

Rollout of European Monitoring of Biodiversity in Agricultural Landscapes (EMBAL)

Deliverable 3.2

Material and Tools

Project - n° 4013299

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Technologietransfer GmbH**

and

**Institute for Agroecology
and Biodiversity – I F A B**

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The **EMBAL 2022 / 2023 rollout – Material and Tools** encompass documentation for the survey, as well as the developed plugin and tools tailored for field data collection and post-processing. Additionally, the delivery comprises Ground Documents (Field Maps) produced for the survey campaigns in both 2022 and 2023. The delivery includes:

- Documentation of the EMBAL rollout **Sampling strategy** including the **sampling weights** to calculate weighted estimates.
- EMBAL rollout **Survey Manual** and **Key species** for 2022 and 2023.
- EMBAL **Workflow documentation** describes the technical workflow of data collection and includes the tools developed for data collection i.e. the **ODK forms** for data collection with ODK Collect and the QGIS **plugin ODK Import** developed by EFTAS to support post-processing of the field data.
- The EMBAL **Ground Documents** (GDs) featuring an orthophoto background, indicating the EMBAL plot (500x500m), parcel and LE geometries, and proposed transect positions. Ground documents are produced for each selected EMBAL plot in 2022 and 2023. An example of a EMBAL Ground document is provided in Figure 1. It is important to note that the orthophotos utilized in generating the GDs are subject to distinct license conditions. The EMBAL 2022 / 2023 Ground documents are therefore provided with a restriction on use. Access is limited to internal use within the EMBAL 2022 / 2023 project, exclusively within DG Environment, and solely in non-georeferenced PDF format. Further details can be found in *EMBAL_2022_2023_Metadata_GD_v1.pdf*.

The table below provides an overview on the delivered items and documentation,

EMBAL 2022-23 rollout – Material and Tools	
Sampling Strategy	<i>EMBAL2022_2023_Sampling_Strategy_v1.0.pdf</i> <i>EMBAL2022_Sampling_weights_v1.txt</i> <i>EMBAL2023_Sampling_weights_v1.txt</i>
Survey Manual	<i>EMBAL2022_Survey_Manual_v4.0.pdf</i> <i>EMBAL2023_Survey_Manual_v2.0.pdf</i> <i>EMBAL2022_Key_Species_Guide_v1.0.pdf</i> <i>EMBAL2023_Key_Species_Guide_v1.0.pdf</i>
Survey Workflow and tools	<i>EMBAL_Survey_workflow_v2.pdf (updated)</i> <i>EMBAL_ODK_FORM_1_Parcel_Survey_2023_v1.xlsx (updated)</i> <i>EMBAL_ODK_FORM_2_Transect_Survey_2023_v1.xlsx (updated)</i> <i>EMBAL_ODK_FORM_3_Overall_Plot_Survey_2023_v1.xlsx (updated)</i> <i>EMBAL_rollout_QGIS_odk_import_plugin.zip</i>
Ground documents	<i>E-xxxx-yyyy_2022_GD_Map.pdf (3000 pdf) (updated)</i> <i>E-xxxx-yyyy_2023_GD_Map.pdf (3036 pdf) (updated)</i> <i>EMBAL_2022_2023_Metadata_GD_v1.pdf (updated)</i>

The delivery can be downloaded from the ftp:

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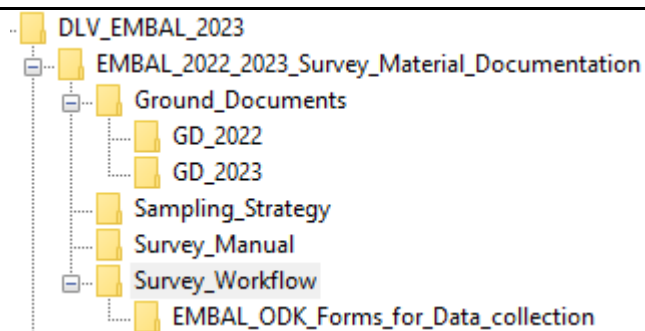




Figure 1: Ground Document EMBAL 2022