

CACIP platform

Stakeholders Consultation Report, Kazakhstan



Almaty, Kazakhstan
June 14, 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 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 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

AUTHOR:

Simone Maffei

CO-AUTHORS:

Akmal Akramkhanov, Chandrashekhar Biradar, Rustam Pulatovich Ibragimov, Enrico Bonaiuti

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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 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 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: <http://cac-program.org/news/detail/541> and <http://cac-program.org/ru/news/detail/540>.

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.



Figure 1: CACIP Platform Introduction

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				73%
Do you think that it could be interesting if the Platform could provide a centralized access to the following information/data/services ?				
Question	Answer			Score
	No interest	Some interest	Very interested	
Documents case studies papers		3	6	83%
Training materials, best practices		4	5	78%
Models, tools, software		3	6	83%
General reports	2	3	4	61%
Specific bulletins	1	6	2	56%
Expert consultant services	1	4	4	67%
Maps (ready format)		6	3	67%
Access to spatial database (WMS, WFS, ...)		5	4	72%
Raw spatial data (basic spatial files)		6	3	67%
Structured databases		4	5	78%
In general, are you interested in DATA			9	100%
In general, are you interested in SERVICES			6	67%

In general, the interest for CACIP as user is very high. The average interest is 73% and it means that three people out of four are very interested in all the suggested contents. The **interest in DATA in general obtained 100% of preferences**. To be highlighted that the **interest for the more technological” data is as high as the other topics** (in the other countries these values were usually lower than the other items of the section).

Interest for USING specific GEOGRAPHICAL DATA				29%
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?				
Question			Answer	
			to USE	Score
HISTORICAL DATA (TIME SERIES)				
Hydrological databases on river basins			5	56%
Climate induced natural disaster			5	56%
Historical climate variability				
• Temperature			5	56%
• Precipitation			5	56%
• Lake/reservoir levels			4	44%
• Flows			5	56%
• Evapotranspiration			3	33%
• Glaciers				0%
• NDVI, EVI			2	22%
• Burned areas			2	22%
• Fire			2	22%
• Soil moisture			3	33%
Climate characterization				
• Monthly temperature (avg, min, max)			3	33%
• Precipitation			3	33%
• Bioclimatic variables			4	44%
CURRENT DATA				
Temperature			3	33%
Surface temperature			3	33%
Precipitation			3	33%
FORECASTS				
Short term forecasts				
• Temperature			3	33%
• Precipitation			3	33%
• Snow water equivalent			2	22%
• Snow melt			3	33%
• Stream flows			3	33%
Seasonal weather forecasts			3	33%
Long term climate projections			3	33%

PHYSICAL CHARACTERISTICS				
Land cover				
• Cover type			3	33%
• Glaciers/snow cover			2	22%
• Cropland			1	11%
• Irrigated areas			1	11%
• Crops and crop types			2	22%
• Tree cover change			1	11%
Field data (such as crops, rotation)			1	11%
Soil map			1	11%
Soil carbon density			1	11%
Global aridity index			3	33%
Potential Evapotranspiration			2	22%
OTHER RELEVANT DATASETS				
Agricultural productions			2	22%
Spatial production allocation mode 2000, 2005, 2010 (SPAM)			2	22%
Land degradation and desertification			2	22%
Monitoring locations				
• Snow			3	33%
• Climate			3	33%
• Water levels			3	33%
• Flows			3	33%
• Water quality			3	33%
• Water divisions			3	33%
GENERAL DATA				
Topography			3	33%
Drainage			2	22%
Basins, watersheds, major aquifers			3	33%
DEM			2	22%
Administrative boundaries			2	22%
Basic infrastructures			2	22%
Protected areas			2	22%

The results of this section seem not to match the results of the previous section: the scores are always lower than all the items of the previous section. Probably this section was penalized because it was at the end of the form, and also it is quite long.

The highest scores, besides temperature and precipitation, concern **hydrological and water related information, climate induced natural disasters and bioclimatic variables**: probably the ecological disaster of Aral Sea has a big impact on the sensitiveness towards climate change effects.

Interest for USING specific KNOWLEDGE DATA				28%
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?				
Question	Answer		Score	
	to USE			
Publications (reports, webinars, atlases, posters, infographics, proceedings, studies)	4		44%	
SLM practices and methodologies	2		22%	
Projects on CC Adaptation Mitigation	2		22%	
News	2		22%	

The interest in knowledge base is almost homogeneous.

Interest for NEW PRODUCTS				81%
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?				
Question	Answer			Score
	No needed	Some interest	Very interested	
In general		3	6	83%
Information summarized at regional and country level		4	5	78%
Information updated systematically		4	5	78%
Information homogeneous on the whole region		3	6	83%
Information with an advanced visualization...		3	6	83%

This section shows the biggest differences compare with the results of the other countries. The general interest for new products is really high (81%). Another interesting finding is that **Kazakhstan is the only country to show a big interest in information homogeneous on the whole Central Asia**.

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				31%
Are you available to contribute to CIP in the following ways?				
Question	Answer			Score
	Not available	Available	I don't know	
Basic user: user of the platform		6	1	67%
Basic user: join the forums		5	3	56%
Basic user: use documents and training materials		6	1	67%
Basic user: use models, tools, software		6	3	67%
Data provider: allowing the permanent upload on CIP	4	2		22%
Data provider: allowing live link to your published data	4	2		22%
Data provider: API for documents				0%
Data provider: WMS server				0%
Data provider: WFS server				0%
Data provider: API for geographical data				0%
Promoters: promoting the use of the CACIP among colleagues, clients, partners	1	5	1	56%
Promoters: do you want to promote for forum?				0%
Promoters: do you want to promote for documents?				0%
Promoters: do you want to promote for maps?		5		56%
Promoters: do you want to promote for data?		5		56%

The **general score (31%)** is quite low, mainly for the item related to providing and sharing information.

Interest to be PART OF THE TEAM				50%
Do you want to contribute as an expert member or active contributor (your name/institution listed/acknowledge in the portal) ?				
Question	Answer			Score
	Not available	Available	I don't know	
At individual level	1		4	44%
At institutional level			5	56%

These results are a little higher than the previous section. **It seems that there is a personal willingness to contribute and participate to CACIP, but there are some constraints that inhibit the opportunities of sharing the own data.**

Interest for PROVIDING specific GEOGRAPHICAL DATA				8%	
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?					
Question				Answer	
				to PROVIDE	Score
HISTORICAL DATA (TIME SERIES)					
Hydrological databases on river basins				1	11%
Climate induced natural disaster					0%
Historical climate variability					
• Temperature				1	11%
• Precipitation				1	11%
• Lake/reservoir levels					0%
• Flows				1	11%
• Evapotranspiration					0%
• Glaciers				1	11%
• NDVI, EVI					0%
• Burned areas					0%
• Fire					0%
• Soil moisture				2	22%
Climate characterization					
• Monthly temperature (avg, min, max)					0%
• Precipitation					0%
• Bioclimatic variables					0%
CURRENT DATA					
Temperature				1	11%
Surface temperature				1	11%
Precipitation				1	11%
FORECASTS					
Short term forecasts					
• Temperature				1	11%
• Precipitation				1	11%
• Snow water equivalent					0%
• Snow melt				1	11%
• Stream flows				1	11%
Seasonal weather forecasts				1	11%
Long term climate projections				2	22%

PHYSICAL CHARACTERISTICS				
Land cover				
• Cover type				0%
• Glaciers/snow cover			1	11%
• Cropland			1	11%
• Irrigated areas			1	11%
• Crops and crop types			1	11%
• Tree cover change				0%
Field data (such as crops, rotation)			1	11%
Soil map			1	11%
Soil carbon density			1	11%
Global aridity index				0%
Potential Evapotranspiration				0%
OTHER RELEVANT DATASETS				
Agricultural productions				0%
Spatial production allocation mode 2000, 2005, 2010 (SPAM)				0%
Land degradation and desertification				0%
Monitoring locations				
• Snow			1	11%
• Climate			1	11%
• Water levels			1	11%
• Flows			1	11%
• Water quality			1	11%
• Water divisions			1	11%
GENERAL DATA				
Topography				0%
Drainage				0%
Basins, watersheds, major aquifers			2	22%
DEM			2	22%
Administrative boundaries			1	11%
Basic infrastructures			2	22%
Protected areas			1	11%

This section confirms the previous considerations: **the average score (8% for geographical data, 6% for knowledge data) is one of the lowest among all countries.**

Interest for PROVIDING specific KNOWLEDGE DATA			6%
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?			
Question	Answer		Score
	to PROVIDE		
Publications (reports, webinars, atlases, posters, infographics, proceedings, studies)			0%
SLM practices and methodologies	1		11%
Projects on CC Adaptation Mitigation			0%
News	1		11%

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.

As it often happens (in almost all countries), from the point of view of the user, the highest interest is for climate change related information, compared with the decision makers that are more sensitive to the problems of food and nutritional security.

What needs to be highlight is **the big difference between the general interest as users (70%) compared with the interest as decision makers (13%).**

Selected FOCUSED AREAS (as BASIC USER)					70%
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...")					
Question	MEN				Score
	No needed	Some interest	Very interested		
food and nutritional security		4	5		78%
sustainable agroecosystems/mitigation		3	6		83%
risk assessment and mapping		4	5		78%
land degradation/desertification		4	5		78%
reforestation/forest protection	3	4	2		44%
climate changes/long term forecast		2	7		89%
socio-economic impact (*)	4	1	4		50%
smartphone services to end users	2	3	4		61%
other...					

Selected FOCUSED AREAS (as POLICY / DECISION MAKER)				13%
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...")				
Question	Answer			Score
	No needed	Some interest	Very interested	
food and nutritional security		1	3	39%
sustainable agroecosystems/mitigation			1	11%
risk assessment and mapping			2	22%
land degradation/desertification				0%
reforestation/forest protection				0%
climate changes/long term forecast		1	1	17%
socio-economic impact (*)				0%
smartphone services to end users			1	11%
other...				

Major highlights from questionnaire

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

Interest as USER of CACIP	73%
Interest for USING specific GEOGRAPHICAL DATA	29%
Interest for USING specific KNOWLEDGE DATA	28%
Interest for NEW PRODUCTS	81%
Interest as CONTRIBUTOR to CACIP	31%
Interest to be PART OF THE TEAM	50%
Interest for PROVIDING specific GEOGRAPHICAL DATA	8%
Interest for PROVIDING specific KNOWLEDGE DATA	6%
Selected FOCUSED AREAS (as BASIC USER)	70%
Selected FOCUSED AREAS (as POLICY / DECISION MAKER)	13%

Based on the stakeholder interest survey, we found that the main findings is that:

- there is a big difference between the interest to CACIP as users, and as general contributor too, compared with the very low availability to provide and share data
- This result is present in all section of the survey (i.e.: interest to be contributor 31%, to be part of the team of CACIP 50%, and availability to provide data 8% for geographical data and 6% for knowledge data.
- As peculiarities, compared to other countries:
- there is a big interest in hydrological and water related information, climate induced natural disasters and bioclimatic variables (maybe related to the Aral Sea disaster?)
- there is a strong awareness of the importance of a "regional approach to the problems" (Kazakhstan is the only country to show a big interest in information homogeneous on the whole Central Asia)

Summary of stakeholders' feedbacks based on discussions



Figure 2: Stakeholders interaction with Project Team for qualitative feedback.

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 to be considered could be in the domain of Hydrology and fisheries if available. The impact of climate change (temperature rise) on forest and fish farming. Forecast of fish population (decreasing or increasing) in water resources (lakes, rivers, sea etc.) for 3-5-10 years. Climate anomaly data. Expert data is required to cover temperature of water, soil and level of water resources (lakes, rivers, pond etc.).
2. Representatives on globalization, digitalization and aerospace agencies could be consulted for their data.
3. Food security and safety. International organizations and local authorities are systemizing the data on the improvement of land use, crop area, and management of pastures and fodder production. Increase in crop yields (e.g. wheat and other agricultural crops). Improvement of soil fertility. The platform should cover all these data for the nearest future (2050). Forecast of water resources and fisheries.
4. The platform may consider a network of independent analysts and experts. Able to answers questions such as reduction of investment in the agricultural sector for a given country (e.g. Kazakhstan)
5. Maps of crop areas and pastures are required. No concrete and accurate data on farm locations.
6. Analysis of agrochemical on soil could be another data domain.
7. The platform has to focus on climate change impact regionwise. Some users will require short-term information on its impact, and the others need long-term data. Sectoral indicators must be taken into consideration. What will happen and change in sectors of interest to them (sectors of economy). For example, change in ground vegetation, fish species. It is necessary to concentrate on climate change impact on sectors of the national economy.
8. Forecast data and simplified format are required. Good quality satellite information on level of floods, risk zones, calamities, drought monitoring are very important. Data on temperature intersection, characterization of precipitation, how will they change? The frequency of drought and what will happen under climate conditions. No long-term analysis of drought, there are too many indices of drought, what kind of them will be used. A list of indices are needed. Global precipitation index, historical and future forecast data. Identification of risk zones and spatial visualization.
9. There are pasture maps, but it is not good/comfortable to use them. Initial data depends on the source of funding. It is important to update maps on grassland degradation, what caused this degradation, is it the overgrazing or other factors (climate change etc.)? How to stop this process and what measures should be

taken? Accessibility and availability of data are of paramount importance. Projection and forecast on livestock and pastures.

10. Information on hydrology and water resources. Data on air, surface and water temperature, depth of rivers, lakes and water quality to be taken into account. There some open data, but there is no access to them, and they are unprotected. Data should be automated and digitalized, it is done only manually. Seasonal water level fluctuations are important.
11. Soil maps to be updated. It is necessary to have spatial and point-based data at different levels, systemization of these data and mapping.

Users and Usage

1. Data are closed and there is no computerized information. The platform should stimulate discussion on How to solve this problem. The comprehensive approach is needed.
2. Data can be for different users. As an example: there is platform in one of the universities in Japan on the use of all scientific articles around the world. Some of these articles could be fee based in external sources, but on this platform this article can be found free. There is separate access for each user. Therefore, those responsible for platform implementation have different expenses related to collection of articles from external resources. This way university facilitates and supports its students.

Maintenance

1. Data collection mechanism are important for future sustainability. A management plan is needed once the platform is ready for handover. The plan should include concepts of sustainability, ownership, decision making. It would be important to consider different stakeholders including the decision makers.

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. Project team will also set one-to-one meeting with key stakeholders not able to join the meeting.



Figure 3: Workshop closing photo

Annex 1 Workshop agenda

TIME	AGENDA ITEM	PRESENTER
8.00-8.30	– Registration	
8:30-9.00	<ul style="list-style-type: none"> – Welcome and Opening Remarks Mr. Rustam Ibragimov, Deputy Regional Coordinator, ICARDA-CAC Mr. Zafar Makhmudov, Executive Director, CAREC Ms. Irina Bekmirzaeva, Program Manager, Coordinator of CAMP4ASB Project, CAREC – Introduction to Central Asia Climate Information Platform and Regional Framework (CAMP4ASB) 	A. Akramkhanov
9.00-10.00	<ul style="list-style-type: none"> – Platform Concept, Design Framework and main building blocks – Action plan, Participation and Sustainability – Q&A 	C. Biradar
10.00-10.30	<ul style="list-style-type: none"> – Informative Survey on current situation on Data and Information. <p><i>Note: to ensure that at least one institutional contact person is identified for each present stakeholder</i></p> <p><i>Note: to ensure that the focus area has been filled</i></p>	Facilitated by A. Akramkhanov
10.30-11.00	<i>Coffee break</i>	
11.00-12.00	<ul style="list-style-type: none"> – 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: <ol style="list-style-type: none"> 1) “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” 2) Main formats/channels to share knowledge (e.g. SMS, MobApp, Telegram, mobile version of web-site) 3) should knowledge be free or paid? Do you have existing examples? <p>Summary of discussion will be consolidated by the team rapporteur.</p>	Facilitated by A. Akramkhanov
12.00-13.00	<ul style="list-style-type: none"> – Plenary Restitution – Q&A 	Facilitated by A. Akramkhanov
13.00-14.00	<i>Lunch break</i>	
14.00-14.45	– Stakeholder profiling	
14.45-16.30	– One-to-One meeting (based on participants interest indicated inside the previous “Informative Survey”)	C. Biradar



Annex 2 List of invited organizations and participants

A total of 19 participants (68% female) out of 26 attended the consultation. Typology of stakeholders encompassed NARS, Ministries/Government Agencies, Financial Institutions/Aid Agencies, Academia, Nongovernmental Organization and International Organizations.

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.

KazHydromet

All information is located on www.kazhydromet.kz

Several other organizations collected the form to fill and sent by email. The full profiling will be available in the related project deliverables.



**Central Asia
CLIMATE PORTAL**

Annex 4 Questionnaire for informative survey

CENTRAL ASIA CLIMATE INFORMATION PLATFORM

INFORMATIVE SURVEY

INSTITUTION, ORGANIZATION

Name _____ Email _____

Organization _____

Address _____

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 <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Training materials, best practices	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Models, tools, software	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
General reports	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Specific bulletins	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
if interesting, with which interval update	Yearly <input type="checkbox"/>	Monthly <input type="checkbox"/>	Other _____
Expert consultant services	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Maps (ready format)	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Access to spatial DB (WMS, WFS, ...)	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Raw spatial data (basic spatial files)	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Structured databases	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
In general, are you interested in....	DATA <input type="checkbox"/>	SERVICES <input type="checkbox"/>	BOTH <input type="checkbox"/>

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 level	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Updated systematically	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
Homogeneous on the whole region	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>
With an advanced visualization...	No interest <input type="checkbox"/>	Some interest <input type="checkbox"/>	Very interested <input type="checkbox"/>



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

other area of interest: _____

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



Central Asia
CLIMATE PORTAL

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 permanent upload 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 is available to access data and documents:

API ☐ if possible, please detail _____
(example: DataVerse API)

your notes _____

in case, what type of interface is available to access your geographical data:

WMS server ☐ if possible, please detail _____
(example of sat image: https://www.gebco.net/data_and_products/gebco_web_services/web_map_service/mapserv/)

WFS server ☐ if possible, please detail _____
(example of dams in CA: <http://ihp-wins.unesco.org/geoserver/vfs/>)

API ☐ if possible, please detail _____
(examples: GeoServer API, ArcGIS API, CartoDB API, MapQuest API, ...)

your notes _____

As **promoters** and **facilitators**
promoting the use of 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 make useful promoting the use of it

Forum ☐ Documents ☐ what kind: _____

Maps ☐ Data ☐ what kind: _____

your notes _____



Central Asia
CLIMATE PORTAL

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

Forum ☐ Documents ☐ what kind: _____

Maps ☐ Data ☐ what kind: _____

your notes _____

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.)

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?

Color 1) _____ 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 ☐



**Central Asia
CLIMATE PORTAL**

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
<u>Hydrological databases on river basins</u>		<input type="checkbox"/>	<input type="checkbox"/>	
<u>Climate induced natural disaster</u>		<input type="checkbox"/>	<input type="checkbox"/>	
<u>Historical climate variability</u>				
<ul style="list-style-type: none"> • Temperature (source https://modis.gsfc.nasa.gov/data/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Precipitation (source https://pmm.nasa.gov/GPM/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Lake/reservoir levels 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Flows 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Evapotranspiration (source https://modis.gsfc.nasa.gov/data/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Glaciers (source https://nsidc.org/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • NDVI, EVI (source https://modis.gsfc.nasa.gov/data/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Burned areas (source https://modis.gsfc.nasa.gov/data/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Fire (sources https://earthdata.nasa.gov/earth-observation-data/near-real-time/download-nrt-data/viirs-nrt, https://firms.modaps.eosdis.nasa.gov/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Soil moisture (source https://smap.jpl.nasa.gov/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Climate characterization</u>				
<ul style="list-style-type: none"> • Monthly temperature (avg, min, max)> (source http://worldclim.org/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Precipitation (source http://worldclim.org/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Bioclimatic variables (source http://worldclim.org/) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Your hint: _____

CURRENT DATA				
Content	Included (temporarily)	Use	Provide	Hint
<u>Temperature</u>		<input type="checkbox"/>	<input type="checkbox"/>	
<u>Surface temperature</u> (source https://modis.gsfc.nasa.gov/data/)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Precipitation</u> (source https://pmm.nasa.gov/GPM/)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Your hint: _____

FORECASTS				
Content	Included (temporarily)	Use	Provide	Hint
<u>Short term forecasts</u>				
• Temperature		<input type="checkbox"/>	<input type="checkbox"/>	
• Precipitation		<input type="checkbox"/>	<input type="checkbox"/>	
• Snow water equivalent		<input type="checkbox"/>	<input type="checkbox"/>	
• Snow melt		<input type="checkbox"/>	<input type="checkbox"/>	
• Stream flows		<input type="checkbox"/>	<input type="checkbox"/>	
<u>Seasonal weather forecasts</u>				
		<input type="checkbox"/>	<input type="checkbox"/>	
<u>Long term climate projections</u>				
		<input type="checkbox"/>	<input type="checkbox"/>	

Your hint: _____

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

Your hint: _____

OTHER RELEVANT DATASETS				
Content	Included (temporarily)	Use	Provide	Hint
<u>Agricultural productions</u> (source http://www.earthstat.org/)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Spatial production allocation mode 2000, 2005, 2010 (SPAM)</u> (source https://cgicrcsi.community/2019/01/04/global-spatially-disaggregated-crop-production-statistics-data-for-2010/)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Land degradation and desertification</u> (source http://geoagro.icarda.org/cldd/)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Monitoring locations</u>				
• Snow		<input type="checkbox"/>	<input type="checkbox"/>	
• Climate		<input type="checkbox"/>	<input type="checkbox"/>	
• Water levels		<input type="checkbox"/>	<input type="checkbox"/>	
• Flows		<input type="checkbox"/>	<input type="checkbox"/>	
• Water quality		<input type="checkbox"/>	<input type="checkbox"/>	