

The Barcelona Challenge for Good Food and Climate

Toolkit guideline

1. The Barcelona Challenge for Good Food and Climate Toolkit

The Barcelona Challenge presents metrics, in the form of a toolkit, to help grasp the positive impacts the commitment to action could entail in practical terms for engaged cities, their residents and the climate. This toolkit can be used to estimate the projected magnitude of the reduction of GHG emissions of the food policies adopted by cities committed to The Barcelona Challenge, based on the current conclusions established in international scientific research. The toolkit also enables the user to estimate other multi-dimensional benefits (socio-ecological benefits and economic returns) of adopting specific actions to deliver healthy and sustainable diets for all.

To obtain an estimation of the projected positive impacts, cities must first introduce the actions they are committed to deploy within the framework of The Barcelona Challenge, and the aspirational general quantitative targets of those actions.

This toolkit does not provide exact figures for a specific context and it cannot be used to compare the ambitions of cities evolving in very different realities. It cannot be seen as a calculator.

The Barcelona Challenge's Toolkit allows cities to trial several times with different targeted inputs before finally committing. Once the city has its final set of actions, has input the overall quantitative target ambition and received an estimate of the resulting benefits, it can upload the City's Official Commitment to the website, filled and signed by the representative of the City Council.

2. The actions

In order to make a commitment to The Barcelona Challenge for Good Food and Climate, cities must implement at least one action under three of the categories (or under the six categories for cities member of the Core Group). Examples of actions that could be implemented can be found in the Challenge's website.

In the table in Annex I of the City's Official Commitment document, cities can include the actions they intend to work on, the chosen categories, the timeframe for each action (2021 to 2030) and the department(s) that will be in charge of implementing those actions.

3. The aspirational quantitative targets

Depending on the categories in which the city is committing to develop actions, several aspirational quantitative target data will be required, as shown in the examples included in the following table 1. Please note: Category 1 - Ensuring an enabling environment for effective action (governance) does not activate any impact "proxies", as it is transversal.

Targeted inputs	For reference: MUFPP's relevant framework of actions' category	General aspirational quantitative targets
n° residents assuming the "Planetary Health Diet"	2. Sustainable diets and nutrition 3. Social and economic equity 5. Food supply and distribution	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will allow 50.000 residents to assume the shift to a "Planetary Health Diet".</i>
n° residents shifting to an organic diet	2. Sustainable diets and nutrition 3. Social and economic equity 4. Food production 5. Food supply and distribution	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will allow 15.000 residents to assume the shift to an organic diet.</i>
n° residents eating food regionally and locally produced	2. Sustainable diets and nutrition 3. Social and economic equity 4. Food production 5. Food supply and distribution	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will allow 10.000 residents to eat food regionally and locally produced.</i>
n° residents shifting to an organic and regionally/locally produced diet	2. Sustainable diets and nutrition 3. Social and economic equity 4. Food production 5. Food supply and distribution	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will allow 8.000 residents to shift to an organic and regionally/locally produced diet.</i>
n° hectares converted to organic farming schemes in the region	2. Sustainable diets and nutrition 3. Social and economic equity 4. Food production 5. Food supply and distribution	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will promote the conversion to organic agriculture of 50.000 ha.</i>
n° of municipal, non-sedentary and farmers markets promoted by the local authority	5. Food supply and distribution	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will promote the establishment of 3 farmers markets.</i>
n° of residents adjusting food intake and assuming food waste reduction options	6. Food waste	<i>e.g. all the food policies developed within the framework of The Barcelona Challenge in our city will allow 250.000 residents to adjust their food intake and assume food waste reduction options.</i>

Table 1. Quantitative target ambition related to MUFPP Framework for Action.

The toolkit estimates the projected benefits of the food policies overall and annually. It means that the toolkit does not allow for the assessment of the positive impacts of a specific action or a set of actions from a single category. It only gives an overview of the expected benefits of the food policies once the quantitative targets the city is aiming for through the actions implemented are introduced.

In order to facilitate the estimation of the overall quantitative target ambition, cities are invited to introduce an assessment of those targets for each action, in the table included in Annex I. Then, cities will be able to evaluate approximately, and for each input, the quantitative ambition of the set of proposed food policies (as shown in table 1). Once the introduction of this data in the toolkit (online) is completed, the estimate of the expected benefits will be obtained.

4. The results

Cities committing to deploy actions in the different categories of The Barcelona Challenge will get an assessment of the following impact parameters.

Impact parameters	Expected annual projected benefits
GHG emissions reduction	(tCO ₂ eq./year)
Public expenditures saved	(US\$/year)
Increased benefits in the region	(US\$/year)
Prevented deaths	(No. /year)
Jobs generated	(No. /year)
Water saved	(m ³ /year)

Table 2. Annual projected benefits of the targeted inputs.

Note that these benefits will be distributed along different territorial and administrative levels, also beyond the city boundaries. The scientific data on which the estimations are based can be consulted on the Methodological notes to The Barcelona Challenge's Toolkit.

Annex I. Summary of the actions to be implemented (2021-2030) by the City Council to address The Barcelona Challenge for Good Food and Climate.

MUFPP's framework of actions' category	Actions	Aspirational quantitative targets (INPUT)	City Department(s) in charge	Timeframe (Beginning-end)
1. Ensuring an enabling environment for effective action (governance)				
2. Sustainable diets and nutrition				
3. Social and economic equity				
4. Food production				
5. Food supply and distribution				
6. Food waste				