# Let's plAIy! – Object Detection in Snap! NVIDIA Jetson | JetBot | Tello Drone

Rolf Becker | Harley Lara
Ali Farzizada | Ilgar Rasulov | Shreya Gupta

– Rhine-Waal University of Applied Sciences –

hsrw.eu | eolab.de | fablab.green

# Rhine-Waal University of Applied Sciences (hsrw.eu)

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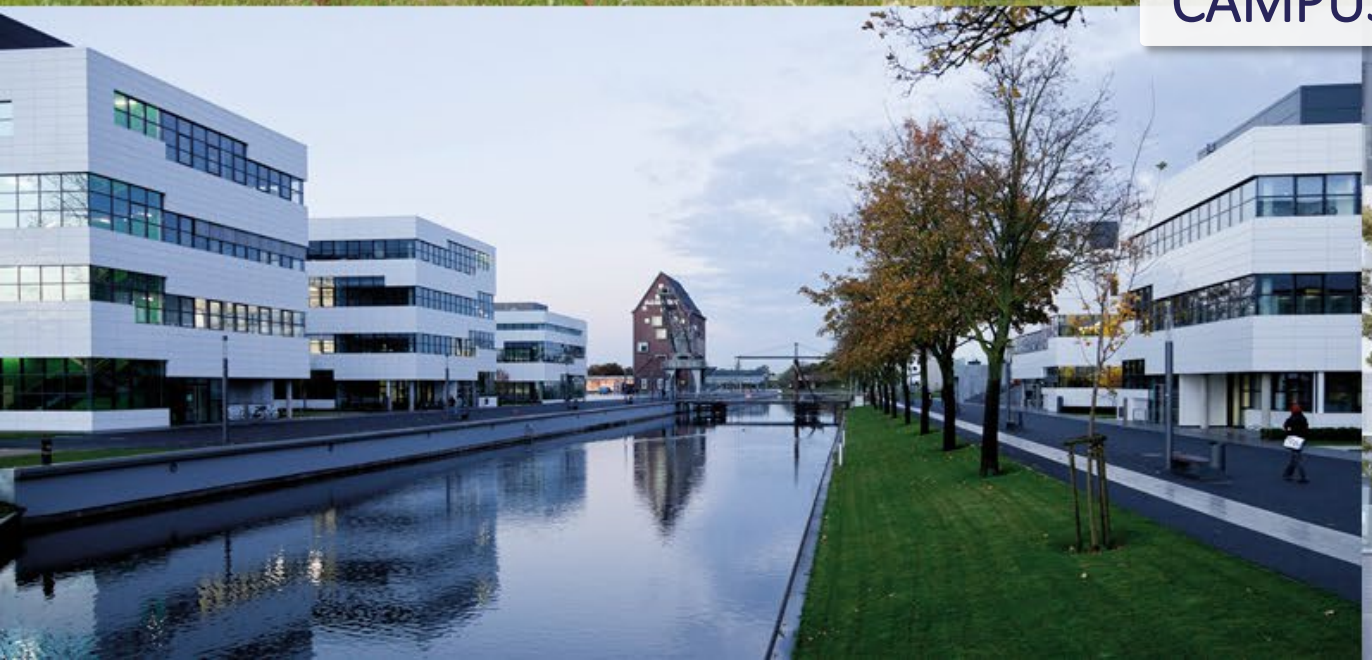
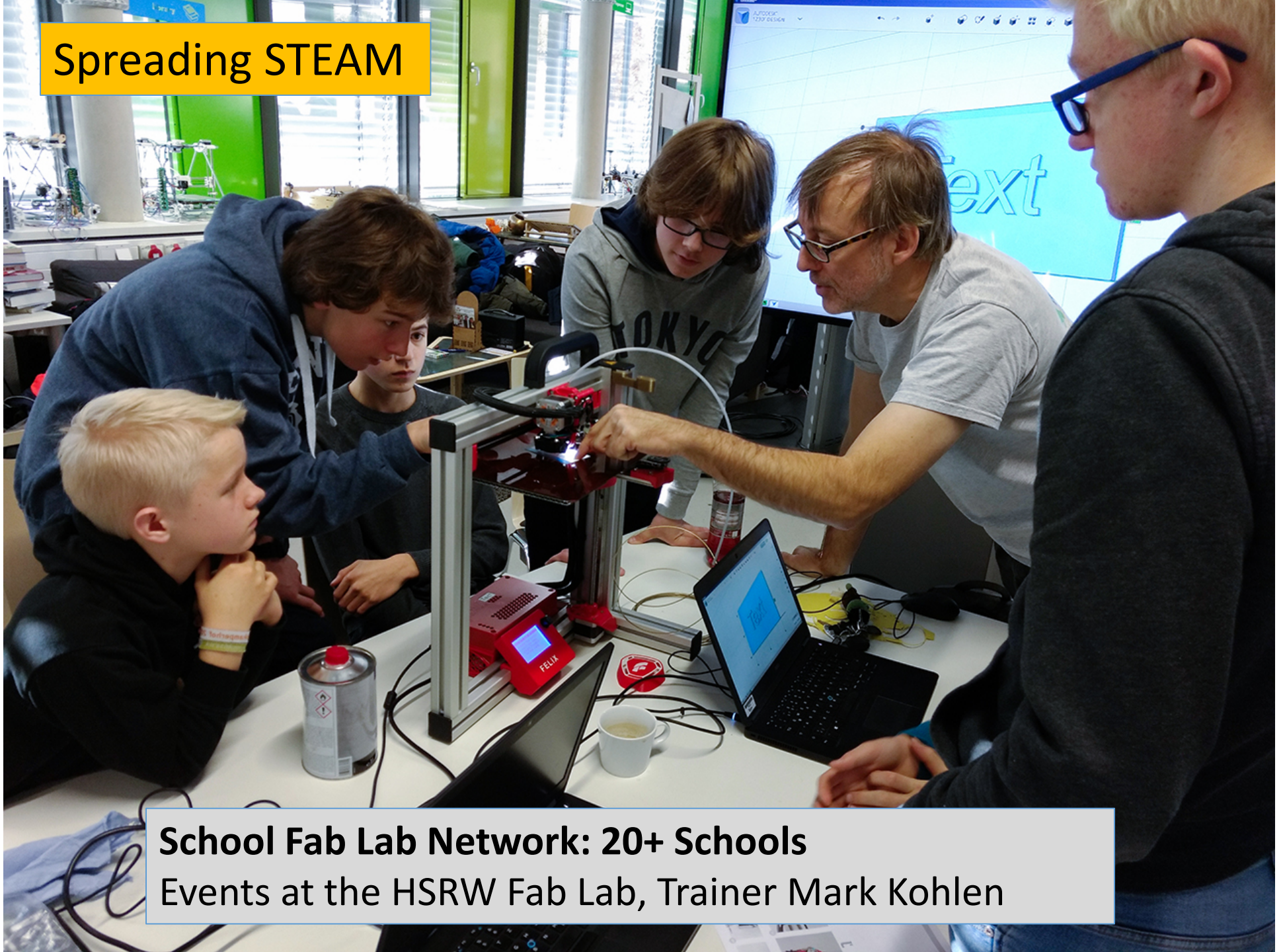
CAMPUS KLEVE



# Lower Rhine Region, close to the Netherlands

# Learning in an Inspiring Atmosphere

# Spreading STEAM




**School Fab Lab Network: 20+ Schools**

Events at the HSRW Fab Lab, Trainer Mark Kohlen

# Why Snap? Why AI?

- Motivating STEAM at schools
- Integrating Snap!
  in our School Fab Lab network
- Crossover between CS
  and life sciences (e.g. ecology)
- AI for the common good

- Earth observation research
  (e.g. conservation, prec. farming)

Bird nest boxes with cams at the Green Fab Lab (HSRW)

Observing Birds (Gerhard@Pixabay)

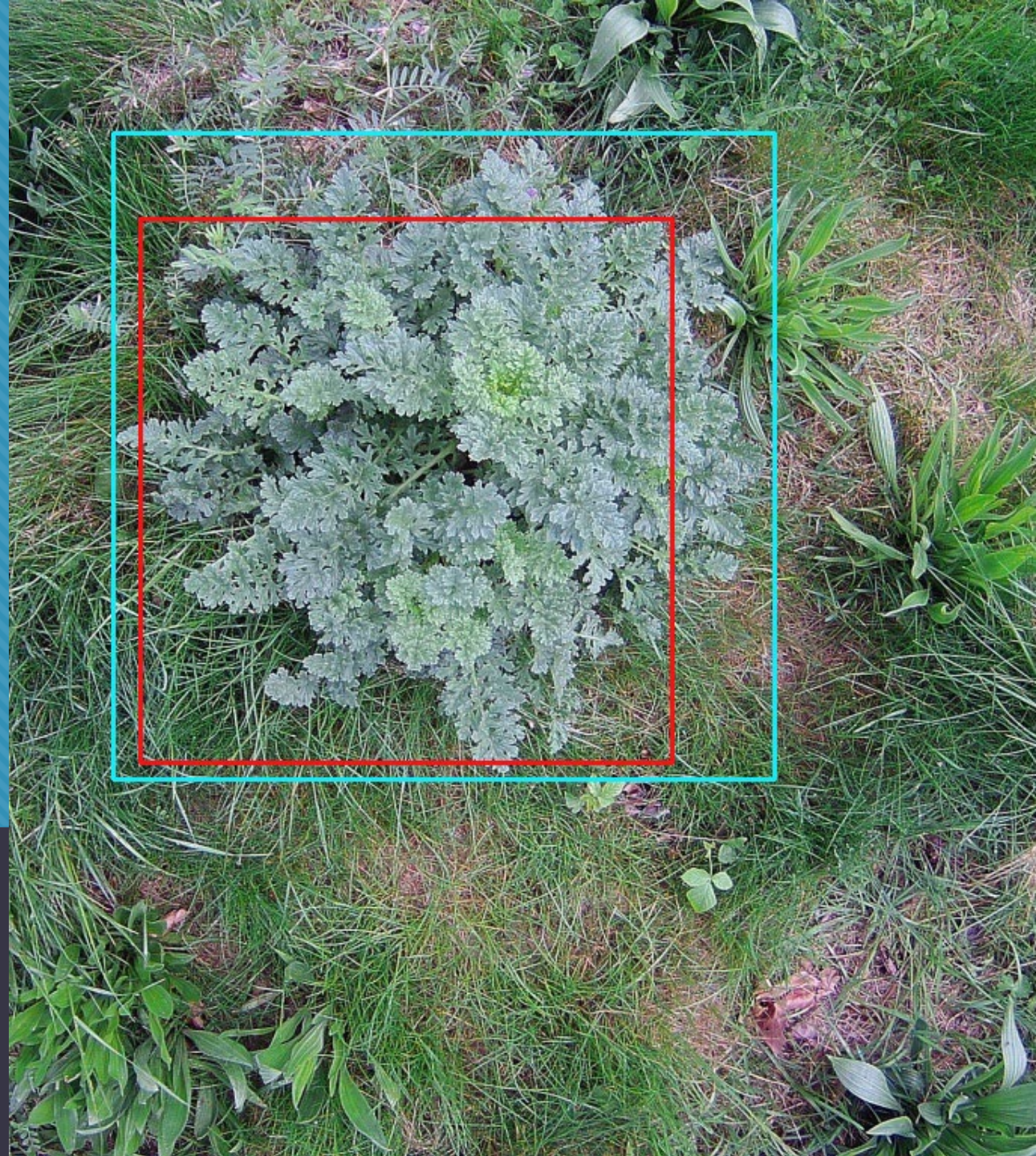
IoT : Internet of Things
Julien
Sophie
Alisha

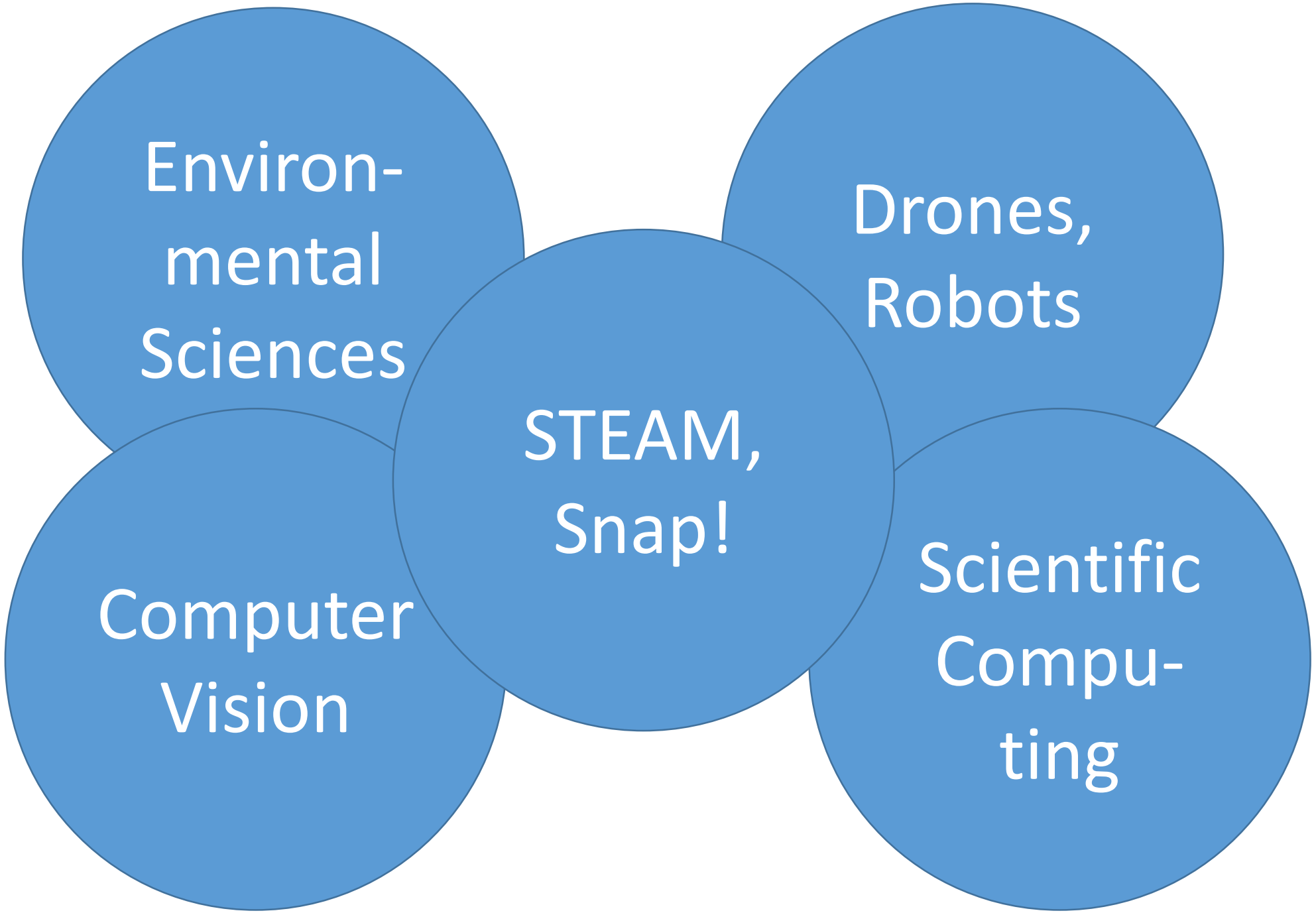
Paula
Paula

# Object Detection Based On Convolutional Neural Networks Of *Senecio jacobaea* For Weed Control

Bachelor Thesis by Jonas Zender (21125)

- 1st Supervisor: Prof. Dr.-Ing. Rolf Becker
- 2nd Supervisor: Prof. Dr. Daniela Lud




Environ-
mental
Sciences
Drones,
Robots
STEAM,
Snap!
Computer
Vision
Scientific
Compu-
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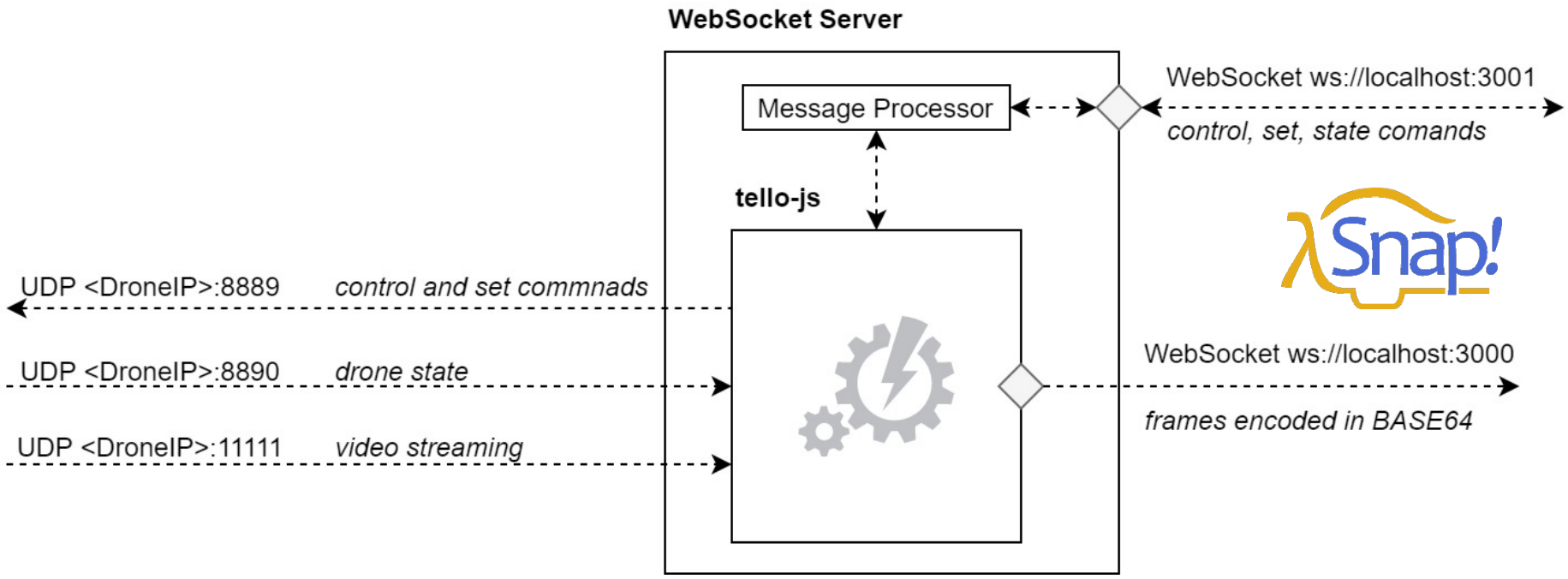
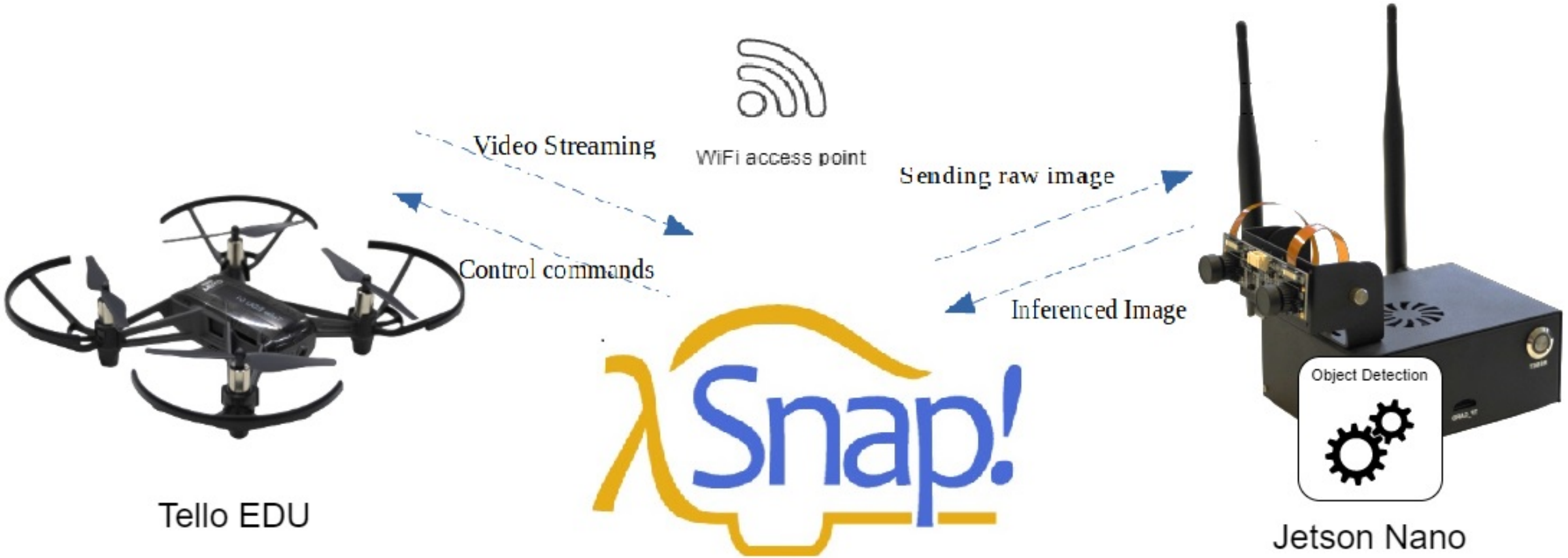
# Demonstration 1: Snap! & Tello

# Websocket Server „tello-js“



# Demonstration 2: Snap! & JetBot (NVIDIA Jetson AI)

# Demonstration 3: Snap! & Tello & Jetson



# Let‘s plAIy! – Workshop at Snap!Con 2022

https://www.snapcon.org/conferences/2022/program/proposals/512