Summary of NRDS2 Concept Notes: Nigeria

	Title, Location, Period	Overall Objective (Goal)	Specific Objectives	Components and Activities (excluding Project Management Component)	Budget (USD)
1	Capacity Building of NCRI Staff on EGS production and Variety Maintenance - NCRI Badeggi - 5 years	Quality of Early Generation Seed (EGS) is improved/ enhanced	Strengthen the Capacity and Improve the Knowledge base of Plant Breeders, Agronomist and Seed Scientist on EGS production	1. Conduct training needs assessment 2. Identify those to be trained 3. Identify training institutions 4. Implement Training	187,190.13 - Grant - R&D - Tech Coop/Assist - National budget
			Build Capacity of Plant Breeders, Seed Scientist and technicians on Plant Variety Maintenance	1. Conduct training needs assessment 2. Identify those to be trained 3. Identify training institutions 4. Develop technicians' field handbook 5. Implement training 6. Carry out a ToT for technicians 7. Conduct short term training (short courses) 8. Long term training (for MSc and Ph. D)	
			Improve Communication between the Breeder Seed Producers and Foundation Seed Producers at NCRI	1. Establish a focal point for communication purpose 2. Organize regular meetings between HQ and outstations	
2	Establishment of Seed Testing laboratory, Rehabilitation and upgrading of infrastructures - NCRI Badeggi - 4 years	Improve Seed Quality and Strengthen the National Cereal Research Institute (NCRI)	Establishment of Modern Seed Testing laboratory at NCRI	1. Conduct needs assessment 2. Shopping for consultants and award of contract for the establishment of a Modern Seed testing laboratory at NCRI HQ and Outstations. 3. Construction of Seed labs at NCRI HQ and Out stations and installation of modern seed testing facilities at NCRI and out stations	2,054,166.12 - Grant - Tech Coop/Assist - National budget - Private sector
			Improve seed quality infrastructure at NCRI	Rehabilitation of cold room at NCRI 1. Assessment of the condition of the cold room 2. Shopping for consultants and award of contract for Rehabilitation of Cold 3. Rehabilitation of the Cold room 4. Installation of Alternative Power Source (Solar)	
				Rehabilitation and upgrading of storage facilities 1. Assessment of the condition of the present storage facility 2. Shopping for consultants and award of contract for Rehabilitation 3. Rehabilitation of the Storage facility and fitted with alternative power source at NCRI HQ	
			Improve Knowledge of Technical staff in handling infrastructures	1. Conduct a knowledge gap assessment 2. Identify key technical staffs for capacity building 3. Identify Training Institution for training	

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				4. Conduct training 5. Evaluate trainees on training conducted to ascertain knowledge gained 6. deployment of trainees to relevant departments	
			Improve monitoring of Seed production fields (Provision of utility vehicles)	1. Shopping of a reputable contractor and award of contract for supply 2. Shopping of a reputable contractor and award of contract for supply of 11 nos. 4x4 utility vehicle 3. Procurement and supply of 11 nos. 4x4 utility vehicle at NCRI HQ 4. Regular monitoring of Seed production fields	
3	Improve Seed Quality Assurance Infrastructure at the National Agricultural Seeds Council (NASC) - NASC (HQ and 6 Regional Offices) - 3 years	To Enhance Seed Field Inspection, Seed Certification and Strengthen the National Agricultural Seeds Council (NASC)	To Rehabilitate and Upgrade infrastructure at the National Agricultural Seeds Council (NASC) HQ and Six (6) Regional Offices.	Rehabilitation and upgrading seed testing laboratory equipment 1. Conduct Needs Assessment 2. Shopping for consultants and award of contract for the procurement of modern seed testing equipment 3. Supply and Installation of Modern Seed testing equipment at the Laboratory of the NASC HQ and six (6) Mini Laboratory at the six (6) regional Offices of the NASC.	1,192,748.38 - Grant - Tech Coop/Assist
				Rehabilitation and upgrading of non-functional irrigation facility 1. Conduct Needs Assessment 2. Shopping for consultants and award of contract for the rehabilitation and upgrading of the NASC's irrigation facility 3. Rehabilitation and Installation of modern irrigation facility at the Head Quarters of the National Agricultural Seeds Council (NASC)	
				Procurement of vehicles for monitoring and inspection 1. Conduct Needs Assessment 2. Shopping for consultants and award of contract for the procurement 3. Supply of Nine (9) nos 4x4 Toyota Hilux Vehicle	
			To increase the knowledge base and build the capacity of Seed Inspection, Certification and Quality Control officers on Modern Techniques in Seed Quality Assurance (Based on ISTA Standards) and on Digital Certification	1. Conduct a knowledge gap assessment 2. Identify key technical and laboratory officers to be trained 3. Identify Training Institution for training. 4. Develop training manual/ handbook on modern seed testing based on ISTA standards. 5. Conduct training (Based on ISAT Standards) 6. Evaluate trainees to ascertain knowledge gain 7. Deployment of trainees to relevant laboratories	
			Provision of handy seed field inspection kits. (Tablets, Probe, moisture meters, sampling bags, GPS Etc.)	1. Conduct Needs Assessment. 2. Shopping for consultants and award of contract for the procurement 3. Procurement of Handy Seed field inspection kits 4. Supply of Handy Seed Field inspection kits to the NASC HQ	

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4	Capacity building of selected Seed Companies on FS production, Out-growers on CS production, and Agro-dealers on Quality Seed handling techniques -Six (6) Geopolitical zone 2 years	To enhance the skills of selected seed companies, Seed out growers, on quality seed production and Agro Dealers on good seed handling practices	To improve the knowledge base and skills of seed production officers of selected Foundation Seed producing Companies	1. Define Selection Criteria 2. Conduct training need assessment of the Seed production officers of selected seed companies 3. Select officers to be trained 4. Identify training institution 5. Develop training materials 6. Conduct training 7. Conduct training impact assessment 8. Draw samples for quality assessment	128,010.20 - Tech Coop/Assist - National budget
			To Improve the Knowledge base and skills of out growers of selected Seed Companies on Good Agronomic practices	1. Company to conduct training needs assessment for their out-growers 2. Select 20 out-growers each from six (6) companies 3. Recruit a gap (Good Agronomic practices) expert 4. Prepare training manuals for the training 5. Conduct training 6. Carry out training impact assessment	
			To improve the knowledge base and skills of selected Agro-input dealers on good seed handling techniques	1. Define and outline the selection criteria 2. Conduct training need assessment 3. Identify training institution/expert 4. Develop training manual 5. Conduct training for 180 agro-input dealers on good seed handling technique 6. Conduct training impact assessment	
5	Development of irrigated lowland for rice farming - 6 geo-political zones - 5 years	Development of cultivable irrigated land for increase rice production	To develop irrigable land in 6 locations	1. Mapping of suitable land for irrigation development 2. Sensitization of stakeholders for mapped out land distribution 3. Land clearing/de-stumping	6.71 million - Grant - Tech Coop/Assist
			To upgrade the infrastructures in existing irrigation facilities	1. Carry out assessment of irrigation facilities across the country 2. Shop for experts to carry out upgrading and award contract 3. Carry out upgrading of infrastructures (Construction of access roads, canals, major/minor irrigation facilities)	
			To construct micro earth dams in selected major rice production clusters across the 6 geo-political zones of the country	1. Carry out a baseline study to determine locations to develop micro earth dams 2. Shop for an experience contractor and award contract 3. Carry out a feasibility study to determine viability of selected sites 4. Construct micro dams with infrastructures 5. Organize farmers into production clusters around the micro dams to form water use associations (WUA)	

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6	Upgrading of Machinery workshops at NCAM, AMOTRAC/BATSU - NCAM, AMOTRAC/BATSU - 5 years	To upgrade rice machinery development workshops	To promote rapid utilization of appropriate cost-effective production and processing machinery	1. Carry out a baseline survey of machineries and tools in the market 2. Study the common challenges of the machines and tools 3. Identification of machines specification 4. Identify spare parts manufactures/importers	7.5 million - Grant - Tech Coop/Assist
			Enhancement of local production and processing rice machines	1. Identification of machines & tools required (Needs assessment) 2. Identification of local producers 3. Upgrade of infrastructures of local producers	
			To build capacity of Engineering, Technicians, and craftsmen on machines fabrication	1. Training needs assessments of personnel along the mechanization value chain 2. Identify training location both foreign and local 3. Conduct training	
			To enhance local content and adaptability of imported agricultural machinery	1. Survey of the efficiency of machines in the market 2. Survey of agricultural machinery dealers 3. Needs assessment of existing infrastructure 4. Identify procedure for procurement of infrastructure 5. Procurement of infrastructures	
7	Capacity building for Engineers and Technicians staff of NCAM, AMMOTRAC BATSU and FDA - NCAM, AMMOTRACS and BATSU - 5years	To build the capacity of Engineers and Technicians of NCAM, AMMOTRAC BATSU and FDA on the best practices in handling of agricultural machinery for rice value chain	To train the engineers and technicians on modern techniques of machinery concept and design	1. Profiling of trainees for knowledge gaps 2. Identification of relevant institutions suitable for the conduct of the training 3. Produce training materials 4. Conduct of the relevant training 5. Evaluate trainees to ascertain knowledge gain 6. Deploy personnel to relevant departments	1.11 million - Tech Coop/Assist - National budget - Private sector
			To train engineers and technicians on current methods of fabrications used in developed countries		
			To train engineers in ergonomics of machines design and development		
			To train engineers and technicians on handling of modern production machine workshop (computer-aided machines (lathe, milling, welding machine etc)		
8	Construction and reactivation of head dykes, tube wells,	To construct and rehabilitate critical irrigation	Availability of irrigation for at least 2 cycles of rice production in a year	1. Site selection for micro earth dam construction 2. Sourcing of contractor/award of contract 3. Construction of the dam	9 million - Grant

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	wash bores and channelization for expansion of irrigated areas at NCRI & NCAM - NCAM, NCRI and 9 out-stations - 5 years	infrastructure for rice production	Capacity building for the cluster farmers around NCRI field	1. Access training needs of cluster farmers 2. Produce training materials 3. Conduct trainings 4. Conduct impact assessment of trained farmers 5. Conduct impact assessment on research activities	- R&D - Tech Coop/Assist - National budget - Private sector
			Upgrade infrastructure for research & development	1. Specification development for the infrastructure and contract process 2. Commencement of upgrading/reactivation 3. Backstopping to ensure compliance to specification 4. Training on infrastructure use to enhance sustainability 5. Monitoring and backstopping to ensure appropriate use and improved maintenance culture	
			Availability of supplementary water for irrigation	1. Conduct a need assessment 2. Site selection for the construction of tube wells and wash bores 3. Selection of contractor/award of contract 4. Construction of tube wells and wash bores	
9	Improving quality and value addition to milled rice - Nationwide - 3-4 years	Improving milled rice competitiveness and value addition to rice side products	Enhance the capacity of small-scale rice processors	1. Training of farmer groups, parboilers, and extension agents on improved processing techniques. E.g improved parboiling techniques	3,3326,315.79 - Grant - R&D - Tech Coop/Assist - National budget - Private sector
			Improve efficiency from medium to large scale rice processors	1. Development of training manual on milling operation 2. Training mill operators on milling efficiency (machine calibration, maintenance, etc)	
			Improve quality of milled rice	1. Development of grading standards for milled rice 2. Training on milling standards and food safety for rice processors	
			Improved access to modern processing equipment	1. Facilitate access to finance for medium to large scale processors to purchase processing equipment 2. Creation of awareness on duty waiver for rice processing equipment	
			Promotion of utilization of milled rice byproducts	1. Introduction and promotion of Husk briquetting machine 2. Promotion of bran for animal feed/energy generation 3. Training of women and youth on how to generate income from transforming these rice byproducts 4. Training of women and youths on income generation through value addition to unparoled milled rice (Rice drinks, rice snack etc)	
10	Improving on-field post-harvest Handling and	Improving efficiency in Postharvest	To reduce postharvest losses in the rice value chain	1. Sensitization, demonstration, and capacity building of farmer/ extension officers on modern post-harvest and processing practices 2. Development of training materials (posters, manuals)	23,989,144.74 - Grant - Tech Coop/ Assist

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	management practices - Nationwide - 3-4 years	management and storage		3. Support farmer groups to access single digit credit for post-harvest machineries (threshers, winnower, moisture meter and hand harvesters) e.g ., organizing match making workshops with financial institutions and farmer groups 4. Set-up of post-harvest machinery hiring and service centers 5. Provision of subsidies on postharvest equipment 6. Capacity building for local fabricators on fabrication and maintenance of postharvest machineries 7. Construction, rehabilitation, and equipping (dryer of grain aggregation centers (GACs)) in all rice production clusters across the country 8. Introduction of ICT in paddy aggregation 9. Construction and rehabilitation of access road	- National budget - Private sector
			Promote the paddy grading standard	1. Sensitization on paddy grading standards across producers, processors, and aggregators	
11	Improving the competitiveness, Branding and marketing of made in Nigeria Rice and Rice side products - Nationwide - 3-4 years	Improving the competitiveness and patronage of made in Nigeria rice	To strengthen the enforcement on the importation, ban on foreign rice into the country	1. Sensitization campaigns and the enforcement on the importation ban on foreign rice into the country. 2. Sensitization campaigns on the benefits of locally produced and processed rice	6,357,894.74 - Grant - R&D - Tech Coop/Assist - National budget - Private sector
			To promote the use of standard quality packaging materials for milled rice	1. Develop protocols for standard packaging materials for milled rice	
			Introduction of ICT in certification of milled rice	1. Developing a certification label (QR code) with food regulatory agencies. This code can have the product description embedded 2. Conduct a study on heavy metal contamination in Nigerian rice 3. Capacity building and equipping of laboratories of food regulators to do test of milled rice. E.g., heavy metal tests etc.	
			To create awareness on food safety for millers and consumers on milled rice	1. Sensitization campaigns on the food safety standards for local processors to consumers to build their confidence in the locally processed rice 2. Enforcing food safety regulations for rice processors and marketers	
12	Promotion inclusive Digital Finance for	To increase timely access to affordable	Increase access to finance for rice value chain actors by 10% annually	1. 200,000 Farmers accessed funding 2. 20 small processors cooperative also access funding 3. 10 Agro Inputs associations financed	5,095,612.50 - Grant

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	Small holder Rice Value Chain Actors - Six states of Kano, Niger, Anambra, Adamawa, Ekiti and Cross River - 5 years	finance by smallholder rice farmers	Enhance stakeholders' knowledge of agribusiness management	1. Empowered value chain actors on agribusiness 2. 200,000 SHF 3. 20 Small processors coopératives 4. 10 Agro input cooperatives 5. 6 SME Agro mechanization service providers 6. Bankers trained on Agricultural Value chain Financing	- Tech Coop/Assist - Private sector
			Provide market linkages across value chain actors and financiers	1. Seamless linkage created between the following actors: 2. Inputs suppliers 3. Mechanization services providers 4. Paddy producers 5. Processors 6. Financial services providers 7. Marketers	
13	Strengthening the Rice Value chain statistics System in Nigeria - Nationwide - 5 Years	To provide centrally accessible data system on Nigerian smallholder rice farmers	To identify and profile smallholder rice farmers, production, and processing clusters	1. Number of production clusters and farmers established 2. Size (hectares) of production clusters established 3. Number of processors and processing clusters established 4. Processing capacity of each cluster established	2,249,555 - Grant - Tech Coop/Assist - National budget
			To identify and profile the socio-economic characteristics of the farmers and processors and conduct need assessment	1. Socio-economic characteristics of farmers identified 2. Socio-economic characteristics of processors identified 3. Baseline characteristics determined 4. Challenges of farmers identified 5. Challenges of processors identified	
			To develop a central data system on the farmers and processors	1. Data Base on farmers and production established 2. Database on rice farms established 3. Data Base on Processors established 4. Data Base of processing capacity and processing technology employed established	
			To enhance the country capacity on data collection, analysis, and management	1. A pool of data management experts produced	
14	Promoting stakeholders access to finance to the development of competitive and inclusive rice value chain	To strengthen the capacity of the beneficiary stakeholders to acquire financial services for the development of	To strengthen the business and entrepreneurships capacity of small-scale farmers, processors, and other actors in the value chain	1. Conduct training need assessment 2. Train service providers, producer organisations and small-scale enterprises in business management, recored keeping, contract negotiations, cooperative services and marketing 3. Train financial service providers on agricultural value chain financing 4. Support producer groups to register, open bank accounts or subscribe to selected and formalize their groups	2,000,000 - Grant - Tech Coop/Assist - Private sector

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	- Twelve states (Sokoto, Jigawa, Kwara, Ebonyi, Bauchi, Gombe, Lagos, Akwa Ibom, Kano, Anambra, Ogun & Adamawa) - 5 years	competitive and inclusive rice value chain		5. Improve service provision and cooperation among value chain actors 6. Determine source of financing 7. Identify mechanization and financial service providers	
			To promote technologies and practices for resilience and sustainable production	1. Training production clusters on sustainable rice production practices, water & soil fertility management 2. Training processing clusters on rice post harvest handling and processing technologies and quality management 3. Training producers and processing clusters on the use of ICT tools for rice production and processing (Rice Advice, paddy base etc)	
			To strengthen public private partnerships to improve efficiency of the value chain and enhance market access	1. Conduct a value chain mapping to identify stakeholders from public and private sector 2. Conduct capacity building on marketing strategy and linkage 3. Facilitate stakeholders dialogue to promote partnerships between producers, processors and other value chain actors to enhance market access	