



GUIDELINES FOR THE MONITORING SYSTEM OF THE LIFE FOSTER PROJECT (C1¹ AND C2²)

Ex ante phase and the next ones

The monitoring system for the reduction of the amount of the food waste generated by each VET center will be implemented through the use of the **Food Flow Balance (FfB)**, that right now works as an excel data collection file that monitor the food waste production during 3 key moments/station (1. From purchasing to storage, 2. From storage to the food processing in the vet kitchen laboratories and 3. From the kitchen laboratories to the final consumption.)

The rationale of the monitoring activities is explained in the document **“Method for food waste quantification of possible benefit that the project LIFE FOSTER will use”**. Here UNISG has tried to collect and explain all the reasonings related to necessity of measure food waste and quantify the environmental, social and economic costs. In the document, you can also find a description of the underlying logic of the method of the Food Flow Balance, that the LIFE FOSTER is going to use to measure food waste.

In the meanwhile, UNISG is working on the construction of a web application to facilitate data entry and the graphic rendering of the results. We started to dialogue with various IT companies to understand what they can offer us in the face of our needs. Once the first phase of data collection is completed, we will start to elaborate a first demo version for the web application.

Data collection is foreseen in three moments of the project:

1. **ex ante collection**: from October 2019 to February 2020, 3 surveys for each involved center. In this phase, data will be collected without the adoption of measures to avoid food waste except for those already adopted in the center or by the reference teacher;
2. **in itinere collection**: from March 2020 to December 2020. 6 surveys for each involved center (3 from March-July 2020; 3 from August-December 2020). In this phase we will quantify how the adoption of preventive and reduction measures starting from training translates into a reduction of the food waste quantity;
3. **final collection**: January-May 2021, 3 surveys for each involved center. In this phase we will quantify how the adoption of preventive and reduction measures starting from training has translated into a reduction of the wasted quantity.

Each data collection/survey (will be carried out starting from the elaboration of a menu, thus composed³:

¹ C.1. Set of indicators for project monitoring (save food quantity indicator, Life Program Performance Indicators)

² C.2. Socio-economic monitoring

³ After the first tests, the hypothesis of collecting data over an entire week was recalibrated on the creation of a menu. This is to facilitate data collection operations and to increase the comparative rate between centers and in the future with restaurants





- Starter/Appetizer
- First course (es. Pasta, soup, risotto)
- Main course with vegetables (es. Meat or fish with vegetables)
- Dessert

Here an example of a menu used in Veneto for one of the three monitoring data collection for the ex-ante phase:

STARTER: ES. TORTINO DI ORTAGGI INVERNALI CON FONDUTELLA AL GORGONZOLA

FIRST DISH: ES. GNOCHI DE PAN ALLA TRIESTINA

MAIN COURSE WITH VEGETABLES: ES. ROTOLO DI FILETTO DI SUINO FARCITO CON SPINACINI FRESCHI

DESSERT: CREME AU BEURRE LEGERE

In order to facilitate the data collection in the kitchen lab, we have elaborated a word doc. We have imagined that it is quite complex to fill the data entry with a computer during the kitchen lesson. That's why we have elaborated from a proposal of Sara and Enrico from ENAIP Veneto a sheet to fill manually and then to be transferred on the excel.

It is expected that **each involved center** will repeat the data collection on 3 menus for ex ante collection in the identified period (and then 6 menus for the in itinere period/3 menu for the final period). Look at the following table.

	Ex ante	In itinere	Final
Menu repetition for each vet center according to the different phase of data collection	3	6	3