



Skype meeting M:\SEAWEED\1SW-GROW MEETINGS\SKYPE MONTHLY\2020\SKYPE 30 SEPT 2020\SW-GROW MINUTE SKYPE 30 SEPTEMBER 2020.DOCX

Present

Andrew Mackenzie Lews Castle College

Clíodhna Ní Ghríofa Údarás na Gaeltachta, Na Forbacha, Co. na Gaillimhe

Dr Ronan Sulpice NUI Galway
Dr Masami Inaba NUI Galway

Dr Agnes Mols Mortensen TARI – Faroe seaweed
Dr Angus Murray Lews Castle College
Dr Roy Bartle Lews Castle College
Prof Rúnar Unnþórsson University of Iceland

Prof Francesco Gentili Swedish University of Agricultural Sciences
Dr Calle Niemi Swedish University of Agricultural Sciences

Dr Alasdair Macleod Lews Castle College, Stornoway

Apologies

Jon MacLeod An Lanntair

Prof Lisbeth Truelstrup Hansen Arktisk Teknologi Center, Greenland

Minute

	ITEM	Comment	Decision	Task	Who?	By date
1.	Approval of minute	The minute was	No matters arising.			
	of 26 August 2020	approved.				
2.	Feedback from NPA	The feedback from the	Agreed to make	Contact Peter	Andrew Mackenzie	Before next
	conference – any	conference was	contact and see if			meeting
	matters arising	generally favourable and	algae could be added			
		some useful contacts	to the production of			
		were made and should	some beers?			





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		be followed up. In				
		particular, the				
		presentations on the				
		production of barley in				
		Scotland and the				
		presentation on				
		provenance in Iceland.				
3.	Progress with Period	Swedish FLC need some		Send the	Francesco/Christina	Before 6
	1 and 2 reports	further clarification.		information		October
				required		2020
		An Lanntair still have not		Contact FLC	Jon	As soon as
		had their claim certified.		and expedite		possible
				claim.		
4.	Progress with	Need to add some	Input is needed from	Send contact	Francesco, Agnes	As soon as
	questionnaire	changes recommended	other partners so	details	(Faroe and contacts	possible or
		by Agnes. It will then be	that the	(possible	in Norway), Lisbeth	by 2
		possible send out to	questionnaire can be	database) of	and Rúnar.	October
		respondents. Scotland	widely circulated to	processors,		2020.
		and Ireland are fairly	relevant	harvesters etc		(reminder
		well represented via	organisations.	to Clíodhna.		sent 4 Oct
		existing networks.				2020)
			Timescale agreed			
			was that a database			
			(ideally) of			
			organisations would			
			it be sent to Clíodhna			
			by 2 October, with an			
			aim of sending out			
			the questionnaire to			
			all organisations on			





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			12 October 2020 with					
			a return date by 30					
			October 2020 at the					
			latest.					
5.	Update on progress	Lews Castle College						
	by	Andrew Mackenzie:						
	person/organisation	Work package Manageme	/ork package Management; Continuing to chase up FLC and finance claims – and responding to					
	since last meeting at	queries from Partners and	the NPA. Developed a F	PowerPoint for de	livery to the NPA 2020	O annual event		
	the end of August	and took part and contrib	uted to discussion of this	event. Met with	Jon and agreed how v	we would		
		proceed with building a br	and and how we could b	oring local produce	ers on board. Dr Angu	ıs Murray will		
		be building up a database	of elements that might r	make their way in	to the branding and h	e will probably		
		be in touch with Partners	asking for any contributi	ons to the study.	Angus has uploaded t	he		
		presentation for the NPA	conference to both webs	sites.				
		Roy Bartle						
		Work package T1.2.1 Dryi	Work package T1.2.1 Drying systems.					
		Finished contribution to the	Finished contribution to the initial drying paper and sent to Calle who hopes to have the protein					
		characterisation done in a	couple of weeks and the	en it should be po	ssible to publish by No	ovember. A		
		plan has been developed t	plan has been developed to construct a drying rig at Lews Castle College, but we are still under some					
		restrictions due to the CO	restrictions due to the COVID-19 situation. This should not unduly delay the drying work since this					
		cannot happen until the next season of seaweed growing has begun - end of winter beginning of Spring						
		2021.						
		T1.2.2 , developing a model by which drying systems can be optimised for different products in places and validating the European Union's ERA5 meteorological data against UK Met office data						
		1 .	•	_	~			
		that, if successful, the ERA		•				
		to specify their location, a		_	rical data for that local	tion and from		
		that be able to optimise a	nd energy system for dry	ring.				





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	Swedish University of Agric	Swedish University of Agricultural Sciences						
	Work package 2. Francesco	Work package 2. Francesco has been in contact with people in regard to the carbohydrate quantification so that in the next couple of weeks quality and the quantity of the samples can be determined. Calle has been characterising proteins from samples and deciding on which methods work best and, for example, measuring what assays can be used and this will be continued when samples are received from Agnes. Also, protein and fatty acids analysis will be undertaken, and this should be available by						
	quantification so that in the							
	the end of October 2020.							
	An Lanntair							
	WP T2: Characterisation an	id Branding						
	T2.6 Characterisation	::::		-f				
	Continuing to research trad		_		-			
	archive and oral resources a exercise	adding to a directory of	knowledge to b	e red into the evi	entual branding			
		d idantity						
		T2.2 Development of Brand identity Continuing to look at existing seaweed brands to analyse imagery, the nature of text used in packaging						
	and the direction of brandir	_						
	authentication, scientific ve	-		5, d5c 01 d 1ccogi	noca braz			
	Arktisk Teknologi Center, G	•						
	Still working on analysing th		m Greenland an	d the Faroe Islan	ds this summer.			
	Some Greenland Alaria sam	•						
	off sick leave, which has del	•		, ,	,			
	Given the limited sample ar	nount, it was decided t	hat it made mor	e sense for Calle	in Umeå to complete			
	all of the analyses of the dri	ied Scottish samples.						
	TARI – Faroe seaweed							
	Work package 2							
	send off dried material of 3	different species (Palm	neria palmata (Di	ulce), Himanthali	ia elongate, Porphyra			
	umbilicalis) to Francesco an	d Calle since these spe	cies feature in TA	ARI's finished pro	oducts. Some freeze-			
	dried samples of Palmeria p	•		Iso be sent to Sw	eden, so that the			
	difference between the trea	atment of samples can	be analysed.					





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	Also, the collections for genetic analysis have been done and arrangements have been made with the						
	transporting company to dispatch samples to Ireland.						
	Work package 1						
	All the sampling on the farm site has been completed, but the hatchery is now full-both the hatchery						
	ropes that are going to be used by TARI as well has seeded rope that is used by the aquaculture industry						
	to be used in the salmon cages for lump fish shelters. This is becoming a new important source of						
	income to the company and means that more space will be needed at the new hatchery at Fámjin. TARI						
	has applied for a Danish patent and is hopeful that a European one will also be forthcoming.						
	For the last month Agnes has employed an interim to develop recipes based on TARI's products and						
	together with that they have been working on fermentation because they want to try and make a						
	fermented health food supplement using different lactobacillus cultures. They would like to continue						
	with this work and would welcome discussions with Lisbeth and Francesco and perhaps Roy on the						
	fermentation study.						
	Work package 3 (pilot)						
	Working on developing the "green" hatchery pilot and have good contacts in the Faroes with a company						
	that deals in water turbines on behalf of an Italian company and has sent some proposals that may be						
	suitable for this pilot project. This has to be discussed further, in particular, with regard to finances. The						
	proposal to include the municipality is probably not so relevant now since the turbine will only be used for the seaweed hatchery.						
	Údarás na Gaeltachta						
	Work package T4 Dissemination and engagement with stakeholders.						
	Have been engaging with various stakeholders across the NPA and have been involved in organising a						
	webinar that is looking at a standard for seaweed accreditation to accredit the sustainability of the						
	product. At the seaweed culture conference (last week) SW-GROW had a segment there and a view						
	important contacts were established which will be followed up in the next couple days.						
	NUI Galway						
	Work package 2 characterisation and branding.						
	Looking forward to receiving samples from Agnes (Palmeria palmata and Alaria esculenta) for DNA						
	sequencing. Clíodhna sent some dry samples last week-also for sequencing. Also going to do some						





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		sampling of Palmeria palmata in Connemara, and possibly Alaria esculenta, but the season is not very suitable.						
		University of Iceland						
		Work package 1.3						
		Working on preparations		on of seaweed-maki	ng slow progress.			
6.	Agree pilot projects	1. Shared infrastruc	ture project.	(Clíodhna)				
	to be delivered.	2. Drying systems.		(Lews Castle Colle	ege)			
		3. Disposing of bion		(Rúnar)				
		4. Species database	? .	(Ronan)				
		5. Cultivation.	ntorrolated and	(Agnes)	m oach othor as thou	progress (drying		
		Many of these pilots are interrelated and will have in-feed from each other as they progress (drying, energy, renewables) and despite COVID-19 problems good progress has been maintained.						
7.	T3.1 shared	Shared resources.	despite covid 1	5 problems good pro	ogress has been man	itamea.		
'	infrastructure	We need demonstrate that shared infrastructure resources for SMEs is feasible and we have agreed						
	project etc.	that we will move this into a pilot. For this to be successful we need to have developed branding and						
		that using shared facilities will add value to the local industry. We need a clear plan, and responsibiliti						
agreed, between Lews Castle College, Rúnar and Clíodhna and a method for gearly stage.					l a method for gettin	g SMEs involved at an		
		This needs to be linked in	with the work t	nat Lews Castle Colle	ege is doing regarding	g drying and the use		
		of renewable technologie	s. It would be p	ossible to install a co	nventional drying sy	stem and then add		
		the renewable energy aft						
		which is largely "green" a	nd environment	al. This means that i	t would have to be e	lectrically driven and		
		not by fossil fuels.				- 1-4		
		It was agreed to set up a separate subgroup consisting of Andrew, Alasdair, Clíodhna, Roy and R devise a pilot that would obtain feedback from SMEs on the potential:						
		devise a pilot that would	optain feedback	from SIVIES on the p	otentiai:			
		Savings						
			greater product	ion and / or lower co	osts			
		 Benefits in terms of greater production and / or lower costs Convenience 						





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		of shared restructure. The Food packaging It may be possible to invest materials. There is already Polar and Marine Research and using the antibacteria algae they are working on, Alaria can be used for and of our project very easily. possible to investigate this	stigate the production of much work going on at n (Bremerhaven, German I effect for longer shelf li , and what size of bioma possibly sugar kelp, beca If we encounter problen	bio plastics as parthe Alfred-Wegen ny) who are using fe. It may be poss ss they are using. ause these species	rt of the work on using ner-Institute Helmholtz algal-based materials t ible to contact them to It would be interesting s are ones that we can	Centre for to pack food o see what g to see what grow as part
8.	Samples	Ronan requested samples Partners.	of palmaria to be sent fr	om any source in	a tube with seawater f	from

Next meeting: Skype Wednesday 28 October 2020