**STOCK TAKING OF ACTIONS AND INITIATIVES FOR SUSTAINABLE FOOD SYSTEMS**

**Please fill one form for each initiative reported**

**Name of the Initiative: Zero waste challenge in urban food systems**

* Individual

X Collective

**Respondent**

Name: CHERBUT

Surname:Christine

Email:Christine.cherbut@paris.inra.fr

Organization:INRA

Position:Scientific Director Food, Nutrition, Bioeconomy

Are you responding?

X On behalf on the organization conducting the action/initiative

* As a member of it
* Because you know its existence

**Name of the leading organization:INRA**

**Type of organization:**

* National Authority (e.g. Government),
* Local Authorities
* Intergovernmental Organization
* Civil Society
* Non-governmental organizations
* Primary food producers (e.g. farmers, smallholder farmers, pastoralists, fisherfolk)
* Private Sector (e.g. manufacturer, retailers, industry association, private research, etc)

X Research

* Multistakeholder
* Other:

**Partners** (the case being):

Year of the beginning of the action/ initiative: 2014

The case being, year of end:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Geographical scope of the Initiative** | Local | National | Regional | Global |
| Indicate precisely | X |  | X |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Main Targeted Stage of Food Systems** | Input or service provision | Primary Production | Processing | Distribution | Consumption |
| If appropriate, indicate precisely |  | X | X | X | X |

**Main dimension(s) addressed** (if several of them, please indicate order of priority)

X Environment

X Economic

X Social

X Governance

**Main issue(s) addressed** (if several of them, please indicate order of priority)

* Water
* Soil
* Land
* Air
* Climate change
* Biodiversity (including genetic resources)
* Specific ecosystems, if yes, please precise:

X Food losses and waste (1)

X Energy (4)

X Pollution (3)

* Food consumption (1)

X Consumer behavior (2)

* Nutrition
* Animal welfare
* Fair Trade
* Rural development
* Land use rights
* Gender issues
* Youth issues
* Employment
* Workers rights and safety
* Vulnerable groups
* Poverty alleviation
* Other, please specify...

**Main instruments used** (if several of them, please indicate order of priority)

* Projects
* Regulations

X Policy dialogue (5)

* Capacity development

X Research (2)

X Knowledge dissemination (3)

X Advocacy and awareness raising (4)

X Data collection and sharing (1)

* Training, extension
* Consumer information
* Voluntary standards, labels
* Payment for environmental services
* Other? If so, please specify:

|  |
| --- |
| **Description of the Initiative** (*in less than 10 lines), including, as appropriate elements on size and scale of the initiative*:  Cities currently manage food waste quite inefficiently. The organic compound, despite its high nutriment value, is only to a small extent recycled and returned to farm soil and therefore, does not contribute to closing nutrient cycles and to supporting sustainable food production. Food waste related resource use and environmental pollution can no longer be justified in the context of global warming and increasing pressure on the planet’s limited boundaries. With respect to the increasing urbanization and cities concentrating more than 70% of the future population by 2050, cities have a role to play, but literature so far has only little addressed the food waste issue specifically in urban settings. Objectives of our work are twofold: i) identify high potential socio-technological innovations in food waste prevention and valorization ii) extract research questions contributing to fostering and accompanying cities’ breakthrough strategies towards zero waste sustainable food systems, specific to different urban settings worldwide (covering both industrialized and unindustrialized areas). |
|  |

|  |
| --- |
| **Results:** Based on their expected high impact potential and transposibility, experts have identified socio-technological innovations classified in nine categories.  However, most of the innovative approaches are new, tested small-scale and have not yet been subject of in-depth analysis of performances, forces and drawbacks. Technological and cultural challenges remain to be overcome, for example the analysis of “big data” to support alignment of supply and demand, the mutual share of information and joint planning of food supply, and societal acceptance of new technologies. Overall, data on food waste flows in cities are challenging to obtain. |

|  |
| --- |
| **References** ( *Literature, web site, reports, etc):* |