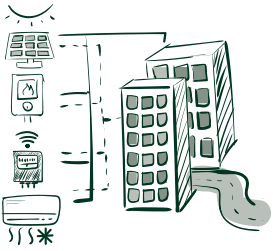# Climate, Energy and Mobility

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

1. Demand Response Architectures for Energy; Almende's interest in demand response is fueled by our deep research into self organization in all aspects of society and our keen use of the appropriate technologies. Our expertise lies in building level demand response hardware combined with multilevel architectures for short-term demand prediction.
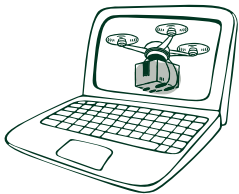
2. Collaborative Robotics and Simulation; our interest in cooperative robotics started ten years ago and we have made significant advancements to swarm behavior and distributed control. Our current goal is to make robotics equally flexible as software engineering by massive application of simulation technologies. Our open designs and focus on open source makes us an easy partner to collaborate with.
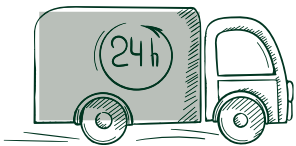
3. Demand-Driven Logistics; the concept of supply driven chains is extremely outdated and causes all kinds of problems in current logistics chains. We believe that the future of logistics is in demand driven chains - once that concept takes hold in logistics issues like pricing and multi modal trips become a lot easier to model and predict. We are interested in projects that can push this concept further.

Collaboration

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

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CALL	TITLE	TOPICS
HORIZON-CL5-2022-D3-02-01	Digital solutions for defining synergies in international renewable energy value chains	1
HORIZON-CL5-2022-D4-01-01	Demand response in energy-efficient residential buildings	1
HORIZON-CL5-2022-D4-01-02	Renewable-intensive, energy positive homes	1
HORIZON-CL5-2022-D4-01-03	Smarter buildings for better energy performance	1
HORIZON-CL5-2022-D4-02-02	Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)	1
HORIZON-CL5-2022-D4-02-03	Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Built4People)	1
HORIZON-CL5-2022-D4-02-04	Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	1
HORIZON-CL5-2022-D4-02-05	More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)	1
HORIZON-CL5-2022-D6-02-01	Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	3
HORIZON-CL5-2022-D6-02-02	Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	3
HORIZON-CL5-2022-D6-02-03	Smart enforcement for resilient, sustainable and more efficient transport operations	3
HORIZON-CL5-2022-D6-02-05	Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	2, 3
HORIZON-CL5-2022-D6-02-06	Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure	1, 3