

Teams meeting

M:\SEAWEED\1SW-GROW MEETINGS\SKYPE\_TEAMS MONTHLY\PERIOD 3 01\_08\_2020 TO 31\_01\_2021\TEAMS 27 JANUARY 2021\SW-GROW MINUTE TEAMS 27 JANUARY 2021- REVISED.DOCX

Present

Andrew Mackenzie	Lews Castle College
Aisling Nic Aoidh	Údarás na Gaeltachta, Na Forbacha, Co. na Gaillimhe
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
Prof Francesco Gentili	Swedish University of Agricultural Sciences
Prof Lisbeth Truelstrup Hansen	Arktisk Teknolog Center, Greenland
Jonas Steenholdt Sørensen	Arktisk Teknolog Center, Greenland
Dr Roy Bartle	Lews Castle College
Jon MacLeod	An Lanntair
Dr Calle Niemi	Swedish University of Agricultural Sciences

Apologies

Prof Rúnar Unnþórsson	University of Iceland
Dr Alasdair Macleod	Lews Castle College, Stornoway
Dr Angus Murray	Lews Castle College

Minute

	ITEM	Comment	Decision	Task	Who?	By date
1.	Approval of minute of SW-GROW Skype Meeting 6 January 2021	The minute was approved.	No matters arising.	Send to Angus for uploading to website	Andrew	Done
2.	Matters arising from 6 January 2021 meeting	ACTION: Jon to send a link to all Partners to Seaweed and Co website - <a href="https://www.seaweedandco.com/">https://www.seaweedandco.com/</a> ACTION:-Ronan to send link for the preprint to all partners on sea lettuce - <b>Done</b>				

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3.	<b>Progress with work package deliverables (see spreadsheet)</b>	<p>One deliverable was due in April 2020 - <i>Outcomes of the feasibility assessment will inform the selection of a pilot / demonstration scheme. The activity in T1 will indicate the types of project that should be conducted - this activity will identify who will participate.</i></p> <p>Two others are due at the end of January 2021 -</p> <ol style="list-style-type: none"> <li>1. <i>Report that includes core qualities of existing SME's product identity and potential brand identity, and elements such as provenance, water quality and cultural knowledge.</i></li> <li>2. <i>The approach will be to identify specific seaweeds that can be sustainably extracted (or cultivated) but where significant value can be added by emphasising cultural and nutritional factors, and branding this.</i></li> </ol>
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	Item	Information
4.	Update on progress with work packages	<p><b>Lews Castle College</b></p> <p><b>Andrew Mackenzie: Work package Management.</b> Responding to queries from Partners and the NPA. Working on reports and liaising with colleagues at Lews Castle College – analysing progress and informing Partners.</p> <p><b>Angus Murray</b> Migrated seaweed use database to the website. Renamed “Our Work” section to “Updates” and added Press releases to it.</p> <p><b>Dr Roy Bartle</b> <b>Deliverable T1.2.1 and T1.2.3.</b> The initial calibrations of the drying machine have been made but are awaiting one small part, but with the lockdown situation. It is uncertain when access can be gained College to continue with this work. Once access can be gained experiments on real seaweed samples can be started. The optimisation process is also being worked on using a genetic algorithm to determine the best parameters for a seaweed drying system using wind and solar power. Conference publications are generally counted as scientific publications, unless this project has some unusual by-laws.</p>

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		<p>The link to our publication is at <a href="https://www.arcticfrontiers.com/wp-content/uploads/downloads/2020/Arctic%20Frontiers%20Science/Oral%20presentations/1.%20Arctic%20Food%20Security/14_Roy_Bartle.pdf">https://www.arcticfrontiers.com/wp-content/uploads/downloads/2020/Arctic%20Frontiers%20Science/Oral%20presentations/1.%20Arctic%20Food%20Security/14_Roy_Bartle.pdf</a> and the publication reference is as follows:</p> <ul style="list-style-type: none"> <li>• Bartle, R.S. &amp; Macleod, A., 2020. "Wind power systems for commercial seaweed drying". Arctic Frontiers Conference 2020, Tromso, Norway, 26-30 January 2020.</li> <li>• On 22 January our paper, submitted initially to the Journal of Applied Phycology, was transferred by the publishers, Springer, to Food and Bioprocess Technology. This will now undergo a new review process in the order of 2-6 months.</li> </ul>
	Update on progress with work packages	<p><b>Swedish University of Agricultural Sciences</b> <b>Work package T2.6.1</b></p> <p>Working on sugar and protein analysis using a variety of methods to characterise the microalgae. The other institution has received samples for analysis of carbon and nitrogen and for calorific value. Also discussing the new standard for sugar analysis since the preliminary data showed traditional mono sugar, but there were other sugars that currently we do not understand. Also, collecting data from the various samples that have been delivered using Fluorescence spectroscopy to determine protein and other content.</p>
	Update on progress with work packages	<p><b>An Lanntair</b> <b>Work Package T2.6 Characterisation</b> <b>T2.2 Development of Brand identity</b></p> <p>Added a first chapter of cultural research from Scottish and Irish sources + the most relevant paper on cultural uses of seaweed in Scotland by William Millikin.</p> <p>Collating more material and images to upload just now and will edit and compile all chapters for a publication for the final stages of the project.</p> <p>Had an initial meeting with a graphic designer and have started work on mood boards and strategies for brand identity which will be ready as a range of potential options for the April symposium.</p>
	Update on progress with work packages	<p><b>Arktisk Teknologi Center, Greenland</b> <b>Work package T21.1</b></p> <p>Have been communicating with Greenland about shipping the Alaria esculenta samples to Ireland and Sweden- it should be in progress and it is hoped that some Palmaria palmata (dulce) and Saccharina latissima (sugar kelp) can also be collected in the coming months.</p>

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	Update on progress with work packages	<p><b>TARI</b> <b>Work package T1</b> A couple of weeks ago ropes with Alaria esculenta were deployed on the farm but are still to deploy the Saccharina latissima that are in the hatcheries-this should be done in the next two or three weeks. The report for period 2 has been approved by the FLC and has been submitted. The requirement for additional funding for the renewable energy pilot is still in progress and their accountant is assisting with this.</p>
	Update on progress with work packages	<p><b>Údarás na Gaeltachta</b> <b>Work package T2 1.1 Shared infrastructure</b> A press release (newsletter) has been produced and uploaded to the website and distributed widely (<a href="https://sw-grow.eu/wp-content/uploads/2021/01/SW-GROW-Press-Release-Jan-2021.pdf">https://sw-grow.eu/wp-content/uploads/2021/01/SW-GROW-Press-Release-Jan-2021.pdf</a>). Response has been very good and has produced considerable interest. Our reach has gone as far as Egypt and India! The seaweed search campaign is progressing and went live on Facebook and included emails to known contacts with about twenty responses so far. This will result in having to analyse the results to establish how good the samples are. A teacher in Iceland has become interested in the project and wishes to send some seaweed samples and would like to include this in her lessons. It is envisaged that Partners would spend approximately an hour engaging, online with the students to explain the project and its outcomes. As regards the shared infrastructure; this continues with two possible candidates - one preferred and selection criteria are being established to determine the most successful candidate. It has yet to be established, however, how this project will be funded and the FLC has been contacted for advice.</p>
	Update on progress with work packages	<p><b>NUI Galway</b> <b>Work package T2.2</b> Long read sequence data of Alaria esculenta have been received and a full genome assembly is ongoing. Considerable interest has been received from organisations willing to send samples, but it will be important to discriminate to ensure that the samples received are that the species required and are from relevant geographical areas. There is also the issue of costs for sequencing and shipping since, to be effective, the samples need to be in good condition on receipt, and there will be consultation with Údarás na Gaeltachta on these matters.</p>

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		Also a collaboration has been established with Dr Trevor Bringloe (University of Melbourne, Australia) who is sequencing seaweed in the Pacific region, Alaska and Greenland to ensure that we do not duplicate the work that they have also undertaken. We are sharing our data with them and they also gave us access to all their data. We are also collaborating with Dr. Philippe Potin (Station Biologique de Roscoff, France) and they will send us samples of <i>Palmaria palmata</i> (dulce) and <i>Alaria esculenta</i> , as well as participate in sequencing costs inherent to their samples, so we will have a good dataset to analyse.
	Update on progress with work packages	<b>University of Iceland</b> Roy has been working with one of the Ph.D. students on a commercial size drying system with heat recovery and the design is now in several iterations and the concept of a centrifugal separator is under consideration. Components will need to be sent to Iceland and fitted into any proposed system. Also under consideration is whether it would be possible, and preferable, to move to freeze drying rather than using heat recirculation.
5.	<b>Update on questionnaire analysis</b>	See above
6.	Progress with Period 2 reports	In progress.
7.	<b>Update on progress with Pilots</b>	See above.
8.	<b>Any other business</b>	No items

Next meeting:

Teams Wednesday 24 February 2021 at 1pm (UK time)