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Disseminated innovations in order to boost up the rice value chain in Burkina Faso





The issue of the rice value chain in Burkina Faso

-Poor level of cleaning and calibration of improved seeds and not in a timely manner

-Quality seeds not available in a timely manner
-Poor knowledge of soil fertility and water management
-Poor coverage of local service provision

-Poor access and poor knowledge of post harvest management technologies and techniques

-Unsuitable milling equipment for paddy rice
-Mismatch between investments and business models
- Inappropriate strategies for paddy rice supplz

-Low competitiveness
-Low access to markets and highly irregular white rice availability

Agricultural inputs

Paddy rice production

Management Post harvest

Processing

Marketing



State of the seed sector: shortfall for...

- Level of information: Poor knowledge of the value of improved seeds (rate between 15 - 50% according to the value chains)
- Technological level: very poor results of the artisanal seed cleaning methods
- Technical level: Quantitative and qualitative losses in the process of seed cleaning, calibration, packaging and storing
- Health level: Dissemination of diseases through seeds, no solution to the management of processed seeds
- Logistical level: High transaction costs between the fields - cleaning and calibration sites - fields, delays
- Quality control: Poor matching of the certification system to international standards



ProCIV approach: Ensure productivity in the various rice production systems, in case of drought and with regard to the quality requested by the market

- Level of information: with improved seeds, 50% increase in productivity, local service provision: shops and demonstration fields.
- Technological level: suitable equipments, etc.
- Technical level: Skills transfert Petkus (ppp Nafaso), ZG Raifaisen internshios
- Health level: processing solution
- Logistical level: Mobility of the persone in charge of cleaning amd calibration
- Quality control: training for upgrading



Key innovation 1: Integrated approach in a market-oriented improved seeds production

- Develop indigenous trainers integrated services in order to disseminate agricultural good practices and IRPS
- Promote contract farming between seed growers, seed companies, producers and processing units
- Upgrade local services: access to inputs and loans, mechanization, advisory support, logistical support



PPP: Contract farming and IRPS application



Key innovation 2: Public Private Partnership in order to boost up performances in the value chain

- PPP for the dissemination of seed cleaning, calibration and paddy rice milling techniques and technologies
- PPP to promote mecanisation services
- Improve improved seed availability and use by small farmers through the use of mobile cleaning methods
- Promote new outlets for small farmers and secure the supply of quality paddy rice to rice fields through contract farming

➤ **Business plan**



PPP: Seed cleaning-calibration and processing machine



PPP funding plan for a mobile seed cleaning equipment

Description	Overall amount by 2017 (€)	Public entity contribution (€)	NAFASO contribution (€)
I. Total fixed investments	115,000	95,000	20,000
II. Fitting - testing & trainings	11,000	0	11,000
III. Demonstration fields	60,000	0	60,000
IV. Training of seed growers	15,000	10,000	5,000
V. Training of technical agents (CAP-M)	10,000	0	10,000
VI. Upgrade National service Seeds	10,000	0	10,000
VII. Monitoring-Evaluation	5,000	5,000	0
Total PPP	226,000	110,000	116,000
Shares of contributions	100%	49%	51%



Key innovation 3: Simplified development of low-lands

- Develop participatory approaches in partial water catchment, suitable to small farmers ability to own the process
- Promote renewable energy solutions (solar dishes & rice bags gasification) to compensate steaming costs and deforestation.





Innovations	Level of dissemination of innovations
Integrated approach for improved seeds	<ul style="list-style-type: none"> ▪ 30 indigenous trainers trained 1.800 seed growers trained on IT & BPA ▪ 1.200 tons of Orylux and TS2 seeds ▪ 170 seed inspectors and 85 lab technicians upgraded their level ▪ Contract farming 26.000 Euro of private funding secured for advisory support, loans and inputs
Public Private Partnership (PPP)	<ul style="list-style-type: none"> ▪ PPP business plans ▪ Selection based on partners' expressed interest for rice-fields and agricultural equipment management ▪ 90 indigenous trainers trained 5.400 farmers on BPA&SRI ▪ 2 field schools for CAP-M - 240 learners trained on IT.
Simplified development of low-lands	<ul style="list-style-type: none"> ▪ 130 hectares developed ▪ 20 agricultural trainers trained 1.150 members from 14 agricultural co-operatives ▪ Loans for inputs: 3.000 Euro ▪ Dissemination of the use of TS2 improved rice seed ▪ Pilot phase of a rice parboiling unit operated by solar energy and gasification system.

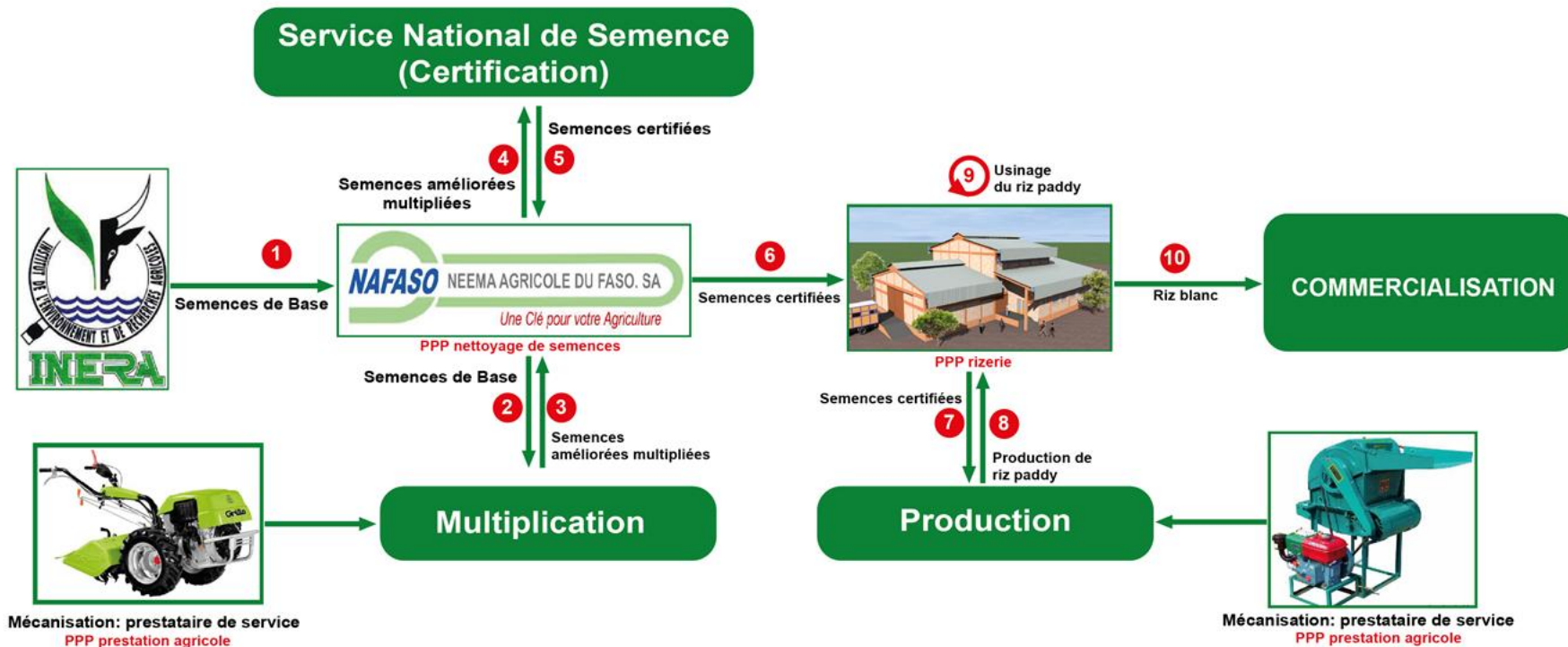


Integrated approach to sustain the achievements

1. Value-chain approach to promote the adoption of innovations	2. PPP & Inclusive business plans oriented on the players individual and collective interests	3. Put in place a capacity building system
<ul style="list-style-type: none">• Market opportunity oriented• Involvement of all players, upstream and downstream, « <i>push and pull strategy</i> ».	<p>Contract farming : promotion of win-win business links between producers, input suppliers and buyers, including :</p> <ul style="list-style-type: none">• Integrated services (e.g. input supply, pre-funding, advisory support);• Secured fair and competitive market access	<p>Training and advisory support : capacity building in</p> <ul style="list-style-type: none">• initial and on-going formal and informal training• advisory support. <p>Practice oriented learning :</p> <ul style="list-style-type: none">• field training (field schools in CAP-M and model producers' fields);• peer-learning (training of indigenous trainers in charge of training and providing support to farmers that are members of Farmer Organisations)



Flux-matières dans l'approche intégrée pour la durabilité des acquis





PPP rice-field: Inclusive Business plan

