

## **Periodā 01.10.2022. - 31.10.2022.**

Pārskata periodā tika saskaņots galējais dizains un ārpakalpojumi piegādāja noslēdzošos mehāniskos un elektroniskos materiālus. Kad no ražotāja pienāca pirmā jauno tīrīšanas mašīnu partija, sākās modernizācijas process. Šajā laika posmā kopumā tika aprīkoti 6 roboti.

Divi zinātniskie raksti tika publicēti Q1 žurnālā:

- "Leveraging Expert Demonstration Features for Deep Reinforcement Learning in Floor Cleaning Robot Navigation" publicēts MDPI žurnālā "Sensors" <https://www.mdpi.com/1424-8220/22/20/7750>

un

- "A Divide and Conquer Strategy for Sweeping Coverage Path Planning", publicēts MDPI žurnālā "Energies" <https://www.mdpi.com/1996-1073/15/21/7898>.

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During the reporting period, the final design of this iteration of electronic and mechanical components was agreed with the outsource partners and the components were delivered. As the first batch of new machines arrived from the manufacturer the retrofitting process started. A total of 6 robots were retrofitted during this period.

Two additional scientific papers were published in Q1 journal:

- "Leveraging Expert Demonstration Features for Deep Reinforcement Learning in Floor Cleaning Robot Navigation" published in the MDPI journal Sensors <https://www.mdpi.com/1424-8220/22/20/7750>

and

- "A Divide and Conquer Strategy for Sweeping Coverage Path Planning", published in the MDPI journal Energies <https://www.mdpi.com/1996-1073/15/21/7898>.