## Checklist for Agricultural Engineering Sector (Policy) - Anglophone Group

Actors on supply chain	Check list - what they have to do (related to capacity needs)	Check list – what enabling environment they need to be able to	Enabling environment that government can provide	
International manufacture rs	<ul> <li>Quality         assurance,         including         warranty on         exported         machinery</li> <li>Reliable         supply of         spare parts,</li> </ul>	Large market scale     Reliabledealers hips	<ul> <li>Policy &amp; strategy on agricultural mechanization(MOA)</li> <li>Test &amp; evaluation, safety inspection and certification of quality of machinery (MOA)</li> <li>Tax incentives such as reducedimport tariffs for machinery and spare parts (MOF)</li> <li>Waive/reduce tariff for those machineries and implements that could not be manufactured locally</li> <li>Impose after-sales service, warranty and supply of spare parts as pre-conditions</li> <li>Register the trade mark and copy rights in the country</li> <li>Strict legislations and enforcements on counterfeit products</li> <li>Promote competition amongst international manufacturers and dealers</li> <li>Wherever applicable, encourage multiple dealers to avoid monopoly</li> </ul>	Enforce standards and regulations on quality of imported machineries and implements through quality verification, field testing and certification processes
Importing agents	<ul><li>Adequate stocks for immediate delivery</li><li>Local</li></ul>	<ul><li>Quick issue of L/C</li><li>Short entry</li></ul>	<ul> <li>Tax incentives such as reduced import tariffs for machinery and spare parts (MOF)</li> <li>Short entry (MOT)</li> <li>Waive/reduce tax on imported farm machineries, implements and spare parts</li> </ul>	<ul> <li>Enlist minimum qualifications and pre- requisites (workshop, human capacity) for importers</li> </ul>

ass	embling		•	Enforce appropriation and standardization of machineries being imported Facilitate clearance of the imported machineries at customs through fast track
manufacture s ma (en stair rea cos Qui con wall	nchineries materials, egineering endard) at standard esonable Loans	<ul> <li>Qualified engineers (Universities)</li> <li>Reduced import duties for raw materials (MOT)</li> <li>Engineering standard (MOI)</li> <li>SME promotion including loans (MOC, MOI)</li> <li>Reduce/waive tariff for raw materials for manufacturing farm machineries and implements</li> <li>Provide incentives (such as land, electricity, etc.) for setting up manufacturing units</li> <li>Provide tax holidays for short- and medium enterprises</li> <li>Intellectual Property Rights – Prevent the design and production of locally manufactured machineries and implements from being copied /counterfeits</li> <li>Improve credit facilities, schemes (start-up funds, seed funds, soft loans, etc.) to promote SMEs in farm machineries</li> </ul>	•	Enforce appropriation and standardization of machineries being locally manufactured Fast-track the licensing and registration of products Increase human capacity on research, design, testing, and promotion of locally manufactured items Promote manufacturing business incubation models Promote close collaboration between R&D units and local manufacturers

Material suppliers	Supply of raw materials and machine elements	•	<ul> <li>Tax incentives for farm machinery production</li> <li>Reduce/waive tariffs on imported raw materials</li> <li>Reduce/waive Value Added Tax for local suppliers of raw materials</li> <li>Encourage regional trades with zero tariff for raw materials</li> </ul>	<ul> <li>Ensure uninterrupted availability of electric power to manufacturing units</li> <li>Improve accessibility through improved infrastructure (transportation)</li> </ul>
Dealers Distributors Retailers Traders (this including transport)	<ul> <li>Repair and maintenance of imported machines</li> <li>Stocks of standard spare parts</li> <li>Operator training</li> <li>In-house credit</li> <li>Resale of second hand equipment</li> </ul>	<ul> <li>Two step loans, Soft loans</li> <li>Large scale market</li> <li>Delivery network</li> </ul>	<ul> <li>Soft loans (MOI, MOF)</li> <li>Mechanization promotion (MOA)</li> <li>Operator training (MOA)</li> <li>Increase access to finance through soft line of credit for dealers, distributors and traders through banks and microfinance institutions</li> <li>Incentivize setting up dealerships in remote and rural areas</li> <li>Promote fairness and transparency in pricing, quality of tools being sold – encourage associations and competition amongst dealers</li> </ul>	<ul> <li>Train and License:         Provide training,         knowledge and         information on farm         machineries and tools         that are appropriate         for local use</li> <li>Require registration of         dealers, distributors,         retailers and traders of         farm machineries</li> <li>Use of Information and         Communication         Technology tools to         promote the access to         farm machineries and         implements</li> <li>Enforce appropriation,         standards and quality         of tools being sold</li> </ul>

					through the dealers – black list/penalise
					those who do not comply standards
				•	Set up a fairness
					committee under the Ministry of
					Trade/Commerce to
					oversee the pricing
				•	Establish linkage
					between
					dealers/distributors
					and farmers'
					cooperatives/associati ons and service
					providers and promote
					bulk purchasing and bargaining
				•	Promote demand for
					farm machineries and
					implements by creating
					awareness campaigns
					and stakeholder
					forums
				•	
Local	Adequate	Market     Coefficient	Vocational training (MOI)	•	Provide license and
workshops for	skills of	(Sufficient number of	Encourage private investments in setting up workshops     in mural and high and distributions are as (what are the tools to		training to workshops
maintenance	maintenance ( Periodical	customers who	in rural and high production areas (what are the tools to encourage?)		engaged in farm machineries
manneemanee	( i cilouicai	customers will	encourage: )		machineres

	<ul> <li>and preventive)</li> <li>Availability of spare parts for timely delivery</li> <li>Minimum business skills</li> </ul>	can afford to services in a certain area)  • Favourable cost-benefit framework for sustainable operation		<ul> <li>Require registration of workshops</li> <li>Increase human capacity through awarding diploma/certificate programs on basic mechanical engineering</li> </ul>
Financiers	Low interest credit, Long repayment period credit	Soft loans	<ul> <li>Two step loans (MOI, MOF)</li> <li>Economic infrastructure(MOF)</li> <li>Increase access to credit to all the actors along the supply chain by providing soft loans and lines of credit</li> <li>Encourage microfinance institutions and rural banks to finance setting up of workshops, dealerships, importation and manufacturing of farm machineries and implements</li> <li>Provide Guarantee funds to users on purchase of farm tools</li> <li>Encourage cooperatives and associations to take loans on common collaterals</li> </ul>	Provide training on business and contractual skills of cooperatives, associations
Custom hiring providers	<ul> <li>Information network,</li> <li>Access by farmers</li> <li>Reasonable cost</li> <li>High rate of operation</li> </ul>	<ul> <li>Loans</li> <li>Adequate number of customers</li> <li>Favourable cost-benefit framework for sustainable</li> </ul>	<ul> <li>Loans (MOA, MOF)</li> <li>Privatized hiring service (MOA)</li> <li>Encourage rural entrepreneurs and medium scale farmers to invest in farm machineries and tools (what are the tools to encourage?)</li> <li>Increase access to finance for the custom hiring providers through long term soft loans towards the purchase of machineries</li> </ul>	Enforce quality and standards of operations and machineries being hired

	Business skills,	<ul><li>operation</li><li>Less seasonal fluctuations(do uble cropping)</li></ul>	<ul> <li>Promote Contractual farming and machinery services</li> <li>Provide tax incentives (reduce/waive service tax/income tax)</li> </ul>	
Milling service providers	<ul> <li>Quality milling</li> <li>Reasonable cost</li> <li>Accessible location (proximity to rice producing area) by farmers</li> <li>High rate of operation</li> </ul>	<ul> <li>Less seasonal fluctuations(do uble cropping)</li> <li>Assured market access (distance from markets, road network)</li> <li>High quality rice market</li> </ul>	<ul> <li>Rice quality standard (MOA, MOC)</li> <li>Privatized milling service (MOA, MOC)</li> <li>Rice marketing promotion (MOC)</li> <li>Incentivise milling services in low production areas</li> <li>Promote private investments in milling services in high production areas (what are the tools to promote?)</li> <li>Increase access to market information (production volumes, pricing)</li> </ul>	<ul> <li>Provide electricity in milling areas</li> <li>Improve infrastructure (roads, hygiene, housing, etc.) of mills</li> <li>Provide training on appropriate standards (quality of harvested paddy grains, machineries, breakage of milled grains, grading, etc.) in rice processing</li> <li>Enforce standards and quality of milling process</li> <li>Establish linkage with farmers, traders (paddy and rice) and consumers</li> </ul>
Machine operators	Adequate technical ability to operate and maintain	Market     (Sufficient     number of     customers who     can afford to	<ul> <li>Training on operation and maintenance (MOA)</li> <li>Train and license machine operators</li> <li>Encourage formulation of an organization of machine operators</li> </ul>	<ul> <li>Establish vocational training and refresher courses</li> <li>Enforcement of rules and regulation of</li> </ul>

	machinery	services in a certain area)		proper machinery use and safety  Ensure uninterrupted availability of electric power to manufacturing units  Enforcement of labour laws
Small scale farmers, Farmers' association	<ul> <li>Financial capacity to purchase, operate and maintain machineries</li> <li>Technical skills to operate and maintain machineries</li> <li>Minimum skill of business management</li> </ul>	<ul> <li>Proximity, quality and affordability of machinery services</li> <li>Improved costbenefit of farming through mechanization</li> <li>Group use of machinery</li> </ul>	<ul> <li>Promotion programme for machinery group use (MOA)</li> <li>Loans (MOA, MOF)</li> <li>Purchase subsidy (MOA)</li> <li>Training on business management</li> <li>Extension services (MOA)</li> <li>Establish land consolidation policy - Encourage consolidation of farms to allow promotion of the use of more modern machinery (this could be controvercial)</li> <li>Increase access to production and market information</li> <li>Provision of subsidies, soft/low interest agricultural loans for the purchase of equipment and machineries</li> <li>Promote extension services through farmer field schools</li> <li>Subsidise critical agricultural machinery to farmers</li> <li>Promote farmers' Savings and Credit Cooperative Societies</li> <li>Promote machinery hire services amongst farmers – establish regulations, information on availability and guidelines on provision of the services</li> </ul>	<ul> <li>Train farmers in marketing/production/value chain development</li> <li>Sensitize and mobilise the small farmers (individuals, cooperatives) on Land Consolidation</li> <li>Encourage formation of cooperatives/interest groups on mechanization</li> <li>Assist entrepreneurs to capture and add value to on-farm, post harvest and off-farm enterprises</li> </ul>
Animal	• Feed supply,	<ul> <li>Veterinary</li> </ul>	Qualified veterinarians (MOA)	Train farmers in basic

draught power users	service, • Skilled trainers, Equipment	<ul> <li>Increase access to production and market information of draught animals (oxen)</li> <li>Encourage formation of cooperatives/interest groups</li> <li>Subsidisation/Provision of soft/low interest agricultural loans to acquire animals and implements</li> <li>Promote hiring services to farmers who do not own animals for power</li> <li>Promote local manufacture of animal drawn implements</li> </ul>	<ul> <li>animal health and nutrition(harnessing, use, care, feeding)</li> <li>Establish community based fabrication workshop for farm implements and spares</li> <li>Establish source of proven breeds of oxen</li> <li>Put in place a community based animal health and nutrition support</li> </ul>
			nutrition support program