

Second call for applications to promote best practices in sustainable agriculture

Deadline: 31 December 2012

Application Form

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To complete the application, directly type into the form tables and save your information as “SATNET Asia – Data <your name> <name of technology> <date YY MM DD>” (e.g. “SATNET Asia – Data Thapa one-ox-driven plough 12 07 06” and return the form to the email address above by 31 December 2012.

Application form, essential part

1. What is the name of the technology?	
2. Who is the expert in the field of the technology? In other words: who provides the information?	
2.1. Full name of expert	
2.2. Email address of expert	
<i>If the expert does not have email access, please indicate a contact person</i>	
3. Who is the contact person? This person links the expert to the project, communicates with the project and completes the form with and for the expert. The contact person should speak English.	
3.1. Full name of contact person	
3.2. Email address of contact person	
4. From which country are you are reporting a successful technology?	
5. What is the technology? What is the purpose of the technology? What does it consist of? How does it work? What is needed? Please describe the technology. If the technology is composed of separable modules, please also name and describe each module. (max 200 words)	
<i>If applicable, use the following lines:</i>	
Module 1	
5.1.1. Name of technology module 1	
5.1.2. Description of technology module 1 (max 100 words)	
Module 2	
5.1.3. Name of technology module 2	
5.1.4. Description of technology module 2 (max 100 words)	
Module 3	
5.1.5. Name of technology module 3	
5.1.6. Description of technology module 3 (max 100 words)	
<i>If the technology contains more modules, please insert additional lines here</i>	
5.2. What is the production unit you are referring to for the technology? (E.g. per hectare, per production unit consisting of 50 chicken, per cow, etc.) Please provide all further information such as gross value and variable costs etc. referring to the production unit that you define here.	
5.3. What is the time frame of a production cycle? How long does one production cycle take? (e.g. 5 months)	
5.4. How many production cycles can be operated in one year? Example 1: the technology produces year round, if one production cycle takes 5 months (see 5.3), there are 2.4 production cycles in a year. Example 2: the technology is dependent on seasons and therefore takes place only once a year. Example 3: the technology is dependent on seasons but 2 cycles can be produced during the suitable months	

6. What are typical settings where the technology works well? Please describe the geography, topography, climatic conditions, soil conditions, water sources and availability, access to roads and markets or any other relevant information that is a key component of the current success of the technology . (max 500 words)	
7. Who are typical successful adopters? Please describe the key characteristics that distinguish successful adopters from non-adopters and from unsuccessful adopters. (max 200 words)	
8. What are the benefits of the technology to the environment?	
8.1. Please describe the benefits of the technology to the environment (on site, at watershed level, at a wider scale). (max 300 words)	
8.2. Please provide facts and data underpinning the environmental benefits, if available.	
9. What are the benefits of the technology to society?	
9.1. Please describe the benefits of the technology to society (household level, community level, wider society). (max 300 words)	
9.2. Please provide facts and data underpinning the social benefits, if available.	
10. What are the benefits of the technology to the economy?	
10.1. Please describe the benefits of the technology to the individual's or household's economic livelihood, the community's economy, and to the economy at a wider scale. (max 300 words)	
10.2. Please provide facts and data underpinning the economic benefits, if available.	
11. What is the comparative advantage over another reference technology?	
11.1. What is the name of reference technology that is commonly used at present?	
11.2. Please describe the reference technology. (max 100 words)	
11.3. Please describe the relative advantage of the technology over the reference technology. In what aspects is the technology better than the reference?	
11.4. Please provide facts and data underpinning the relative advantage of the technology over the reference technology, if available.	
12. What is the total share (in %) of inputs needed to operate one unit during one production cycle (see 5.2 and 5.3) that comes from outside the community?	
13. What is the total share (in %) of inputs needed to operate one unit during one production cycle (see 5.2 and 5.3) that are by-products of other farming activities? What share of the inputs is recycled from other farming activities?	

14. How would you characterize the technology regarding water consumption? <i>(Select all that apply)</i>	☐ technology does not use any water resources ☐ technology uses small amounts of water ☐ technology uses large amounts of water ☐ technology slightly pollutes water resources ☐ technology significantly pollutes water resources ☐ any other relevant impact on water, please explain here: Additional comments:
15. How would you characterize the technology regarding energy consumption? <i>(Select all that apply)</i>	☐ technology does not use any energy ☐ technology uses small amounts of energy ☐ technology uses large amounts of energy ☐ the technology exclusively depends on fossil energy sources, please indicate which: ☐ the technology exclusively uses renewable energy sources, please indicate which: ☐ the technology can make use of both, fossil and renewable energy ☐ the technology uses energy most efficiently ☐ with more modern and up to date equipment, energy could be used more efficiently Additional comments:
16. How would you rate the technology's impact on natural biological processes? <i>(Select only one option)</i>	☐ strong significant positive impact ☐ significant positive impact ☐ marginal positive impact ☐ technology has no impact on natural biological processes ☐ marginal negative impact ☐ significant negative impact ☐ strong significant negative impact Please comment and explain your choice:
17. How would you rate the technology's impact on the local biodiversity? <i>(Select only one option)</i>	☐ strong significant positive impact ☐ significant positive impact ☐ marginal positive impact ☐ technology has no impact on local biodiversity ☐ marginal negative impact ☐ significant negative impact ☐ strong significant negative impact Please comment and explain your choice:
18. How many persons (household members and employed persons from outside the household) are involved in the production process of one unit and production cycle <i>(see 5.2 and 5.3)</i>?	
18.1. Number of persons	☐ person(s) is/ are involved belonging to the household ☐ person(s) is/ are involved not belonging to the household
18.2. Are those persons who do not belong to the household paid for their work?	☐ yes ☐ no ☐ not applicable, if nobody from outside the household is involved Please comment:
19. How would you rate the risk of disturbance of the neighborhood due to odor, noise, and/or dust?	☐ no risk ☐ low risk ☐ moderate risk ☐ high risk Please comment and explain your choice:
20. What is the share (in %) of women adopting the technology?	
21. How much agricultural land must be owned or rented at minimum (in m²) to be able to operate the technology? <i>(1 m² = 10.764 square feet = 1.196 square yards, 1 square foot = 0.0929 m²)</i>	
22. How long do adopters expect to use the technology before it might break or be out of date, if applicable? <i>Please indicate the expected life cycle of technology (in months). Provide a rough estimation when no information or experience is available.</i>	
23. What is the initial investment cost for one production unit? <i>(as defined in 5.2). Please indicate local currency.</i>	
24. What is the current interest rate on a locally available loan to undertake this investment?	

25. What are the potential risks of the technology to the environment?	
25.1. Please describe the potential risks of the technology to the environment (on site, at watershed level, at a wider scale). (max 300 words)	
25.2. Please indicate the type of potential damage:	☐ reversible in the short term ☐ reversible in the medium term ☐ reversible in the long term ☐ irreversible damage Please comment and explain your choice:
26. What are the potential risks of the technology to society?	
26.1. Please describe the potential risks of the technology to society (community level, wider society). (max 300 words)	
26.2. Please indicate the type of potential damage:	☐ reversible in the short term ☐ reversible in the medium term ☐ reversible in the long term ☐ irreversible damage Please comment and explain your choice:
27. What are the potential risks of the technology to the household's economic livelihood?	
27.1. Please describe the potential risks of the technology to the household's economic livelihood. (max 300 words)	
27.2. Please indicate the type of potential damage:	☐ reversible in the short term ☐ reversible in the medium term ☐ reversible in the long term ☐ irreversible damage Please comment and explain your choice:
28. How does the typical adopter learn about the technology? Which extension approach (if any) was used to communicate information about the technology? Where/ from whom does he/she currently access new information about the technology? (max 300 words)	
29. Are there any benefits of the technology that are not mentioned in questions 8 to 10?	
29.1. Please describe any other benefits of the technology. (max 300 words)	
29.2. Please provide facts and data, if available.	
30. Are there any particular issues that need to be considered for further adoption and replication? Please share your lessons learned and recommendations to other promoting organizations, extension services and potential adopters.	
31. Please name the sources of the facts and data provided above (name of author, year of publication, title of document, publication details) and provide electronic copies of all relevant documents. This applies to questions number 8 to 13, 20 to 27, and 29.	32. Please rate the scientific quality and reliability of the available facts and data: 3=good, 2=medium, 1=poor
Please insert additional lines above, if needed	
Any other remarks, comments, etc.	

Congratulations! You have successfully completed the essential part of the application form. The additional part of the application form can be completed if verified data and/or research results are available on the specific question topics.

Application form, additional part

33. What is the total weight in kg of all inputs taken together that are required to operate one unit (as defined in 5.2 in the essential part above) during one production cycle (as described in 5.3 above)?	
34. What is the total weight (in kg) of the end product of one unit (as defined in 5.2 above) at the end of one production cycle (as described in 5.3 above)?	
35. What is the total weight (in kg) of waste material that can be recycled (or composted) produced by one unit during one production cycle (see 5.2 and 5.3 above)?	
36. What is the total weight (in kg) of waste material for disposal (that cannot be recycled) produced by one unit during one production cycle (see 5.2 and 5.3 above)?	
37. How much wastewater (in m ³) is produced by one unit during one production cycle (see 5.2 and 5.3 above)? (1 m ³ = 1000 liters)	
38. Gross margin = gross value – variable costs (for a defined reference base)	
38.1. What gross value (total sales) can be achieved per unit during one production cycle (as described in 5.2 and 5.3 above)? (Please indicate local currency)	
38.2. What are the variable production costs per unit during one production cycle (as described in 5.2 and 5.3 above)? (Please indicate local currency)	
39. How much time do adopters spend? Please state the number of working hours (household and non-household) required to operate one unit (as defined in 5.2) during one production cycle (as described in 5.3)	
40. How much water (in m ³) is used to operate one unit (as defined in 5.2) during one production cycle (as described in 5.3)? (1 m ³ = 1000 liters)	
41. How much energy (in kWh) is used to operate one unit (as defined in 5.2) during one production cycle (as described in 5.3)?	
42. What is the share of energy (in %) coming from renewable energy sources?	
43. Does the technology have a carbon sequestration potential (is it able to contribute to carbon (CO ₂) fixation) or a global warming potential (does it release carbon dioxide (CO ₂))?	☐ carbon sequestration potential ☐ global warming potential ☐ none of the above, it is carbon neutral Please comment and explain:
44. Does the technology have an acidification potential (does it produce/ release SO ₂)?	☐ yes ☐ no Please comment and explain:
45. Please name the sources of the facts and data that you have provided above (name of author, year of publication, title of document) and provide electronic copies of all relevant documents. This applies to questions number 32 to 43.	46. Please rate the scientific quality and reliability of the available facts and data: 3=good, 2=medium, 1=poor

<i>Please insert additional lines above, if needed</i>	

Thank you for your application and contribution to SATNET Asia!

Please save your information as "SATNET Asia – Data <your name> <name of technology> <date YY MM DD>" (e.g. "SATNET Asia – Data Thapa one-ox-driven plough 12 07 06" and return the application and any supporting documents and materials to fsc-satnet@uni-hohenheim.de before 31 December, 2012.