www.nuscommunity.org









News and Events



Videos show participatory research for conservation and value chain development of wild fruits in the Western Ghats





NUS Community Food First RT @foodfirstorg: Seed Libraries Fight for the Right to Share (via @Shareable) http://t.co/oYW54yUiZJ

Gennifer Meldrum, Bioversity International

Goals:

- Communicate results from Bioversity International's work on neglected and underutilized species (NUS)
- Act as information hub on NUS
 - Highlight interesting research
 - Connect practitioners around the world















Home

About Us

Research

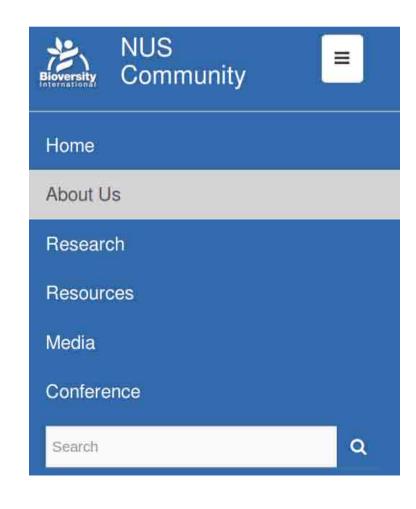
Resources

Media

Conference

Mobile-Responsive:

Layout changes with different screen sizes (mobile, ipad, desktop)





Home About Us

We are a community of researchers at Bioversity International investigating how neglected and underutilized crop and tree species can be leveraged to strengthen food security, build resilience and empower poor communities. Find out more about who we are and the important role of neglected and underutilized species in the following pages:



Research Community

We are developing and testing methods to leverage neglected and underutilized species to achieve food security and sustainability benefits. This website shares our findings and other developments in the field.



Neglected and Underutilized Species

Thousands of edible plant species have been cultivated and collected by humans throughout history but modem agriculture is dominated by just three crops. The plants overlooked by agricultural development could be critical to better nutrition, sustainability and poverty reduction.



Bioversity International

We are based at Bioversity International, a global researchfor-development organization that delivers scientific evidence, management practices and policy options to use and safeguard agricultural biodiversity to attain global food and nutrition security.



Partners

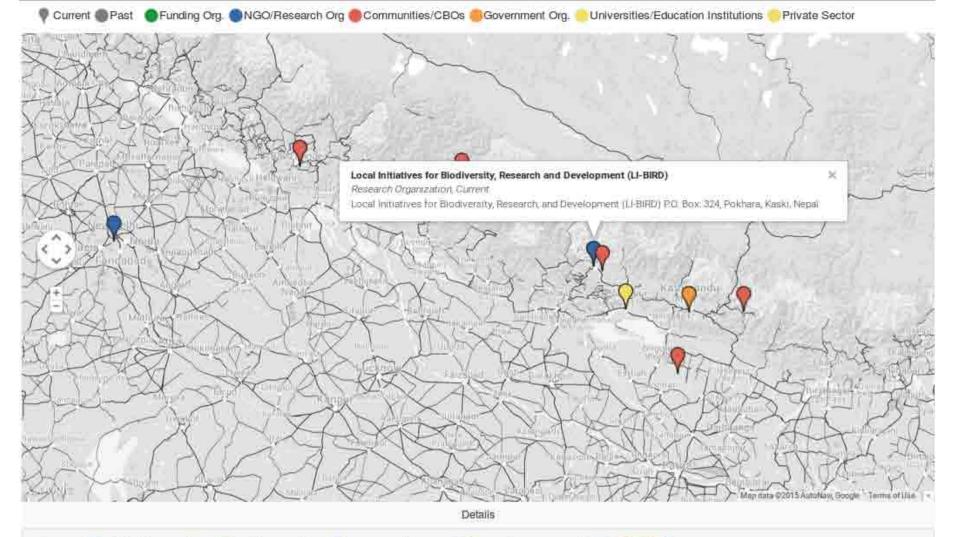
Our partners include research organizations, NGOs, gene banks, farmer cooperatives and private sector actors who are critical to the success of our work.



Home About Us Partners

Our partners include research organizations, NGOs, gene banks, farmer cooperatives and private sector actors who are critical to the success of our work. Below you can find information about our current and past partners and links to their webpages. On desktop you can navigate using the map, but you can also view the list, which is shown in mobile or with a small browser window.





Local Initiatives for Biodiversity, Research and Development (LI-BIRD)

Research Organization, Current

Local Initiatives for Biodiversity, Research, and Development (LI-BIRD) P.O. Box: 324, Pokhara, Kaski, Nepal

LI-BIRD is a non-profit making, non-governmental organization that is committed to capitalizing on local initiatives for sustainable management of renewable natural resources in order to improve the livelihoods of rural poor and marginalized farmers, especially women. LI-BIRD is a pioneer organization in strengthening participatory methodologies for research and development in agriculture, biodiversity conservation and sustainable natural resource management. LI-BIRD has played an instrumental role in institutionalizing these approaches in the national systems of Nepal. Through partnerships in development-oriented research, LI-BIRD has contributed to several innovative methodologies and approaches for participatory research and development and generated impacts that have enhanced the livelihoods of rural poor and marginalized farmers through appropriate technological, social and policy changes.



Home Research

Our work on neglected and underutilized species centers around four themes that are highly inter-related. Value chain development aims to leverage the nutritional and sustainability benefits of target species, including their hardiness to environmental stress, and is meant to contribute to the conservation of the species by providing incentive to farmers to continue and upscale their cultivation. Capacity building underpins all aspects of our work, including training and policy advocacy to enable conservation, research and development of target species. Currently we have two major projects on neglected and underutilized species but over the past 40 years at Bioversity International we have carried out numerous research projects on this topic. Information on our research themes, current projects and some of our past projects is available below.

Themes



Value Chain Development

Our holistic approach bridges conservation and use and leverages nutrition and sustainability benefits.



Climate Change Adaptation

We are investigating the role of stress-tolerant crops and on-farm conservation for climate change adaptation.



On-Farm Conservation

We are developing methods to support on-farm conservation of neglected and underutilized species such as diversity fairs and community seed banks.



Capacity Building & Policy Advocacy

We work to develop a supportive policy environment and to build the skill base for a long lasting impact.

Projects

IFAD-NUS III-IV

Reinforcing the resilience of poor rural communities in the face of food insecurity, poverty and climate change through on-farm conservation of local agrobiodiversity (2011-present).

ACP-EU Value Chains

Strengthening capacities and informing policies for developing value chains of neglected and underutilized crops in Africa (2014present)

Project Archive

Value Chain Development



Home Research Themes Value Chain Development

We live in a highly interconnected world faced with a multitude of interacting pressures: poverty, hunger, environmental degradation, climate change, and a growing human population. We need solutions for agricultural development that can enhance food security and reduce poverty through more efficient and sustainable means.

Holistic Approach

We have been developing and testing a holistic approach to value chain development of neglected and underutilized species that addresses issues across the inter-related segments of the value chain, bridges the gap between conservation and use, and leverages the nutrition and sustainability benefits of target crops to achieve livelihood and sustainability benefits.

Through a multi-stakeholder, participatory, inter-disciplinary, pro-poor and gender-sensitive approach, activities undertaken in this framework span from seed selection and enhancing cultivation, post-harvest, value addition, and marketing to surveying, collecting and conserving genetic diversity. Capacity building supports all aspects and includes training farmers and researchers, as well as lobbying to establish a supportive policy environment.

Conservation of crop genetic resources is a major aspect of the approach that is pursued actively by conserving material ex situral and strengthening on-farm conservation through various methods, such as diversity fairs and community seed banks. It is also intended that the value chain development in itself stimulates conservation by providing incentive to continue and upscale cultivation of target species.

This approach has been developed and tested prominently through the decade-long IFAD-NUS project which worked to promote:

- Andean grains in South America
- · Minor millets in South Asia
- Medicinal and aromatic plants in Western Asia

A similar approach to value chain development has also been applied for leafy vegetable promotion in Africa, promotion of wild fruit value chains through the UNEP-GEF Tropical Fruit Tree project and promotion of native capsicum in Peru through the BMZ-Bioversity International Project. Visit the Bioversity International page for more information on all their projects on marketing diversity.

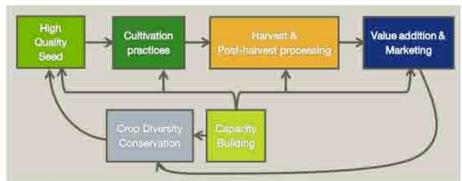


Diagram showing aspect of the value chain addressed in the holistic approach to promotion of neglected and undeutilized species. Conservation is both an activity and a result of the process and capacity building underpins all aspects.

Tnemes

- » Value Chain Development
- Climate Change Adaptation
- » On-Farm Conservation
- » Capacity Building & Policy Advocacy
- Projects

Publications

Marketing underutilized species: mestrategy of Bioversity International, Presentation slides Padulosi

2013.
Using Markets to Promote the Sustainable

Resources. Anderson et al 2009.

Utilization of Crop Genetic

Promoting Value Chains of Neglected and Underutilized Species for Pre-Poor Growth and Biodiversity Conservation, Will 2008.

Realizing the benefits in neglected and underutilized plant species through technology transfer and human resources development. Padulosi et al 2003.

Projects

IFAD-NUS I-II

IFAD-NUS III-IV

Value Chains & Capacity

I News and events

Videos show participatory research for conservation and value chain development of wild fruits in the Western Ghats Home, Research Projects IFAD NUS III & IV

Reinforcing the resilience of poor rural communities in the face of food insecurity, poverty and climate change through on-farm conservation of local agrobiodiversity (2011 - present)

Climate Change Resilience and Traditional Crops

Phases III and IV of the IFAD NUS project aim to enhance the resilience of rural communities to climate change by strengthening the conservation and use of local agricultural biodiversity. The project is investigating the role of agricultural biodiversity and neglected and underutilized species in climate change adaptation and exploring means to leverage their contribution to enhance food security, nutrition, and income-generation in face of weather challenges. The primary target group and beneficiaries of the project are poor farmers, women's groups and other users who rely on local crops for their food security, income and other livelihood benefits.

Bioversity International is global coordinator of the project, which is being implemented in Nepal, India, and Bolivia under the coordination of Local Initiatives for Biodiversity Research and Development (U-BIRD), M.S. Swaminathan Research Foundation (MSSRF), and Fundación Promoción e Investigación de Productos Andinos (PROINPA). This work fits within the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS).



A millet food fair held in Mandia, Madhya Pradesh, Photo Credit Stefano Padulosi, Bioversity International

Objectives

- Develop and test new methods and tools in close partnership with farmers and value chain actors aimed at enhancing their capacities to sustainably conserve traditional crops and associated knowledge at the farm level
- Develop and test highly participatory, community-based approaches, methods and tools for documenting local agrobiodiversity and assessing the values, threats and competitiveness of crops relevant to the rural poor, within a climate change context

IFAD NUS III & IV

Contacts

Publications

On farm conservation of neglected and underutifized species; status trends and novel approaches to cope with climate change. Padulosi et al (eds) 2011

Underuttlized species and climate change: current status and outlook. Padulosi et al.

Agricultural biodiversity enhances capacity to adapt is climate change. Meldrum et al. 2013

Bullding on farmers' perception and traditional knowledge: Blodiversity management for climate change adaptation strategies. Briefing note Oxfam Novib et al 2013.

Methodology mapping for resilient production systems: approaches and results from surveys in Bolivia, India, and Napal. Presentation slides Meldrum et al. 2013

Role of on-farm/in situ conservation and underutilized crops in the wake of climate change. Sthapit et al 2009.

Food security and alimate change, role of plant genetic resources of minor millets. Padulosi et al 2009

Themes

Climate Change Adaptation

On-Farm Conservation

Connectity Origination C Delicary Advanced



Home Resources

We strive to encourage sharing and exchange of information, experiences and resources between researchers of neglected and underutilized species. In this section, research papers and products emerging from our work can be downloaded and links to other useful resources on neglected and underutilized species are provided.



Our Publications

Books, articles, conference proceedings, training manuals, technical briefs and fact sheets emerging from our work, as well as presentation sildes and posters.



Links

There are several other organizations carrying out research on neglected and underutilized species. Here we provide links to useful websites and resources for the field.



News Feed

We provide reviews and alerts on important developments in the field of neglected and underutilized species and topics linked to our research themes.



Reading Group

Our Mendeley Reading Group is a growing collection of important references related to negected and underutilized species. Take a look and help build the list with some contributions.

Contact us Forum Mailing list















Our Publications

Home Resources Our Publications

Our research on neglected and underutilized species is published in books, journal articles, conference proceedings and other document types. We also share our work in oral presentations and posters. You can access these documents on this page. The most recent 10 publications are displayed initially but we have nearly 200 documents in the database, which you can access by navigating categories of interest using the bar below. The categories that can be toggled are: Research Theme, Crop, Publication Type. Project, and Language.



Our Publications

Links

Reading Group

News & Events

Subscribe to our RSS



Proyecto NUS IFAD III: Reforzar la resiliencia de las comunidades rurales pobre ante la inseguridad alimentaria, la pobreza y el cambio climático a través de la conservación en fincade la agrobiodiversidad local

Presentation on the activities and outcomes of the IFAD NUS III-IV project in Bolivia.

By Rojas, W., 2015



Nuestros avances: Vincolo con los bancos de germoplasma (IFAD-NUS III).

Presentation on links made between ex situ and in situ conservation through the IFAD-NUS project in Bolivia delivered at the final project meeting in...

By INIAF Centro Toralapa, 2015



La conservación in situ y el rol de los agricultores custodios en la revalorización de la agrobiodiversidad

Presentation on the role of custodian farmers in the revalorization of agricultural biodiversity delivered by INIAF at the final IFAD-NUS meeting in...

By Ontondo, A., 2015



Himalayan Superfoods

Poster on himalayan superfoods shared at festivals in Nepal

By Sajal Sthapit, 2014



FACILITATING THE WIDER USE OF UNDERFUTILISED CROPS





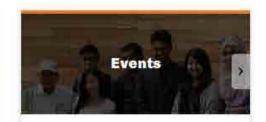
28 JAN 2015

Radio Sputnik's Brave New World programme talks to Prof. Sayed Azam-Ali on food socurity



17 SEP 2014

Approaches Used to Compare Cropping Systems



30 JAN 2015

Common Purpose GLE's "What makes a city smart" programme



Search the web Go



ABOUT CASE STUDIES SEARCH OUR DATABASE SUBMIT YOUR CASE CATEGORIES GLOSSARY CONTACT Browse through our catalog of case studies on diversification for climate change Agricomy Turns Forest

adaptation. Use the filters to refine your search.

World Regions		Agroecological Zones
All	9	All
Scale		Threats
All	•	All
Intervention		Outcomes
All		All

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National Disputer Committee wis----- Vield



Resilience

A resilience framework can help provide a dynamic perspective on adaptation processes and their



Vulnerability

Vulnerability is the susceptibility of a group to a natural hazards, which affects social, productive,



Diversification

Diversification is a risk management strategy of incorporating diverse



The Newest on AMKN



Atlantic Ocean





Search Find plant News About

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Dactyloctenium aegyptium



Authority	(L.) Beauv.
Family	Liliopsida:Commelinidae:Cyperales:Gramineae
Synonyms	
Common names	crowfoot grass, Egyptian grass, button grass, calandrini
Editor	
Ecocrop code	866



Search For Plan

ome About U	s Forum	Blog	Links	Shop	Contact Us	Register/Login
RESEARCH	DATABASE	PL	ANT USES	5		
Family		Fabaceae or Leguminosae			k 10	
Synonyms		Baptisia gibbesii. Podalyria tinctoria. Sophora tinctoria.			.00	A STATE OF S
Known Hazards	s	large quar of the eyes Avoid with	e plant is po ntities[21, 46 s. May cause inflammato stinal diseas]. <mark>I</mark> rritation e dermatitis. ry		
Habitats		Dry soils in open woods and clearings[21, 43].				

BRIEF DESCRIPTION A Leaves often hairy on the short-term annual. It flow grass, Beach wire-grass, Rumput miuyak, Krus-kri Co chi, Ndanguel, Burgu FURTHER INF Scientific aegyptia, Crowfoot grass sea level and 2100 m. It



one plant lacks another will provide. Maintaining a diversity of food plants enhances food

will still be there to provide food.

security. If some plants are affected by adverse weather and environmental conditions, others

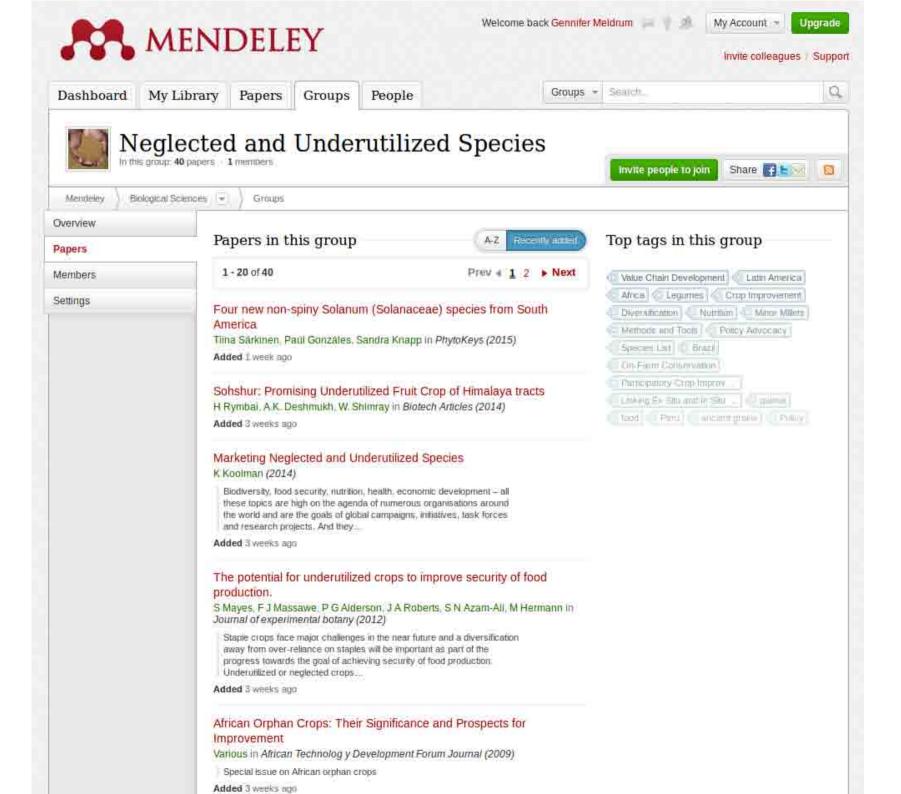
Important Disclaimer



crop in the database:

The World Crops Database can now be explored via this website. There are several ways to find a

. Enter a Search Text to find a crop name (or part of the name)





TWEETS 201

FOLLOWING 233

FOLLOWERS 127

FAVORITES 57

LISTS 8

NUS Community

@NUS Community

Leveraging the potential of neglected and underutilized crop species to strengthen food security, build resilience and empower poor communities @BioversityInt

Rome, Italy

nuscommunity.org

3 Photos and videos







Tweets

Tweets & replies

Photos & videos



Pinned Tweet



NUS Community @NUS_Community ' Feb 4

Agricultores "custodios", pilares de la conservación in situ: Read more by

@INIAFBolivia: ow.ly/lvAgp











Food First @foodfirstorg * Feb 13

Seed Libraries Fight for the Right to Share (via @Shareable) shareable.net/blog/seed-libr...









NUS Community retweeted



Neglected and Underutilized Bioversity Species Community

Q Search About Us Home Research Resources Media Conference



Leveraging the potential of neglected and underutilized species to strengthen food security, build resilience and empower poor communities

Highlights



News and Events

19 Jan 2015

Videos show participatory research for conservation and value chain development of wild fruits in the Western Ghats

9 Jan 2015

Intensive Writeshop in Nepal: Collaboration and long days to bring together findings as we wind down this phase of the IFAD-NUS project

30 Oct 2014

Celebrating food diversity: Reflections on Terra Madre

Twitter Feed



NUS Community Food First RT @foodfirstorg: Seed Libraries Fight for the Right to Share (via @Shareable) http://t.co/oYW54yUiZJ

Feb 13, 2015 10:59am



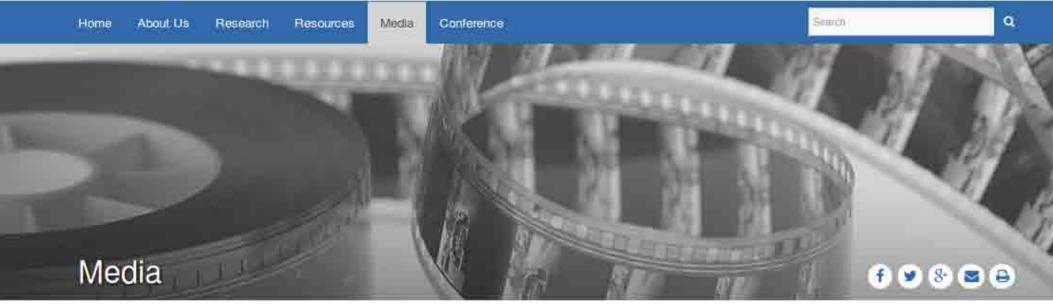
NUS Community Farming First RT @farmingfirst: LIVE: How can policy encourage demand for nutritious foods? @BioversityInt case study on millet in

India shows it is poss...

Feb 13, 2015 10:43am

All IC Community Desidedining of





Home Media

Images and videos connected to our research on neglected and underutilized species can be viewed by the following links:



Photos

View photos of our research activities on Flikr.



Videos

View videos linked to our research on Youtube.

Contact us Forum Mailing list





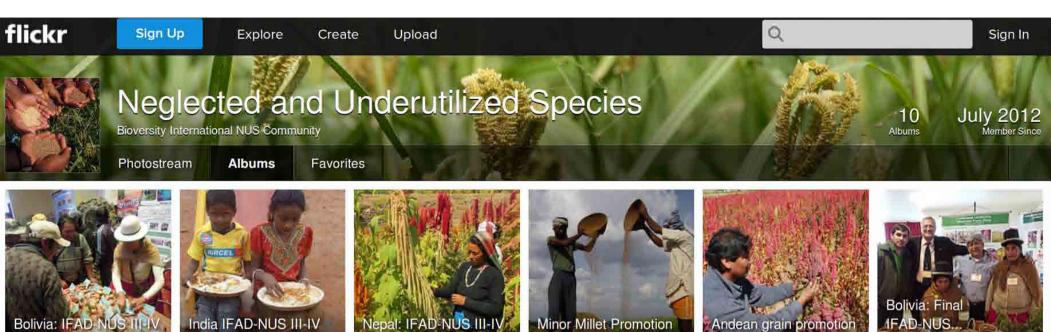














89 photos



139 photos

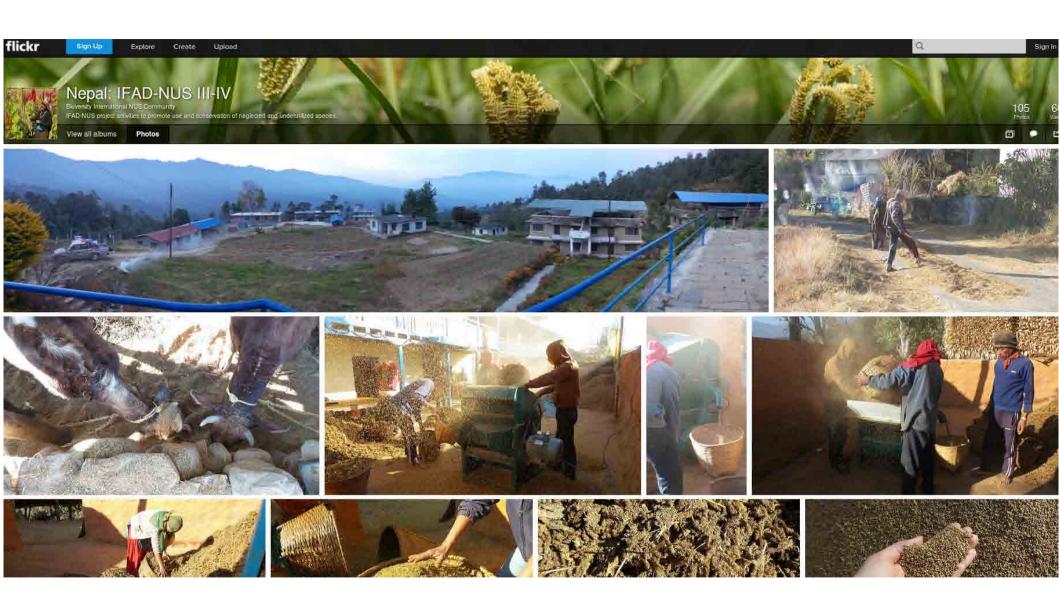




16 photos

132 photos







Home Contact Us

There are many ways you can keep in touch with us at the NUS Community: send us an email, engage in discussion in our forum, follow us on twitter, flikr, youtube, and mendeley, or join our mailing list. You can also reach us directly using the contact form below, where you can share files to bring to our attention.

ENDER NAME
-MAIL*
UBJECT
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HARE A FILE (PHOTO/ARTICLE)
Browse No file selected.
Submit



Contact us Forum Mailing list















Many thanks to IFAD and CCAFS for supporting the development of this information platform. Big thanks to Valentina Barbiero and the Newt Vision team for the technical design and support. Also thanks to Stefano Brizzi, Ewa Hermanowicz and Peio Madrid for their vision in design aspects and help with content development.

Thank you for your attention. Let's stay in touch!



