

Webinar: Water in de circulaire economie

Thema Nieuwe grondstoffen: Kaamera

Niels van Stralen, co-founder & director



CHAINCRAFT
BIOBASED INNOVATORS

Confidential

CHAINCRAFT

- In a nutshell



FOUNDED IN 2010

Wageningen UR spin-off
Environmental Technology Group



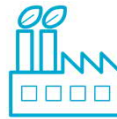
FUNDING

2010: ~€1 million – lab phase
2013: ~€2 million – pilot phase
2016: ~€12 million – demo phase



BASED IN AMSTERDAM

The Netherlands
15 FTE



DEMONSTRATION PLANT

Production capacity:
2 kton/year C2-C8 fatty acids as product
20 kton/year food residues as feedstock



LEADING TECHNOLOGY COMPANY

in mixed culture fermentation processes and
recovery & purification processes for biobased
chemical production from organic waste (water)



CONTINUOUS INNOVATION

- Innovation funnel



KAUMERA

- Biopolymer from aerobic granular sludge



OBTAINED FROM NEREDA WASTEWATER TREATMENT

Wastewater treatment based on aerobic granular sludge



BIOPOLYMER PRODUCED BY BACTERIA

Bacteria clean wastewater and produce biopolymer



TWO DEMONSTRATION PLANTS

2019: dairy waste water (Zutphen, WRIJ)

2020: municipal wastewater (Epe, WV&V)



CONSORTIUM



EXTRACTION & PRODUCTION



Waterschap  Rijn en IJssel



RESEARCH & DEVELOPMENT



PURIFICATION & APPLICATION



APPLICATIONS

- Agriculture



BIOSTIMULANT

Growth enhancer applied as seed treatment or foliar



CONTROLLED RELEASE FERTILIZER

Coating around mineral nutrients to control the release



NEXT APPLICATIONS

- Coating properties
- Fire retardant properties
- And more...

