



Mission to Mars inspires food project in the Democratic Republic of the Congo

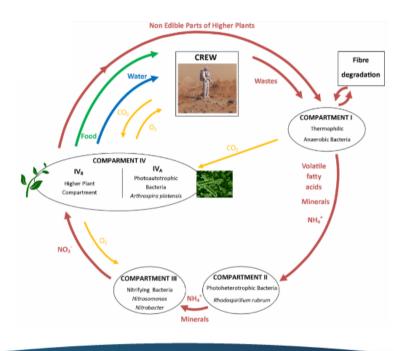
Felice Mastroleo SCK CEN (Belgium)





The MELiSSA project

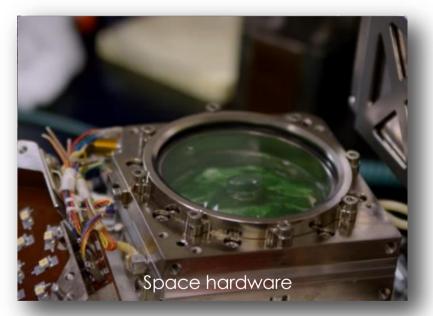
• SCK CEN (Max Mergeay) co-founder (1988)





Implementing space flight experiments for almost 20 years

• First ever spirulina photobioreactor running in space



Wednesday 4th 9am – Room 2 Natalie Leys

http://www.esa.int/Science_Exploration/Human_and_Robotic_Exploration/Research/Green_smoothies_in_space







The INSPIRATION project How it started

- Since 2014, SCK CEN is committed to Entrepreneurs for Entrepreneurs (a.k.a. OvO)
- SCK CEN internal call for project and selection of the INtroduction of SPIRulina in equatorial Africa To Improve IOcal Nutrition (INSPIRATION) project
 - Spirulina @ home



https://www.sckcen.be/en/inspiration-sck-cens-sustainable-commitment-south





The INSPIRATION project How it started

Test pond (June 2016)



Charity events (2016-2018)





Mission to Congo (Jul. 2016)

0000







Mission to Congo (Jul. 2016)



M ELESS A



Collaboration with UPN (Kinshasa)







First Spirulina growth tests

• Denis Bwabwa (Faculty of Agriculture and Zootechnics) (Jul. 2017 - Feb. 2018)





First Spirulina growth tests

• Denis Bwabwa (Faculty of Agriculture and Zootechnics) (Feb. 2019)





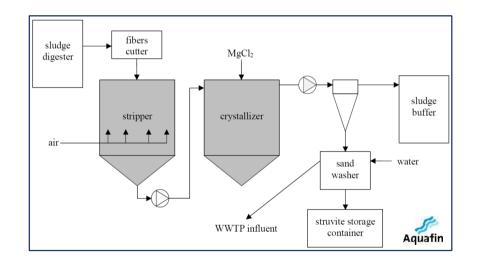
Training @SCK CEN (May-Jul. 2019)





MESSA Training @SCK CEN (May-Jul. 2019)

- To grow Spirulina with **struvite** as alternative nutrient source
 - MgNH₄PO₄·6H₂O
 - 50-80 euros/t
 - "End-of-waste" status
- Successful growth with:
 - 0.6g/L struvite + NaHCO₃
 + FeSO₄ + NaCl + Green Tea







Back to DRCongo: Public outreach



Clinique des plantes (August, 2019)







Back to DRCongo: Public outreach



Journée scientifique de l'UPN (Jan. 2020)





Current work



August 2020

000





Perspectives

000





THANK YOU.

Felice Mastroleo SCK CEN Felice.mastroleo@sckcen.be

www.melissafoundation.org



Follow us





PARTNERS

