

CACIP platform

Stakeholders Consultation Report, Kyrgyzstan



Bishkek, Kyrgyzstan July 11, 2019



Project: Central Asia Regional Climate Information Platform.



The main objective is the development a Central Asia Regional Information Platform which will help stakeholders to access, analyze, and visualize publicdomain data to support improved awareness, assessment, and decision support. This is expected to make available comprehensive and up-to-date relevant data and information, linking with high-quality datasets (including time series and spatial information) from global, regional, and local sources, provide analytical tools and interfaces for the visualization and interpretation of data and information (e.g. mapping tools to layer data and map hotspots and areas at risk, screening tools, etc.).

For more information, please visit: https://mel.cgiar.org/projects/cacip www.CentralAsiaClimatePortal.org

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Contents

INTRODUCTION	4
OBJECTIVES OF THE WORKSHOP	4
SELECTION OF THE PARTICIPANTS FOR CONSULTATION WORKSHOP	5
RESULTS OF THE QUESTIONNAIRE	5
Sections related to the CACIP from the USER point of view Sections related to the CACIP from the CONTRIBUTOR point of view Sections related to general preferences and interests MAJOR HIGHLIGHTS FROM QUESTIONNAIRE	7 9
SUMMARY OF STAKEHOLDERS' FEEDBACKS BASED ON DISCUSSIONS	10
NEXT STEPS	12
ANNEX 1 WORKSHOP AGENDA	13
ANNEX 2 LIST OF INVITED ORGANIZATIONS AND PARTICIPANTS	14
ANNEX 3 STAKEHOLDER PROFILES	15
ANNEX 4 QUESTIONNAIRE FOR INFORMATIVE SURVEY	16





Introduction

Central Asia Climate Information Platform (CACIP) will help stakeholders to access, analyse, and visualize public-domain data to support improved awareness, assessment, and decision support. This is expected to make available comprehensive and up-to-date relevant data and information, linking with highquality datasets (including time series and spatial information) from global, regional, and local sources, provide analytical tools and interfaces for the visualization and interpretation of data and information (e.g. mapping tools to overlay data and delineate hotspots and areas at risk, screening tools, etc.).

Consultation process with stakeholders in conceptualising CACIP is important and were planned as part of approach to develop the platform. The following national workshops (Annex 1) were planned and conducted in Central Asian countries:

- June 11, 2019 Tashkent, Uzbekistan
- June 14, 2019 Almaty, Kazakhstan
- July 11, 2019 Bishkek, Kyrgyzstan
- July 15, 2019 Dushanbe, Tajikistan
- September 9, 2019 Ashkhabad, Turkmenistan

ICARDA promoted the event both in English and Russian language on its regional site with references available here: <u>http://cac-program.org/news/detail/542</u> and <u>http://cac-program.org/ru/news/detail/543</u>. The workshop material has been published on ICARDA interoperable repository with reference available here: <u>https://dx.doi.org/20.500.11766/10163</u>.

Objectives of the workshop

The overarching objectives of the CACIP were to set the scene and discuss about the platform with stakeholders (list of invited organizations and participants in Annex 2) with following objectives:

- Brief introduction of the project and platform;
- Discuss platform concept, design framework and main building blocks;
- Assess the needs of the platform and its application from the end user's segments;
- Assessment of data and information available and possibility to have a sample for different datasets/information available to start piloting;
- Learn about needs and services expected from the platform; (what products/info/services stakeholders would like to obtain or access on the platform?)
- Participation process and sustainability plan;
- To build partnerships for collaboration and exchange of the data (list of stakeholders to develop their profile to include in CACIP in Annex 3);





Selection of the participants for consultation workshop

The stakeholders for the consultation workshop were selected with the objective of meeting the goal of the CACIP. The consultation workshop was organized with an aim at engaging those stakeholders who were directly or indirectly involved in or had interest in dealing with the effect of climate change in different ways such as environment, agriculture, health, investment, insurance, policy, research, extension and education sectors. Participants were invited from both public and private sectors as well as from donor agencies. The participants were invited to seek their inputs on the proposed CACIP and who would use and take ownership of the platform after its completion.

Multiple sources were used to identify the participants for the consultation workshop. ICARDA database of partners for Central Asia who had previously collaborated on the projects on environment and climate issues implemented in the region were included. We also approached ICARDA's focal point in the Ministry of Agriculture to identify relevant partners. In addition, CAREC coordinators made valuable suggestion in populating the list of the participants. Donor organizations in the country with interest in climate change programs were also included in the list of participants.

Results of the questionnaire

As part of workshop short questionnaire was distributed among participants to learn about their interests and expectations in different areas of climate information platform. Questionnaire is presented in Annex 4, major focus to infer was about:

- information to have by participants or to share by them;
- data either available or accessible or required;
- services that platform can provide;
- knowledge and analytical tools and materials that one expects to receive or to provide.

Analysis of the questionnaire

The results of the survey have been summarized and presented in tabular format. To make easier the comparison of the results between different sections, a summarized score for each question has been calculated. To calculate the "score" for each item different weights have been assigned to the answers ("0" to "no interest", "0.5" to "some interest", "1" to "very interested").

The following tables present the results for each question.

How to read the table (hints useful for all sections)

Bold black values are the highest scores. **Bold red values** show the answers considered less interesting. The percentages in the first row show an aggregated "average interest" for the whole section.



Sections related to the CACIP from the USER point of view



Interest as USER of CACIP				59%
Do you think that it could be interesting if the Platform could prov	ide a centralized access to the fol	lowing information/o	lata/services?	
Question		Answe	r	
Question	No interest	Some interest	Very interested	Score
Documents case studies papers		7	4	68%
Training materials, best practices		4	6	73%
Models, tools, software		7	4	68%
General reports		7	3	59%
Specific bulletins		8	2	55%
Expert consultant services	3	5	2	41%
Maps (ready format)	1	6	3	55%
Access to spatial database (WMS, WFS,)	1	6	4	64%
Raw spatial data (basic spatial files)	2	5	4	59%
Structured databases		5	2	41%
In general, are you interested in DATA			9	82%
In general, are you interested in SERVICES			5	45%

The most interested topics are **training materials**, **best practices and DATA in general**. The lowest scores relate with services and structured databases. The general interest for CACIP is high (59%).

Interest for USING specific GEOGRAPHICAL DATA Are you interested on new products, not available now, with a set of information and numerical data relater	d to the climate change in Cer	19%
	Ansv	
Question	to USE	Score
HISTORICAL DATA (TIME SERIES)		
Hydrological databases on river basins	3	27%
Climate induced natural disaster	3	27%
Historical climate variability		
Temperature	4	36%
Precipitation	5	45%
Lake/reservoir levels	2	18%
• Flows	2	18%
Evapotranspiration	2	18%
Glaciers	3	27%
• NDVI, EVI	2	18%
Burned areas	2	18%
• Fire	1	9%
Soil moisture	2	18%
Climate characterization		4
Monthly temperature (avg, min, max)	3	27%
Precipitation	3	27%
Bioclimatic variables	2	18%
CURRENT DATA		
Temperature	3	27%
Surface temperature	2	18%
Precipitation	3	27%
FORECASTS	5	2770
Short term forecasts		
Temperature	3	27%
Precipitation	4	36%
Snow water equivalent	2	18%
Snow water equivalent Snow melt	2	18%
Stream flows	3	27%
Seasonal weather forecasts	2	18%
Long term climate projections	2	18%
PHYSICAL CHARACTERISTICS	2	1070
	1	
Land cover	3	270/
Cover type Glaciers/snow cover	3	27%
Glaciers/snow cover Cropland	1	9%
Irrigated areas	1	9%
Crops and crop types	1	9%
Crops and crop types Tree cover change	1	9%
Field data (such as crops, rotation)	1	9%
Soil map	1	9%
Soil carbon density	1	9%
Global aridity index	1	9%
Potential Evapotranspiration	1	9%





OTHER RELEVANT DATASETS		
Agricultural productions	3	27%
Spatial production allocation mode 2000, 2005, 2010 (SPAM)	2	18%
Land degradation and desertification	3	27%
Monitoring locations		0
• Snow	2	18%
Climate	3	27%
Water levels	2	18%
• Flows	2	18%
Water quality	2	18%
Water divisions	2	18%
GENERAL DATA		
Topography	2	18%
Drainage	3	27%
Basins, watersheds, major aquifers	2	18%
DEM	2	18%
Administrative boundaries	2	18%
Basic infrastructures	2	18%
Protected areas	2	18%

The interest for geographical data seems to be quite low, but this section of the survey was at the end of the form, and also it is quite long, then it may have been penalized. In any case **the main interest concerns on meteorological data** (temperature and precipitation).

Interest for USING specific KNOWLEDGE DATA		23%
Are you interested on new products, not available now, with a set of information and numerical data related	to the climate change in Cer	ntral Asia?
Question –		ver
		Score
Publications (reports, webinars, atlases, posters, infographics, proceedings, studies)	3	27%
SLM practices and methodologies	2	18%
Projects on CC Adaptation Mitigation	2	18%
News	3	27%

The interest in knowledge base is homogeneous.

Interest for NEW PRODUCTS				61%
Are you interested on new products, not available now, with a set of information	and numerical dat	a related to the clima	ate change in Cent	ral Asia?
Question	Answer			
	No needed	Some interest	Very interested	Score
In general		7	4	68%
Information summarized at regional and country level	1	5	5	68%
Information updated systematically	1	6	4	64%
Information homogeneous on the whole region	2	5	3	50%
Information with an advanced visualization	1	6	3	55%

In this section is interesting that the topic with the lowest score relates with **information at regional level** (even if the scores are quite similar). This result suggests the need to work to increase the awareness of stakeholders from Kyrgyzstan towards cross boundaries phenomena.

Sections related to the CACIP from the CONTRIBUTOR point of view

In the following tables, the survey focuses on the interest of stakeholders to contribute to the CACIP platform, and the availability to become data provider of the platform.





Interest as CONTRIBUTOR to CACIP				
Are you available to contribute to CIP in the following ways?				
Question		Answ	er	
Question	Not available	Available	I don't know	Score
Basic user: user of the platform		9		82%
Basic user: join the forums	2	4	3	36%
Basic user: use documents and training materials		9		82%
Basic user: use models, tools, software		9	1	82%
Data provider: allowing the permanent upload on CIP	3	3	5	27%
Data provider: allowing live link to your published data	1	4	6	36%
Data provider: API for documents		1		9%
Data provider: WMS server		2		18%
Data provider: WFS server		1		9%
Data provider: API for geographical data		2		18%
Promoters: promoting the use of the CACIP among colleagues, clients, partners	2	5	3	45%
Promoters: do you want to promote for forum?		4		36%
Promoters: do you want to promote for documents?		5		45%
Promoters: do you want to promote for maps?		5		45%
Promoters: do you want to promote for data?		7		64%

The **results highlight a "high passive" interest for the platform**: the general interest to use the information is very high (82%), but compared to this, the availability to provide data is very low; a little higher is the availability to promote the platform among colleagues, clients, partners.

The lowest scores relates with the "more technological topics" (like interoperability interfaces: API, WFS, , ...).

Interest to be PART OF THE TEAM				52%
Do you want to contributem as an expert member or active contributor (your name/institution listed/acknowledge in the portal) ?				
Question	Answer			
	No	Maybe	Yes	Score
At individual level	2		7	64%
At institutional level	3	1	4	41%

In any case the interest to be part of the CACIP is in general high (average 52%).

Are you interested on new products, not available now, with a set of inform	ation and numerical data related	to the climate change in Cent	ral Asia?
Question		Answ	er
Qdestion		to PROVIDE	Score
HISTORICAL DATA (TIME SERIES)		
Hydrological databases on river basins		1	9%
Climate induced natural disaster		1	9%
Historical climate variability			
Temperature		2	18%
Precipitation			0%
Lake/reservoir levels		1	9%
• Flows		1	9%
Evapotranspiration		1	9%
Glaciers		1	9%
NDVI, EVI			0%
Burned areas			0%
Fire			0%
Soil moisture		1	9%
Climate characterization			
 Monthly temperature (avg, min, max) 		2	18%
Precipitation		2	18%
Bioclimatic variables		1	9%
CURRENT DATA			•
Temperature		3	27%
Surface temperature		2	18%
Precipitation		2	18%
FORECASTS		•	
Short term forecasts			
• Temperature		1	9%
Precipitation			0%
• Snow water equivalent			0%
• Snow melt		1	9%
Stream flows		ala	0%
Seasonal weather forecasts		1	9%
Long term climate projections		1	9%





PHYSICAL CHARACTERISTICS		
Land cover		
Cover type		0%
Glaciers/snow cover	3	27%
• Cropland	2	18%
Irrigated areas	1	9%
Crops and crop types	1	9%
Tree cover change	1	9%
Field data (such as crops, rotation)	2	18%
Soil map	2	18%
Soil carbon density	1	9%
Global aridity index	1	9%
Potential Evapotranspiration	1	9%
OTHER RELEVANT DATASETS		
Agricultural productions	2	18%
Spatial production allocation mode 2000, 2005, 2010 (SPAM)	2	18%
Land degradation and desertification	2	18%
Monitoring locations		•
• Snow	2	18%
• Climate	1	9%
Water levels	2	18%
• Flows	2	18%
Water quality	1	9%
Water divisions	2	18%
GENERAL DATA		
Topography	2	18%
Drainage	1	9%
Basins, watersheds, major aquifers	4	36%
DEM	3	27%
Administrative boundaries	4	36%
Basic infrastructures	3	27%
Protected areas	4	36%

A certain availability to provide to CACIP geographical and knowledge data is shown **almost all the items have been selected by at least one participant to the survey**. The types of information with the highest scores are **general data**, but also those related to **temperature** and **glaciers/snow cover**. Similar results also for knowledge data too (see the table below).

Interest for PROVIDING specific KNOWLEDGE DATA		20%
Are you interested on new products, not available now, with a set of information and numerical data related to the clin	nate change in Cent	ral Asia?
Quartier	Answe	er
Question		Score
Publications (reports, webinars, atlases, posters, infographics, proceedings, studies)	3	27%
SLM practices and methodologies	2	18%
Projects on CC Adaptation Mitigation	3	27%
News	1	9%

Sections related to general preferences and interests

The two tables below describe the interest of the participants to the surveys for some topics related to the climate change.

It is interesting the difference of the preferences between users and decision makers. Users are more interested in **risk assessment/mapping** and **climate change and long-term forecasts**. Decision makers are more sensitive to the problems of **mitigation (sustainable agroecosystems)** and **land degradation and desertification**.

Low scores are in general assigned to reforestation and forest protection.

Selected FOCUSED AREAS (as BASIC USER)				52%
As a basic user (please select only one as "very interested" (main interest), and if y	our main interest	is not mentioned, yo	ou can write your ch	oice in "o
Quarties		MEN		
Question	No needed	Some interest	Very interested	Score
food and nutritional security		8	1	45%
sustainable agroecosystems/mitigation		6	3	55%
risk assessment and mapping	1	5	5	68%
and degradation/desertification	1	6	2	45%
reforestation/forest protection	2	6	1	36%
climate changes/long term forecast	1	3	6	68%
socio-economic impact (*)	1	5	3	50%
smartphone services to end users	2	6	2	45%
other				





Selected FOCUSED AREAS (as POLICY / DE		32%					
As a basic user (please select only one as "very interested" (main interest), and if your main interest is not mentioned, you can write your choic							
Question		Answe	er				
Question	No needed	Some interest	Very interested	Score			
food and nutritional security		5	1	32%			
sustainable agroecosystems/mitigation		4	2	36%			
risk assessment and mapping		5	1	32%			
land degradation/desertification		4	2	36%			
reforestation/forest protection	2	3	2	32%			
climate changes/long term forecast	1	3	2	32%			
socio-economic impact (*)	1	4	1	27%			
smartphone services to end users	1	4	1	27%			
other							

Major highlights from questionnaire

In the following table, the summarized scores for each section are listed.

Interest as USER of CACIP	59%
Interest for USING specific GEOGRAPHICAL DATA	20%
Interest for USING specific KNOWLEDGE DATA	23%
Interest for NEW PRODUCTS	61%
interest as CONTRIBUTOR to CACIP	42%
Interest to be PART OF THE TEAM	52%
nterest for PROVIDING specific GEOGRAPHICAL DATA	13%
Interest for PROVIDING specific KNOWLEDGE DATA	20%
Selected FOCUSED AREAS (as BASIC USER)	52%
Selected FOCUSED AREAS (as POLICY / DECISION MAKER)	32%

Based on the stakeholder interest survey, we found that country partners are mainly interested in:

• training materials and DATA in general, ready to be used to disseminate such information

And the main interest is for information related to:

- **meteorological data** (temperature and precipitation). Form the point of view of the provider of data, it is interesting to highlight that:
- almost all the listed types of geographical and knowledge data have been selected by potential providers

Also, it is interesting the difference of the preferences between users and decision makers:

- users are more interested in risk assessment/mapping and climate change and long-term forecasts
- decision makers are more sensitive to the problems of **mitigation (sustainable** agroecosystems) and land degradation and desertification
- low scores are in general assigned to **reforestation and forest protection** There is a good liking for the CACIP platform, and also willingness to contribute to it.

Summary of stakeholders' feedbacks based on discussions

There were extensive discussions during the event concerning different aspects of the platform. Points raised by participants concerned organizational as well as information and data issues, provision of expertise and sustainability points. Most of the points were in line with results from questionnaire presented above. To demonstrate the full picture of mentioned issues as well as to provide extent of





questions and comments the following bullets are presented below. These were helpful to capture various views together with comprehension of presented material by stakeholders.

Key areas mentioned by stakeholders are:

Content and Data Sources

- 1. Data is preferred to flow automatically when architecture of source is designed for such purpose. Manual data can discourage contribution despite it can be considered an intermediary step before automation.
- 2. Climate change is very drastic. There was snow in July in Issyk Kul last year and it resulted in losing 3000 heads of livestock. Moreover, drought occurred in August, and then livestock went down from hills and mountains to lowland and destroyed crops and yields. It is necessary to have the seasonal information and data to get adapted to climate change. The early warning system that is simple in use by farmers is required. The platform should cover these issues too;
- We have to pay attention to issues of insurance, especially crop insurance. Classic risks as drought, frost and hail damage agricultural crops and plants. Damage assessment is required;
- 4. Simple forms of insurance based on indexation. Index insurance. Open data source (level of precipitation) for farmers.
- 5. Hydromet can provide information both paid and unpaid one. To provide synergies with this approach and the platform.
- 6. It is important for the platform to show the pastures, bushes, plants that are damaged and not by livestock since the satellite cannot notice them. There has to be good resolution of pictures;
- 7. There was a platform designed by one project two years ago. The mistake for that platform was that was only providing climate data and what is needed is also economic, statistical and advisory data too.
- 8. To focus on climate impact on agriculture, in particular livestock production and pasture management. Long-term forecast of weather condition is crucial. Farmers and agricultural producer should know what to do, for example, if there are frost, rainfalls or drought, how to move livestock from one grazing area to another, in this case. Framers must be warned and recommended what to do.
- 9. The reliable and trustworthy information is of paramount importance.
- 10. Seasonal forecast is needed. We have to know what the winter and summer conditions and farmers will be prepared and ready for it. Hydromet may provide such information. Quarterly forthcoming changes in the weather. It is difficult to forecast the weather; the river flow forecast can only be made. It is difficult to predict the future.
- 11. GISMETEO can provide the weather forecast. Hydromet is reluctant to provide data/information.
- 12. Source of information to be indicated (Hydromet, FAO, and Ministries etc.). There is a threat that data/information may be unreliable and wrong. You need to avoid it pointing to the source of data and triggering data curation.





Users and Usage

- 1. Define if data is free of charge or paid. Open data is considered more viable than paid data.
- 2. There must be analytical data in the platform not only raw data. Processed reliable data for decision makers.
- 3. Important to define the difference with other search engines (e.g. Google).
- 4. Define user profiles and how data can be used. This will ensure more attractiveness.
- 5. Define the geo-portal usage in terms of spatial data analysis and storage.
- 6. Provide a set of tools and explanation to use them. Based on users they can have different level of difficulties (e.g. for farmers or for researchers). Simple usage could be: download, upload, search and selection of data/information required).
- 7. It should provide the full picture of precipitation not only tables but also graphs and descriptive analysis. Special applications are welcome;
- 8. To look at FAO methodologies; such is Loss and Damage Assessment Methodology. It will be of use and help in developing the platform.
- 9. The platform should mostly focus on farmers.

Maintenance

- 1. Define platform ownership and Data/Information entry responsibilities
- Monthly weather forecast may be accurate 50% and daily 70%. Nobody will guarantee it. Tools for assessing quality of data/information is very important. Data validation is required. There is a need for personnel who will work on it;
- 3. This platform is being created within the CAMP4ASB Project. Does Kyrgyzstan need it or not?

Next steps

Overall, there was great and keen interest from participants. Most of participants expressed soonest demonstration of platform and look forward to experience platform to provide more feedback. Partners provided several comments, team can do collective synthesis with other country partners to incorporate feasible ones during development of the platform.



Central Asia

Annex 1 Workshop agenda

TIME	AGENDA ITEM	PRESENTER
8.00-	– Registration	
8.30		
8:30- 9.00	 Welcome and Opening Remarks Dr. Ram Sharma, Regional Coordinator, ICARDA-CAC Prof. Tyrgoot Chortanbaev, Vice Rector, Kyrgyz National Agrarian University named after K. I. Skryabin Introduction to Central Asia Climate Information Platform and Regional Framework (CAMP4ASB) 	A. Akramkhanov
9.00- 10.00	 Platform Concept, Design Framework and main building blocks Action plan, Participation and Sustainability Q&A 	S. Maffei
10.00- 10.30	 Informative Survey on current situation on Data and Information. Note: to ensure that at least one institutional contact person is identified for each present stakeholder Note: to ensure that the focus area has been filled 	Facilitated by A. Akramkhanov
10.30- 11.00	Coffee break	
11.00- 12.00	 Workgroup "Partners' Requirements and Data contribution" Partners are organized by the focus areas resulting from the previous sessions. Time is dedicated to group discussion about: "What do we know, and what scientific information have to be available via information Platform for usage in policy making processes at national level and/or in decision making at local level" Main formats/channels to share knowledge (e.g. SMS, MobApp, Telegram, mobile version of web-site) should knowledge be free or paid? Do you have existing examples? Summary of discussion will be consolidated by the team rapporteur. 	Facilitated by A. Akramkhanov
12.00-	 Plenary Restitution 	Facilitated by
13.00	– Q&A	A. Akramkhanov
13.00- 14.00	Lunch break	
14.00- 14.45	 Stakeholder profiling 	
14.45- 16.30	 One-to-One meeting (based on participants interest indicated inside the previous "Informative Survey") 	S. Maffei





Annex 2 List of invited organizations and participants

A total of 13 participants (23% female) out of 26 attended the consultation. Typology of stakeholders encompassed Ministries/Government Agencies, International Organizations, Academia and the Private Sector.

Personal Data have been removed in Accordance with the EU General Data Protection Regulation (EU GDPR).





Annex 3 Stakeholder profiles

The following stakeholder profiles were partly filled with some information. These and other stakeholder profile information will be further collected and filled as per template.

Jubilee Kyrgyzstan Insurance Company

All information is located on <u>www.jubileeinsurance.kg</u>.

Developing climate index-based insurance package of agricultural crops for farming communities in Kyrgyzstan. Working on development of insurance packages for farmers to be based on precipitation amounts during vegetation season, therefore interested in open satellite data for Kyrgyzstan conditions. Need open access to meteorological information for insurance companies as well as by target farmers to use as reference source of information for assessment and evaluations.

iMoMo Regional Innovation Centre of Central Asia

Innovation technologies in management of water resources and consultation services. Projects completed in 2016-2018 modelling, management and monitoring of water resources. Automatization of water accounting between water consumer associations and rational management in water sector in Kyrgyzstan and Uzbekistan.

Central Asian Institute for Applied Geosciences (CAIAG)

All information is located on www.caiag.kg. The Central Asian Institute for Applied Geosciences was founded in 2002 by the Government of the Kyrgyz Republic and the German Research Center for Geosciences, Potsdam, Germany. The research is conducted in the following areas: geodynamics and geo hazards; climate, water and geo-ecology; usage and protection of resources. Attention is paid to creation of technical infrastructure and information management, education, training and professional qualification of the researchers. CAIAG works and maintains several platforms on disaster risk management (http://geonode.mes.kg/), spatial data (http://geonode.caiag.kg/), sensor data storage storage system (http://sdss.caiag.kg/sdss/), climate change modelling (http://www.caiag.kg/en/news/310-koreen-in-caiag-en), catalogue of glaciers of Kyrgyzstan, and several national databases i.e. wildlife, public school risk assessment from natural disasters etc.





Annex 4 Questionnaire for informative survey

CENTRAL ASIA CLIMATE INFORMATION PLATFORM

INFORMATIVE SURVEY

INSTITUTION, ORGANIZATION

Name _____

Email

Organization ____

YOUR INTEREST ON CONTENTS (EXPECTATIONS FROM CACIP)

Do you think that it could be interesting if the platform could provide a centralized access to the following information/data/services ?

Documents, case studies, papers	No interest	Some interest	Very interested
Training materials, best practices	No interest	Some interest	Very interested
Models, tools, software	No interest	Some interest	Very interested
General reports	No interest	Some interest	Very interested
Specific bulletins	No interest	Some interest	Very interested
if interesting, with which interval update	Yearly	Monthly	Other
Expert consultant services	No interest	Some interest	Very interested
Maps (ready format)	No interest	Some interest	Very interested
Access to spatial DB (WMS, WFS,)	No interest	Some interest	Very interested
Raw spatial data (basic spatial files)	No interest	Some interest	Very interested
Structured databases	No interest	Some interest	Very interested
In general, are you interested in	DATA	SERVICES	ВОТН

YOUR INTEREST FOR "NEW" PRODUCTS

Are you interested on new products, not available now, with a set of information and numerical data related to the climate change in Central Asia?

In general No needed Some interest

Very interested

Do you thing the following characteristics could be valuable for you?

Summarized at regional and country leve	l No interest	Some interest	Very interested
Updated systematically	No interest	Some interest	Very interested
Homogeneous on the whole region	No interest	Some interest	Very interested
With an advanced visualization	No interest	Some interest	Very interested





YOUR FOCUSED AREA IN THE CACIP

Which of the following areas (groups) are of your interest?

As a **basic user** (please select only one as "very interested" (main interest), and if your main interest is not mentioned, you can write your choice in "other area of interest")

focus area 1: food and nutritional security	No interest	Interested	Very	interested
focus area 2: sustainable agroecosystems/mitigation	No interest	Interested	Very	interested
focus area 3: risk assessment and mapping	No interest	Interested	Very	interested
focus area 4: land degradation/desertification	No interest	Interested	Very	interested
focus area 6: reforestation/forest protection	No interest	Interested	Very	interested
focus area 7: climate changes/long term forecast	No interest	Interested	Very	interested
focus area 8: socio-economic impact (*)	No interest	Interested	Very	interested
focus area 9: smartphone services to end users	No interest	Interested	Very	interested

Other area of interest: _

As a **policy / decision maker** (please select only one as "very interested" (main interest), and if your main interest is not mentioned, you can write your choice in "other area of interest")

focus area 1: food and nutritional security	No interest	Interested	Very	interested
focus area 2: sustainable agroecosystems/mitigation	No interest	Interested	Very	interested
focus area 3: risk assessment and mapping	No interest	Interested	Very	interested
focus area 4: land degradation/desertification	No interest	Interested	Very	interested
focus area 6: reforestation/forest protection	No interest	Interested	Very	interested
focus area 7: climate changes/long term forecast	No interest	Interested	Very	interested
focus area 8: socio-economic impact (*)	No interest	Interested	Very	interested
focus area 9: smartphone services to end users	No interest	Interested	Very	interested
other area of interest:		 		

(*) it includes migration, health, economic performance, livelihoods, etc.





YOUR AVAILABILITY/INTEREST TO CONTRIBUTE TO CACIP

Are you available to contribute to CACIP in the following ways?

As a basic user			
user of the platform	Not available	Available	I don't know
join the forums	Not available	Available	I don't know
use documents and training materials	Not available	Available	I don't know
use models, tools, software	Not available	Available	I don't know
your notes			
As a data and knowledge provider			
allowing the <u>permanent upload</u> on CACIP	Not available	Available	I don't know
allowing the live link to your published data	Not available	Available	I don't know
in case data available, what type of interface	e is available to <u>access data</u>	a and documents:	
API if possible, please deta	il		
your notes			(example: DataVerse API)
in case, what type of interface is available to	access your geographical	data:	
WMS server if possible, please deta	iil		
	e of sat image: https://www.gebco.net/data		
WFS server if possible, please deta	il	(example of dams in CA: http://ihp-wir	s.une sco. org/geoserver/wfs)
API if possible, please deta	ail		
		kamples: GeoServer API, ArcGIS API, Ca	rtoDB API, MapQuest API,)
your notes			
As promoters	a	nd	facilitators
promoting the use		the CACIP	among
your colleagues, clients, partners	Not interested	Interested	I don't know
If interested, what would you like to find in	the CACIP to <u>make use</u> ful p	promoting the use of it	
Forum Documents what ki	ind:		
	ind:		
your notes			



If interested, what would you like to find in the CACIP to make useful promoting the use of it

Central Asia
Central Asia CLIMATE PORTAL

DO YOU WANT TO BE PART OF THE TEAM OF CACIP

As an expert member or active contributor (your name/institution listed/acknowledge in the portal)

At individual level	Yes	No	May	be
At institutional level	Yes	No	May	be

 Do
 you
 have
 some
 ideas
 on
 how
 to
 actively
 contribute
 ?

 (example: providing monthly data, creating bulletins and disseminating through the CACIP, linking your models to the CACIP and disseminating the outputs, linking many relevant documents to the CACIP from other portals, etc.)
 inking your models to the CACIP and the cacing the cacing through through the cacing through through the cacing through through through through through the cacing through thr

5 KEYWORDS FOR THE CACIP

What 5 keywords should the CACIP brand and logo represent (e.g. sustainable livelihoods, climate change, GHG emissions, etc.)

1) _	 	 		 						
2)									 	
3)										
4) _	 									
5)	 	 	 	 			 		 	

WHAT GEOGRAPHICAL ELEMENTS AND COLOURS REPRESENT CENTRAL ASIA

If you were to visualize Central Asia, what geographical elements come to mind? (e.g. rivers, mountains, valleys, etc.)

What two colours would you associate with a brand that represents Central Asia?

Со	lor	1))	
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Color 2) _____

ONE-TO-ONE MEETING REQUEST

 The day of the consultation workshop, would you be interested to have a one-to-one meeting with our team after the lunch time?
 Yes
 No





USE OPEN SOURCE DATA OR PROJECT DERIVED WITHIN THE CACIP

The database of CACIP will include the most part of following open source data (the ones included are labeled, and the source is listed – **the list of included data is currently incomplete, a further investigation is in progress**). Are you interested in using them ? Or are you available to distribute your own via CACIP ? If you have any suggestion about source for not included data, or for additional sources, please put a hint.

GEOGRAPHICAL DATA

HISTORICAL DATA						
Content	Included (temporarily)	Use	Provide	Hint		
Hydrological databases on river basins						
Climate induced natural disaster						
Historical climate variability						
 Temperature (source https://modis.gsfc.nasa.gov/data/) Precipitation (source https://pmm.nasa.gov/GPM) Lake/reservoir levels Flows 	X X					
 Evapotranspiration (source https://modis.gsfc.nasa.gov/data/) Glaciers (source https://nsidc.org/) 	X X					
 NDVI, EVI (source https://modis.gsfc.nasa.gov/data/) Burned areas (source https://modis.gsfc.nasa.gov/data/) 	X X					
 Fire (sources <u>https://earthdata.nasa.gov/earth-observation- data/near-real-time/download-nrt-data/viirs-nrt,</u> <u>https://firms.modaps.eosdis.nasa.gov/</u>) 	X					
• Soil moisture (source <u>https://smap.jpl.nasa.gov/</u>) Climate characterization	X					
 Monthly temperature (avg, min, max)> (source http://worldclim.org/) Precipitation (source http://worldclim.org/) Bioclimatic variables (source http://worldclim.org/) 	X X X					
Your hint:						
CURRENT DATA						
Content	Included (temporarily)	Use	Provide	Hint		
<u>Temperature</u>						
Surface temperature (source https://modis.gsfc.nasa.gov/data/) Precipitation	x					
(source https://pmm.nasa.gov/GPM)						

Your hint: _____





FORECAS	STS				
	Content	Included (temporarily)	Use	Provide	Hint
Short ter	<u>m forecasts</u>				
• Te	emperature				
• Pr	recipitation				
• Sr	now water equivalent				
• Sr	now melt				
• St	tream flows				
Seasonal	weather forecasts				
Long terr	m climate projections				

Your hint: ______

PHYSICAL CHARACTERISTICS					
Content	Included (temporarily)	Use	Provide	Hint	
Land cover					
 Cover type (sources <u>https://www.esa-landcover-cci.org/</u>, <u>https://modis.gsfc.nasa.gov/data/</u>) 	X				
Glaciers/snow cover (source <u>https://nsidc.org/</u>)	X				
 Cropland (source <u>https://modis.gsfc.nasa.gov/data/</u>) 	X				
 Irrigated areas (source http://www.fao.org/land-water/land/land- governance/land-resources-planning- toolbox/categony/details/en/c/1029519/) 	X				
Crops and crop types					
 Tree cover change (source http://earthenginepartners.appspot.com/science-2013- global-forest) 	X				
Field data (such as crops, rotation)					
<u>Soil map</u>		\square			
Soil carbon density (source https://www.isric.org/explore/soilgrids)	X				
<u>Global</u> aridity index (source https://cgiarcsi.community/2019/01/24/global- aridity-index-and-potential-evapotranspiration-climate- database-v2/)	X				
Potential Evapotranspiration (source https://cgiarcsi.community/2019/01/24/global- aridity-index-and-potential-evapotranspiration-climate- database-v2/)	X				
Your hint:					

Your hint: ____

OTHER RELEVANT DATASETS

Conter	nt	Included (temporarily)	Use	Provide	Hint
Agricultural (sourcehttp://www.earthstat.org	productions	X			
Spatial production					
(source https://cgiarcsi.com	2010 (SPAM) nunity/2019/01/04/global-	X			
spatially-disaggregated-crop-pro for-2010/)	duction-statistics-data-				
Land degradation ar (source http://geoagro.icarda.org		X			
Monitoring locations				·	
Snow					
Climate					
Water levels					
Flows					
Water quality					

