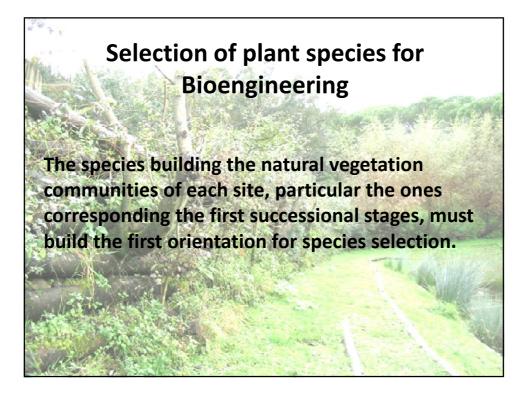




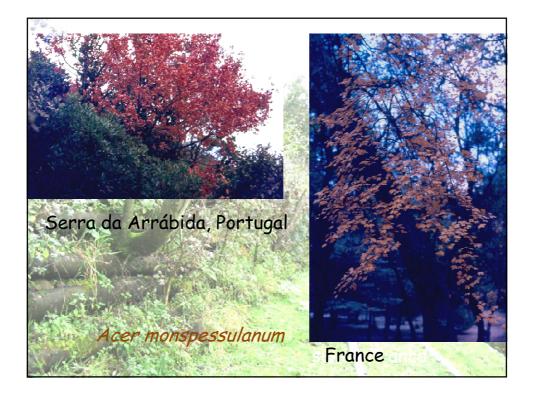
Other f	unctions of vegeta	tio	า									
Marine Marine		F.	A									
		Veget	ation c	haract	eristics							
EFECTS		Ground cover %	Height	Weight	Form and length of leaves and branches	Leave and branch density	Leave and branch strength	Leaf and branch flexibility	Root depth	Root density	Root resistance	Annual growth cycle
	Protection against intense rainfall	Х			Х	Х						
On the water processes	Protection against water erosion	х				х						
	Protection against surface runoff	х	х		х	х		х				Х
	Slowing and deviation of water flow	х					х	х				х
and balances	Retention of debris during flash floods	х										
	Infiltration	х				х			х	х		
	Evaporation	х				х						
	Soil water retention									х		>
	Suspension particles	х			Х							Х
	Flow deviation		х	х							х	х
On the air flow (wind)	Superficial drag	х	х		х		х					>
	Protection against noise	х	х	х	х							
	Protection against wind erosion	Х	Х		Х	Х	Х	Х				>
	Protection against rock fall	Х	х						х	х		
On soil protection	Involve the soil particles by roots								х	х		
on son protection	Soil anchoring and buttressing								х	х	х	
	Protection against wash out of soil particles								х	х		
	And a state of the	174	Carlo C	1-2-4	2 6 6	· ~ ~	155	C. The P	100	ATTA	. 4	24

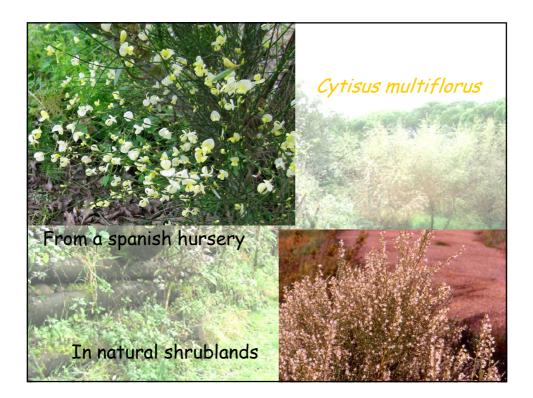
		Veget	ation c	haract	teristic	c						
		veget	ation t	aruti	ceristic.							
EFECTS		Ground cover %	Height	Weight	Form and length of leaves and	Leave and branch density	Leave and branch strength	Leaf and branch flexibility	Root depth	Root density	Root resistance	Annual growth
	Biochemical aggregation of soil								х	х		
	particles											
On soil proprieties	Increase of pore volume Improvement of microorganisms								х	Х	х	
	living conditions	х							х	Х		
	Humus formation	х				х				х		
	Evapotranspiration			Х	Х					Х		Х
On groundwater	Soil water content								х			х
	Internal drainage								Х	Х		
	Erosion	х	х		Х	Х						Х
On the characteristics of	Transport	х				Х						Х
the rock	Isolation	х				Х						Х
	Filter		х			Х	Х	Х				
	Own resistance	Х	Х			Х	Х			Х	Х	Х
	Surcharge			х						.,	.,	.,
	Surface mat / net									Х	Х	X
	Root reinforcement								X X	X X	X X	Х
	Anchoring / restraint									x	x	
Mechanical	Buttressing / arching								х		х	
	Root wedging		х			Х	х		Х	х		
	Expansive action due to root								х	х	х	
	thickness											
	Compression			Х						X	Х	
	Removal of eutrophic substances									Х		Х
On environmental quality	Dust filtration and deposition				Х	Х						Х
	Noise absorption	х	х		Х	Х						Х
	Milder microclimate	Х	х			Х						Х





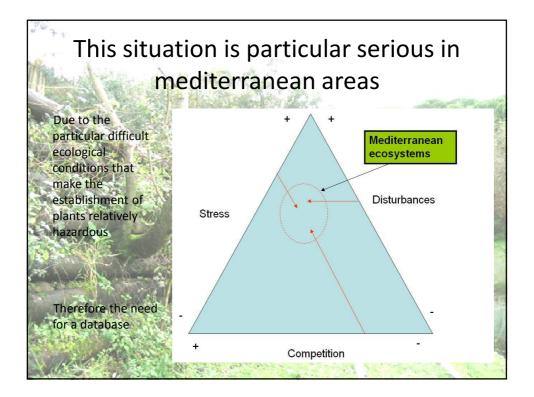


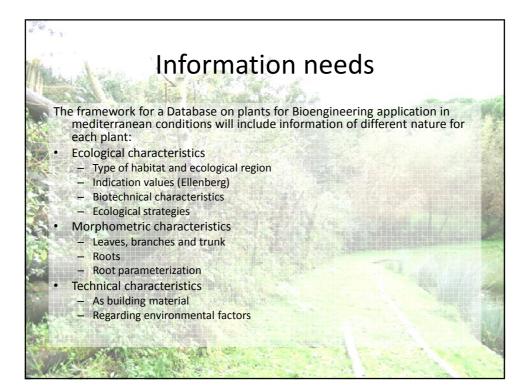






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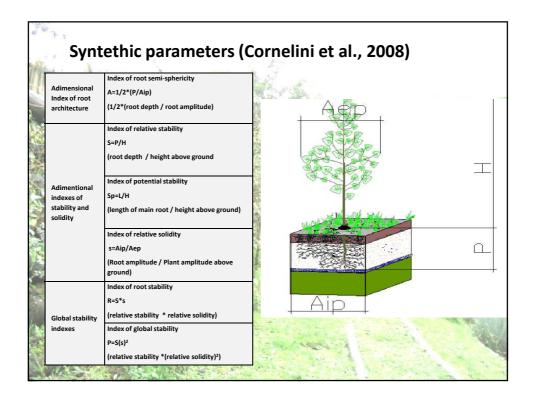




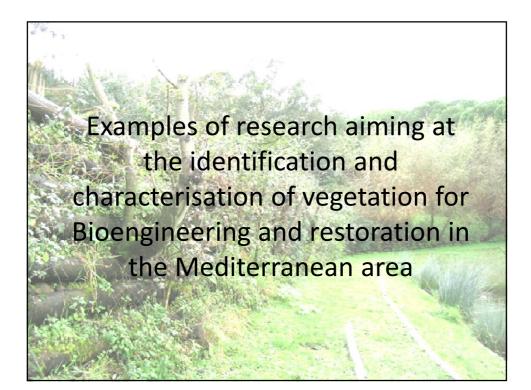
Habitat types (e.g. EUNIS,	Index numbers and names of all EUNIS Habitats 2004	
2004)		
2. C	A Marine habitats	
8	A1 Littoral rock and other hard substrata	
0	A2 Littoral sediment	
	A3 Infralittoral rock and other hard substrata	
8	A4 Circalittoral rock and other hard substrata A5 Sublittoral sediment	
	A5 Sublittoral sediment A6 Deep-sea bed	F9 Riverine and fen scrubs
2	A7 Pelagic water column	
	A8 Ice-associated marine habitats	
P	B Coastal habitats	G Woodland, forest and other wooded land
2	B Coastal flabitats B1 Coastal dunes and sandy shores	
	B1 Coastal dunes and sandy shores B2 Coastal shingle	
2	B2 Coastal shingle B3 Rock cliffs, ledges and shores, including the supralittoral	
8		
k	C Inland surface waters	CS Line of the second s
2	C1 Surface standing waters C2 Surface running waters	
-	C2 Surface running waters	
8	D Mires, bogs and fens	
5	D Mires, bogs and tens	
	D1 Raised and blanket bogs. D2 Vallev mires, poor fens and transition mires.	
9	D2 Valley mires, poor fens and transition mires D3 Aapa, palsa and polygon mires	
	D4 Base-rich fens and calcareous spring mires	
6	D5 Sedge and reedbeds, normally without free-standing water	H6 Recent volcanic features
10	D6 Inland saline and brackish marshes and reedbeds	I Pogulavly or recently cultivated agricultural
2	E Grasslands and lands dominated by forbs, mosses or	
		horticultural and domestic habitats
4	lichens	
0	E1 Dry grasslands	
	E2 Mesic grasslands E3 Seasonally wet and wet grasslands	
5	Ed. Alaine and subalaine generateds	J1 Buildings of cities, towns and villages.
2	E4 Alphie and subalphie grassiands	J2 Low density buildings J3 Extractive industrial sites
é	E6 Inland salt steppes	J3 Extractive industrial sites
2	E7 Sparsely wooded grasslands	J4 Transport networks and other constructed hard-surfaced areas
	F Heathland scrub and tundra	J5 Highly artificial man-made waters and associated structures
	F1 Tundra	J6 Waste deposits
	F2 Arctic, alpine and subalpine scrub	
	F3 Temperate and mediterranean-montane scrub.	
	F4 Temperate shrub heathland	
	F5 Maquis, arborescent matorral and thermo-Mediterranean brushes	
	F6 Garrigue	
	F7 Spiny Mediterranean heaths (phrygana, hedgehog-heaths and related coastal	
	cliff vegetation)	
	F8 Thermo-Atlantic xerophytic scrub	
3		

- + · ·		Características ecológicas	
10 100	Bioindication values	Light (L)	
	(Ellenberg, 1974, 1979, 1992;	Temperature (T)	
1.60	Pignatti, S., 2005)	Continentality (C)	
(Paline -		Moisture or water availability(H)	
1 Balling		Soil reaction(R)	
A PROMISERYA		Nutrients (N)	
ALC: N		Salinity (S)	and the second s
	Biotechnical characteristics	Growth (years)	North American
	(Schiechtl, 1980)	Root growth(cm)	Sec. al
State -		New sprouts(cm)	人口研究 差
10000		Height/diameter	
A STATE OF A STATE		Size	1. 1.
		Growth rate	
A PA		Type of vegetative propagation	· · · · · · · · · · · · · · · · · · ·
and the second		Soil type	
and the second		рн	A A A A A A A A A A A A A A A A A A A
		Salt	A PARA
100 -15		Nutrients	The second second
		Moist	a la constante de la constante
		Excess water	ALC CONTRACT
		Drought	F - /
		Temperature	S.C.S.S.
the second		Shadow	ALCONTRACTOR
Ser and		Tolerance to altitude	The state of the
		Fodder value	
245 1		Seeds/gr	a think of the
2 -1 -1		Seed rate(Kg/ha)	SUN TRUE
and the second second		Distribution	WI I SHE
the second second		CSR classification (C- Competitive, S – Stress tolerant, R - Ruderals)	NA ALL PROPERTY
The second	regenerative stage	Vegetative expansion (V)	
1. 1.	(Grime, 2002)	Seasonal regeneration in vegetation gaps (S)	A AND
		Regeneration involving a persistent bank of seeds or spores (B <sub>s</sub> )	State of the second second
MEL AHS		Regeneration involving numerous wind-dispersed seeds or spores (W)	
and the second second		Regeneration involving a bank of persistent seedlings (B <sub>sd</sub> )	
S shie			

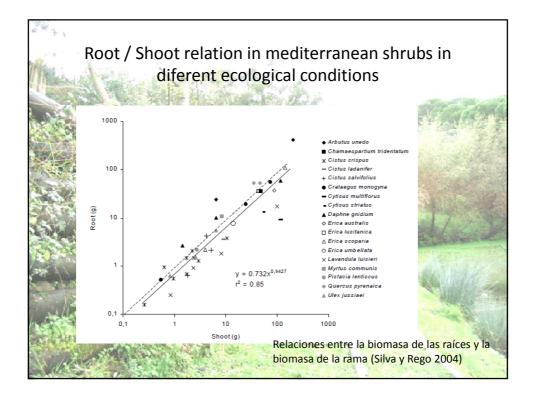
18 SE			
= 7 1		Características Morfométricas	
10 No.	Above ground	Presumable age (years)	
10000	(Cornelini et al., 2008)	Height above ground	
1.57.		Diameter at 20 cm height (mm)	
11944		Maximal canopy diameter (cm)	
1 I Marchel / A	Root system	Root depth (cm)	
A DENSE WAS	(Cornelini et al., 2008)	Root amplitude (diameter of the entire root system) (cm)	
		Length of secondary roots(cm)	A STATE OF THE OWNER OF THE OWNER OF
3		Thickness of main root(mm)	le transmission
0.0		Average root thickness (mm)	F AND ST
CAR CAN		Secondary root thickness (mm)	
		Dimensions of the rooted space(cm)	and the second second
		Type of root:	
A DALE LA		Pivoting	The set of the set
all a start of the		Fasciculate	
and the second		Superficial	and the second second
A CONTRACTOR OF		Aerial	
THE REAL PROPERTY.		Volume of rooted soil	
	Root system	Rooted area relation RAR(z)	A CONTRACTOR
Jan My	Parametrización dos		1 1 and the second
	sistemas radiculares para	$RAR(z) = \frac{\sum_{1}^{n} \frac{du}{dt}}{Ars(z)}$	A Lake Bar
and the second second	el análisis da estabilidad	Ar(z) <sub>i</sub> = Area of the i-esime seccionated root at depth z	the second second second
A THE S	de encostas con	Ars(z)= Area of rooted soil at depth z	
E ETOT	vegetación	z= depth	A Select Manager
355 5 6	(Preti, 2008 in Cornelini,	m= nº of roots at depth z	State in the late
$( ) \land ( )$	2008)	Root cohesion Cv(z)	North Parties
and the second			
		$Cv(z) = E\sum_{i}^{m} Tr j Ar(z) Ars(z)$	Manual States of States of a We
		K normaly1,2	
1. File last		Tr <sub>j</sub> = traction resistance of the j-esime class of root diameter (MPa)	AND
2.50 4 6 102		Ar(z) = sum of all cross areas of roots of the j-esime class of root diameter	
and differ		N= nº of diameter classes at depth z	
ALC: ALC: ALC: A			
1 1 1 1 V	· Tex - Landson		No. The second second
and down	1. 1. Sec. 1.	A REAL PROPERTY AND A REAL	The term
and all the second	A BOARD		and the second second



	Technical characteristics
Technical proprieties of	Vegetative development after a standard period of growth after plantation
vegetation (Sutilli2007)	Average number of spouts / plant
	Average sprout length
	Sum of all sprouts length
	Average number of roots per plant
	Sum of the length of all plant roots
	Medium root length
	Flexibility (according to the diameter)
	Resistance to traction (MPa)
Other technical	Degree of ground cover
parameters	Adaptation to particular substrates:
Ayala Carcedo et al.,	Тохіс
1989	Metals
	Alkalinity or acidy
	Salt
	Drought
	Lack of nutrients
	Water stress (excess)
	Adverse structures
	Ability to fix N



Species more adequated to stabilisation and consolidation	Species more adequated to anti-erosion interventions
Anagyris foetida	Artemisia arborescens
Artemisia variabilis	Daphne gnidium
Asparagus acutifolius	Erica multiflora
Asparagus albus	Olea europaea L. var. sylv
Atriplex haliminus	Osyris alba
Calicotome spinosa	Phlomis fruticosa
Capparis spinosa	Pistacia lentiscus
Cistus monspeliensis	Prunus spinosa
Cistus salvifolius	Prunus webby
Colutea arborescens	Pyrus amygdaliformis
Crataegus monogyna	Quercus calliprinos
Ephedra fragilis	Rhus coriaria
Euphorbia characias	Rosa canina
Euphorbia dendroides	Rosmarinus officinalis
Euphorbia rigida	Sarcopoterium spinosum
Rosa sempervirens	Teucrium fruticans
Salsola verticillata	Ulmus minor
Spartium junceum	and the second se
Tamarix gallica	The second s
Thymus capitatus	



ESPECIE	NW mN	NW mS	NW oN		Nel	Ne u	тQ	TF	CW a	CW b	CW ca	CW c	Cw o	CN	CSa	CS m	CSp	CEc	CE mN	CE mS	SW m	SW me	SW s	SE m	SEs	Bar roc	Bar Iv	Sot v
uniperus turbinata										Е	Е	Е	Е		Е	Е	E				Е	Е	Е		Е	Е	Е	Е
alix fragilis L.	SE	SE	SE	SE	SE	SE	SE	SE		SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
alix alba L. subsp. alba										E	E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
alix vitellina (L.) Ircangeli										SE	SE	SE	SE		SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
alix triandra L. subsp. liscolor	E	E	E	E	E	Е																						
alix atrocinerea Brot.	E	Е	Е	Ε	Е	Е	Е	Е		Е	Е	Е	Е	Е	Е	Ε	Ε	Е	Е	Ε	Е	Е	Е	Е	Е	Е	Е	Ε
alix salvifolia Brot. subp. alvifolia	E	E	E	E	E	E	E	E						E	E	E	E	E	E	E								
alix salvifolia Brot. subp. Justralis																						E	E	E	E			
alix repens L.			Е																									
alix arenaria L.										-		F	ranco									100	8		en			
uglans regia L.	SE	SE	SE	SE	SE	SE	SE	SE		-			B	arroca	nto alg I algar							(1 8 A	No.	12	A.	9m		
etula celtiberica Rothm. & Vasc.			E	E									c	Emor	pina Itanho Itanho							ł	The start	Ala				
llnus glutinosa (L.) Gaertner	E	E	E	E	E	E	E	E						S arrá	bico cénico								and and a	111	har			
orylus avellana L.	Е	Е												S plist W are	ocenic	0						1 pr	×.	1	43			
astanea sativa Miller	SE	SE	SE	SE	SE	SE	SE	SE		Γ			C		lenger	ise						2	1ª	Sa	24			
Quercus coccifera L.										[			C	W cin	rense	8						1	- E	ș.	3			
Quercus rotundifolia Lam.					Е	Е	Е	Е					N	E leon						0	1	1	2	ne	1			
Quercus suber L.	Е	Е	Е	Е	Е	Е	Е	Е		Γ		1			basicontanho						1 8	the		2	2			
Quercus robur L.	Е	Е								Γ			N	Wmo	ntanho dental	oso S					Y	The	S.		3			
Quercus pyrenaica Willd.	Е	Е	Е	Е	Е	Е		Е		Γ			N	W oci	dental	S				2	- the	1.			5			
Quercus faginea Lam.	1 CT	4		N.S.	E	E	E	E	1				S S S	Esete otaver Wme	idional ntriona ito alg ridiona ntanho	al ar∨io I					P	Z	7		>			

in Portugal													17															
		122	di l	<u>.</u>	1	4			1.00	93	19	£	01	НАГ	BITAT													
ESPECIE	LIT	CON	CUL	HID	HIG	MES	XER	RIP	RUP	ОМВ	RUD	DUN	SAP				MON	PIN	FLO	SEB	CAS	ARE	CAL	UBS	PAN	HAL	SHA	AGR
luniperus turbinata	х	х					х					х			х	х						х						
Salix fragilis L.		х		х				х											х									
Salix alba L. subsp. alba		х		x				х											x									
Salix vitellina (L.) Arcangeli		х		x				х											х									
Salix triandra L. subsp. discolor		x		x				x							х	х			~									
Salix atrocinerea Brot.		x		x				x							x	x												
Salix salvifolia Brot. subp. Salvifolia		х		x				х							х	х												
Salix salvifolia Brot. subp. Australis		х		x				х							х	х												
Salix repens L.		х	х	х				х							х										х			
Salix arenaria L.	х			х				х				х			х							х			х			
luglans regia L.		х		х		х		х											х									х
Betula celtiberica Rothm. & Vasc.		x	x	x	x	x		х											x									
Alnus glutinosa (L.) Gaertner		x		x				x											x									
Corvlus avellana L.		X			х	х		^							х	х			~									
Castanea sativa Miller		x			x	x									~	~			х									
Quercus coccifera L.	х	X				x	х					х			х	х				х			х					
Quercus rotundifolia	L.	<u> </u>	1	1	-	<u> </u>	<u> </u>	-	-		1	+ ^ ·	-		<u> </u>	<u> </u>		-	-	<u> </u>	-	-	<u> </u>		+	1		-

