



Algemene gegevens	
TKI-Nummer	AF-EU-17023
Titel	Microalgae As a Green source for Nutritional Ingredients for Food/Feed and Ingredients for Cosmetics by cost-Effective New Technologies. MAGNIFICENT
Topsector (A&F of T&U)	A&F
Projectleider (onderzoek)	Dr. Lolke Sijtsma
Werkelijke startdatum	1.6.2017
Werkelijke einddatum	31.5.2021
Korte omschrijving inhoud	<p>At present algae are being sold as whole cells for food supplements (Spirulina, Dunaliella and Chlorella), aquaculture and in few personal care products. The enlargement of current market applications for high-value microalgae ingredients will lead to new business opportunities, industrialize the technology and provide the knowledge and experience required to enter the medium- low value market within 5-10 years.</p> <p>MAGNIFICENT will expand the range of commercial products and their market volume substantially and in a sustainable manner. The overall objective of the project is to develop and validate a sustainable and economically feasible new value chain based on cultivation and processing of microalgae with the aim to transform microalgae raw material into valuable ingredients for food, aquatic feed and cosmetics applications.</p> <p>WFBR will contribute to strain improvement, advise for dissemination and exploitation of the results and management.</p>

uitvoerende partijen																																												
betrokken kennisinstellingen	Wageningen Food & Biobased Research																																											
overige partijen	<table><tbody><tr><td>1</td><td>Wageningen University WU</td><td>UNI</td><td>Netherlands</td><td></td></tr><tr><td>2</td><td>Stichting Dienst Landbouwkundig Onderzoek</td><td>WFBR</td><td>RTO</td><td>Netherlands</td></tr><tr><td>3</td><td>Fraunhofer Gesellschaft zur Förderung Der Angewandten Forschung EV</td><td>FRAUNHOFER</td><td>RTO</td><td>Germany</td></tr><tr><td>4</td><td>NECTON</td><td>NECTON</td><td>SME</td><td>Portugal</td></tr><tr><td>5</td><td>Cimentos de Maceira e Pataias, S.A.</td><td>CMP</td><td>LE</td><td>Portugal</td></tr><tr><td>6</td><td>SPAROS</td><td>SPAROS</td><td>SME</td><td>Portugal</td></tr><tr><td>7</td><td>Erdyn Consultants</td><td>ERDYN</td><td>SME</td><td>France</td></tr><tr><td>8</td><td>Alga development, engineering and</td><td>ALGADES</td><td>SME</td><td>Spain</td></tr></tbody></table>				1	Wageningen University WU	UNI	Netherlands		2	Stichting Dienst Landbouwkundig Onderzoek	WFBR	RTO	Netherlands	3	Fraunhofer Gesellschaft zur Förderung Der Angewandten Forschung EV	FRAUNHOFER	RTO	Germany	4	NECTON	NECTON	SME	Portugal	5	Cimentos de Maceira e Pataias, S.A.	CMP	LE	Portugal	6	SPAROS	SPAROS	SME	Portugal	7	Erdyn Consultants	ERDYN	SME	France	8	Alga development, engineering and	ALGADES	SME	Spain
1	Wageningen University WU	UNI	Netherlands																																									
2	Stichting Dienst Landbouwkundig Onderzoek	WFBR	RTO	Netherlands																																								
3	Fraunhofer Gesellschaft zur Förderung Der Angewandten Forschung EV	FRAUNHOFER	RTO	Germany																																								
4	NECTON	NECTON	SME	Portugal																																								
5	Cimentos de Maceira e Pataias, S.A.	CMP	LE	Portugal																																								
6	SPAROS	SPAROS	SME	Portugal																																								
7	Erdyn Consultants	ERDYN	SME	France																																								
8	Alga development, engineering and	ALGADES	SME	Spain																																								

	services			
9	MadeBiotech*	MadeBiotech	SME	Portugal
10	Narec Distributed Energy Limited	NAREC	SME	United Kingdom
11	AlgoSource Technologies	AST	SME	France
12	Kemin Industries [BU Food Technologies]	KEMIN FT	LE	Belgium
13	Imenz Bioengineering BV	IMENZ	SME	Netherlands
14	N-Zyme BioTec GmbH	N-ZYME	SME	Deutschland
15	NATAC Biotech SL	NATAC	SME	Spain
16	TOTAL RAFFINAGE CHIMIE SA	TRC	LE	France

Planning en voortgang	
Loopt het project volgens planning? Indien er wijzigingen zijn t.o.v. de plannen, geef hierop een toelichting. Indien er knelpunten zijn, geef hiervan een korte beschrijving	Ja, er is iets doorschuif (k€3)

Highlights: geef een korte beschrijving van de belangrijkste resultaten (deze beschrijving wordt als publieke samenvatting op de websites van de TKI's/topsectoren geplaatst)	
	At present algae are being sold as whole cells for food supplements (Spirulina, Dunaliella and Chlorella), aquaculture and in few personal care products. The enlargement of current market applications for high-value microalgae ingredients will lead to new business opportunities, industrialize the technology and provide the knowledge and experience required to enter the medium- low value market within 5-10 years.
	MAGNIFICENT will seek to expand the range of commercial products and their market volume substantially and in a sustainable manner. The overall objective of the project is to develop and validate a sustainable and economically feasible new value chain based on cultivation and processing of microalgae with the aim to transform microalgae raw material into valuable ingredients for food, aquatic feed and cosmetics applications.
	WFBR will contribute to strain improvement which is important to reduce production costs and advise in dissemination and exploitation of the results.
	The kick-off of the project was 26-28 June 2017.
	In 2017 WFBR started small scale cultivation experiments .

Aantal opgeleverde producten (geef in een bijlage de titels en/of omschrijving van de producten of een link naar de producten op openbare websites)					
Wetenschappelijke artikelen	Rapporten	Artikelen in vakbladen	Inleidingen/ workshops/ invited lectures	Aangevraagde octrooien /first filings	Spin-offs (*)

(*) Hiermee wordt bedoeld: contractonderzoek dat voortkomt uit dit project, aanvullende subsidies die zijn verkregen en spin-off bedrijvigheid.

Verwacht u het komende jaar een octrooiaanvraag?	nee
--	-----

Bijlage: Titels van de producten of een link naar de producten op een openbare website

<https://www.bbi-europe.eu/projects/magnificent>

https://www.wur.nl/upload_mm/a/e/b/866c75b9-6336-48bb-ae4d-b7e8c30a27b1_8412102973%20-%20AFSG_WFBR_Algen_flyer_LR.pdf

<https://resource.wur.nl/en/show/Future-of-AlgaePARC-secured.htm>

Akkoord: Hans van der Kolk (Topsectorsecretaris)