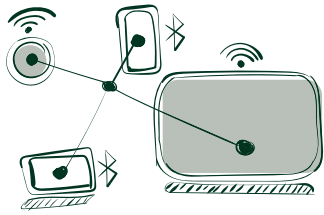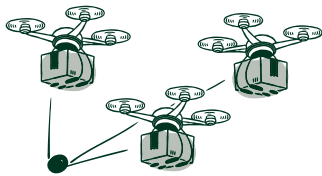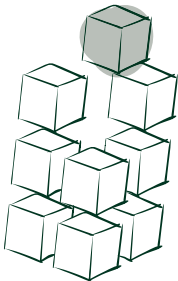# Digital, Industry and Space

We are looking to collaborate in projects around the following topics:

1. Distributed Sensor Networks; through our subsidiary Crownstone and several leading R&D projects we have gained deep understanding into all aspects of distributed sensor networks. The hardware and software, the intelligence to use the readings and all aspects of networking and distribution of the necessary calculations. Applications in care, home, office and industry setting have been tested successfully. We look to extend our knowledge in this area.

2. Collaborative Robotics; our interest in cooperative robotics started ten years ago and we have made significant advancements to swarm behavior and distributed control. Our current goal is to make robotics equally flexible as software engineering by massive application of simulation technologies. Our open designs and focus on open source makes us an easy partner to collaborate with.

3. Modular Artificial Intelligence; the focus in our artificial intelligence practice is on early applications of novel learning algorithms. Currently we see a lot of promise in imitation learning where the resulting small, stackable AI modules show promise in replacing large, hard to verify, neural networks. Currently we apply this to robotics, but we are interested in broadening that scope.

Collaboration

The table on the next page shows the concrete calls that we have identified within the Horizon Europe Framework Programma - Cluster Digital, Industry and Space, which match with our ideas. Beyond these, we are nonetheless open to other collaborations as well.

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CALL	TITLE	TOPICS
HORIZON-CL4-2022-DIGITAL-EMERGING-02-05	AI, Data and Robotics for Industry optimisation (including production and services) (AI, Data and Robotics Partnership) (IA)	1, 2. 3
HORIZON-CL4-2022-DIGITAL-EMERGING-02-06	Pushing the limit of physical intelligence and performance (RIA)	1, 3
HORIZON-CL4-2022-DIGITAL-EMERGING-02-07	Increased robotics capabilities demonstrated in key sectors (AI, Data and Robotics Partnership) (IA)	1, 2, 3
HORIZON-CL4-2022-HUMAN-02-01	AI for human empowerment (AI, Data and Robotics Partnership) (RIA)	1, 2, 3