

MSc Biosystems Engineering

- Please mute your mic.
- You can ask your questions in the chat.
- We would like you to join with video, so we can see who we are talking to.



Our challenge



What do we need?

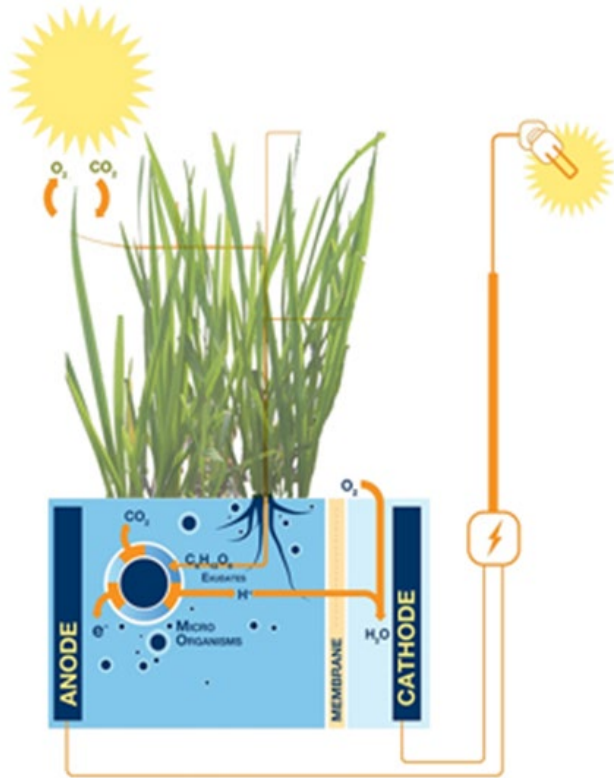
- Food
- Feed
- Flowers
- Fuel
- Fibres
- Fish
-





F

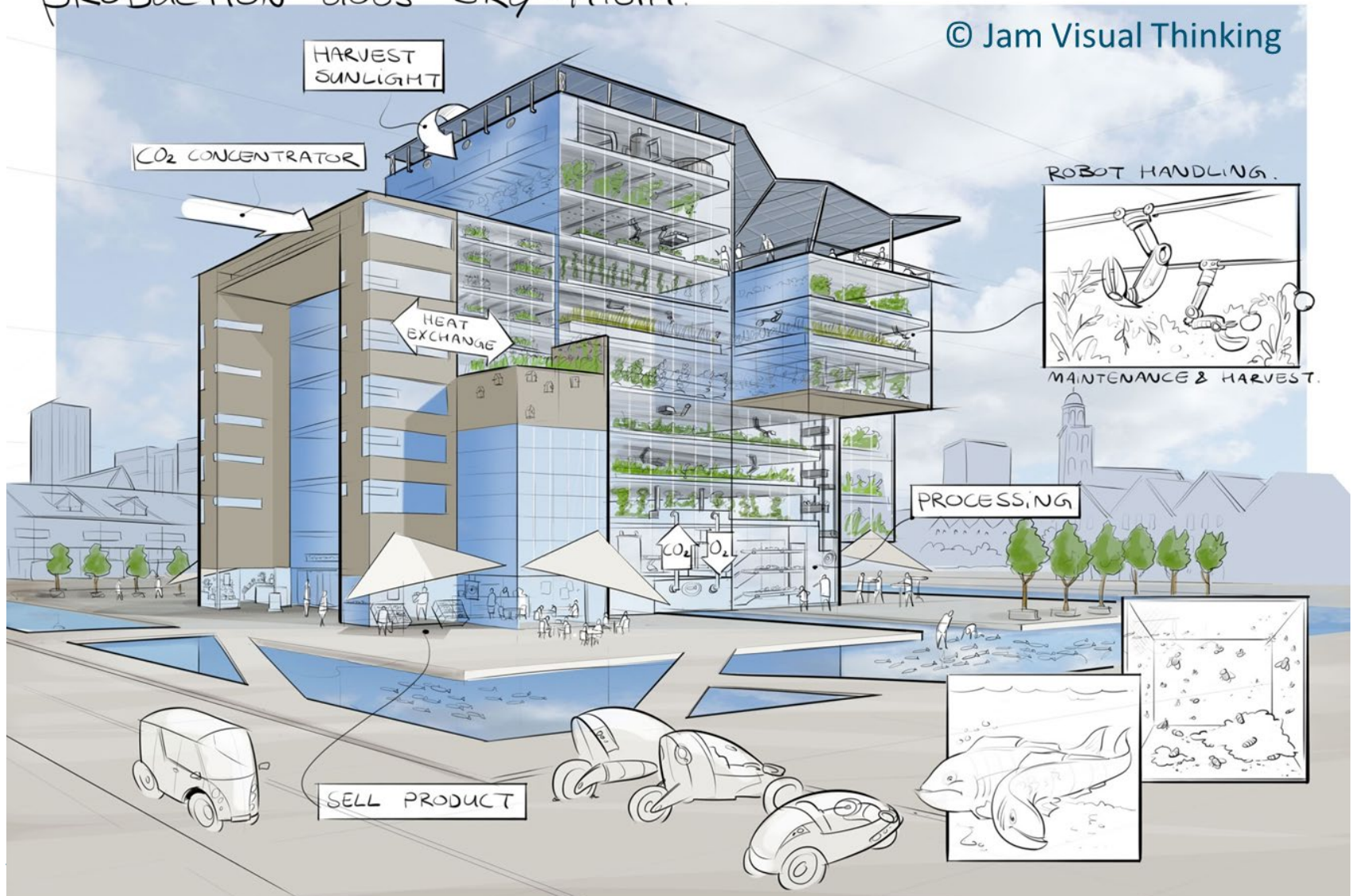
un, feelings & funny
unexpected things



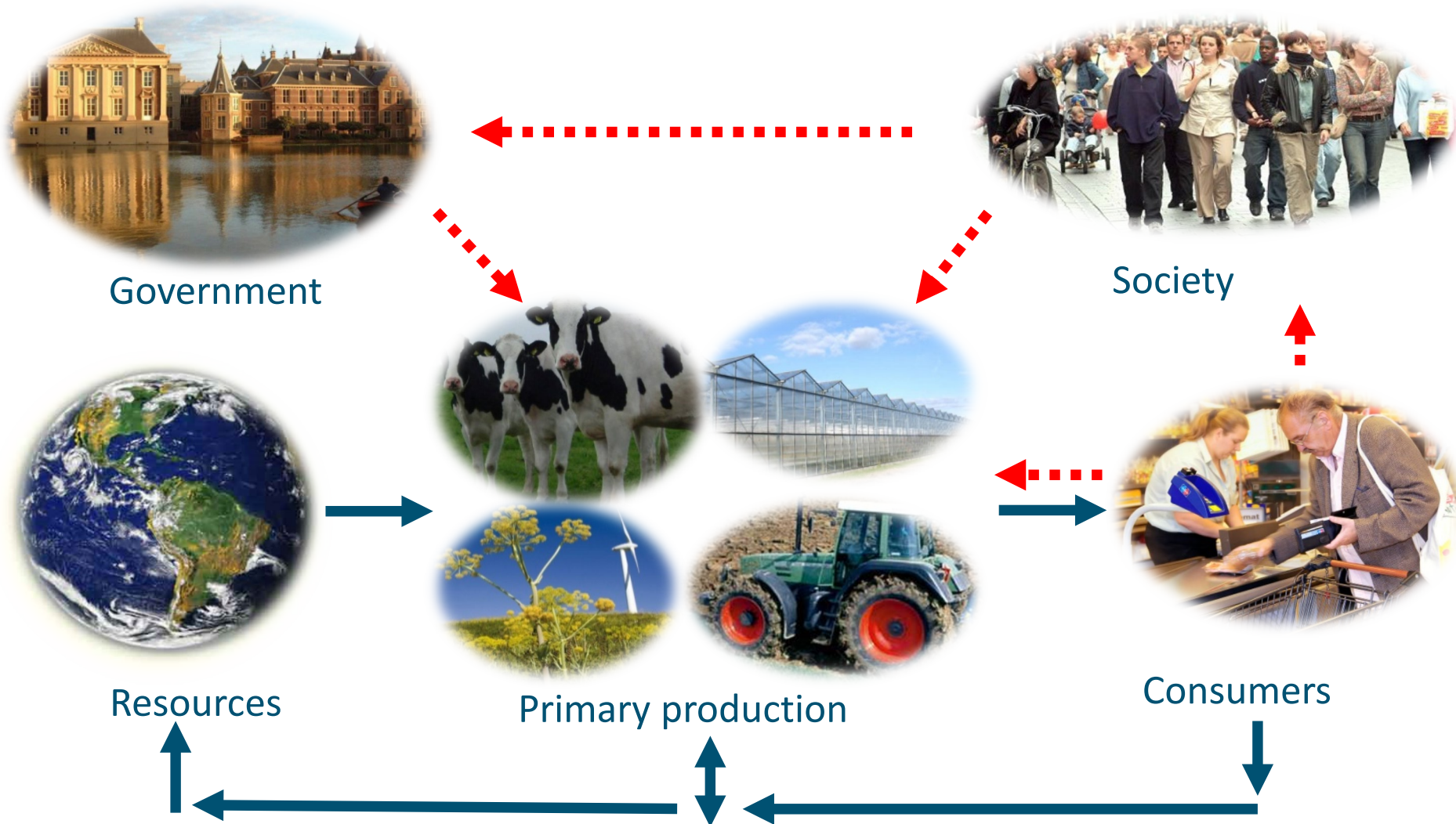
Engineering in the future

PRODUCTION GOES SKY-HIGH.

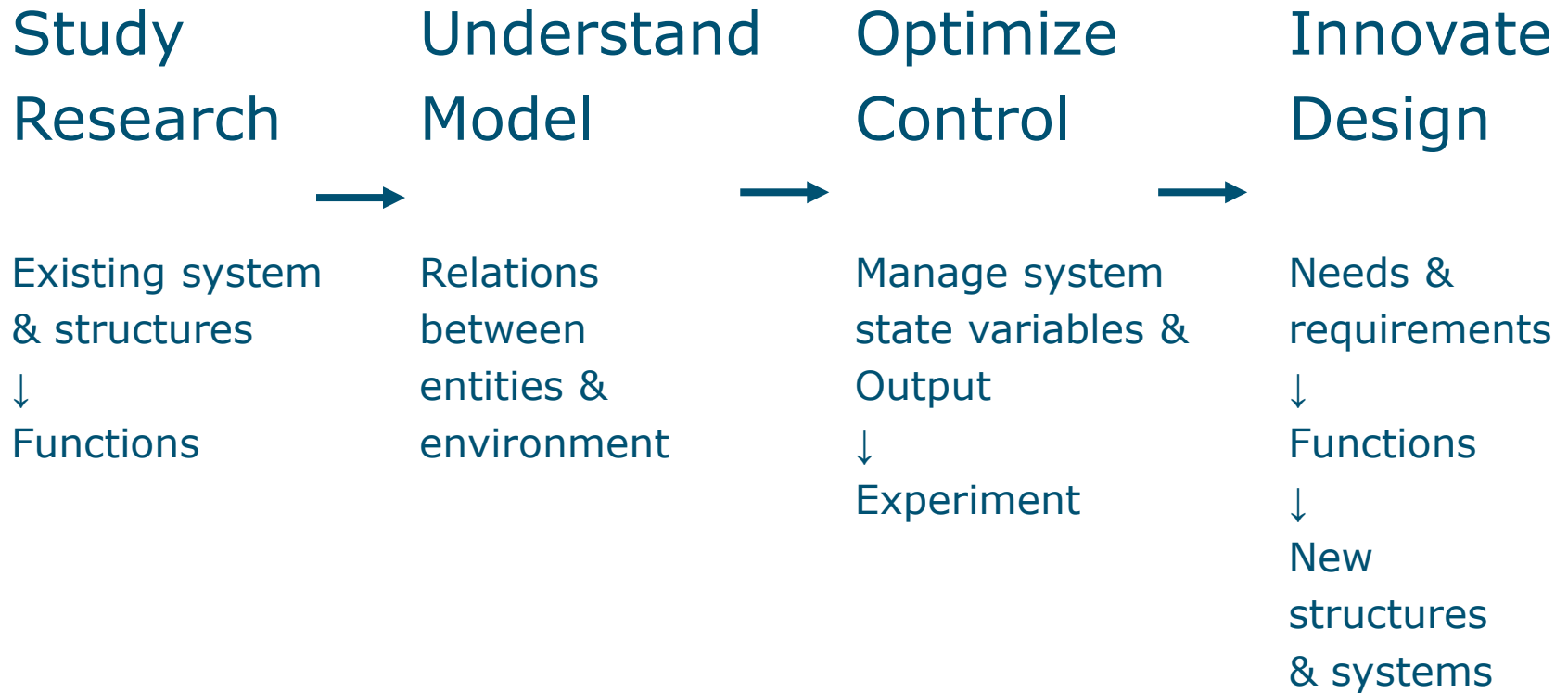
© Jam Visual Thinking



Position Biosystems Engineering



Engineering: **System thinking**



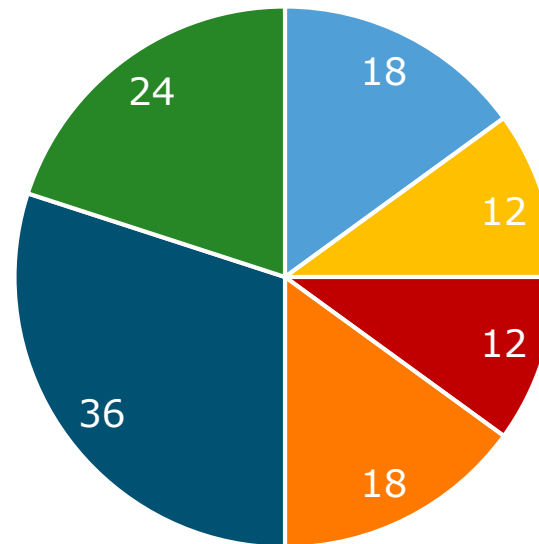
Study programme

- Duration: 2 years
 - One year courses
 - One year thesis/ internship
- Tailor made programme
 - Thesis oriented
 - Based on your competences and ambitions



Study programme

Total 120 ECTS



■ Compulsory courses

■ Career preparation courses

■ Thesis

■ Thesis preparation courses

■ Free choice courses

■ Internship

Compulsory courses

- Overview to Biosystems Engineering
- Three courses
 - Biosystems Design
 - Modelling of Biobased Production Systems
 - Quantitative Analysis of Innovative Biosystems

Career preparation courses

- Research Master Cluster

- Preparation PhD
- Write your research proposal

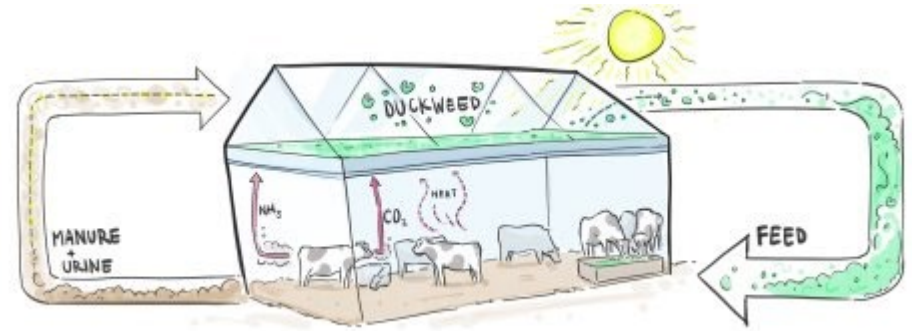
- Academic Consultancy Training

- Organizations' questions
- Students from entire WUR

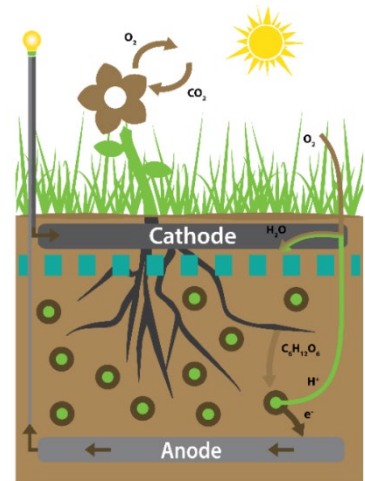


MSc tracks

- Biobased Chemistry and Technology



- Environmental Technology



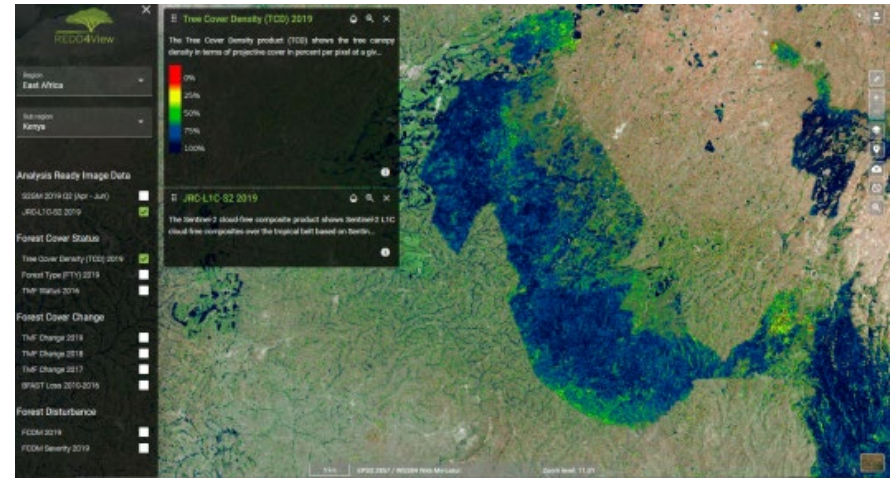
MSc tracks

- Farm Technology



MSc tracks

■ Geo-Information & Remote Sensing

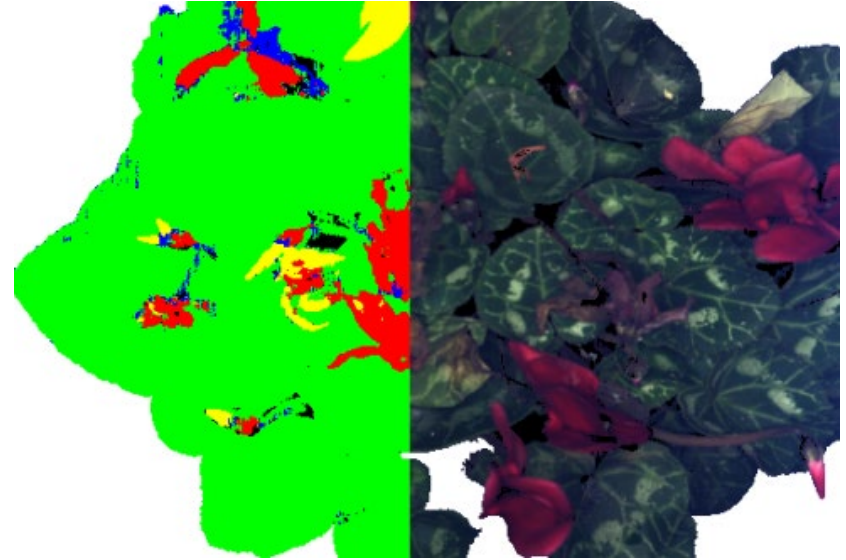


■ Information Technology

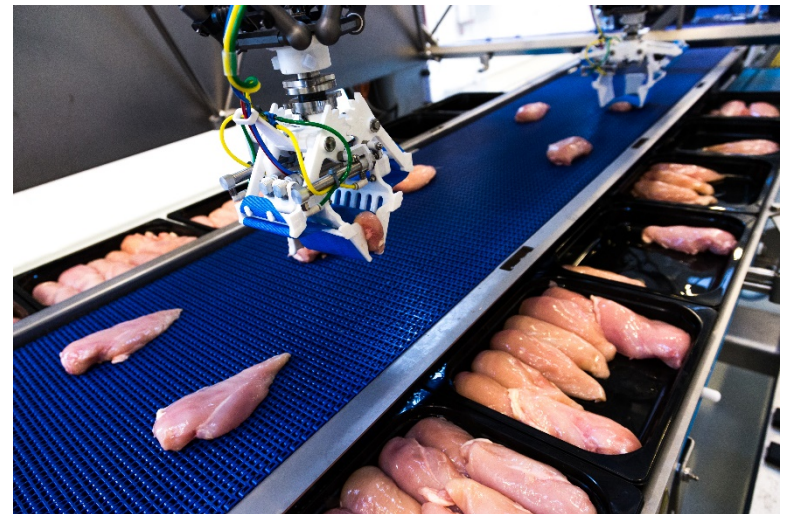


MSc tracks

- Mathematical & Statistical Methods



- Operations Research & Logistics



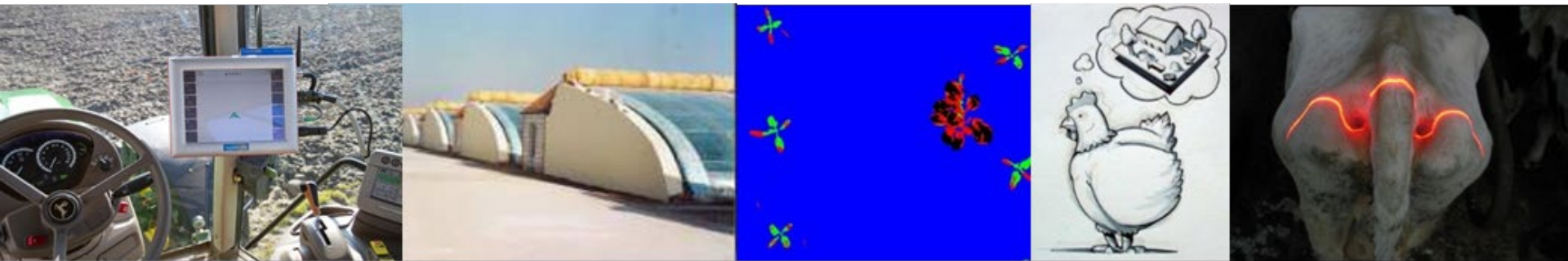
Entrepreneurial track

- Possible to combine with all other tracks
- Develop skills to create new products, services or processes, or stimulate existing organizations



Thesis

- 24 weeks (36 credits) of thesis research and report writing
- Thesis usually fits into on-going research
- Other research subjects can be discussed
- Interested? [Read more](#) about our students' experiences.



Academic Internship

- 16 weeks (24 credits) working outside the university
- Put knowledge and skills into practice
- Professional setting
- In the Netherlands or abroad



Future career Biosystems Engineer

- Diverse career prospects:
 - Product engineer
 - Systems engineer
 - Research and education
 - Entrepreneur
 - Consultant



Biosystems Engineering

What we do/are

- Technology
- Multidisciplinary approach
- Design & Innovation
- Living environment

What we don't/aren't

- Only technology
- Only biology
- Livestock farming
- Plant sciences

→ **Systems approach!**

Admission

- September and in February start possible
 - September start recommended
- Online application
 - For information: [WUR admission website](#)
 - Add **ALL** requested documents
 - Exception BSc certificate
- Admission Committee decides: yes, no, after a premaster

Admission requirements

- Relevant Bachelor degree
- GPA of 70%
- Average mark of at least 7.0
- Fluency in English
- Sufficient knowledge mathematics, physics, modeling
 - Dutch HAS students: Prepare during HBO & linkage programme
 - Other HBO and BSc-students possibly 15-30 credits linkage programme
- Engineering content in bachelor programme: at least 60 credits
- Experience with agricultural engineering or environmental engineering subjects is an advantage



English

- All master courses are given in English
- All applicants must provide recent evidence of their spoken and written command of English.
 - English language proficiency (non-EU)
 - English language proficiency (EU)

Experiences

- Student presentations
- Break out rooms
 - Talk to current students or a study advisor
 - Switch freely between rooms



Thank you for your attention

Any questions left? Contact us via email:

Study advisers:

- Randy Möwes
- Gerard Straver



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