



**Central Asia
CLIMATE PORTAL**

CACIP Newsletter

Issue 3

March 2020

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4. CACIP Frequently Asked Questions
5. Insights about the 2nd issue of Newsletter.



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CACIP TEAM

congratulating You
with the upcoming
NAVRUZ FESTIVE
wish You success
in all endeavors.



This year we will present
you the FULL VERSION
OF THE PLATFORM



Form the CONSORTIUM
OF THE PLATFORM



Finalise the
development of CACIP
in October 2020 and
invite you to full use of
the Platform

Happy Navruz!!!

"The Boy with watering can", street art: mural, Bishkek, Kyrgyzstan.

The Photo is taken from Facebook page of Doha Art group



Khujand Tajikistan, photo by Kanoat Umurzokova, 29.08.2019

The opening of the workshop by CEP



The workshop was held on 11th of February 2020 in Dushanbe (Tajikistan) to conduct the country consultation for CACIP to discuss with national stakeholders the "Farmers' access to CACIP products". The event was jointly hosted by the State Committee on Environmental Protection (CEP) of Tajikistan and Project Implementation Group under CEP; and overall there were 26 participants

Q&A with Enrico Bonaiuti



In the second part of the workshop, in **3 groups** participants discussed the following:

- ❖ **Needs of farmers for data and best practices** (based on previous consultations held with farmers in Tajikistan), and list of factors limiting their access to the Platform.
- ❖ **Ways to provide farmers with data and best practices in collaboration with CACIP.**

Group work discussions



Find more in News: "[Inson va Tabiat](#)" CEP in [Tajik](#) and [Russian](#). The Regional Program for Sustainable Agricultural Development in Central Asia and Caucasus in [English](#) and [Russian](#). Printed journal [Inson va Tabiat N 4-5, \(105\)](#) February 2020, page 9.

BRIEF ON DEVELOPMENT PROCESS OF THE PLATFORM

The technical team is working on developing and launching Demo version of CACIP.



All web sites go through several stages of development: **Alpha, Beta and Full version.**

Alpha
The first stage of a very early version of a web site is Alpha testing. At this stage, the first appearance and some static pages of the web site is launched.

Beta
Beta version, is next level of the web site, where tested features in Alpha version is reflected.

Both versions Alpha and Beta will contain selected features that are planned for the final version. The further development of the web site will be built on these versions, and the succession of the static pages can be observed over the development period.



CACIP Demo version



Photo: by author, C. Biradar, taken on 8/8/2019

Revitalizing agroecosystems for combating climate change

OPINION PIECE FROM INTERNATIONAL EXPERT

By Dr. Chandrashekhar Biradar, ICARDA
[Visit ORCID Profile](#)

WHEN WE THINK about environmental degradation and climate change, the first thing come to our mind are cars and factories, but not the food we eat, clothes we wear and our lifestyle. If we collectively put these things together accounts nearly half of the contribution. The environmental impact of these unsustainable agricultural practices varies from the way we grow food, forage, fiber, consume and dispose. Just look at the drastic shift in diet pattern in the last three decades which reduced to merely few staple crops and industrial meat itself has significant impact on the climate and future food, water, nutrition and planetary health. This calls for pressing needs for revitalizing the predominantly **'homogenous agriculture'** to **'diversified agroecosystems'** to ensure health of the people, animals, soil and the beautiful landscapes.

Image below example of integrated agroecosystem showing multi-storey cropping system to better harness sunlight, nutrient cycle and overall system efficiency.

Photo: by author: C. Biradar, taken on 24/09/2018



Agroecosystems with rich-crop diversity in symbiotic mixture in systemic rotation is key for establishing vital agroecosystem that nurtures every living creature while producing abundance of food, forage, fiber and ecosystem services.

AN IDEAL AGROECOSYSTEM is always ‘inclusively functioning system’ integrated with multiple-crops, multi-purpose trees species and bio-pulverizing livestock to produce vital-food, real-forage, natural-fiber and simultaneously preserving health of living soils and restoring ecosystem functions. This collective action of the feedback mechanism leads to restoring planetary health boundary and combating climate change. This certainly require quantifying functional domains that are fit for ecologically sound production and consumerism become essential entry point for any sustainable developmental goals whether it is choice of crops, varieties, diversification, efficient feedback loops (use of farm inputs) for achieving economically viable and ecologically sustainable.

GOOD THING IS THAT,

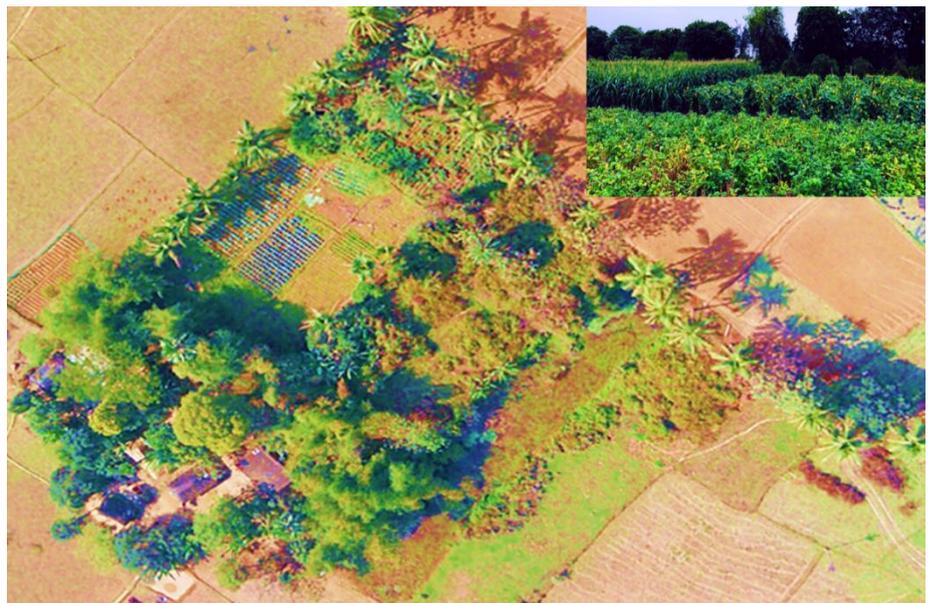
we still have hope to reserve the trend with recent advances in technological innovations. The effectively engaging citizen science with technology can create an enabling environment for integrating ideal mixture of local knowledge with global intelligence making digital augmentation for sustainable production and consumption much viable, smarter, interoperable and scalable ever before. This has opened tremendous opportunity to address the gaps at multiple levels (e.g., data, yield, nutrition, ecology, economy, resilience) for demand-driven ecological interventions across the scale (e.g., space, time and package). Ongoing efforts in demand driven interventions aims at accelerating sustainable agroecosystems through quantifying functional domains and drivers to target site specific interventions and calls for collective actions for scaling to mainstream agriculture production and consumption that contributes significantly. This clearly defines the prospects and potential role of inclusive agroecosystems in combating climate change supported by paradigm shift in diet pattern, lifestyle and accelerating across agroecological landscapes.



Dr. Chandra Shekhar Biradar is a Principal Scientist and Head of the Geoinformatics and Data Management Units at ICARDA with focus on GeoAgro, Big Data and ICTs for complex system research and resilient agroecosystems.

Before joining ICARDA in 2013, he was professor and researcher at the University of Oklahoma in Norman (USA), where he worked on a number of federally-funded projects. Biradar received his Ph.D. in remote sensing and environmental sciences from the University of Pune, India, and post-doctoral fellowship at the Institute for the Study of Earth, Ocean and Space at the University of New Hampshire, USA. He also earned a master’s degree in genetic engineering from the University of Horticulture and Forestry in Solan, India. His current research focus on digital augmentation for revitalizing sustainable agroecosystems for improving food, nutritional and ecological security. Dr. Biradar has authored over 200 publications, including 125+ peer reviewed journal articles, 25 books/book chapters. He has received numerous awards and honors, including Best Team Initiative, Young Scientist, and Outstanding Scientist Awards.

The real potential of combating climate change relies in revitalizing agroecosystems which is economically viable and ecologically sustainable with diversified crops, varieties, trees and livestock to produce vital food, forage, fiber and preserve soil health and ecosystem functions and services.

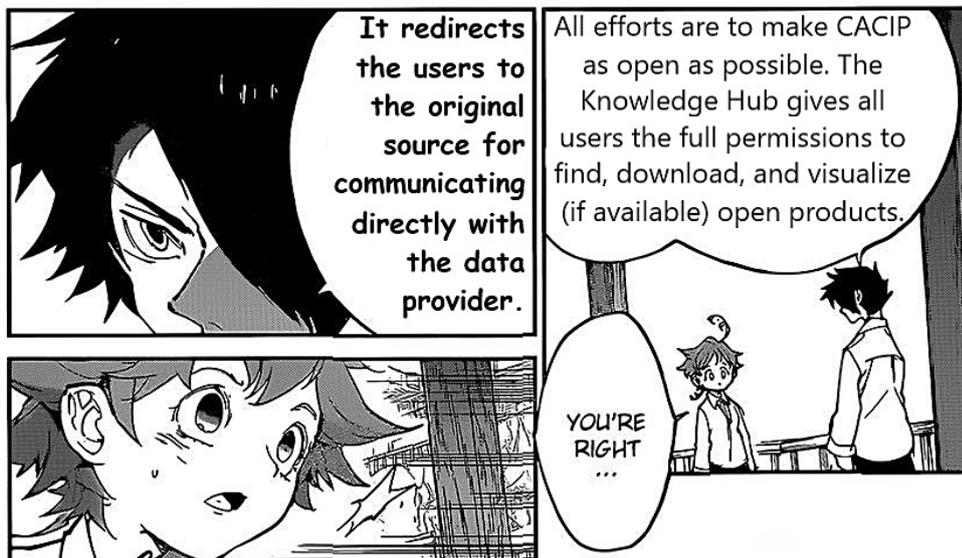
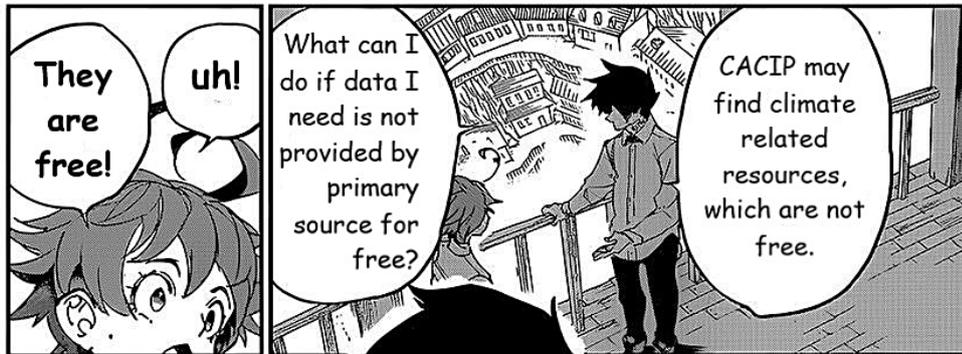


Diversified farming systems with right combination of crops, trees and livestock is the future of sustainable living and planetary health

THE PROMISED CENTRAL ASIAN CLIMATE PLATFORM



More questions addressed in FAQ document

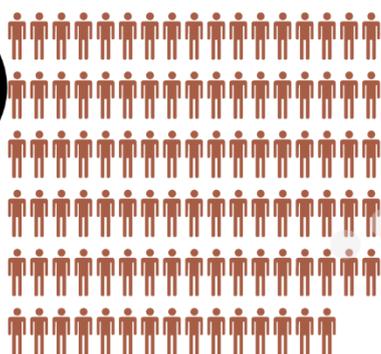


Acknowledgement:
Based on motives of Japanese manga "The promised Neverland" the 4th bestselling manga in 2019.

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SOME INSIGHTS ABOUT THE 2ND ISSUE OF NEWSLETTER

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CACIP Newsletter Issue 2

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2. [ICARDA - Science for Resilient Livelihoods in Dry photostream Chickpea](#)
3. [Piktochart](#)
4. C. Biradar, Integrated agroecosystem showing multi-storey cropping system to better harness sunlight, nutrient cycle and overall system efficiency, taken on 8/8/2019
5. C. Biradar, Integrated agroecosystem showing multi-storey cropping system to better harness sunlight, nutrient cycle and overall system efficiency, taken on 24/09/2018
6. C. Biradar, Diversified farming systems with right combination of crops, trees and livestock is the future of sustainable living and planetary health, taken on 24/09/2018
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