			1			—
NTIS list of 'Strateg	gic Priorities'		(Ja	nuary 2023)		
						찌
						Forest Research
						orest
						rc
Objectives						1 -
5						
1 Make improved see	<mark>ed available from a w</mark>	ide number	of conifer	and broad	leaved species	
	nce existing conifer and broadleaf t					
	ding programmes for additional co				re appropriate	-
	mproved planting stock (seed orch	,	lemand across th	le species		•
	seed origins and sources for new					
Purpose: Advance E	XISTING breeding pro	ogrammes a	ind develo	p NEW one	s for emerging species	
2 Brooding for resilie	ence and anticipated	climato cha	nao			
			nge			
	sistance breeding programmes for					-
	rammes for disease resisitance, d					-
	l and advise on the impacts of clim					
Purpose: Develop Ni	W breeding program	nmes in resp	oonse to C	LIMATE CH	IANGE and new threats.	
2 Dromoto the planti	ng of wall adapted a	adimproved	l plonting a	took		
· · · · · · · · · · · · · · · · · · ·	ng of well adapted ar	•	•			
	d carbon sequestration justification		· · ·	-		
	Realised GainTrials' to demonstrat		ed stock in the fie	eld		
	of improved timber as being fit for p					
	d Models' for improved planting sto					
· · · · · · · · · · · · · · · · · · ·	al advice for improved stock as ap	propriate				
	e improved seed for planting					<u> </u>
	l impacts of tree breeding and imp					
Purpose: Provide the	economic and clima	ate mitigatin	g rationale	for PLAN1	TING IMPROVED STOCK	
4 Investigate new tra				breeding	programmes	
•	cally viable tissue culture technique		•			
-	nnologies for QA and traceabilty pu			traditional and no	vel economic traits	
4.3 Advancement of fl	owering age and seed production	efficacy in seed or	chards			
4.4 Improvement of se	eed storage, germination and testi	ng				
4.5 Breeding program	mes for biomass, biofuel, cellulose	e, pulp, chemical co	mponents and h	erbivore pressure	(e.g squirrels)	
4.6 Develop remote m	neasuring of trees in field trials e.g.	. drones, LIDAR and	d other technolog	ies.		
Purpose: ACCELERA	ATE the process and	efficiency of	f TREE BR	EEDING for	r a variety of novel and tradition	onal tra
				•		
5 Maintain good ada	ptation of planting st	ock and ger	netic divers	sity		
5.1 Develop methodo	logy to measure and monitor gene	etic diversity of plant	ting stock			
5.2 All breeding plans	to include measures to retain gen	etic diversity for the	future			
5.3 Active members o	f UK Forest Genetic Resources (U	JKFGR)				
5.4 Understand the us	se to society of non-commercial sp	ecies in a non-woo	dland setting			
Purpose: Ensure GE	NETIC DIVERSITY is	retained for	the benefi	t of ecosvs	tems and as a future breeding	a resou
6 Good interactive in	nfrastructure for all sp	pecies subje	ect to a bre	eding prog	jramme	
6.1 Web-based GIS-s	tructured databases of all material	l selected, field trials	s, clone banks ar	d seed orchards.		
6.2 Retain old experin	nents which may have a new, futur	re value e.g new bre	eeding characteri	stics, changing cli	imate	
Purpose: Ensure tha	t RESEARCH is fully	documented	d and WID	ELY AVAIL	ABLE	
7 Review governanc	e of tree breeding pro	ogrammes				
7.1 Encourage partne	rs to share IP as much as possible	e for the benefit of tr	ree breeding pror	notion		
-	nt and industry to ensure funding is		-			
Purpose: Ensure that	BREEDING PROGRAMM	IES remain Fl	JNDED, rele	vant, and co	st effective.	
8 Good communicat	ion of the bonofite of	troo broodi	na to publi	c dovorpr	ont and stakeholders	
			ig to publi	c, governii	nent and stakeholders	
	ated and appropriate use of social					
	preeding literature and links to find					
	nal and internationa professional c	-	s and land-based	government dep	artments	
	uitable use of planting stock accord	-				
	t and sector on the benefits of plar					
Purpose: Provide RA	TIONAL for the work	of NTIS, the	e benefits o	of IMPROVI	ED planting stock and mainte	nance c
Key ∎ Indicate	es a particular involvement in t	this activity				
All Stee	ering Group members retain so	ome interest acro	oss all activities			

			Organ	isation	s Involve	ed			
Conifer Co-op	Future Trees Trust	Oxford Uni	Kew Gardens	CEH	Seed Supliers & Nurseries	Other Acedemia	NGOs	Sawmills	NTIS Chair
-	•								
					-				
	•								•
			I						
-	•	•							
-				_					_
•	•					•		•	•
•	•								
•									
•					-				
•	•			•					
•	-			-					
)									
•									
									•
- GEN		DIVER	SITY						
			1	1	1			1	