

ANALYSIS OF AGROS-SMART SURVEY DATA FOR THE ASSESSMENT OF SMALL FARMERS' NEEDS FOR CLIMATE SMART AGRICULTURE IMPLEMENTATION

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About me



PhD Bioengineer Observer to the Conferences of the Parties since 2015, **Member** of the Italian Society of Climate Sciences (SISC), active in various environmental organizations and networks (The Climate Reality Project) and an active participant in UN YOUNGO, the constituent of young people within the Framework Convention of Nations United in which take part on various working groups (Energy, Health, and Agriculture) Member of GACSA and Italian Focal Point of GCSAYN, promoter of the blog / YouTube [channel HubZine Italia](#) for dissemination on international negotiations and organizer of the [Climate Change Symposiums](#) and [Climate Social Forum](#).



AGROS-SMART PROJECT

With **AGROS-SMART** we want support small holder farmers in better adapt crop management to the effects of climate change, offering a platform to exchange best practices and ideas and to build farmer resilience by applying the principle of CSA



AGROS-SMART PRELIMINARY SURVEY

We started to achieve this goal properly trying to **assess small farmer knowledge and needs for CSA implementation through a survey** that we provided to farmers all over the world by online dissemination.



From June 2019 to Jan 2023

- 100 responses
- from 38 different countries
- Category who responded
 - Traditional Farmers
 - Organic Farmer
 - Consumer
 - Market person
 - Activist/Volunteer

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Structure of the survey

SECTION 1: Preliminary Inquiry, country region etc...)

SECTION 2: Cropping and farming : Part 1 General Info about cropping styles, habits

SECTION 3: Information and Connectivity about access to connectivity and internet

SECTION 4: Market and Selling about access to market, opportunity and challenges and selling strategies

SECTION 5 Cropping and farming : Part 2 Climate Change Impact general perception of climate change impact and knowledge of CSA

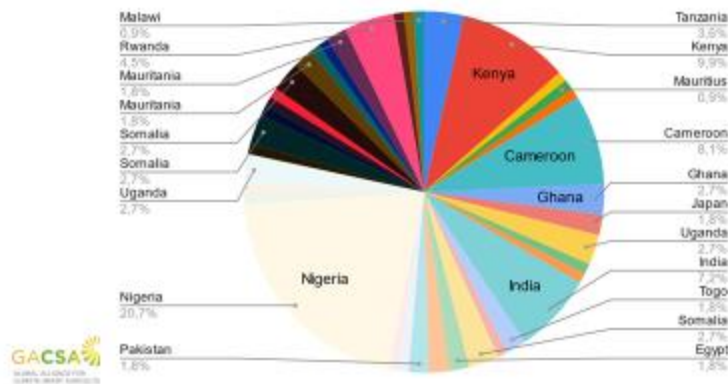
SECTION 6: Final Remarks final feedbacks after compiling the survey

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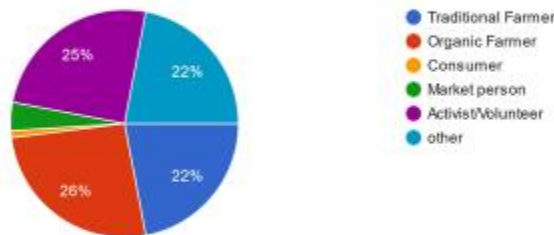
WORLD WIDE DISTRIBUTION OF RESPONSES



WORLD WIDE DISTRIBUTION OF RESPONSES



SEC 1- TARGET GROUPS DISTRIBUTION



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Sec 2 - YARDS DIMENSION

2.2. If you are involving in farming activities, how much large is the cropping area of your production?
100 risposta

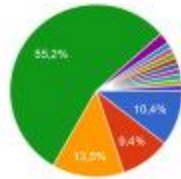


Most of the respondent (66%) has been **Small-holders Farmers** (less than one hectare to 10 hectares standing to FAO)

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Sec 2 -Targets of the production

2.7. Who do you support with your farming activity?
95 risposte



- Only my self
- Me and my wife/husband
- Me, My wife husbands and my children
- My community
- Family
- My parents and siblings
- Me + three persons helping
- family farming with minimum labour...
- I am an educator
- small holder farmers
- My family in General
- We are a seed industry and farmers are our customers for Hybrid seeds.
- Rural and urban farmers
- My association

2.8. How many members your family/community are supported by your farming activity?
95 risposte



- 1
- 2
- 3
- 4
- 4 to ten
- More than 10

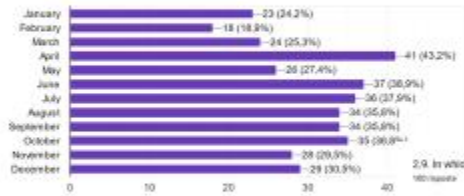
Mostly of the participants do self-sustaining community based agriculture



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Sec 2-Seasonality and production

2.10. In which months particularly do you usually have production?
95 risposte



Most productivity recur in summer season and between June and October

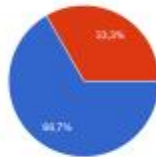
2.9. In which season do you usually have the highest production?
100 risposte



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Sec 2 - Technology in agriculture

2.21. Do you use pesticide in your cropping activity?
96 risposte



At the current state most of the farmers use pesticide in their activity, use mechanization, but barely use ICTs in their activity



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2.22. Do you use mechanization in your cropping activity? (leave blank if don't know)
95 risposte



2.23. Do you use ICTs or drones in your cropping activity (leave blank if don't know)
94 risposte

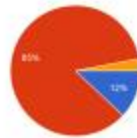


Sec 3 - Type of Cell phone

3.1 Do you have a cell phone?
180 response

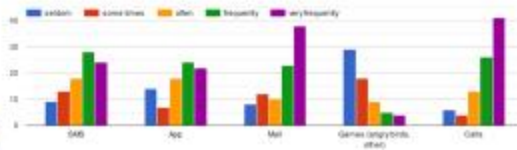


3.2 If yes which type
180 response



normal cell phone
smartphone
iPhone

3.4 Which of this functionalities are using and with which frequency?



All participants have a phone and mostly have a **smart-phone**. **Smart-phone** is mostly used for SMS and mail



Sec 3 - Access and use of internet

3.6 Do you have access to internet?
99 response

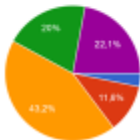


3.7 If yes, How many times in a hour?
99 response



1
2
More than 5
More than 10

3.8 If yes, How many times in a day?
95 response



1
2
More than 5
More than 25

Most of the participants have access to internet and use between 5 and 10 hours, for more than 5 times a day

Survey also says that they access to *internet café* but on payment

in 2023

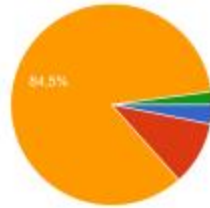
Sec 3 - Sources of information

3.11 In general, how do you get your information on cropping and farming?
98 response



Sec 5 - Knowledge about climate change

5.1 In your opinion what can be a definition of Climate Change?
97 risposte



- the change in mood of the persons
- the change in the soil and water conditions
- the change of wheather conditions, extreme events frequency caused by global warming
- climate change does not exist

The majority have a quite knowledge on the concept of climate change



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Sec 5 - Knowledge about climate change (effects)

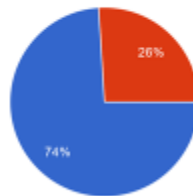
Farm is one cause Climate issue If was planning poor,with alot of pesticides,is one of argent of climate change
Mostly drought
Extreme rainfall, temperature, pest outbreak, drought,
Too much sun, drought, poor harvest, lack of water, poor plant development.
Drought
Climate change affect food production and processing
water shortages, flooding, droughts
It lowers food production
It facilitates hunger
It influences floods



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Sec 5 - Knowledge about Climate Smart Agriculture

5.3 Do you know about Climate Smart Agriculture?
100 risposte



- Yes
- No

Roughly the 74% know about Climate Smart Agriculture

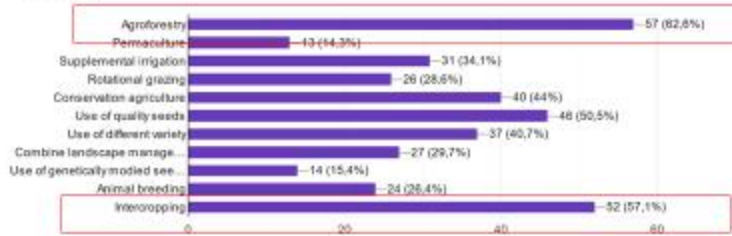


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Knowledge about Climate Smart Agriculture (Techniques)

5.4 Which kind of practices of Climate Smart Agriculture do you practice in your opinion?

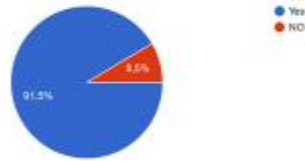
91 risposte



Knowledge sharing

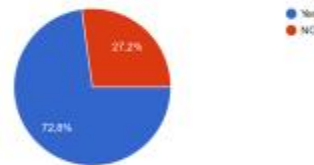
5.5 Do ever you share or have shared your practices with other farmers?

94 risposte



5.6 Are you in any group, network or association of farmers?

92 risposte



Knowledge sharing is a common practice among farmers



Conclusions

- The survey has addressed especially **small holder farmers across 38 countries**
- They mostly perform cereal cropping and most of the production is concentrated in summer
- The type of agriculture is traditional **self sustained and communitarian**: organic farming is spread but not for the total
- Agriculture is accompanied by technology by mostly pesticide and mechanization: ICT is no so used in agriculture
- Access to smartphone and laptop as well internet has at least 3 / 4 coverage
- **Traditional and oral knowledge** transmission is anyway the prevalent source of information

CLIMATE CHANGE RELATED OUTPUTS

- Climate change and its effect is quite known among small farmers and also the concept of **Climate Smart Agriculture, even with a less extent**
- Different Climate Smart Agriculture techniques are used even with a different perception of it: agroforestry and intercropping are considered the most adopted techniques of CSA



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THANKS FOR YOUR ATTENTION

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