



AGRINATURA SCIENCE DAYS 2014

A brief report on SAF-BIN intervention

safbin****
For Small Farmers Future

agrinatura
The European Alliance
on Agricultural Knowledge for Development



SAF-BIN is an action research programme under the European Union Global programme on Agriculture Research for Development (ARD). It is a multi-dimensional research that address the agricultural development challenges of developing and emerging countries. It is an initiative to promote local food and nutritional security through adaptive small scale farming in four rainfed Agro Ecosystems (AES) in South Asia.

Caritas organisations part of this action are the official national organisations of the Catholic Bishops' Conference for social development. They are also members of Caritas Internationalis in Rome which is a global confederation of 165 Catholic organisations working in humanitarian emergencies and international development.

Caritas India, Caritas Bangladesh and Caritas Nepal came together with Caritas Austria and University of Natural Resources and Applied Life Sciences (BOKU), Austria and associate partners - Action for Food Production (AFPRO), India; Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS), India; Bangladesh Rice Research Institute (BRRI), Bangladesh and Local Initiatives for Biodiversity, Research and Development (LI-BIRD) to address the Food Security and Climate Change Challenges of the Smallholder Farmers living in rainfed areas in South Asia.

For more information on SAF-BIN project contact:

Sunil Simon

South Asia Programme Manager – SAF-BIN, South Asia Coordination Unit (SACU)

Caritas India

Web: www.safbin.org

email: sacu@safbin.org, sunilsimon@caritasindia.org

SAF-BIN project at the AGRINATURA SCIENCE DAYS



The learning of SAF-BIN has reached the international arena of development researchers, practitioners and policy makers through the AGRINATURA Science Days 2014.

ABOUT AGRINATURA

AGRINATURA is the European Alliance on Agricultural Knowledge for Development. AGRINATURA is a grouping of European universities and research organizations with a common interest in supporting agricultural development in a sustainable manner in order to improve people's lives.

AGRINATURA brings its collective resources to work in partnership with international collaborators. It seeks to nurture scientific excellence through joint research, educational and training programmes and projects and advocates for greater support for agricultural research and educational programmes that contribute to the achievement of the Millennium Development Goals and the new agenda of Sustainable Development Goals.

Source: <http://agrinatura-eu.eu/>

ABOUT AGRINATURA SCIENCE DAYS

AGRINATURA Science Days (ASD) with topic “Growing together – Family Farming and agricultural sciences transforming world food systems” has taken place May 5 – 7, 2014 hosted by University of Natural Resources and Life Sciences, Vienna and was leading up to the AGRINATURA General Assembly.

The general context of this event was The International Year of Family Farming 2014 deemed reason enough to devote these Science Days to the critical function family (and often smallholder) farming plays for global food security and nutrition. The ASD asked which future role AGRINATURA, research and higher education must play in support of family farming that is free from hunger.

WHY SAF-BIN & AGRINATURA SCIENCE DAYS?

As stated clearly by AGRINATURA the Science Days were a unique opportunity

- to communicate the importance of family farming and science as means for overcoming hunger and poverty to a wider public,
- to engage in a critical dialogue about AGRINATURA mentored family farming partnerships comprising research, higher education, farmer organisations, civil society and the private sector
- to identify priorities for AGRINATURA, its members and partners aimed at nurturing transformative change towards sustainable family farming and global food systems.

The objective of ASD was to assemble researchers and practitioners concerned with family farming, food security and transformative change in one single forum and in this manner offer a unique opportunity for dialogue, learning, networking and exploring new research and higher education partnerships. Results of the Science Days contributed to the AGRINATURA strategy and supported the International Year of Family Farming.

The objectives of AGRINATURA Science Days were in line with issues important to SAF-BIN project which is why Caritas Austria and SAF-BIN project decided to get cooperate with the organizers. Both Caritas Austria and SAF-BIN project provided financial support to the event and contributed content based on their expertise on smallholder and family farming issues. This event was recognized as valuable opportunity to share learnings and experiences gathered during the implementation of SAF-BIN.



¹Source AGRINATURA SCIENCE DAYS Description on the AGRINATURA website (<http://agrinatura-eu.eu/2014/04/agrinatura-science-days-and-general-assembly-2014/>)

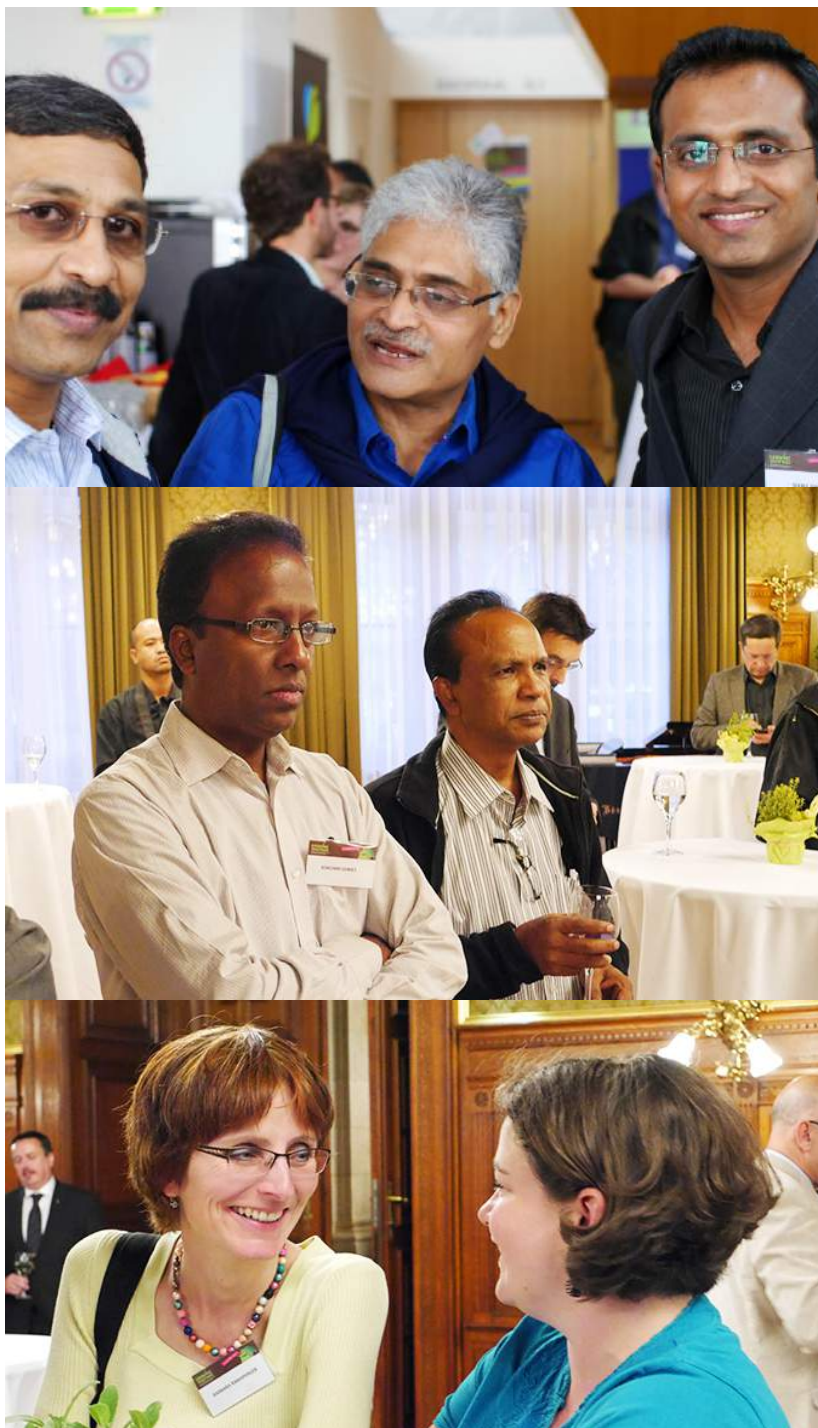
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CONTRIBUTIONS OF SAF-BIN TO AGRINATURA SCIENCE DAYS

Pre-discourse 05/05/2014 Empowering small-scale farmers to participate in markets

Fr. Paul Varghese Moonjely, Assistant Executive Director of Caritas India, joined this panel discussion on the evening before the official opening of the Agrinatura Science Days. This discussion event was setting the tune for the following conference. Members of the SAF-BIN team from Bangladesh, India and Nepal joined the discussion event and contributed their experience and knowledge on the implementation of interventions with smallholders and family farmers in South Asia.

Fr. Paul represented SAF-BIN programme and shared about his experience on the smallholders marketing scenario and initiative in South Asia in the panel discussion on “Enabling Smallholder Farmers to participate in Market” on May 05, 14 during Agrinatura Science Days. He also shared numerous successful smallholder marketing initiatives in South Asia. He highlighted the aspects of 4Ps of Marketing (Product, Price, Place, Promotion) and the challenges connected therewith for the smallholders in the marketing.

Referring to the lessons learned by the Austrian Development Cooperation (Shared by Dr. Martin, MD, ADC), Fr. Paul reiterated that the issues of the smallholder farmers are unique and identical worldwide. What is imminent and imperative is to create institution and policy framework for creating enabling environment for the smallholder farmers for meaningful participation in the market and thereby address the concerns of poverty.

He was the panellist in the discussion along with Dr. Joseph, Rector – BOKU University; Dr. Martin, MD, ADC and Dr. Micheal Hauza, Chair person, Agrinatura and Dr. Sara, International Potato Centre (IPC), Uganda; which was moderated by Dr. Judit Ann Francis, Senior Programme Coordinator, Science & technology Policy, Technical Centre for Agricultural and Rural Cooperation.





AGRINATURA SCIENCE DAYS opening session

21 SAF-BIN team members from Caritas Organisations in Bangladesh, India and Nepal as well as representatives from SAF-BIN associated partners and representatives of Caritas Austria joined the AGRINATURA Science Days. Caritas Austria's Secretary General for International Programs Christoph Schweifer, representative of Caritas Austria and SAF-BIN project, was invited for an opening statement at the AGRINATURA Science Days. He acknowledged the importance of such initiatives in SAF-BIN and introduced the project team present to share experiences and learnings.



Agrinatura Science Days session (06/05/14): Stories from the field



Two SAF-BIN speakers were involved in this session. The organizers chose the storytelling methodology as presentation mode for this session. This created a very flexible and interactive setting for the SAF-BIN team members to present their expertise. There was great interest in the stories prepared by the SAF-BIN team. The storytellers used the opportunity to share some of their rich experience on working with smallholder farmers on climate change adaptation issues. SAF-BIN team members themselves also had the opportunity to interact with the other storytellers.

From Caritas Bangladesh, SAF-BIN National Coordinator Sukleash Costa was initially selected to present his story: 'From one harvest to three: smallholder collectives and on farm research in the SAFBIN project in Bangladesh'. An abstract was developed in cooperation with the SAF-BIN team at BOKU University:

In Bangladesh's rain-fed areas 200,000 hectares of land fall fallow after wet season rice transplantation (T-Amon) as soil moisture declines. Through the intervention of EU funded SAFBIN project, implemented by Caritas Bangladesh, this fallow is immediately re-cultivated with food and cash crops improving income and nutrition of

the poor, especially children, women and adivasis (ethnic group). This success has been made possible by creating smallholder farmers' collectives (SHFCs) and using on farm adaptive research (OFAR) approach. SHFCs collaborate with researchers and Caritas to conduct research themselves, organize trainings and build networks to test and apply new technologies.

To convey the message, a poster was prepared to visually guide through the presentation. Due to unforeseen complications Zillur Rahaman, SAF-BIN Research Officer, Caritas Bangladesh, had to take over the role of the storyteller.



From Caritas Nepal SAF-BIN National Coordinator Shankar Bhattarai presented: 'Smallholder Farmers in Nepal adapt cropping to climate change in partnership with Caritas Nepal'. Also in this case the SAF-BIN team of BOKU University supported the development of the corresponding Abstract:

Mr. Darbari Lal, aged-67, and his fellow villagers of Bardiya look up to the sky when the cropping season starts. Unlike in their younger days, the bursting clouds are rarely seen now. Monsoon has become unpredictable with later arrival and significant variation of rains. This has meant lower yields from trusted varieties of rice. Declining rains in winter have affected other crops as well. In this context of climate change, Caritas Nepal facilitated Farmer Led Action Research which tested drought tolerant crop varieties and improved practices that were able to consistently provide higher yields, reduced costs and improved food security to the local households.



Agrinatura Science Days session Parallel stream 3 (07/05/14) - Partnerships and transformative learning alliances of food system actors.

SAF-BIN South Asia Program Manager Sunil Simon was invited as speaker in this session to present on 'Farmers collective led on-farm adaptive research – an effective approach for building resilience to climate change'. He was supported by the SAF-BIN team at BOKU with the finalisation of the abstract for this presentation:

South Asia is the land of smallholder farmers. 70% of these farms are less than 1 ha. Smallholder Farmer Led On-Farm Adaptive Research under SAF-BIN programme has successfully helped them in building resilience to climate change while ensuring food security. Collective action and multi-stakeholder forum has enhanced a comprehensive understanding to the challenges of climate change. It has also facilitated the identification of locally suitable solutions through a blend of traditional and modern practices. Constant engagement of farmers in crucial decision making processes of developing adaptive models has increased their analytical abilities, making the initiative sustainable.

Presentation slides are attached in the Annex



Dissemination of insight of the AGRINATURA SCIENCE DAYS

The AGRINATURA SCIENCE DAYS were advertised and information on the outcomes disseminated via numerous channels e.g. online channels like social media, radio, etc. Some examples are presented below. The learnings on these agreement informed strategic decisions of the AGRINATURA consortium which is one of the mayor European actors concerned with Research for Development.



Access to SAF-BIN project contributions

CVs and Abstracts of the SAF-BIN storytellers and the parallel stream presentation are available on the AGRINATURA SCIENCE DAYS 2014 website:

<http://agrinatura-eu.eu/activities-projects/communication-and-lobbying/agrinatura-science-days/>

Sunil Simon

Caritas India

South Asia Programme Manager (SAFBIN), South Asia Coordination Unit (SACU)

www.safbin.org

Sunil Simon is environment professional with specialisation in natural resource management. He has more than 13 years experience in academics, development and industrial sectors. He is associated with Caritas India since 2007 and currently working as South Asia Programme Manager under the Strengthening Adaptive Farming in Bangladesh, India and Nepal (SAF-BIN). He is also the regional resource person of Caritas International on Food Security for Asia and a member of the "Reference group on Food Security and Climate Change". He has been part of the civil society campaign to declare 2014 as the International Year of family Farming. He is interested in working on issues of food security and climate change of smallholder farmers.

Abstract: *[Farmers collective led on-farm adaptive research: an effective approach for building resilience to climate change](#)*

Sukleash George Costa

Caritas Bangladesh

National Coordinator Caritas Bangladesh (SAF-BIN)

www.caritasbd.org

Sukleash George Costa holds a post graduate degree in business administration. He is trained in facilitation, advocacy, community organization and adaptation to climate change. During the last 6 years he has been working on adaptation to climate change, livelihood development, entrepreneurship development and adaptive research approaches in drought prone and semi-arid areas in Bangladesh. His work concentrated on food and nutritional security, adaptive technology development and he has gained experiences with resilience concepts and innovation processes. His current focus is on blending farmers and multi stakeholder innovations and practices in adaptive smallholder farming systems in rain-fed areas of Bangladesh.

Abstract: *[From one harvest to three: smallholder collectives and on farm research in the SAFBIN project in Bangladesh](#)*

Shankar Bhattarai

Caritas Nepal

National Project Coordinator (SAFBIN)

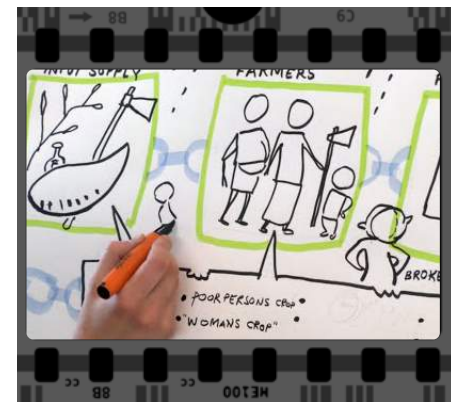
www.caritasnepal.org

Shankar Bhattarai is a rural and agricultural development professional from Nepal with a master's degree in economics specializing in agricultural economics. He has 13 years working experience in sustainable livelihood and food security, being involved with local government, INGOs and NGOs in Nepal. He is currently working in Caritas Nepal for the EU funded project "Strengthening Adaptive Farming in Bangladesh, India and Nepal" which deals with small-holder farmers' issues and agricultural adaptation to climate change through On-Farm Action Research (OFAR) process. He is interested in promoting sustainable agriculture and establishing related policy linkages for better livelihood of smallholder farmers. Abstract: *[Small Holder Farmers in Nepal adapt cropping to climate change in partnership with Caritas Nepal](#)*

Video on the AGRINATURA SCIENCE DAYS 2014

AGRINATURA produced a video on the AGRINATURA Science Days. This video is accessible via youtube: <https://youtu.be/GAKOmCUQG58>

Several members of the SAF-BIN team are featured in the video and Sukleash George Costa, National Coordinator, SAF-BIN Bangladesh, has been interviewed for this video.



Radio broadcast in 'Welt im Ohr' radio show:



12/05/2014 a radio broadcast featuring the AGRINATURA Science Days was recorded: World without Hunger. It is available as podcast:

http://kef.podspot.de/files/Welt_ohne_HungerNEU.mp3



This broadcast was also featured on the website of the Austrian Development Cooperation enhancing it's dissemination

http://www.appear.at/appear_infos/presse/appear_on_air/agrinatura/



Radio Feature in the Austrian National Radio OE1:

In a nationally broadcasted radio slot on Science, the Austrian National Radio OE1 featured the Agrinatura Science Days

<http://oe1.orf.at/programm/377567>

Austrian Press Agency: press release on Agrinatura Science Days 2014 including statements from Christoph Schweifer, Secretary General for International Programs at Caritas Austria on SAF-BIN project

http://www.ots.at/presseaussendung/OTS_20140429_OTS0057/kleinbaeuereiche-landwirtschaft-gegen-den-hunger



Annex

Organisations participating in AGRINATURA Science Days 2014

Organisations participating in AGRINATURA Science Days 2014 (157 participants)	Country		
Aarhus University, Denmark	Denmark	Makerere University, Uganda	Uganda
Access Agriculture	Benin	Ministry of Food Production,Centeno,Trinidad	Trinidad
Agreenium	France	Montpellier SupAgro	France
AGRINATURA Association/Czech University of Life Sciences Prague	Czech Republic	Natural Resources Institute, Great Britain	Great Britain
AGRINATURA-EEIG	Italy	Natural Resources Institute, University of Greenwich	Great Britain
Austrian Development Agency	Austria	NUCAFE, Uganda (National Union of Coffee Agribusinesses and Farm Enterprises) The Association of Coffee Farmers of Uganda	Uganda
Bern University of Applied Sciences, Switzerland	Switzerland	oikodrom	
CABI, The Netherlands	The Netherlands	the vienna institute for urban sustainability	Austria
Caritas Austria	Austria	ORF Science	Austria
Caritas Bangladesh	Bangladesh	PAEPARD/CTA Brussels/CIRAD	Belgium
Caritas Diözese Bozen	Italy	Regional Universities Forum for Capacity Building in Agriculture (RUFORUM)	Uganda
Caritas India	India	South Tyrolean Farmers' Association, Bozen	Italy
Caritas Nepal	Nepal	Swedish University of Agricultural Sciences	Sweden
CDR/BOKU	Australia	Szent István University, Hungary	Hungary
CGIAR	Austria	Technical University of Lisbon, Portugal	Portugal
Charitas	Austria	The Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management	Austria
CIRAD	France	University of Bologna (UNIBO), Italy	Italy
CTA	The Netherlands	University of Bonn	Germany
Czech University of Life Sciences Prague	Czech Republic	University of Hohenheim	Germany
Egerton University	Kenya	University of Natural Resources and Life Sciences, Vienna	Austria
FAO	Italy	University of the Free State in South Africa	South Africa
Federal Ministry of Agriculture	Austria	Unviersity of Vienna	Austria
FLUXA Film	Austria	Veterinärmedizinische Universität Wien, Austria	Austria
Global Options and Linkages (GOAL), Vienna	Austria	World Farmers Organization	Great Britain
GlobalHort	German		
GOFAIR	Austria		
HORIZONT3000, Vienna	Austria		
ICA	France		
ICRA	the Netherlands		
IICT, Italy	Italy		
International Centre for Research in Organic Food Systems (ICROFS)	Denmark		
International Centre for Sustainable Development (IZNE), Bonn-Rhein-Sieg			
University of Applied Sciences	Germany		
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)	Zimbabwe		
International Potato Centre, Uganda	Uganda		
Istituto Agronomico per l'Oltremare (IAO)	Italy		
KEF / ORF	Austria		
Local government, Mali	Mali		

Invitation AGRINATURA Pre-discourse



University of Natural Resources
and Life Sciences, Vienna

INVITATION

Empowering small-scale farmers to participate in Markets

A pre-discourse to the AGRINATURA Science Days 'Growing Together - Family farming and agricultural sciences transforming global food systems', Vienna, 5 to 8 May 2014

Date: 5 May 2014
Time: 18:00 – 20:00
Venue: University of Natural Resources and Life Sciences, Vienna, Gregor Mendel Strasse 33,
1180 Vienna, Festaal, 3rd floor.

Programme

Welcome

Josef Gloessel, Vice-Rector, University of Natural Resources and Life Sciences, Vienna
Martin Ledolter, Managing Director of the Austrian Development Agency (ADA)

Discourse

Michael Hauser, Director, Centre for Development Research, University of Natural Resources and Life Sciences, Vienna
Sarah Mayanja, Research Associate, International Potato Center (CIP)
Paul Varghese Moonjely, Assistant Executive Director, CARITAS India

Reception

Please register at: cdr@boku.ac.at
For more information visit: www.agrinatura.eu

AGRINATURA SCIENCE DAYS 2014 Poster



The poster features a dark brown background with a stylized map of Europe and Africa in light green. A thick green diagonal line runs from the top left towards the center. At the top, there are logos for agrinatura, BOKU (University of Natural Resources and Life Sciences, Vienna), Caritas & Du (Austrian Development Cooperation), VIDC (Vienna Institute for Development Cooperation), Zukunft ohne Hunger (Future without Hunger), and KEF (Koordination der Entwicklungsforschung).

GROWING TOGETHER

Family farming and agricultural sciences transforming world food systems

AGRINATURA Science Days & General Assembly

5 to 8 May 2014, Vienna

Registration: secretariat@agrinatura.eu

Organised by **AGRINATURA**, hosted by University of Natural Resources and Life Sciences, Vienna, in cooperation with **CARITAS Austria**, **VIDC**, **ADA**, **KEF** & partners

For more information: www.agrinatura.eu



AGRINATURA SCIENCE DAYS 2014 Invitation& Program



Growing together

Family farming and agricultural sciences
transforming world food systems

5 to 8 May 2014, Vienna

INVITATION

to the AGRINATURA Science Days & the General Assembly of AGRINATURA
- The European Alliance on Agricultural Knowledge for Development

Hosted by the University of Natural Resources and Life Sciences, Vienna
in cooperation with CARITAS Austria, VIDC, ADA, KEF & partners.

Background

World food systems are undergoing ecological, economic, social, and structural transformations. Some transformations offer new opportunities for small-scale family farmers, others cause uncertainty, poverty and hunger: Although small-scale farmers grow food for consumers and markets, many farmers themselves suffer from hunger and precarious livelihood conditions.

How to turn things around?

At the AGRINATURA Science Days we ask if and how alliances between small-scale family farming and agricultural sciences can transform local and global food system in ways that ensure food and nutrition security at all levels. We also ask how research and higher education become more effective in understanding and supporting transformations that benefit family farming, world food security and wellbeing. And we explore how an emerging transformative change agenda fits into the Post-2015 development framework.

Objective

The AGRINATURA Science Days assemble researchers and practitioners concerned with family farming, food security and transformative change in one single forum. They offer a unique opportunity for dialoguing, learning, networking and exploring new research and higher education partnerships. Results of the Science Days contribute to the AGRINATURA strategy and support the International Year of Family Farming.

Format

The AGRINATURA Science Days format comprises keynote speeches, presentations and workshops, open space arrangements and storytelling in large and small groups.

Participants

Participation is open to AGRINATURA members, non-members and stakeholders. We welcome representatives from farmer organisations, civil society, the private sector, national and international agricultural research, and regional and global networks.

Language

The working language during the Science Days is English. Interpretation to other languages is not available.

GROWING TOGETHER

Family farming and agricultural sciences transforming world food systems

5 to 8 May 2014, Vienna

GROWING TOGETHER

Family farming and agricultural sciences transforming world food systems

5 to 8 May 2014, Vienna

Programme

Monday, 5 May 2014

18:00 - 20:00 **Pre-Discourse I** Empowering small-scale farmers to participate in markets, in cooperation with VIDC and ADA

Tuesday, 6 May 2014

11:00 - 13:00 **Registration**
13:00 - 14:00 **Opening**
14:00 - 15:00 **Key note and dialogue I** Small-scale family farming and food poverty: Achievements and the unfinished agenda.
15:00 - 15:30 Coffee and tea break
15:30 - 17:00 **Stories from the field I** Small-scale family farming and agricultural research: learning from transformative change that benefits food, income and the environment.
19:00 - 22:00 **Evening reception**

Wednesday, 7 May 2014

08:00 - 09:00 Coffee and tea
09:00 - 10:00 **Key note I** Knowledge, behaviour, power: a transformative change agenda for research and practice
10:00 - 12:30 **Parallel stream 1 I** Interdisciplinary research and multi-stakeholder innovation with small-scale family farmers.
Parallel stream 2 I Higher education and new agricultural innovation competences for nudging transformative changes
Parallel stream 3 I Partnerships and transformative learning alliances of food system actors.
12:30 - 14:00 Lunch
14:00 - 15:00 **Open Space I** Post-2015 framework for small-scale farming, agricultural research and transforming food systems
15:00 - 15:30 Coffee and tea break
15:30 - 17:00 **Closing session**

Thursday, 8 May 2014

09:00 - 17:00 **AGRINATURA General Assembly I** for delegates only.

Venue

5 May 2014 I Pre-Discourse

University of Natural Resources and Life Sciences, Vienna (BOKU), Festsaal, Gregor Mendel Strasse 33 A-1180 Vienna

6 - 7 May 2014 I AGRINATURA Science Days

URANIA
Uraniastrasse 1
A- 1010 Vienna

8 May 2014 I AGRINATURA General Assembly

University of Natural Resources and Life Sciences, Vienna (BOKU), Festsaal, Gregor Mendel Strasse 33 A-1180 Vienna

Registration

	Early bird Until 16 March 2014	Regular After 16 March 2014
AGRINATURA members	€ 50	€ 70
Non-members	€ 80	€ 100
Students	€ 20	€ 40

The fee includes coffee, tea and lunch breaks and the evening reception. The AGRINATURA General Assembly is open to AGRINATURA delegates only. Attendance of the General Assembly is free of charge. There is limited space for self-organised side meetings on 5 and 6 May 2014. Registration for both events: secretariat@agrinnatura.eu. Please organise your own travel and accommodation. We assist you with a list of hotels and regular programme updates on: www.agrinnatura.eu.

Contact

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Gregor Mendel Straße 33, A-1180 Vienna
Phone: +43 1 47654 2960
cdr@boku.ac.at

AGRINATURA Association Secretariat
Czech University of Life Sciences Prague
Kamýcká 129
165 21 Prague 6, Czech Republic
Phone: +420 224 382 011
secretariat@agrinnatura.eu

AGRINATURA is an alliance of 31 European universities and research organisations working in agricultural research, education, training and capacity strengthening for development. Activities of members help to unlock opportunities for farmers to enhance food security and improve the agro-food sector in general, whilst reducing the negative impact of agricultural activities on the environment. For details see www.agrinnatura.eu



University of Natural Resources and Life Sciences, Vienna

Caritas
&Du

Austrian
Development Cooperation

KEF
Kooperations- und Entwicklungsforschungsbereich der OeAD - Gender
Cooperation for Development Research at the OeAD - Gender

VIDC
VIENNA INSTITUTE FOR
INTEGRATED DEVELOPMENT
AND COOPERATION

SAF-BIN and Caritas Contributors

Pre-discourse (05/05/2014)

Curriculum Vitae Fr. Paul Varghese Moonjely, Assistant Executive Director of Caritas India

Fr. Paul Varghese Moonjely is an established entrepreneur and a development leader with more than 25 years of experience in the field of social work and community development. He is currently the Assistant Executive Director of Caritas India, the official national organisation of the Catholic Bishops' Conference of India for social development. He holds double masters degree in social work and management. He has served as the Executive Director of Welfare Services Ernakulam for more than 11 years where he has pioneered many innovative initiatives for smallholder farmers. He has been the founder trustee of the Indian Farmers movement (INFARM) and the Founding Director of Wesco Credit, a micro credit initiative rated in Crisil International with seventy thousand members in the organisation.



Welcome Session AGRINATURA Science Days (06/05/2014)

Curriculum Vitae Christoph Schweiter, Secretary General for International Programs at Caritas Austria

Christoph Schweifer is Secretary General for International Programs at Caritas Austria since 2005. Caritas Austria is one of 165 members of the Caritas-Internationalis-Network and focuses on fighting worldwide hunger. Mr. Schweifer is active in awareness-raising and in the creation of public commitment concerning the promotion of the fight against hunger, for example: He is member of the steering-group of the Caritas-Internationalis-Campaign “Food for all”. Moreover, he was one of the panel members of the “First Humanitarian Congress in Vienna”, held in October 2011. Mr. Schweifer was also the initiator of the congress “Future without Hunger” in 2012. Furthermore, in 2013, Caritas Austria organized the Pastoralist Knowledge Conference in Kenya, where Mr. Schweifer was one of the keynote speakers.



Stories from the field (06/05/2014)

Curriculum Vitae Sukleash George Costa, National Coordinator Caritas Bangladesh (SAFBIN)

Sukleash George Costa holds a post graduate degree in business administration. He is trained in facilitation, advocacy, community organization and adaptation to climate change. During the last 6 years he has been working on adaptation to climate change, livelihood development, entrepreneurship development and adaptive research approaches in drought prone and semi-arid areas in Bangladesh. His work concentrated on food and nutritional security, adaptive technology development and he has gained experiences with resilience concepts and innovation processes. His current focus is on blending farmers and multi stakeholder innovations and practices in adaptive smallholder farming systems in rain-fed areas of Bangladesh.



SAF-BIN and Caritas Contributors

Pre-discourse (05/05/2014)

Curriculum Vitae Shankar Bhattarai, National Project Coordinator (SAF-BIN), Caritas Nepal

Shankar Bhattarai is a rural and agricultural development professional from Nepal with a master's degree in economics specializing in agricultural economics. He has 13 years working experience in sustainable livelihood and food security, being involved with local government, INGOs and NGOs in Nepal. He is currently working in Caritas Nepal for the EU funded project “Strengthening Adaptive Farming in Bangladesh, India and Nepal” which deals with smallholder farmers' issues and agricultural adaptation to climate change through On-Farm Action Research (OFAR) process. He is interested in promoting sustainable agriculture and establishing related policy linkages for better livelihood of smallholder farmers.

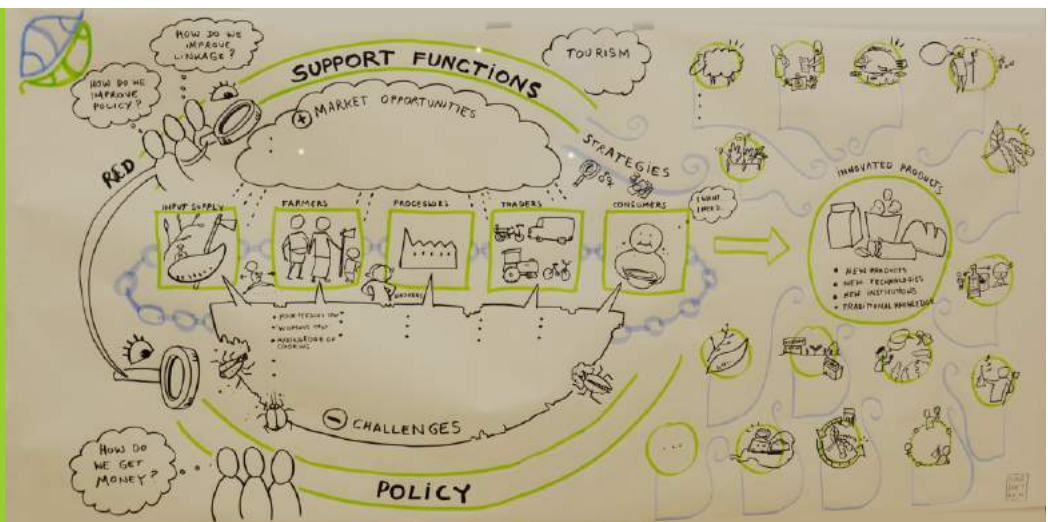


Curriculum Vitae Sunil Simon, South Asia Program Manager (SAF-BIN), Caritas India

Sunil Simon is environment professional with specialisation in natural resource management. He has more than 13 years experience in academics, development and industrial sectors. He is associated with Caritas India since 2007 and currently working as South Asia Programme Manager under the Strengthening Adaptive Farming in Bangladesh, India and Nepal (SAF-BIN). He is also the regional resource person of Caritas International on Food Security for Asia and a member of the “Reference group on Food Security and Climate Change”. He has been part of the civil society campaign to declare 2014 as the International Year of family Farming. He is interested in working on issues of food security and climate change of smallholder farmers.



Farming Future



Presentation slides Parallel Stream 3 – Sunil Simon

<div> <p>European Union</p> </div> <div> <p>For Small Farmers Future</p> </div> <div> <p>Caritas Austria</p> </div> <div> <h2>FARMERS COLLECTIVE LED ON-FARM ADAPTIVE RESEARCH: AN EFFECTIVE APPROACH FOR BUILDING RESILIENCE TO CLIMATE CHANGE</h2> </div> <div> <p>Sunil Simon South Asia Programme Manager Strengthening Adaptive Farming in Bangladesh, India & Nepal (SAF-BIN)</p> </div> <div> <p>Agrinatura Science days (May 5-8, 2014)</p> </div> <div> <p>Partners:</p> </div> <div> </div> <div> <p>Associate Partners:</p> </div> <div> </div>	<div> <p>For Small Farmers Future</p> </div> <div> <h2>Presentation Framework</h2> </div> <div> <ul style="list-style-type: none"> • Situation of Smallholder Farmers in SA • Process followed in SAF-BIN Project • Analysis of learning • Conclusion </div> <div> <p>07/05/2014</p> </div> <div> <p>Agrinatura Science days (May 5-8, 2014)</p> </div> <div> <p>2</p> </div>
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<div> <h2>Smallholder Farmers in South Asia</h2> <p>Climate Change & Food Security Context</p> </div> <div> <p>For Small Farmers Future</p> </div> <div> <p>South Asia Scenario:</p> </div> <div> <ul style="list-style-type: none"> • More than 70% are smallholders and practice family farming • Average landholding 1- 1.5 ha • Large proportion of rainfed agriculture in arid & semi-arid conditions • Major Issues of Food Security & Climate Change: <ul style="list-style-type: none"> – Right of access and control; socially acceptable and culturally appropriate food (Food Souveirignty) – Mainstream focus on Agricultural Research, Extension and PDS not favourable to SF – Chronic malnutrition (1/3rd of the worlds malnourished in SA) – Vanishing traditional practices and agrobiodiversity – Increasing vulnerability to climate change and signals of change; hand-prints of SF </div> <div> <p>28/11/2015</p> </div> <div> <p>Agrinatura Science days (May 5-8, 2014)</p> </div> <div> <p>3</p> </div>	<div> <p>For Small Farmers Future</p> </div> <div> <h2>Strengthening Adaptive Farming in Bangladesh, India & Nepal (SAF-BIN)</h2> </div> <div> <p>The Project: Building resilience to climate change through strengthening adaptive small scale farming systems in rainfed areas in Bangladesh, India and Nepal</p> </div> <div> <p>Overall Objective: Promotion of Local Food and Nutritional Security through Adaptive Small scale Farming in four rainfed AES in South Asia in the context of climate change</p> </div> <div> <p>European Union</p> </div> <div> <h2>European Union Global Programme on Agricultural Research for Development</h2> </div> <div> <p>28/11/2015</p> </div> <div> <p>Agrinatura Science days (May 5-8, 2014)</p> </div> <div> <p>4</p> </div>
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Project Locations:



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Agriculture Science days (May 5-6, 2014)

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FARMERS COLLECTIVE LEAD APPROACH



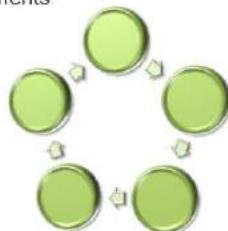
- Fostering collective action
- Exchange of good practices and innovations
- Opportunity for peer-to-peer learning
- Collective decision making process
- Giving the power to the people... for taking decision
- *Role of Caritas*: Facilitating decision making process.

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Farmers Collective Led On-Farm Adaptive Research

- Formation & Strengthening of Farmers Institutions & Stakeholder Platforms
- Vulnerability Assessment
- Scouting of Innovation & Traditional Practices
- Consolidation of Village level Assessments
- Screening & Blending
- Matrix Scoring
- SWOT & Risk Analysis
- Stakeholder Scoring
- Design of Experiments
- Final Trial Design & Replication
- Monitoring, learning & dissemination
- Refining process



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FARMER DESIGNS & FARMER IMPLEMENTS: SAF-BIN Processes

Farmers Participation:

- Identifying Problems
- Analysing the problem in the context of Food Security and Climate Change
- Screening of Innovations
- Blending of Innovations
- Designing Trials
- Implementation of Trials
- Review of progress and final learning
- Refining Trials
- Developing scientific aptitude among farmers



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Institutional Framework: SMALLHOLDER FARMERS FIRST



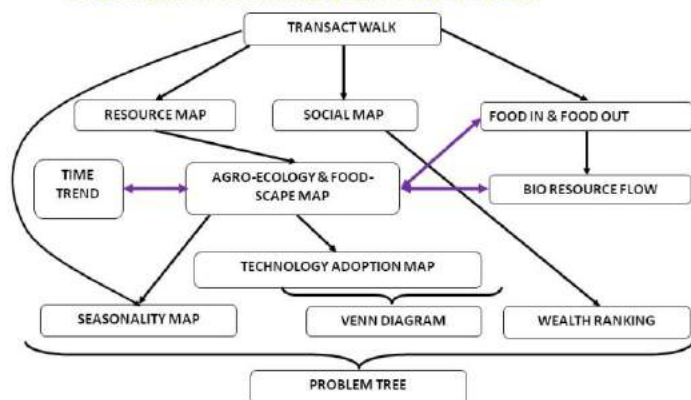
Appraisal of Smallholder Farmers Food Production, Distribution and Consumption Systems (FPDCS)

- Secondary review through Internet and e-database search, peer discussion, institution visits and library consultation
- Primary appraisal through
 - ▣ Use of participatory tools (PRA tools – participatory resource mapping, ITK mapping, agro-ecology map, agro-technology map, bio-resource flow, seasonality, Venn diagram, matrix, wealth ranking etc.), village transact,
 - ▣ SHF field visit & interview
 - ▣ FGD/IDI
 - ▣ Household survey through questionnaires
- With involvement of multi-stakeholders like researchers, extension agents etc. apart from programme team and SHF

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ENABLED VRA GUIDING SHFC TO CONDUCT THE PRIMARY APPRAISAL OF FPDC SYSTEM



FPDCS Appraisal & Vulnerability Mapping





Village: Khargatorra; District : Sagar



Village: Hanumantorra; District: Sagar

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Venn Diagram



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An Example Matrix of Farmers' Innovation documented from India

Crop Name	Land Preparation	Seed Selection	Seed Treatment	Nutrient Mgmt	Moisture Mgmt	Weed Mgmt	Pest Mgmt	Storage
Paddy	4	4	3	5	4	4	12	4
Wheat	10	12	2	3	2	3	34	6
Black Gram	1	1	0	3	0	1	5	2
Vegetable	4	1	3	3	2	2	15	2
Maize	1	0	4	3	2	1	0	2
Millets	1	0	1	0	0	0	0	2
Total	21	18	13	17	10	11	66	17

- A total of 185 innovations and traditional practices were identified and documented
- 4 traditional practices screened and documented in livestock management
- 8 traditional practices screened and documented in NRM

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OFAR: Farmer as Scientist & Leader

- Revisiting the CC vulnerabilities
- Screening of relevant innovations & best practices
- Identification of suitable recommendations
- Blending of farmer-scientist solutions
- On-farm trials
- On-field trial assessments

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Multi-stakeholder inputs



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Trial Design Matrix

Problem/ Problem Articulation	Trial Objective	Traditional Practices	Modern practices	Treatment	Blending SAP
MANDLA					
GRAM					
<p>Lubilant growth of semi looper during various growth stages due to warm & cloudy weather.</p>	<ul style="list-style-type: none"> Checking & controlling semi looper attack during various growth stages in Gram. Increasing the production and profitability of gram cultivation 	<ul style="list-style-type: none"> Seed Selection— Warm water with salt & gunny bag testing Seed Treatment— (Cow urine 50 ml/ltr, water 1 ltr, cow dung 50 gm, 10 gm cow milk & 10 gm lime) Use of FYM/ Compost during land preparation 	<ul style="list-style-type: none"> Line sowing with 20 cm distance in ridge & furrow method Application of manure formulated with locally available material Fish Amino Acid (Fish 2 Kg & Jaggery 2 Kg for 18 days) 	<ul style="list-style-type: none"> T0— Control T1— Practice T2— Organic Pest Control (Neem Leaves 2kg, Tobacco 500 gm & Water 5 ltr for 7 days Fermentation) T3— Vegetative Pest Control by sowing coriander in alternate rows T4— Bird Perch 	<p>Treatment</p> <ul style="list-style-type: none"> + Seed Selection— Warm water with salt & gunny bag testing + Seed Treatment— (Cow urine 50 ml/ltr, water 1 ltr, cow dung 50 gm, 10 gm cow milk & 10 gm lime) + Use of FYM/ Compost during land preparation + Line sowing with 20 cm distance in ridge & furrow method + Application of manure formulated with locally available material + Fish Amino Acid (Fish 2 Kg & Jaggery 2 Kg for 18 days)
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Planning, Review & Learning:



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Frost-Resistant Tomato Cultivation

On-field trial assessments



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Multi-stakeholder M & E



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Communication and Dissemination

- Documentation of FPDCS – Village/District/Country/SA (primary & secondary)
- Documentation and sharing of key learning with wider communities



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Experiences so far...

- Challenges of climate change and food security is identified by the farmers
- Farmers identify the good practices existing among the community
- Identify the solutions by farmers themselves
- Farmers can come up with innovative solution without any external support
- Farmers compare the available solutions and test them to understand the effect
- Farmers test the solutions in the field which help them in adapting to the changes
- Self sufficiency for smallholders

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Challenges

- Availability of enabling HR for continued engagements with farmer
- Challenges in Innovation scouting, screening and documentation
- Convincing Scientists to step back and walk together
- Overcoming Mainstream aloofness

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Conclusion

- Empowering farmers in building resilience to climate change through Inclusive, Innovative and Information-based approach
 - Collective action and multi-stakeholder forum
 - Identification and promotion of local solutions
 - Engagement of farmers at all steps and in decisions
 - Focus on Culture, Nutrition, Gender and Agro-ecology (& biodiversity)
 - Appreciation by Extension and Research stakeholders and Emerging partnerships

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THANK YOU

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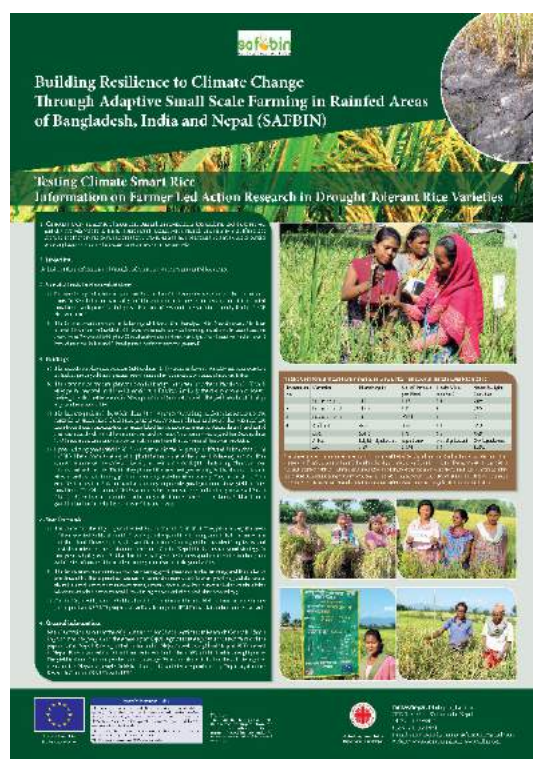
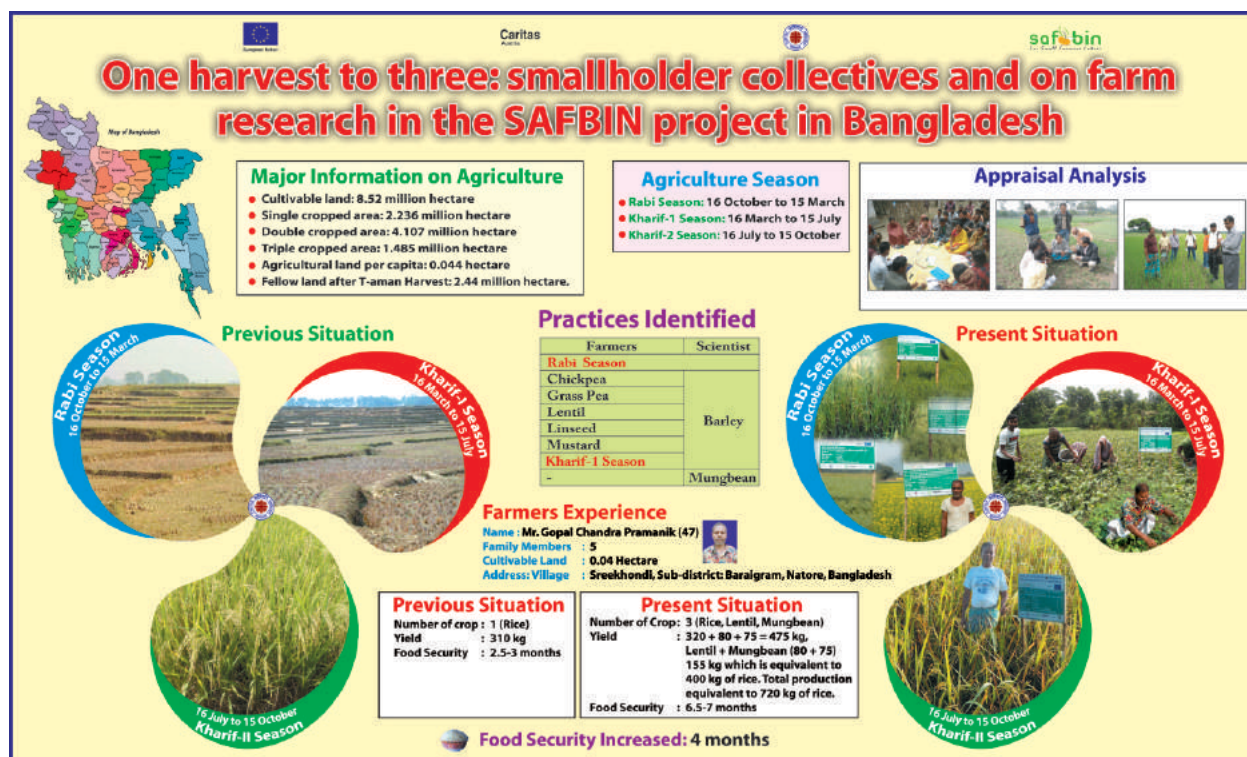


Caritas
Nepal



AFPRO
Action For Food Production







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Project partners



Associate partners



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