MARCH 2015



Best Fit Practices for Reforestation in Lebanon to Enhance Climate Resilience in Remote Hilly Areas

DELIVERABLE TASK 3

DEVELOPMENT OF A DESIGN FOR WEB-BASED REFORESTATION REGISTRY, LINKED TO SEED REGISTRY AND TRACKING SYSTEM

PROFOR PROGRAM

WORLD BANK

In cooperation with FAO



Food and Agriculture Organization of the United Nations

www.ctfc.cat

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1. Frame

No	Key Features	Confirmation
1	"Home": link to 2. HOME page	
2	"About the Registry": link to 3. ABOUT THE REGISTRY page	
3	"Salma project": link to 4. SALMA PROJECT page	
4	"Lebanon NARP": link to 5. LEBANON NARP page	
5	"Photo gallery": link to 6. PHOTO GALLERY page	
6	"Links": link to 7. LINKS page	
7	"How can I participate?": link to 8. HOW CAN I PARTICIPATE page	
8	"Arabic": switches to Arabic version of the webpage	
	To go back to English version, a button called "English" will replace the one called "Arabic".	
9	Login / register: opens the LOGIN/REGISTER menu	

1. Upper frame

2. LOGIN/REGISTER menu

No	Key Features	Confirmation
1	Pop-up menu where the user can register or login	
2	When entering correctly the username and password \rightarrow the "Login/Register" menu is substituted by "Username", where the user can make consultations and editing based on the permissions:	
	- Webmaster: full control of the webpage	
	- MoA: a username + password will be provided for the MoA users: they will be able to access the internal database with the metadata of all reforestations. No editing is possible	
	- Other users: they will be able to Add new reforestation; Edit reforestation; Register Municipality; Register NGO, Upload reforestation pictures; following the rules explained at "8. HOW CAN I PARTICIPATE" page	
3	Not registered yet? Go to registration menu \rightarrow link to "9. REGISTER AS USER" page	
4	Username or password forgotten? Type your registered e-mail and we will send you a new access \rightarrow when introducing a registered e-mail, a message is sent with a link where the user can create a new password	

3. Left menu

No	Key Features	Confirmation
1	SALMA project in a nutshell: Link to a pdf / brochure describing SALMA project, opened in a new window	
2	News and events: list of most relevant news and events related to reforestation in Lebanon. The webmaster will choose the news to show directly, and those going to "More news", depending on relevance and date	

4. Right menu

No	Key Features	Confirmation
1	Photo gallery: automatic slideshow showing selected (relevant) pictures from reforestations, from the reforestation experiences uploaded by the users and further pictures	
2	When clicking on a picture, the slideshow becomes full-screen, with the possibility to go back/forward in the slideshow and showing the caption, author and year. It is also offered a link ("Go to photo gallery" \rightarrow 6. PHOTO GALLERY page)	
3	The registry in facts: numbers automatically fed, showing the summary of reforestations registered, total area of the reforestations registered, number of members active, number of municipalities, number of NGOs	
4	# experiences \rightarrow Link to SEARCH EXPERIENCE menu	
5	# municipalities → Link to a table showing the registered municipalities: name, governorate, district, webpage Only registered users can use this link. If a non-registered user wants to access, a message will pop-up: "Please register or login to access this information" Register → link to REGISTER AS USER Login → link to LOGIN menu	
6	# NGOs \rightarrow Link to a table showing the registered NGOs: name, post address, e-mail address, webpage, experience and interest on reforestation	

5. Bottom menu

No	Key Features	Confirmation
1	Each logo links to the corresponding webpage	
2	Disclaimer, copyright, webmaster contact: exact wording will be decided by the web page promoters	



2. Home

1. Map

No	Key Features	Confirmation
1	Map of Lebanon (zoomable, being possible to switch from map to satellite) with the experiences marked in red, being clickable. It is suggested to have a map similar to: <u>http://scryptech.github.io/lri- mapping/proposal/</u> OR to discuss with LRI about potential means of integrating their experiences in this registry	
2	When placing the cursor over a reforestation, a menu will open, showing the main features: Municipality, area, year of plantation, species	
3	When clicking on a reforestation, the whole reforestation form is opened in a new window (the same content introduced in "10. ADD NEW REFORESTATION" page)	

2. Menu "Search experience"

No	Key Features	Confirmation
1	When clicking on "Search experience", a double extendable opened:	e menu is
	by location by its characteristic	<u>cs</u>
	- Governorate - Year of planti	ng
	- District - Bioclimate	
	- Municipality - Species	
	- Other searches	
2	When clicking "Governorate", a combo box will open with t list of governorates; it will be possible to choose none, one governorates	he whole or more
3	When clicking "District", a combo box will open with the w of districts under the selected governorate/s; if no gover selected, the whole list of districts will be shown. It will be to choose none, one or more districts	whole list norate is possible
4	"Municipality" will work the same way as District	
5	Year of planting: two boxes will open (FROM – TO) where possible to indicate the interval of years considered. It possible to select only one year	it will be t will be
6	Bioclimate: the list of bioclimates will open (see the list at NEW REFORESTATION" page); one or more can be selected	10. ADD
7	Species: the list of species will open (see the list at "10. A REFORESTATION" page); one or more can be selected	DD NEW

8	Other searches: the following list of categories and possible values (string variables) or intervals (integer variables) under "10. ADD NEW REFORESTATION" page: prevalent aim, land owner, promoter, contractor, area, monthly/annual climatic data, meteorological station of reference, soil features, altitude, slope steepness, prevailing aspect/s, prevailing physiographic position, plantation density, number of trees, shrub species, other uses within the site, management of pre-existent vegetation, soil preparation type, pit opening type, techniques against drought type, techniques against weeds type, techniques against browsing damage type, other techniques applied	
9	Button "Search": once that the search categories are selected, a list of all the reforestation experiences meeting the chosen criteria will be shown. The categories to show in this list are: Experience code, governorate, district, municipality, year of plantation, promoter, area, species. A button "See reforestation" will link to the reforestation form, opened in a new window (the same content introduced in the "10. ADD NEW REFORESTATION" page)	



Link to the SALMA brochure in pdf

3. About the registry

No	Key Features	Confirmation
1	Paragraph describing the registry, summarizing its aims, content, components, promoter, why it is important	



4. SALMA project

No	Key Features	Confirmation
1	Paragraph describing the project, summarizing its aims, content, components, promoter	
2	Link to project SALMA website \rightarrow link to the site	
3	Project SALMA brochure \rightarrow open brochure pdf in a new window	



5. Lebanon NARP

No	Key Features	Confirmation
1	Paragraph describing the project, summarizing its aims, components, promoter	
2	Link to NARP website \rightarrow link to the site	



6. Photo gallery

No	Key Features	Confirmation
1	Main picture: automatic slideshow showing selected (relevant) pictures from reforestations, from the reforestation experiences uploaded by the users and further pictures	
2	When clicking on a picture, the slideshow becomes full-screen, with the possibility to go back/forward in the slideshow and showing the caption, author and year	
3	General pictures of reforestations: slideshow showing all pictures labelled as "General pictures of reforestations" (see "14. SEND US A PICTURE" page), with author, location, year, caption	
4	Tree species: slideshow showing all pictures labelled as "Species" (see "14. SEND US A PICTURE" page), with author, location, year, caption	
5	Plantation techniques: slideshow showing all pictures labelled as "Plantation techniques" (see "14. SEND US A PICTURE" page), with author, location, year, caption	
6	Random picture: slideshow randomly showing pictures, with author, location, year, caption	



7. Links

No	Key Features	Confirmation
1	List of the main initiatives and actors in Lebanon, Near/Middle East and further resources. Each name should link to the corresponding webpage	

	Lebanon R	eforestation Registry	
Home About the Reg This registry presen	sistry Salma project	Lebanon NARP Photo gallery	Arabic Login / register Links How can I participate?
SALMA project in a	Refor	estation related links	
nutshell	Main initiatives	Main actors	all the second
News and events	Leb	anon	
<u>- Course on</u> afforestation	NARP SALMA LRI 222	Ministry of Agriculture Ministry of Environment Wold Bank	
<u>techniques, Beirut,</u> <u>18-20 April 2016</u>	???	Active NGOs	The Registry in facts:
<u>- Pine grafting</u> demonstration. Niha, 5th May 2016	Mediterranea initiative 1 initiative 2	n and Near East Actor 1 Actor 2	- <u>31 experiences</u> - 1235 hectares - 84 members active - 42 Municipalities
- Project SALMA. reaches 1000 ha reforested	Further Reforestation resourc Reforestation resourc	resources e/initiative 1 e/initiative 2	- 23 NGOS
<u>- More news</u>	Poforostation resource	linitiativo 2	
*	WORLD E		Food and Agriculture Organization of the United Nations

8. How can I participate

No	Key Features	Confirmation
1	Register as user: link to "9. REGISTER AS USER" page	
2	Add your reforestation experience/s: link to "10. ADD REFORESTATION" page	
3	Edit your reforestation experience/s: link to "11. EDIT REFORESTATION" page	
4	Register your municipality: link to "12. REGISTER MUNICIPALITY" page	
5	Register your NGO: link to "13. REGISTER NGO" page	
6	Send us reforestation pictures: link to "14. SEND US A PICTURE" page	
7	Missing information? How can we improve the registry? Please tell us!: pop-up menu with the following fields: Name, e-mail, phone, comment, submit, filter against robots The message submitted will arrive to the webmaster	

	Lebanon Reforestation Registry	Arabic	
Home About the Reg	gistry Salma project Lebanon NARP Photo gallery Links	Login / register How can I participate?	?
This registry presen	ts the reforestation experiences		
SALMA project in a nutshell News and events -Course on. afforestation. techniques. Beirut. 18-20 April 2016 -Pine grafting demonstration. Niha. 5th May 2016 -Project SALMA.	How can I participate? • Register as user • Add your reforestation experience/s • Edit your reforestation experience/s • Register your Municipality • Register your NGO • Send us reforestation pictures • Missing information? How can we improve the registry? Please tell us! • 12 • 84 • 42 • 23	Registry in facts: experiences 35 hectares members active Municipalities NGOS	
reforested			Send your comment
Disclaimer, copyri	WORLD BANK GROUP PROFOR	od and Agriculture ganization of the lited Nations	Name: e-mail: Phone: Your comment:
, oppyr			Please type this code: d 5 g 7 r P (image with code to avoid rol Submit

9. Register as user

	Key Features	Confirmation
1	Username: limited to 10 characters. Compulsory field. There cannot be 2 users with the same username	
2	Name: limited to 10 characters, compulsory field	
3	Last name: limited to 10 characters, compulsory field	
4	Phone: limited to 15 characters	
5	E-mail address: limited to 20 characters; it is compulsory that its composition is: <u>text@text.text</u> . Compulsory field	
6	Country: extendable menu, with Lebanon on the top, and all other countries ordered alphabetically	
7	Organization: limited to 15 characters	
8	Password: at least 6 characters. Compulsory field	
9	Confirm password: if different from "Password", an alert should appear. Compulsory field	
10	Anti-robot code: users must type the same code shown. Compulsory field	
11	Bullet to request Reforestation Registry Bulletin: if marked, the e- mail address will be incorporated to a diffusion list	
12	Bullet to confirm the acceptance of Privacy policy (link to privacy policy) and Terms & Conditions (link to T&C). Compulsory field	

Lebanon Reforestation Registry

					Arabic
Home About the Regis	stry Salma project	Lebanon NARP	Photo gallery	Links	How can I participate?
This registry presents	the reforestation experie	ences			
SALMA project in a		Register as user			A R. D.
nutshell	Username*: Name*:			and the second	CONTRACT OF
News and events	Last name*: Phone: e-mail address*:				
afforestation techniques. Beirut. 18-20 April 2016	Country: Organization			The Regis	stry in facts:
<u>- Pine grafting</u> demonstration. Niha, 5th May 2016	Password*: Confirm password*: Please type this code	*: d 5	g 7 r P	- <u>31 expe</u> - 1235 he - 84 mem	ctares bers active
<u>- Project SALMA</u> reaches 1000 ha reforested	(image with code to a I want to receive I accept the Priv	woid robot rep the Reforestation Re acy Policy and the Te	gistry Bulletin rms & conditions	- 23 NGO	<u>s</u>
- More news			Register		
*	WORLD I	BANK GROUP		Food a Organi United	nd Agriculture zation of the Nations
Disclaimer, copyrig	ht, webmaster contact				

10. Add new reforestation

No	Key Features	Confirmation
1	Only registered users can access this menu	
2	Access to new experience form \rightarrow link to a new tab where the user can add a reforestation experience	
3	Features of the form: please see the content and instructions below:	
	- Green box: editable / clickable. A maximum number of characters must be indicated	
	- Red text: instructions for the web programmer (not to be shown at the final display of the web)	

			in red the missing fields							
*: compulsory field; if not t	filled, the page will not allo	ow continuing and will mark								
						1				
Experience code	(Automatically get	nerated with the names of muni	icipality, promoter, year of e	stablishment, number. Ex: Aina	ta_SALMA_2015_1)]				
	Location									
Governorate*	Governorate	(closed entry r	nenu; it is possible to choos	e 2+ governorates)						
District [®] District ▼ (closed entry menu; it is possible to choose 2+ districts)										
Municipality*	Municipality	(closed entry r	nenu; it is possible to choos	e 2+ municipalities)						
Name of site		(if there is any	common name utilized by th	e locals)						
			1							
Plantation date	Geog	raphical coordinates								
Month*	Latitude*									
Year*	Longitude*									
Upload pictures	Please inclu	de pictures of the site befo	ore, during and after the	reforestation. Utilize pictu	res between 1 Mb and 4 Ml	o. Maxi mum load per expe	rience: 25 Mb			
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Thermod	lediterranea	an	Pre	steppic / otl	ners										
Eurodita	manaan		Practannic M	ua Eigii Iaditarranaan											
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fonthly / An	nual climatic	data													
verage	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DEC	YEAR*		
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() n		Soil f	eatures												
Aajor sou				pH											
aubstrate			0 Sand	Soli depth	N. Chur										
Inscription			76 Sanu	70 SIR	76 Cary										
tassincation		Granmania	a la classi anna di san	high complete	-h)										
Other soil f	features: gyps	um, active		, nign, very nij	çii)										
Other soil	features: gyps le range* (me	um, active eters over sea	1 level)	Min	Average*	Max]								
Other soil Altitud	features: gyps le range* (me Slope steepne	um, active eters over sea	a level)	Min Min	Average*	Max Max	ew	w	NUV	1					
Other soil Altitud S Prevailing	features: gyps le range* (me Slope steepne ; aspect/s	um, active eters over sea ess range* (% N	a level)) NE	Min Min E	Average* Average SE	Max Max S	SW	W	NW]					
Other soil : Altitud S Prevailing	features: gyps le range* (me Slope steepne ; aspect/s	um, active eters over sea ss range* (%	a level)) NE	Min Min E	Average* Average* SE	Max Max S	SW	W	NW]					
Other soil 1 Altitud S Prevailing	features: gyps le range* (me Slope steepne aspect/s	um, active eters over see ess range* (% N Prevailing	a level)) NE physiographic	Min Min E position/s*	Average* Average* SE	Max Max S	SW it should be	W possible to a	NW hoose one or	more physic	graphic posit	ions based o	on a scheme li	te one of those sh	own , or sin
Other soil	features: gyps le range (me Skpc steepne aspect/s	um active	n kvel) NE physiographic set unit of ware set units	Min Min E position/s*	Average " Average" SE	Max Max S	SW It should be	W possible to (NW choose one or text box: pla	more physica teau, crest, u week week u week b u week b	graphic posit	ions based c iid slope, lo	on a scheme li wer slope and	te one of those sh valley bottom	own , or sin
Other soll Altitud S Prevailing	features: gyps le range " (mc Skpe steepne aspect/s	um active eters over see ss range * (% N Prevailing	NE physiographic supervised of the second se	Min Min E position/s*	Average * Average * SE	Max Max S	SW It should be	W possible to v a a a a a a a a a a a a a	NW choose one or text box: pla	more physic teau, crest, u revert distance of the second revert di	graphic posit	ions based d nid slope, lo	on a scheme li wer slope and	te one of those sh valley bottom	own , or sin
Other soll	features: gyps le range" (mc Skpe steepne aspect/s	um active eters over see ss range * (% N Prevailing	A level) NE physiographic a function by the new physiographic a function by the new physiographic a function by the new physiographic a function fu	Min Min E position/s*	Average * SE	Max Max S	SW it should be	W possible to a a possible to a a a a a b a a a a a a a a a a a a a	NW choose one or text box: pla	more physic teau, crest, u newed	graphic posit	ions based d iid slope, loʻ	m a scheme li wer slope and	te one of those sh valley bottom	own , or sin
Other soil Altitud S Prevailing black down black	features: gyps le range* (me skpe steepne aspect/s	um active eters over see ss range * (% N Prevailing we mame	NE physiographic Main pr Sp	Min Min E position/s*	Average * Average * SE SE	Max Max S	SW It should be	W P possible to (a b b c c c c c c c c c c c c c	NW choose one or text box: pla	rmore physic teau, crest, u	graphic posit	ions based o	on a scheme li wer slope and	e one of those sh valley bottom	own , or sin

Plantation spacing e.g. 3x3; 6x3	Plantation density*	Total nu	mber of trees	planted*	(Plantation density is filled at Total number of trees is calcu	itomatically when typing spaci lated based on area and densit	ng; it can be entered manually y. The user can correct the va	otherwise) lue if needed
Х	trees/ha			trees]			
				Tree species				
Common name* (filled automatically when choosing latin name)	Latin name* (filled automatically when common name)	choosing	Number of trees	% of trees	Provenance	Format	Size (height in cm)	Age at planting tir
 (list with 40-50 most common species; it should be possible to add further species) 	 (list with 40-50 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
 (list with 40-50 most common species; it should be possible to add further species) 	 (list with 40-50 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
 (list with 40-50 most common species; it should be possible to add further species) 	 (list with 40-50 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
 (list with 40-50 most common species; it should be possible to add further species) 	 (list with 40-50 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
	+Add species			(% of trees is	filled automatically when enter	ing the number of trees; the us	er can correct the value if need	led)
				Shrub specie	s			
Common name* (filled automatically when choosing latin name)	Latin name* (filled automatically when common name)	choosing	Number of shrubs	% of shrubs	Provenance	Format	Size (height in cm)	Age at planting tir
 (list with 20-30 most common species; it should be possible to add further species) 	 (list with 20-30 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
 (list with 20-30 most common species; it should be possible to add further species) 	 (list with 20-30 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
 (list with 20-30 most common species; it should be possible to add further species) 	 (list with 20-30 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		
 (list with 20-30 most common species; it should be possible to add further species) 	 (list with 20-30 most common species; it shou to add further species) 	ld be possible				 (bare root; containerized, seed) 		

			Manas	ement of pro	e-existent ves	retation									
Bur	ming	Mechanic	al weeding	Chemica	l weeding	Other (plea	se indicate)	No trea	atment						
1						1	3	E	1						
					Soil pre	paration*									
Tem	acing	Linear st	1b-soiling	Crossed s	ub-soiling	Ridge p	loughing	Oth	her	No tre	atment				
1						1	3	E]		2				
widtl	h in m	depti	i in cm	depth	i in cm	ridge	e size	india	cate	1					
						Pit	opening*	(please ind	icate pit size in	cm)					
Ba	ackhoe excava	ator		Manual		Tn	actor operated o	lrill	Н	and operated d	rill	Oth	er (please indic	ate)	
Depth	Width	Width	Depth	Width	Width	Depth	Width	Width	Depth	Width	Width	Technique	Depth	Width	Width
							Technic	ques against d	rought*						
Irri	gation by drip	pers	Irrigatio	on by reservo	ir+hose	Irrigat	ion by tanker	+ hose	S	Soil conditione	rs	Other (please desc	ribe)	No tre	atment
itres / tree			Litres / tree			Litres / tree			Туре						
ïmes / year			Times / year			Times / year			Dose/tree						
of years			# of years			# of years									
							Techni	ques against v	veeds*						
Me	echanical wee	ding	N	lanual weedi	ng	C	hemical weed	ing		Mulching		Other (please desc	nbe)	No tre	atment
equipment			Equipment			Equipment,			Туре						
Times / year			Times / year			Times / year			Size (cm2)						
i of years			# of years			# of years									
					Tech	nicues actainst	browsing day	mane*					1		
Р	Perimetral fem	ce	In	dividual shelt	ers	Legal prohit	oition / guardir	ng (describe)	Othe	r (please des	ribe)	No treatment			
Гуре			Туре												

D	ate		Variables	measured		_	
Year	Month	Survival	Diameter	Height	Add variables (edit)	Add variable	this field adds a new column
dd measurement						this field adds a new line	2
						-	
esults for species 1						species 1> automati	cally created when indicating
Year	Month	Survival	Diameter	Height	Further variables		species
						Additional variables: a	automatically created when inc
							more variables
dd measurement							
						_	
esults for species 2						species 2> automati	cally created when indicating
Year	Month	Survival	Diameter	Height	Further variables		species
						Additional variables: a	automatically created when in
							more variables
dd measurement						-	
			-				
						_	
esults for species n						species n> automati	cally filled with the descriptio
Year	Month	Survival	Diameter	Height	Further variables		plantation
						The program opens as m	any tables as the species used
dd measurement						•	
esults of research activit	ies performed						
Treatment	Year	Month	Survival	Diameter	Height	Further variables	

11. Edit reforestation

No	Key Features	Confirmation
1	Only registered users can access this menu	
2	When a user has registered 2 or more experiences, he/she will be able to choose the one he wants to be edited	
3	The last saved version of the Form is shown. Data can be edited, always respecting the rules (compulsory fields) indicated in the form	



			Data will be pre-filled	I with the information into	roduced when adding the re	eforestation		
Form "Edit experie	ence" (scroll-down	<u>menu)</u>	Green boxes: editable /	clickable fields				
1. General features								
*: compulsory field; if not	filled, the page will not all	ow continuing and will ma	rk in red the missing fields					
Experience code	(Automatically ge	enerated with the names of m	unicipality, promoter, year of	establishment, number. Ex: Ain	ata_SALMA_2015_1)]		
	Location							
Governorate*	Governorate	▼ (closed entr	y menu; it is possible to choo	se 2+ governorates)				
District*	District V	(closed en	try menu; it is possible to cho	ose 2+ districts)				
Municipality*	Municipality	▼ (closed entr	y menu; it is possible to choo	se 2+ municipalities)				
Name of site		(if there is a	ny common name utilized by t	he locals)				
	, <u> </u>		_					
Plantation date	Geog	graphical coordinates						
Month*	Latitude*		_					
Year*	Longitude*							
Unload nicture		ido picturos of the site h	oforo during and offer the	referentation Utilize nict	urac batwaan 1 Mb and 4 Mk	Maximum load nor over	orionco: 25 Mb	
Prouse	Free aschul	nictures the same manual	erore, during and arter the	n nictures" will be shown		. Waxi mum toau per exp	enerice. 25 wib	
D10w3C	rioineach	picture, the same menu a	is in Send us reforestatio	in pictures will be shown				
Upload perimeter s	hape * The perime	ter of the plantation sho	uld be delimited in a GIS (*.shp), which will be later	on represented in the map a	t the webpage HOME but	ton	
Browse	In the case	of the reforestations do	ne during SAI MA project	following the methodolog	v established at the PRPM. t	he Participatory Map will	be uploaded	
			in GIS format. with the	different reforestation blo	ocks and polygons identified			
		Preva	alent aim/s of the experience	e* please mark the main a	aim/s of the reforestation			
	Production			Protection		So	ocial	Т
Timber, fuelwood	Pinus pinea nuts	Forest fruit (species?)	Soil erosion	Infrastructure	Desertification prevention	Landscape /recreation	Employment generation	
Land owner*	Municipality	Group of municipalities	State	Person	NGO	Other (please indicate)		
	(type name)	(type name)	(type name)	(type name)	(type name)	(type name)		
				-				
	Name	(Contact information					
Promoter/s*				Organization, project, fund	l, person, NGO, etc that financed	the experience		
Contractor/s*				NGO/s, company/s with te	chnical responsibilities on the im	plementation)		
Collaboration				(NGOs, school/s, municipa	lity villagers, etc participating in	implementation)		

2 Site des	cription														
<u>z. Bite des</u>			_												
Area*		ha	J												
		Bioclima	itic area *			Please chec	k the classific	ation of biocl	mates here:	http://scrvpt	ech.github.io	/Iri-mapping	/vegetation/		
I	Mediterranea	an	Pr	esteppic / otl	ne rs						-				
Thermome	editerranean		Hamm	ada Eigii											
Eumedi	terranean		Presteppic N	Mediterranean											
Suprame	diterranean		Pres	teppic											
Montane M	lediterranean		Presteppi	ic Montane											
Oromed	iterranean		Presteppic Or	Blassa	indicate.	-									
			other	Flease	marcate										
Monthly / A	nnual climatic	data]	
Average climate data	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DEC	YEAR*		
Precipitation (mm)															
Avg min															
Avg															
(°C)															
temperature															
്ര)														1	
Meteorol	ogical station of	f reference:				Yea	ars of observati	ons:		1					
			•							-					
	-	Soil fé	eatures		-										
Major soil				pH											
Substrate			04 Sand	Soil depth	N/ Class	-									
Classification			% Sand	% Sift	% Clay										
Stoniness		(inapprecial)	le low mediur	n high very hig	(h)	-									
Other so	il features: gyps	um, active		, , , , , , ,											
							_								
Altitu	ide range* (m	eters over sea	level)	Min	Average*	Max									
	Slope steepne	ss range* (%)	Min	Average*	Max				1					
Prevailin	ig aspect/s	N	NE	E	SE	s	SW	w	NW						
· · · · · · · · · · · · · · · · · · ·										1					
		Prevailing	physiographic	c position/s*			it should be	possible to c	hoose one or	more physio	graphic positi	ions based o	n a scheme lil	ke one of those sh	nown , or simply wit
						anstan	2			u	pper slope, n	nid slope, lov	wer slope and	valley bottom	
	Haut de Tête de vallon	versant Bas de versa	Crète large	-		The TREE	333		10	Contract and the second					
		Terrasses de culture Vallée				A ROCK	n			4					
Saillant de j	versant		100		the second	38 58 MIL	Prome		-	Contraction of the second					
Replat	- CAR				35	2	A CONTRACT		X3 >>>	- HALFER					
T	1 Jan J						Se alto	and pertu the	12						
	91 MD	5	F /	1			Carto 2 Cost			Eau					
	THE	1			ting ope	obe	and a set	- I I I I I I I I I I I I I I I I I I I	stope ope	a -					
	4		Rentrant de vers (combe)	ant	and a solution of the solution	spin	Colline Souther	illuviti Olain	apped links	or pla					
	Terrasses alluviales														
			Main p	pre-existent ve	getation										
Spe	cies common i	name	SI	oecies Latin na	ime	A	verage cover	(%)							

Plantation spacing													
e.g. 3x3; 6x3	P	lantation densi	ty*	Total nu	mber of trees	planted*	(Plantation der Total number o	tion density is filled automatically when typing spacing; it can be entered manually other umber of trees is calculated based on area and density. The user can correct the value if r				otherwise) due if needed	
x			trees/ha			trees				-			
						T							
Common name* (filled automatically when choosing latin name)	Latin nam	e* (filled auto:	matically whe	n choosing	Number of trees	% of trees	Prove	nance	Format	Size (h	eight in cm)	Age at pl	inting time
 (list with 40-50 most common species; it should be possible to add further species) 	▼ (list with <	40-50 most comm to add furt	ion species; it sho her species)	ould be possible					 (bare root; contain seed) 	nerized,			
 (list with 40-50 most common species; it should be possible to add further species) 	▼ (list with 4	40-50 most comm to add furtl	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
 (list with 40-50 most common species; it should be possible to add further species) 	▼ (list with 4	40-50 most comm to add furt)	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
 (list with 40-50 most common species; it should be possible to add further species) 	▼ (list with 4	40-50 most comm to add furt	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
	+Add specie	s				(% of trees is f	filled automatic:	ally when enteri	ng the number of trees	; the user can correct	the value if need	ded)	
						Shrub species	S						
Common name* (filled automatically when choosing latin name)	Latin nam	e* (filled autor commo	matically whe n name)	n choosing	Number of shrubs	% of shrubs	Prove	nance	Format	Size (h	eight in cm)	Age at pl	inting time
 (list with 20-30 most common species; it should be possible to add further species) 	▼ (list with 2	20-30 most comm to add furt!	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
 (list with 20-30 most common species; it should be possible to add further species) 	▼ (list with 2	20-30 most comm to add furt	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
 (list with 20-30 most common species; it should be possible to add further species) 	▼ (list with ?	20-30 most comm to add furtl	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
 (list with 20-30 most common species; it should be possible to add further species) 	▼ (list with 2	20-30 most comm to add furt	ion species; it sh her species)	ould be possible					 (bare root; contain seed) 	erized,			
	+Add specie	s				(% of shrubs is	s filled automat	ically when ent	ering the number of tre	es; the user can corre	ct the value if ne	eded)	
Burning Mechani	Mana cal weeding	agement of pre Chemical	-existent veg	etation Other (plea	se indicate)	No tre	atment				4		
		<u> </u>	3	t.	2	1	3	l					
			Soil prep	oaration*									
Terracing Linear s	ub-soiling	Crossed s	ub-soiling	Ridge pl	oughing								
width in m dep	h in cm	depth	-		oughing	Ot	her	No tre	atment				
			in cm	ridge	size	Oti t indi	her ⊐ cate	No trea	atment				
			in cm	ridge	a size	Oti indi	her D cate	No tres	atment				
Backhoe excavator	1	Manual	in cm		opening*	Ott indi (please ind drill	her cate licate pit size in H	No tres	atment	0	her (please indic	ate)	
Backhoe excavator Depth Width Width	Depth	Manual Width	width	Pit - Tra Depth	opening* actor operated of Width	Oti indi (please ind drill Width	her cate licate pit size in H Depth	No tree cm) and operated dr Width	ill Width	O	her (please indic Depth	ate) Width	Width
Backhoe excavator Depth Width Width	Depth	Manual Width	Width	Pit Tridge Tri Depth	opening* actor operated of Width	(please ind drill Width	her cate licate pit size in H Depth	cm) and operated dr	ill Width	O Technique	her (please indic Depth	ate) Width	Width
Backhoe excavator Depth Width Width	Depth	Manual Width	Width	Pit Tri Depth	opening* ector operated of Width	(please ind drill Width	her Cate licate pit size in H Depth	No tree cm) and operated d Width	atment 1 Width	O Technique	her (please indic Depth	ate) Width	Width
Backhoe excavator Depth Width Width Irrigation by drippers	Depth	Manual Width	Width	Pit Tri Depth Irrigat	opening* actor operated a Width Technia ion by tanker	ott indi (please inc drill Width ques against d + hose	her cate licate pit size in H Depth	No tree cm) and operated d Width	stment	O Technique Other (please de:	her (please indic Depth	ate) Width	Width
Backhoe excavator Depth Width Width Irrigation by drippers	Depth Irrigati Litres / tree	Manual Width ion by reservoi	Width	Pit rideo Pit Depth Litres / tree	opening* actor operated of Width Technic ion by tanker	ott tott (please inc drill Width cues against d + hose	her cate licate pit size in H Depth rought* S Type	No tree cm) and operated dr Width	stment	O Technique Other (please de	her (please indic Depth	ate) Width No tre	Width
Backhoe excavator Depth Width Width Irrigation by drippers itres / tree Thes / year	Depth Irrigati Litres / tree Times / year	Manual Width ion by reservoi	Width ir+hose	Pit ridge Depth Irrigat Litres / tree Times / year	opening* opening* width Width Technic ion by tanker	Otto (please inc drill Width Ques against d + hose	her Cate licate pit size in H Depth rought* S Type Dose/tree	mo tree	atment	O Technique Other (please des	her (please indic Depth scribe)	width	Width
Backhoe excavator Depth Width Width Irrigation by drippers itres / tree imes / year of years	Depth Irrigat Litres / tree Times / year # of years	Manual Width ion by reservoi	Width ir+hose	Pit rhlge Pit Tra Depth Irrigat Litres / tree Times / year # of years	opening* opening* actor operated Width Technik ion by tanker	ori ref (please inc drill Width Width Ques against d + hose	her icate pit size in H Depth rought* S Type Dose/tree	No tree cm) and operated d Width	atment a Width S	O Technique Other (please de	her (please indic Depth scribe)	ate) Width No tre	Width
Backhoe excavator Depth Width Width Irrigation by drippers Itree intes / tree of years	Depth Irrigat Litres / tree Times / year # of years	Manual Width	Width Width	Pit Pit Depth Irrigat Litres / tree Times / year # of years	opening* ctor operated Width Technik ion by tanker	ori c (please inc drill Width ques against d + hose	her licate pit size in H Depth rought* S Type Dose/tree weeds*	No tree cm) and operated di Width	stment	O Technique Other (please de	her (please indic Depth scribe)	ate) Width No tre	Width
Backhoe excavator Depth Width Width Irrigation by drippers dres / tree imes / year of years Mechanical weeding	Depth Irrigat Litres / tree Times / year # of years	Manual Width	width ir+hose	Pit rhiga Depth Irrigat Litres / tree Times / year # of years	opening opening width Width Technic ion by tanker Technic aemical weed	Oi (please inc drill Width + hose	her Cate licate pit size in Depth rought* Sype Dose/tree	No tree cm) and operated dr Width Goil conditioner	stment	O Technique Other (please des Other (please des	her (please indic Depth scribe)	ate) Width No tre	Width
Backhoe excavator Depth Width Width Irrigation by drippers itres / tree Times / year of years Mechanical weeding auipment	Depth Irrigat Litres / tree Times / year # of years Equipment	Manual Width ion by reservo	Width ir+hose	Pit. Pit. Tri Depth Irrigat Litres / tree Times / year # of years Equipment, product.	opening* opening* etor operated - Width Technic ion by tanker Technic remical weed	otil (please inc drill Width ues against d + hose	her crite licate pit size in H Depth rought* S Type Dose/tree veeds* Type	No tree com) and operated du Width coil conditioner	atment	O Technique Other (please des Other (please des	her (please indic Depth scribe)	No tre	Width atment
Backhoe excavator Depth Width Width Irrigation by drippers Irres / tree Times / year Of years Quipment Yauipment Times / year	Depth Litres / tree Times / year # of years Equipment Times / year	Manual Width ion by reservo	width width ir +hose	Pit. Pit. Pit. Depth Irrigat Litres / tree Times / year # of years Cl Equipment, product Times / year	opening* opening* width Technia ion by tanker Technia emical weed	Oth (please inc drill Width Ques against d + hose ques against x	her licate pit size in H Depth rought* S Type Dose/tree veeds* Type Size (cm2)	No tree cm) and operated dr Width coil conditioner	atment a Width S	O Technique Other (please des Other (please des	her (please indic Depth scribe)	No tre	Width
Backhoe excavator Depth Width Width Irrigation by drippers Irres / tree 'of year	Depth Irrigat Litres / tree Times / year # of years Equipment Times / year # of years	Manual Width ion by reservo	ir+hose	Pit Tripped Depth Depth Litres / tree Times / year # of years CCI Equipment, product Times / year # of years	opening* ictoroperated Width Technik ion by tanker Technik nemical weed	ori (please inc drill Width Width Ques against d + hose	her licate pit size in H Depth rought* S Type Dose/tree Veeds* Type Size (cm2)	No tree cm) and operated di Width Soil conditioner	stment with width s	O Technique Other (please de Other (please des	her (please indic Depth scribe)	No tre	Width
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12. Register municipality

No	Key Features	Confirmation
1	Only registered users can access this menu	
2	Name of municipality: compulsory field. Extendable menu with the whole list of municipalities	
3	Governorate: compulsory field. Filled automatically when choosing the municipality	
4	District: compulsory field. Filled automatically when choosing the municipality	
5	Contact person name: compulsory field. Limited to 15 characters	
6	Contact person e-mail: compulsory field. It must have the format <u>text@text.text.</u> Limited to 20 characters	
7	Town hall post address: compulsory field. Limited to 25 characters	
8	Town hall phone: compulsory field. Limited to 15 characters	
9	Web page: optional field. Limited to 15 characters	
10	Willing to reforest? \rightarrow selectable bullet of compulsory selection. If YES is chosen, the next field (approximate area) is open for edition. If NO is chosen, the next field (approximate area) is not editable	
11	Approximate area: filled as mentioned above	
12	Register: the municipality is registered into the system, subjected to validation by the webmaster, which might contact the town hall to confirm that the representative of the municipality is the authorized person	

	Lebanon Reforestation Registry	
Home Ab <mark>out the Reg</mark> This registry present	gistry Salma project Lebanon NARP Photo gallery ts the reforestation experiences	Arabic User name, last name Links How can I participate?
SALMA project in a	Register your Municipality	
nutshell	Name of Municipality*	Ser Star
News and events - Course on afforestation techniques, Beirut, 18-20 April 2016 - Pine grafting demonstration. Niha. 5th May 2016 - Project SALMA reaches 1000 ha reforested - More news	District* Contact person name* Contact person e-mail* Town hall post address* Town hall phone* Web page Willing to reforest?* Approximate area YES NO Register Register	The Registry in facts: - <u>31 experiences</u> - 1235 hectares - 84 members active - 42 Municipalities - 23 NGOS
Disclaimer, copyri	ight, webmaster contact	Food and Agriculture Organization of the United Nations

13. Register NGO

No	Key Features	Confirmation
1	Only registered users can access this menu	
2	Name of NGO (English): compulsory field. Limited to 15 characters	
3	Name of NGO (Arabic). Limited to 15 characters	
4	Contact person name: compulsory field. Limited to 15 characters	
5	Contact person e-mail: compulsory field; entered as <u>text@text.text.</u> Limited to 20 characters	
6	NGO Post address: compulsory field. Limited to 25 characters	
7	NGO phone. Limited to 10 characters	
8	NGO web page. Limited to 15 characters	
9	Experience and interest in reforestation: compulsory field, limited to 1000 characters)	
10	Register: the NGO is registered into the system, subjected to validation by the webmaster, which might contact the NGO to confirm that the appointed contact person is a valid representative	

	Lebanon Reforestation Registry
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SALMA project in a nutshell News and events	Register your NGO Name of NGO* (English): Name of NGO (Arabic): Contact person name*
-Course on afforestation. techniques, Beirut, 18-20 April 2016 -Pine grafting demonstration. Niha, 5th May 2016 -Project SALMA reaches 1000 ha reforested	Contact person e-mail* NGO post address* NGO Phone NGO Web page Experience and interest in reforestation* (max 1000 characters) State State State State NGO Web page State State
<u>- More news</u>	Register
Disclaimer, copyri	WORLD BANK GROUP PROFOR Food and Agriculture United Nations

14. Send us a picture

No	Key Features	Confirmation
1	Only registered users can access this menu	
2	Author: name of the author of the picture. Limited to 15 characters	
3	Location of picture: where it was taken. Limited to 15 characters	
4	Year: when it was taken.	
5	This picture depicts it is possible to choose one bullet (general image of a reforestation, species, plantation techniques). If choosing Species, the field "Indicate species here" must be edited. If choosing "Plantation techniques", the field "Indicate techniques here" must be edited	
6	Caption: a brief description of the picture, limited to 40 characters	
7	Bullet where the person must confirm that the picture does not raise intellectual property rights issues and accepts T&C (to be defined)	
8	Browse: menu to upload a picture, indicating maximum size	
9	Send: the picture integrates the database of pictures of the registry, upon approval by the webmaster of the picture relevance and adequate labelling (general reforestation, species, techniques). The best pictures are selected to be shown at the automatic slideshow provided at the webpage	

	Lebanon Reforestation Registry
Home About the Rep This registry presen	Arabic User name, last name istry Salma project Lebanon NARP Photo gallery Links How can I participate? Is the reforestation experiences
SALMA project in a nutshell	Send us a picture Author name Location of picture
News and events -Course on afforestation techniques. Beirut, 18-20 April 2016 -Pine grafting demonstration, Niha, Sth May 2016 -Project SALMA reaches 1000 ha reforested -More news	Year This picture depicts General reforestation Species Plantation techniques Indicate species here Indicate techniques here Caption (max 40 characters) The use of this picture does not raise intellectual property rights issues; l agree with the Terms & Send The use of this picture does not raise intellectual property rights issues; l agree with the Terms & Send
*	Image: World Bank group Image: Profer Food and Agriculture Organization of the United Nations