



Skype meeting M:\SEAWEED\1SW-GROW MEETINGS\SKYPE MONTHLY\PERIOD 3 01_08_2020 TO 31_01_2012\25 NOVEMBER 2020\SW-GROW MINUTE SKYPE 25 NOVEMBER 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 Francesco Gentili Swedish University of Agricultural Sciences
Dr Calle Niemi Swedish University of Agricultural Sciences

Dr Alasdair Macleod Lews Castle College, Stornoway

Jon MacLeod An Lanntair

Prof Lisbeth Truelstrup Hansen Arktisk Teknologi Center, Greenland

Apologies

Prof Rúnar Unnþórsson University of Iceland

Minute

	ITEM	Comment	Decision	Task	Who?	By date
1.	Approval of minute of 30	The minute was	No matters arising.	Send to Angus	Andrew	As soon as
	September 2020 –	approved.		for uploading		possible
	progress with Actions /			to website		
	matters arising					
	Matters arising	ARTEK still working on sen	ding samples -they have	e been successfully	r frozen but not yet dis	patched.







	ITEM	Comment	Decision	Task	Who?	By date
	Provide Calle with as many samples as possible	Researchers at Gothenber promised that they will se		large programme	on algae cultivation, a	and they have
	Reminder: Clíodhna asks Partners to send information about any work, papers etc. for dissemination.	No new information sent.				
	Update on questionnaire- circulate to as many as possible in relevant areas	So far, questionnaires hav	e been received from th	e Faroe Islands (1)), UK (3), Iceland (1) ar	nd Ireland (20)
2.	Progress with Period 1 Partner report	Andrew submitted the reports on 19 November, but Michela Gaifami responded to indicate that the LP signature template was that for the partner report instead of the PROJECT report. She also asked that we upload the fact sheet, pop up poster and power point template, as well as the translated versions of the factsheet. Further details about the agreed pilots were	The correct signed template has been uploaded and Clíodhna has provided the relevant fact sheets etc. However, these documents are too large to be loaded into the EMS because of its constraints on file size. The requested information has been sent by "we transfer" and the pilot project details have been discussed.	Awaiting response from Michela Gaifami.		
		also necessary and should be uploaded in	alscussed.			







	ITEM	Comment	Decision	Task	Who?	By date
		the Attachments, or the relevant parts of the meeting minutes highlighted.				
3.	Progress with Period 2 reports	Most have done work on these reports, but few are complete or signed off by the FLC.		Continue working on reports and submit when ready.	All Partners	As soon as possible.

	Item	Information	
4.	Update on progress	Lews Castle College	
	with work packages	Andrew Mackenzie: Work package Management.	
		Continuing to chase up FLC and finance claims – and responding to queries from Partners and the NPA.	
		Working on reports and liaising with colleagues at Lews Castle College.	
		Roy Bartle	
		Work package T1.2.1 Drying systems.	
		Working with technicians at Lews Castle College to get the drying rig commissioned. Currently running	
		validation and calibration experiments to ensure that the airflow velocity is uniform across all the	
		drying racks so that there is no temperature variation within the oven. Over the last month we have	
		been working on equipment and instrumentation, so we hope that in the next couple of weeks we will	
		be able to start the initial experiments on seaweed. Paper submitted to the Journal of Phycology on	
		the drying experiments, but no response received from the publisher yet.	
	Update on progress	Swedish University of Agricultural Sciences	
	with work packages	Work package 2.6.1	
		Have sent and received analysis of amino acids (free and bound) and composition including 23	
		elements from the algae from TARI. Analysis of Alaria esculenta shows that it has around 3-4 mg of	







Item	Information	
	cadmium per kg of dried weight, but, surprisingly, this is normal, having researched other literature. In Sweden for use in agriculture as a fertiliser the limit is 1 mg per kg!	
	Calle has been testing several methods for analysing protein content and it is hoped that some samples will be received from Gothenberg. Carbohydrates have also been analysed for quality and quantity from samples received.	
	There was discussion about the possibility of using fresh seaweed, frozen seaweed or fermented seaweed as an alternative to dry seaweed for food use. This may be a useful alternative where drying methods use environmentally friendly fuels as opposed to renewable sources.	
Update on progress	An Lanntair	
with work packages	Work Package T2.6 Characterisation	
	T2.2 Development of Brand identity	
	Just uploaded a document which is some analysis of what is publicly available regarding branding, and marketing. Also looking at certifications and logos - there are currently 13 accredited logos, which are	
	associated with seaweed products-including one DNA certification which is used by one of the brand leaders (Seaweed and Co) who are at the forefront of producing accredited products and developing	
	ways of improving product and markets advantage. Suggest that a meeting be convened to discuss the	
	branding strategy and where the SW-GROW brand is good to sit in relation to what is already available within the marketplace.	
	ACTION: Andrew to arrange meeting with Lews Castle College, Clíodhna, Ronan and Jon for	
	Wednesday 2, December 2020 at 2 PM GMT	
	ACTION: Jon to send a link to all Partners to Seaweed and Co website	
Update on progress	Arktisk Teknologi Center, Greenland	
with work packages	Work package T21.1	
	Have a Ph.D. project associated with SW-GROW and a paper has just been submitted from her work	
	which is an evaluation of the characterisation and chemical nature of 17 elements in 10 species of	
	seaweed from Greenland. This has mapped out the potential for different seaweeds to be used in the	
	food industry for human consumption. Currently working on nutritional characterisation of these	
	seaweeds and using similar methods to be those used by SLU and have also sequenced the microbiology of the samples harvested in a pristine area to be compared with samples that were	
	microbiology of the samples harvested in a pristine area to be compared with samples that were	







	Item	Information	
		sampled in more populated (and potentially more polluted areas where raw sewage may be present),	
		in Greenland.	
		Currently getting ready to sequence the microbiomes on the sugar kelp seaweed samples from	
	11	Greenland.	
	Update on progress	TARI	
	with work packages	Spent considerable time on reporting for Period 2, and this has recently been sent to the FLC. Been	
		working on the piloting project and trying to resolve some issues but there has been no resolution so	
		far. Have been in contact with various banks and other funding agencies, but this does not look promising, so a few more options will be explored. However, still hopeful that the pilot can be	
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		progressed. Work package 1	
		Have been working on the results from the fjords that we have so far have also given the couple of	
		presentations based on those data.	
		Will give another talk to the same network as Clíodhna a month ago - data will be presented from the	
		fjords where the farm is located. This will include information on seaweed growth, content of the	
		algae, the nutrients of the water, and the bacterial content of the water.	
	Update on progress	Údarás na Gaeltachta	
	with work packages	Work package T2 1.1 Shared infrastructure	
		There are two locations that may be suitable for this pilot project - one near UDARAS and the other in	
		County Mayo - currently determining the suitability of either site. In terms of having the shared	
		infrastructure in place by the end of April 2021 it is feasible, but this will mean that the decision has	
		been made on the preferred location within the next couple of weeks.	
		Work package T4 Dissemination and engagement with stakeholders.	
		Just, recently published a paper in a Regional paper and an online article in a national paper. There is	
_		an ambition to duplicate this work in all the NPA areas sometime next year.	
	Update on progress	NUI Galway	
	with work packages	Work package T2.2	
		Samples have been sent for sequencing to China (22 samples of Alaria esculenta and 20 of Palmaria	
		palmata) from Ireland and the Faroe Islands. In addition, to analyse the full genome, a sample of	
		Alaria esculenta was sent to China and a sample of Palmaria palmata to Germany.	







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		Work package T4 Dissemination and engagement with stakeholders A paper on sea lettuce is in pre-print and deals with the mis-identification of the product (estimation that 70% of the sequences or false).	
		Action-Ronan to send link for the preprint to all partners. Ronan is talking at a conference on 30 December 202 on the mis-identification of sea lettuce and its variable quality-carbohydrates, proteins, etc.	
Update on progress with work packages With work packages Been working on the development of the seaweed drying cabinet. Have made changes feedback received last month and implemented into the design an energy saving solution the hot air. This design was sent to Roy who gave nice comments on how the design comprove further. Currently exploring those ideas.			
5.	Update on questionnaire to SMEs	Already covered-see above.	
6.	Progress with pilot projects to be delivered.	Already covered-see above.	
7.	E-mail from Michela Gaifami re ineligible expenditure	e ineligible	

Next meeting: (Try) Teams Wednesday 23 December 2020



