

Webinar: Water in de circulaire economie

Thema Nieuwe grondstoffen: Kaamera

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**CHAINCRAFT**  
BIOBASED INNOVATORS

Confidential

# CHAINCRAFT

- In a nutshell



## FOUNDED IN 2010

Wageningen UR spin-off  
Environmental Technology Group



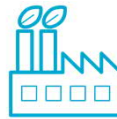
## FUNDING

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...

