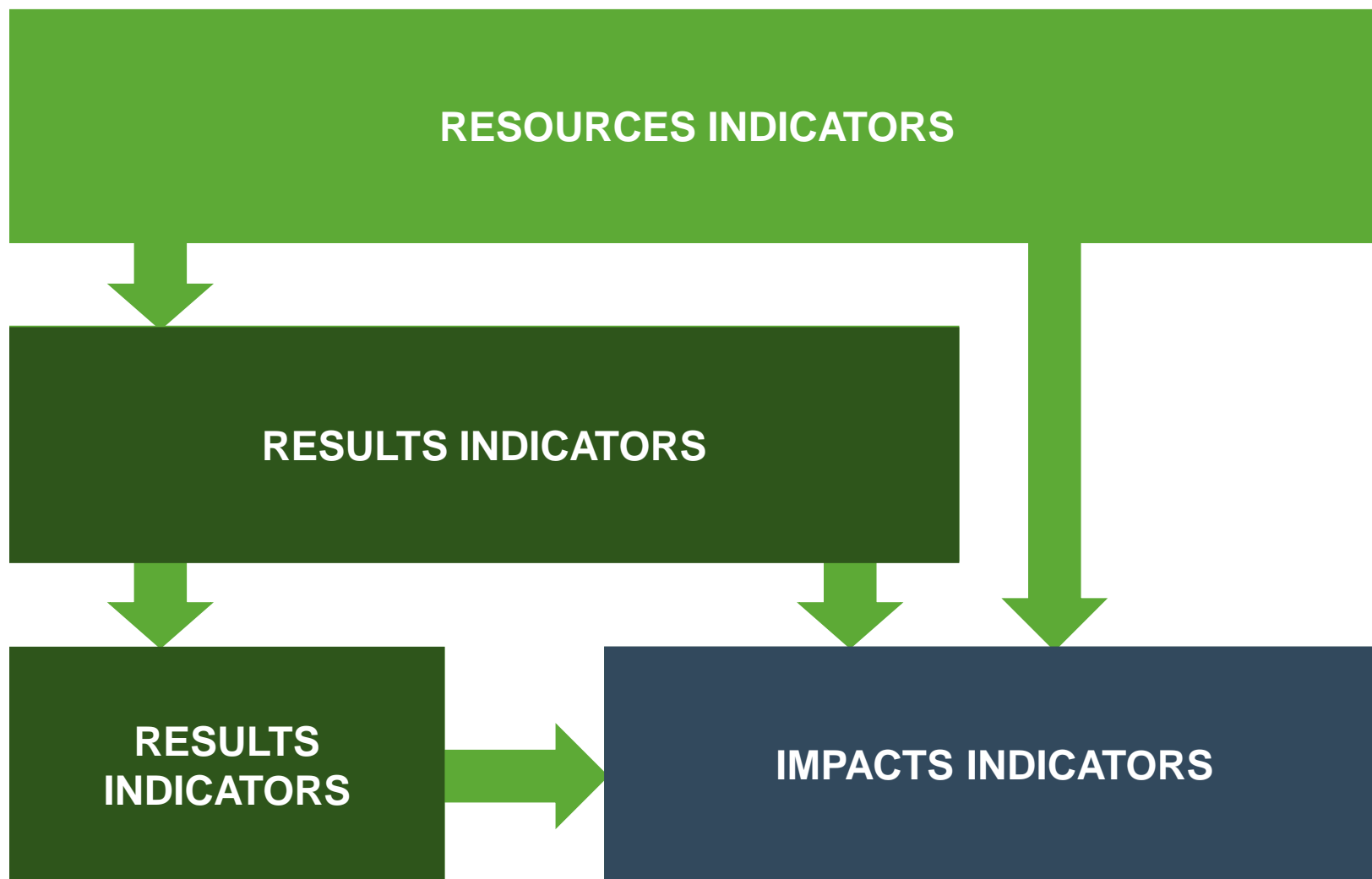
Evolution of waste generation

- Avoided food waste quantities
- Reduction of biowaste (or untouched food) in residual waste

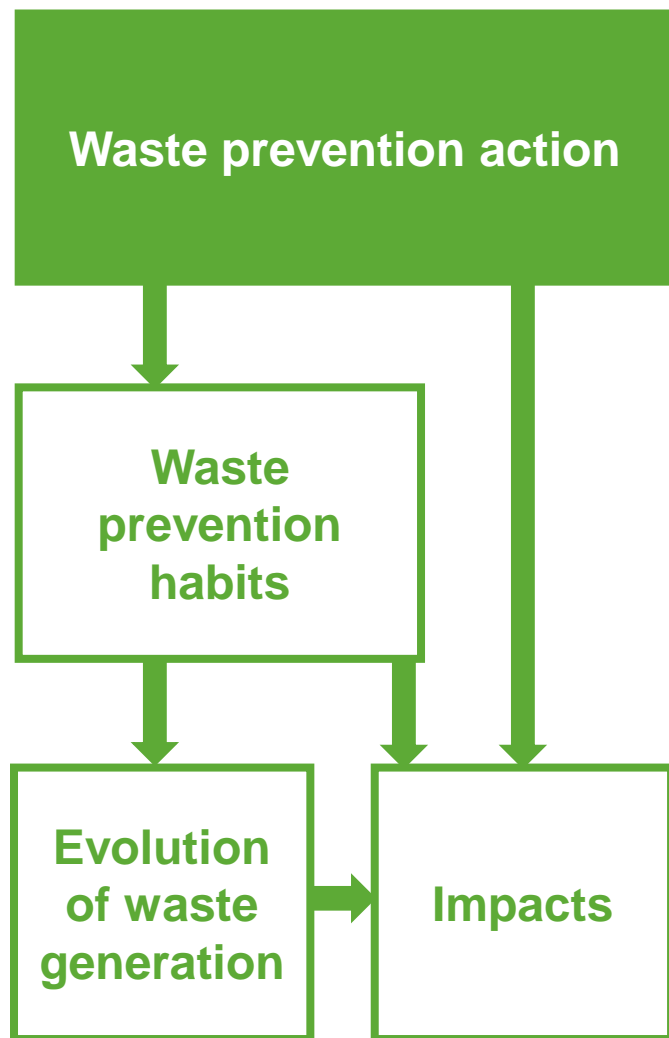
Impacts

Environmental balance: **impact generated by the production/distribution of communication tools** vs. **Impact avoided thanks to the decrease of waste** + **thanks to the food not wasted**

Waste prevention: diagram



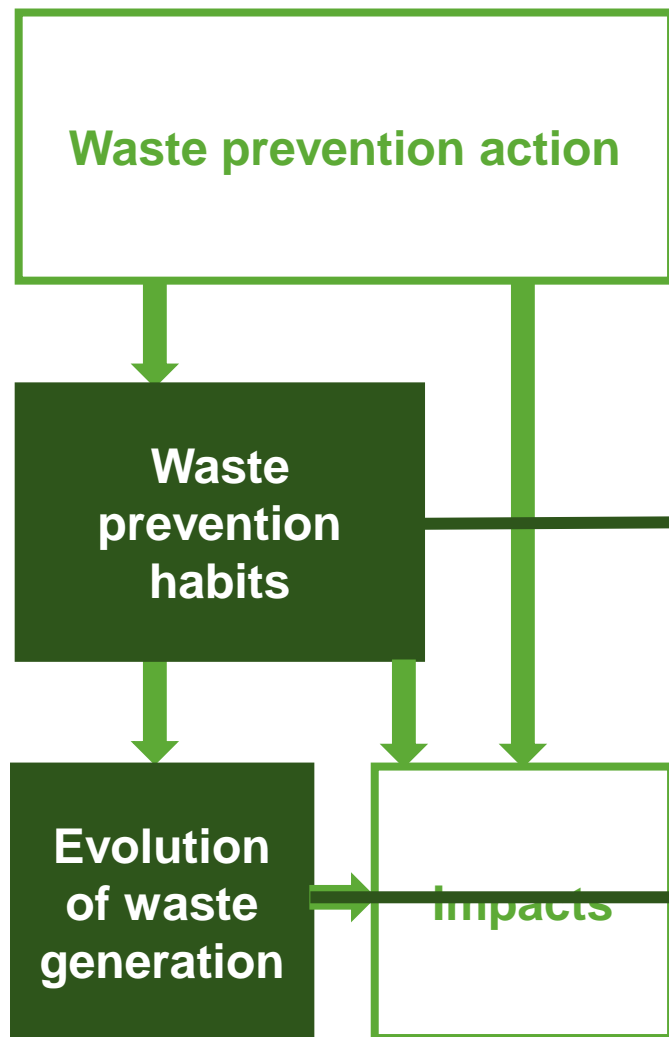
Prewaste indicators



Resources indicators

- Monitoring the instruments in use for the action
- 4 sub categories:
 - Financial resources
 - Staff
 - Communication
 - Equipment in use

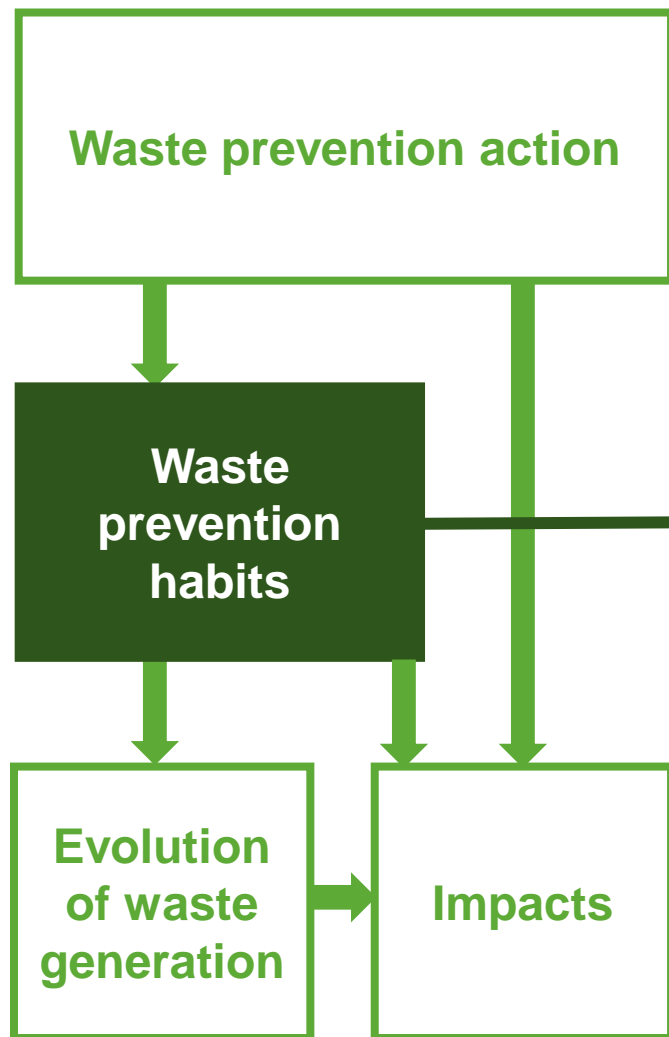
Prewaste indicators



Results indicators

- Monitoring the instruments in use for the action
- 2 sub categories:
 - Change of behaviour
 - Evolution of waste generation
- Many possibilities / also depends on the targets set for the action

Prewaste indicators

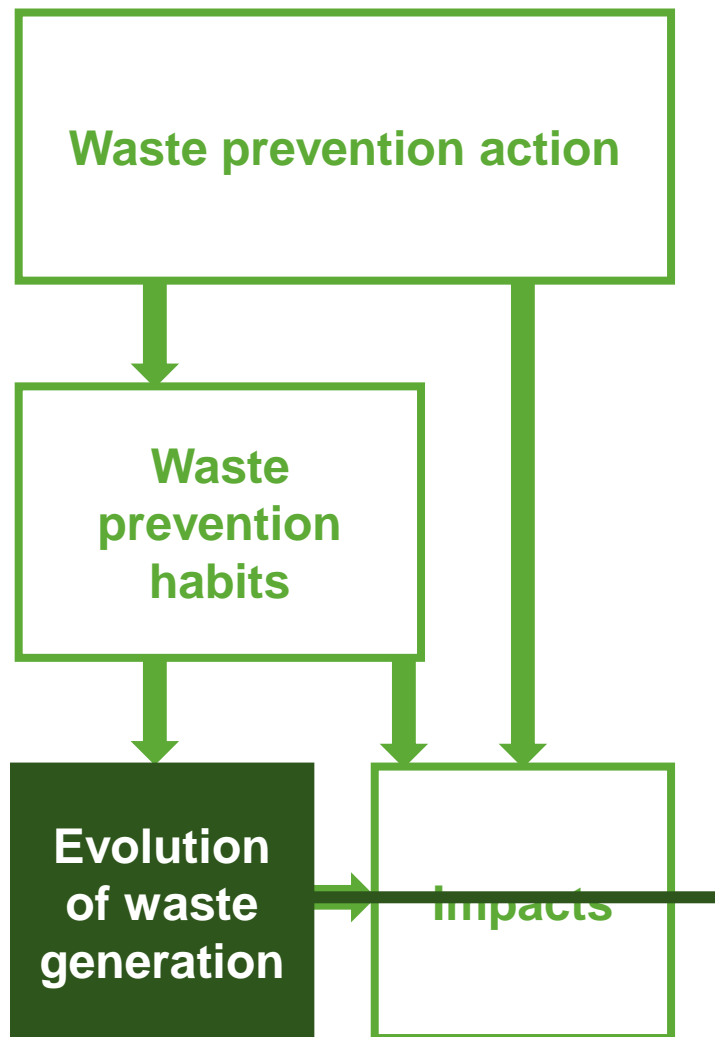


Results indicators – Change of behaviour

- Monitoring the habits undertaken by participants
- 3 sub categories:
 - Awareness
 - Active participation
 - “Activities”: evolution of sales for eco-friendly products, evolution of operations in repair shops...

! Initial participation

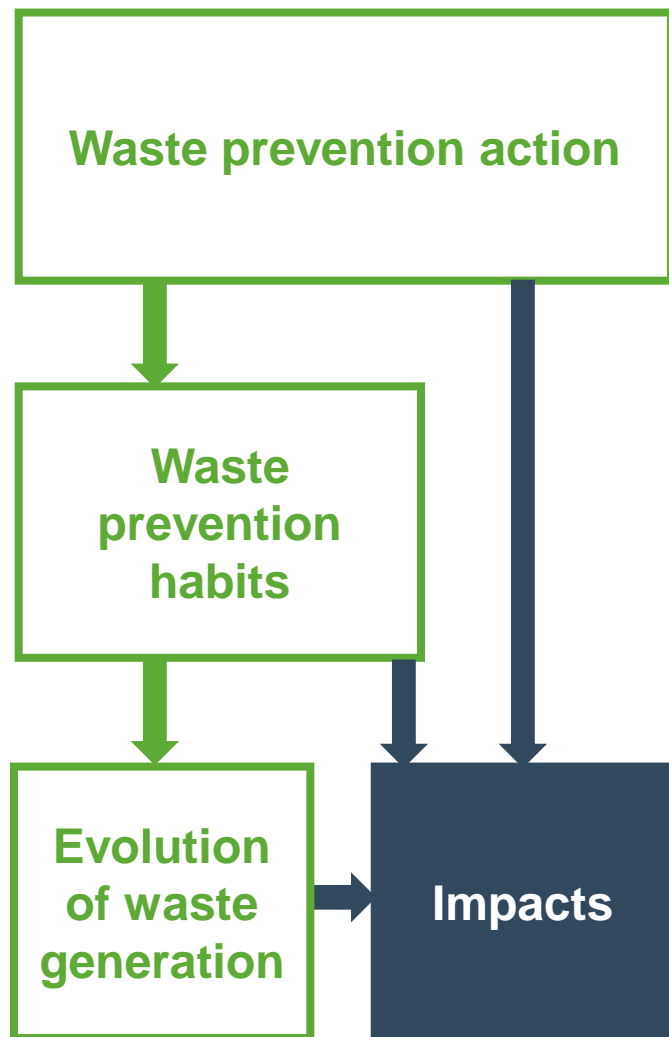
Prewaste indicators



Results indicators – Evolution of waste generation

- Assess the “avoided quantities”
- 3 main methods:
 - Direct measurement: weighing “diverted waste” (second hand goods, composted biowaste...)
 - Composition analysis before/after the action
 - [number of participants] x [average avoided quantities]
- + / - for every method / combination?

Prewaste indicators



Impacts indicators

- Going “beyond waste quantities” ...
- ...but often more complicated
- Diverse possibilities
 - Financial balance (for the project leader, for the participant...)
 - Environmental balance
 - Social issues: job created, number of people back on the labour market...
- Method:
 - Impact/cost of the action
 - Balance of the change of behaviour (before/after)
 - Avoided cost/impact linked to “less waste”

Prewaste Webtool

- The idea: making the framework **more practical**
- Main input:
 - Adaptation of the general method to **more specific actions** (home composting, promotion of reusable nappies...)
 - Give **guidelines**, existing **ratios or benchmarking** elements to build indicators
- Two parts:
 - Diagnosis
 - Monitoring

Prewaste Webtool

DIAGNOSIS

Aim: assess the potential of one given type of action

2 parts:

- Specific method and guidelines
- Calculation tool

Principle: assess potential participation, avoided quantities and CO2 impact with:

- Target population
- Instruments and external factors
- Waste generation

MONITORING

Aim: provide guidance to monitor the efficiency of the action

2 parts:

- Specific method and guidelines
- Calculation tool

Principle: assist the user with the calculation of costs, participations, avoided quantities and avoided CO2 impacts

Prewaste Webtool

- Available as a « beta version »
- Elaboration in progress till the end of 2012:
 - Overall organisation and presentation
 - Accessibility
 - Content



SIMULATIONS

Insertion

Search

Modification

Simulation

Project

Home composting test1

Action

Home Composting

Target





SIMULATIONS

Simulation

Project

Home composting test1

Action

Home Composting

Target

Households

Diagnosis
Methods

Section 1

Section 2

Section 3

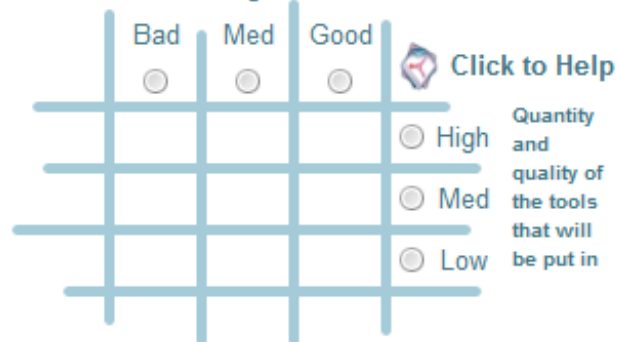
Section 4

Section 5

Section 6

Assessment of potential participation

Framework in relation to the presence of
success / limiting factors



% potential participation

40,00%

potential participation (n. hab.)

960.000

new potential participation (n. hab.)

840.000

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Next



SIMULATIONS

[+ Insertion](#) [Search](#) [Modification](#)

Simulation

Project

Home composting test1

Action

Home Composting

Target

Households

Diagnosis
Methods

Section 1

Section 2

Section 3

Section 4

Section 5

Section 6

Assessment of environmental impact

reduction of CO2 eq emission
(kg/year) 756.000,00

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Save simulation

Thank you for your attention !

www.prewaste.eu

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