Great Green Wall Transboundry Project achievements in Niger Republic

Bacground cont’d

- It has to be reminded that the flag bearer of this project is the Millennium Seed Bank Project (MSBP), an international initiative coordinated by the Royal Botanic Gardens, Kew in the United Kingdom.
- The MSBP started in 1995, and aimed to collect seeds, herbarium specimens and data from the world's dryland plants with emphasis on threatened, rare and useful species. But in view of the deteriorating environmental conditions the MSBP changes it vision by integrating local development options with the applied science.
- Local communities willingly, raise, plant, tend and protect trees if only they perceive immediate benefit from those trees. So, one of the aims is the sustainable use and income generation from useful plants and plant products.

Background

- That is what has seeded, germinated and grown the idea of the Great Green Wall Transboundry Project. It started in Niger republic in 2013 with the signing of an agreement between officials from the Ministry of environment and the custodian of the Royal Botanic Gardens Kew in the United Kingdom.
- The objective is to work in the area located within the zone of the Great Green Wall initiative of the Sahara and Sahel, which adjoins countries. It is why the project intervenes in Tillabéri (Niger) region alongside its border with Dori (Burkina) and in Ouahigouya (Burkina) alongside its border with Bankas (Mali).
- In Tillabéri region, the activities are implemented in three (3) local governments; Téra, Bankilaré and Gotheye. In these local governments, municipalities are selected from which villages are chosen based on their commitment to cooperate in the work. The whole process is done by associating from early, village communities, municipal authorities, traditional leaders and technical staff of the decentralized level of the Ministry in charge of Environment.

2.1 Data collection process

- The surveys are conducted in all the selected villages with the MSBP model of data collection questionnaire. In each village respondents are grouped into socio-professional categories to answer questions. The respondents are from the main socio-professional categories in the villages that are: farmers, herders, wood carvers, traditional healers and nurserymen/women.

Nurserywomen, Yatakala village (Gorouol municipality: Téra Feb.2014)

Herders, Gotheye village (Gotheye municipality: Gotheye, Feb.2014)

Farmers, Wasseygatounounté village (Bankilaré municipality: Bankilaré, Feb.2014)

Wood carvers, Zalengué 1 village (Bankilaré municipality: Bankilaré, Feb.2014)

Traditional healers, Kourgou village (Dargol municipality: Gotheye, Feb.2014)

Village surveyed in 2014

Departments	Number of municipalities	Number of villages surveyed	Number of respondents
Téra	3	9	42
Bankilaré	1	5	14
Gotheye	2	5	23
Total	**6**	**19**	**79**

The number of plant species from village surveyed

Department	Number of villages surveyed	Number of species cited by village	Number of species cited			
			Abundants	Less abundant	Rare	Disappeared
Téra	9	371	71	68	72	157
Bankilaré	5	226	43	38	44	101
Gotheye	5	298	61	45	62	130
Total	**19**	**895**	**175**	**151**	**178**	**388**

Herbaceous species seeds sent to Burkina Faso and Mali

Species	Regions			
	Dori	**Djibo**	**Bankass**	**Total (kg)**
Alysicarpus ovalifolius	200	150	50	**400**
Brachiaria ramosa	50	50	50	**150**
Eragrostis tremula	20	20	10	**50**
Cenchrus biflorus	300	300	110	**710**
Total	**570**	**520**	**220**	**1310**

Dispatching of herbaceous species seeds by village

Species	Villages							
	Galliangou	**Gounday**	**Bangaré**	**Dolbel**	**Sassarey**	**Kourgou**	**Téra municipality**	**Total**
Alysicarpus ovalifolius	100	75	25	75	75	50	20	**420**
Brachiaria ramosa	60	45	15	45	45	30	15	**255**
Eragrostis tremula	40	30	10	30	30	20	10	**170**
Cenchrus biflorus	20	15	5	15	15	10	5	**85**
Total	**220**	**165**	**55**	**165**	**165**	**110**	**50**	**930**

Dispatching of ligneous species seeds by village

Species	Villages							
	Galliangou	Gounday	Bangaré	Dolbel	Sassarey	Kourgou	Téra municipality	Total
Acacia albida	4	3	1	3	3	2	-	**16**
Piliostigma reticulatum	4	3	1	3	3	2	-	**16**
Bauhinia rufescens	4	3	1	3	3	2	-	**16**
Grewia bicolor	-	-	3	-	-	5	-	**08**
Balanites aegyptiaca	2	2	1	2	2	2	-	**11**
Ziziphus mauritiana	4	3	1	3	3	2	-	**16**
Acacia senegal	3	2			3	2		**10**
Acacia seyal			1		1	1		**03**
Entada africana						3		**03**
Daniellia oliveri						3		**03**
Total								103

Fill planting for Téra municipality villages

Village	Number of seedlings planted	Surface area equivalent (ha)
Badjirga	10 000	32
Doumba	5 000	15
Zindigori	2 000	8
Handaga	1 500	5
Total	**18 5000**	**60**

The assessment of the sites to be reclaimed

- After the survey, the step forward is an enquiry toward NGOs, Projects and foresters at the local government and communal level whom that are intervening in the zone. This process is intended to record the total area that will be covered by trenches, half-moons or banquettes. The data on the total area that will be worked is paramount for the calculation of the number of the seedlings to be raised for plantation and the quantity of seeds for direct seeding and sowing.

Half-moon implementation by women (Téra)

Half-moon implementation by women (Téra) cont'd

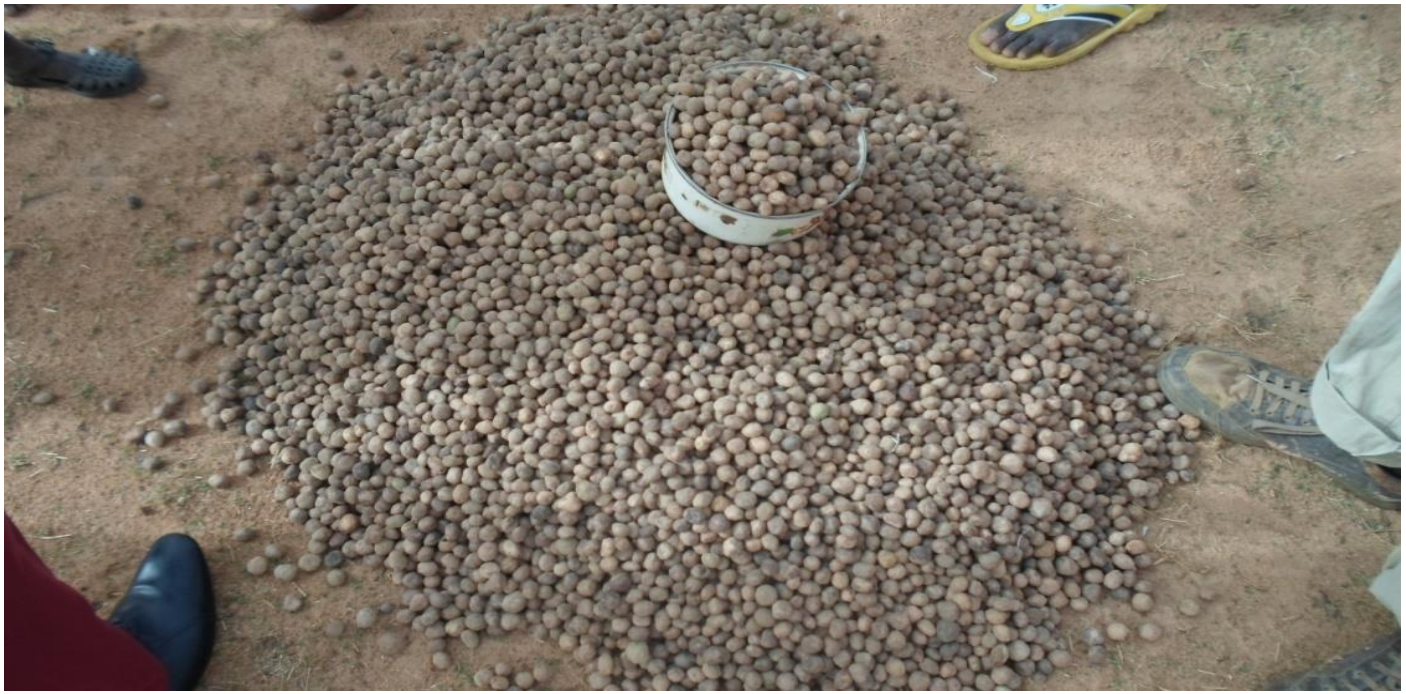
Forest nurseries installation

Seedlings produced and planted in 2014

Species	Villages				Total
	Bajirga	**Doumba**	**Zindigori**	**Handaga**	
Acacia senegal	17378	4210	7533	9435	**38556**
Acacia raddiana	2600	2000	2000	1500	**8100**
Balanites aegyptiaca	7737	1600	1845	1949	**13131**
Adansonia digitata	1481	232	480	586	**2779**
Faidherbia albida			376	180	**556**
Khaya senegalensis		270	368	745	**1383**
Ziziphus mauritiana	3800	1000	1609	2225	**8634**
Moringa oleifera	952	500	853	922	**3227**
Total	**33948**	**9812**	**15064**	**17542**	**76366**
Number of half-moons planted	21284	20971	15650	20345	**78250**
The surface area equivalent (ha)	68	67	50	65	**250**

Nursery of Handaga village (Téra commune)

Direct seeding



Direct seeding(cont'd)

Direct seeding(cont'd)

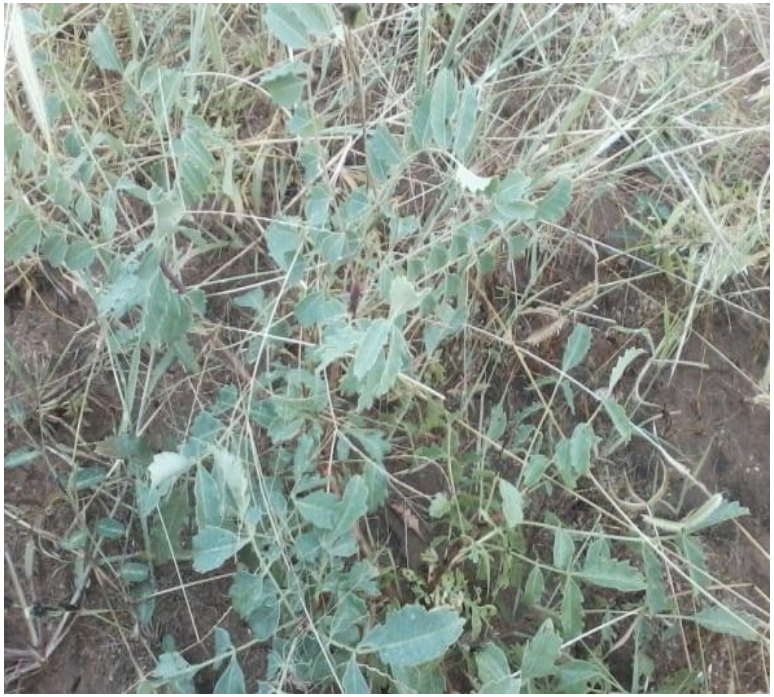
Direct seeding(cont'd)

Direct seeding(cont'd)

Plantations

Plantations(cont'd)

The results on sites



The results on sites(cont'd)

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The results on sites(cont’d)

People involved in the implementattion of the activities

Département	Localités	Nombre de bénéficiaires par site				
		Total	Femmes	%	Hommes	%
Kokkorou	Galliangou	151	88	58,28	63	41,72
Téra	Gounday	416	183	43,98	233	56,02
Téra	Doumba 1	377	162	42,94	215	57,06
	Doumba 2	563	190	33,74	373	66,26
Téra	Handaga 1	347	163	46,94	184	53,06
	Handaga 2	310	146	47,14	164	52,86
Téra	Zindigori 1	455	208	45,81	247	54,19
	Zindigori 2	573	268	46,82	305	53,18
Téra	Bajirga 1	603	294	48,77	309	51,23
	Bajirga 2	597	288	48,22	309	51,78
Diagorou	Bangaré	407	114	28,02	293	71,98
Bankilaré	Sassarey 1	1088	533	48,99	555	51,01

Success rate

Localité	Espèces ligneuses		Espèces herbacées	
	Espèces	Taux réussite global (%)	Espèces	% réussite
Bajirga 1	*Acacia raddiana*	68,78	*Alysicarpus ovalifolius*	17,66
	Acacia senegal		*Brachiara ramosa*	26,21
	Balanites aegyptiaca		*Cenchrus biflorus*	6,20
	Ziziphus mauritiana		*Eragrostis tremula*	18,71
Bajirga 2	*Acacia raddiana*	64,73	*Alysicarpus ovalifolius*	15,17
	Acacia senegal		*Brachiara ramosa*	12,16
	Balanites aegyptiaca		*Cenchrus biflorus*	31,63
	Ziziphus mauritiana		*Eragrostis tremula*	5,77
Galliangou	*Acacia raddiana*	71,31	*Alysicarpus ovalifolius*	27,03
	Acacia senegal		*Brachiara ramosa*	24,51
	Balanites aegyptiaca		*Cenchrus biflorus*	12,90
	Ziziphus mauritiana		*Eragrostis tremula*	10,87

- THANK YOU FOR LISTENING