

D2.2 Guidelines for data collection in the 8 different Countries and definition of sampling procedures

PART 1

Guidelines for country regions/areas characterization and selection (pages 2-7)

PART 2

Guidelines for online survey and identification of farmers' needs (pages 8-12)

Each of these two **WP2 sub-tasks** (2.2) has 4 main steps that are presented with a question. A specific instructions set is proposed for each step as an answer.

PART 1: Guidelines for country regions/areas characterization and selection

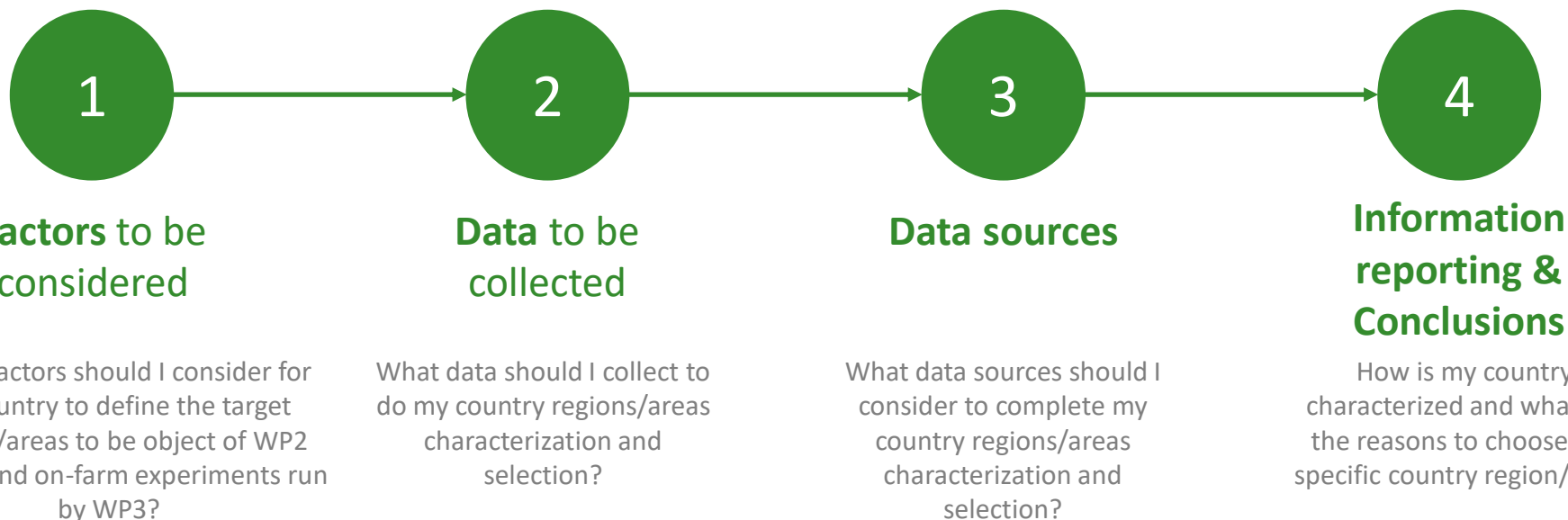
Introductory remarks

Selected region/area will be the regional context where **WP2 surveys and WP3 field experiments will be undertaken.**

Each country – Italy, France, Spain, Portugal, Greece, Tunisia, Argelia and Morocco – has to indicate the **persons/CAMA participant responsible** for Country regions/areas characterization and selection process.

This WP2 sub-task (2.2) has **4 main steps** that are presented below with a question. The following pages will propose specific instructions set for each step as an answer. Step 4th should be **concluded** in April 2022.

Conservation Agriculture = **CA**.



Introductory remarks



- ✓ each country has to choose a **team** (persons & CAMA participant) responsible for country regions/areas characterization and selection process
- ✓ country regions/areas characterization and selection process should be concluded in **April 2022**
- ✓ **target regions/areas** should comprise:
 - representative/homogeneous agri-climatic, socio-economic and farmer's conditions
 - water and soil conservation as a matter of concern
 - users (if existent) and non-users of CA technology existence
 - a potential/urgency of CA adoption presence
 - no existence of experiments constraints like human resources and logistics
- ✓ at the end information reporting & conclusions should be sent to **APOSOLO** (aposolo.portugal@gmail.com) and **CREA** (daniilo.marandola@crea.gov.it)



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Which factors should I consider in my country to define the target regions/areas to be object of WP2 surveys and on-farm experiments run by WP3?

- soil and water conservation** needs depending on:
 - climate data observed, climate change projections, soil classification, soil quality, soil organic matter content, risk of soil erosion

- CA potential/adoption** urgency depending on:
 - utilised agricultural area, type of crops, farmer's age, farmer's education, CA and precision agriculture technology users, existence of CA know-how and extension service

- existence of **factors and indicators hampering CA adoption**:
 - factors and indicators hampering CA adoption as identified in WP2 publication review (1) (see 3.2 of D2.1)
 - each partner should compare the factors and indicators mentioned above (1) with the ones referred in its own regions according to its regional specificities

- non-existence of **experiments constraints** like human resources and logistics



What data should I collect to do my country regions/areas characterization and selection?

2 data categories

- data example classified in 2 categories – a proposal list

1. Environment and territory	2. Socio-economic
Average annual temperature (°C) and precipitation (mm)	Agricultural holdings (nº) and utilized agricultural area (hectare)
Forecasted maximum temperature and precipitation anomalies (°C)	Utilized agricultural area per use (crop use) (hectare)
Relative air humidity (%)	Irrigated utilized agricultural area (hectare and % of utilized agricultural area)
Extreme weather events – maximum and minimum temperature, drought or heavy rain, strong winds (°C, mm, km.h-1)	Agricultural sole producer age class
Land use (hectare)	Agricultural sole producer education level (basic, secondary & higher)
Soils FAO classification	Total agricultural labor force per time dedicated (% of time – full-time & part-time)
Soil chemical, physical & biological characterization	Information and Communication Technologies use (% or total number of farmers)
Orography	New machinery/ technology available (total number)
Estimated soil erosion by water (t.ha-1.year-1)	Contractors' availability (total number)
Areas susceptible to desertification (Aridity Index - ratio of	Soil cover – residues management (seeding) & cover crops seeds availability (% of farmers that referred)
Precipitation and Potential Evapotranspiration P/PET)	Good markets for new crops availability - crops rotation (total number)
Topsoil organic carbon content (gC.kg-1)	Input & machinery costs (% of farmers that referred)
Potential and actual soil erosion risk (from low to high)	Training and advice services availability (% of farmers that referred)
Land quality (from low to high)	Sources of information about farmers' work (e.g. researcher, other farmers, internet)
	Weed, pests & diseases control
	Fertilization
	Agri-environment measure (EU + National Funds) - Soil conservation, no-till and strip-till (number of beneficiaries and area – hectare)
	Other measures related to CA (number of beneficiaries and area – hectare)

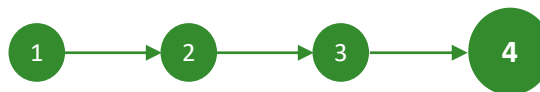
evaluate the proposal list and **adapt** it to **Country's reality and to data availability**

data should be **updated** as far as possible, and at **National level**, including a **regional characterization**



What data sources should I consider to complete my country regions/areas characterization and selection?

- published** data/primary and secondary data
 - e.g. maps, statistical data, and studies/articles
 - published by National, European and African Institutions such as National Ministry of Agriculture, National Statistical Institute, European Environment Agency, European Statistics, Joint Research Centre, Foundations, others
- unpublished** data/primary and secondary data
 - e.g. assembly and analysis of background data on farmers' conditions if existent
- exploratory surveys**
 - informal talks with the community leaders, farmers leaders, farmers' organizations (especially the technical/assistance department), extension agents, input suppliers, machinery contractors, who are familiar with farming systems and practices in the region/area
- other **research or demonstration projects** on/of CA in course or carried out in the country



How is my country characterized and what are the reasons to choose this specific country region/area?

data compilation

- through images, graphs or tables – including titles, units, legend
- indicate the data source and data year
- write a brief comment for each data
- use Microsoft Word or PowerPoint apps and English language
- Portugal Mainland characterization presented in D2.1 Annex 2 final version can be used as an example that could be taken into consideration

conclusions

- region/area selected
- selection reasons based on data collected
- identify targeted farmers for WP2 surveys and for WP3 field experiments

send the resulting document encompassing data compilation & conclusions

- to **APOSOLO** (aposolo.portugal@gmail.com) and **CREA** (daniilo.marandol@crea.gov.it)

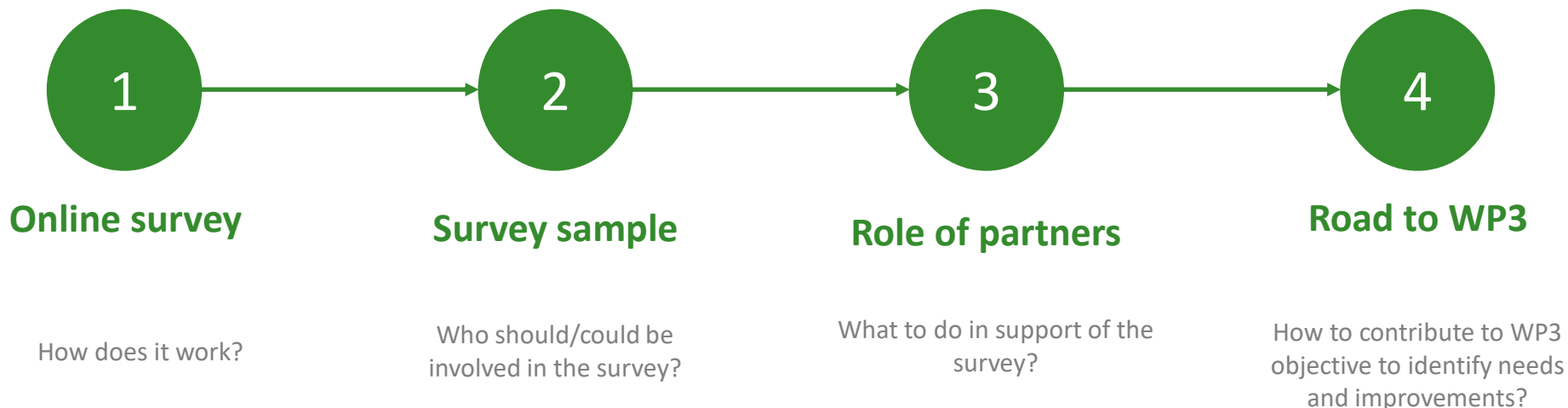
PART 2

Guidelines for online survey and identification of farmers' needs

Key info

- An **online survey** has been structured to investigate possible barriers to CA adoption in the 8 countries
- The survey should be addressed to a representative **sample of 20-50 entities/interviewees**
- A small group of selected farmers/entities is asked to join a **follow-up action** in connection with WP 3 to focus on farmers' needs in each CAMA country

This WP2 sub-task (2.2) has **4 main steps** that are presented below with a question. The following pages will propose specific instructions set for each step as an answer.



1

Online survey



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An **online survey** has been set-up to get standardized and quantifiable information from interviewees from all CAMA countries concerning barriers to CA adoption (see **Table 5** of the Deliverable 2.1).

The survey works on a **Google form** that can be answered directly by the interviewee or indirectly by an interviewer (in case the interviewee cannot/does not know how).

The form has been adapted according to the reality of all CAMA countries and to possible diversities among the respondents. It has been translated from English into **local languages** and preliminary tested by CAMA partners.

Answers are automatically recorded and can be accessed only by the CAMA task leader. The survey complies with EU General Data Protection Regulation (GDPR).

CAMA | Research-based participatory approaches for adopting Conservation Agriculture in the Mediterranean Area

ladamarando@gmail.com (non condiviso) [Cambia account](#)

*Campo obbligatorio

Language? اللغة? Langue? Γλώσσα? Linguaggio? Língua? Idioma? *

- I - English
- II - عربي (Arabic)
- III - Français (French)
- IV - Ελληνικά (Greek)
- V - Italiana (Italian)
- VI - Português (Portuguese)
- VII - Española (Spanish)

Direct link to the online survey [HERE](#)





- The survey should be addressed to a representative **sample of 20-50 entities** per each country.
- Recipients can be:
 - farmers (principally),
 - public services or association extensionists;
 - technical consultants;
 - enterprise/company technicians;
 - machinery service company;
 - researchers;
 - others who can provide relevant information

Farmers can be CA adopters as well as non-adopters

Interviewees can be contacted by e-mail to be sent by the CAMA national/local partner to selected recipients.



- ✓ each country/partner identifies a person in charge to support the implementation of the survey
- ✓ an adequate **balance among categories of respondents** must be ensured
- ✓ deadline for collection of respondents: **February 2022**
- ✓ identification (among the respondents) of 3-5 farmers per country to implement follow-up investigation on barriers to CA adoption: deadline **January 2022**
- ✓ Partners should facilitate activities **in conjunction with WP 3** (see step 4)



- ☑ a small group of selected farmers/entities (3-5 per country) is asked to join a follow-up action in connection with WP 3. They will be part of a **farmers' and fields' network** that could be a “show window” for improvements to be tested.
- ☑ these 3-5 farmers should be:
 - identified among the respondents to the survey by the person in charge to support the implementation of the survey at country level
 - available to join online focus-groups in **January 2022 and February 2022** in conjunction with WP3 partners to investigate specific barriers to CA adoption and possible improvements to be tested.