

# CLEANING BOT CHALLENGE

presented by  
Ahold Delhaize & AIRLab

Ahold Delhaize's AI for Retail (AIR) Lab Delft is globally challenging smart startups, scale-ups and other technical virtuosos for a robotic autonomous store cleaning solution.

The goal of the challenge is to find a technological partner that is able to build the best solution. Once a winner is selected, a potential partnership with one of the worlds leading retailers is just around the corner!



This challenge is one of the results of our aspiration to create Ahold Delhaize's Store of the Future, enabled by groundbreaking tech and bright minds! We want to help our in-store colleagues with keeping the store clean and hygienic to ensure a wonderful and safe shopping experience for our customers. Therefore, we are looking for a smart robotic solution suited for our larger retail stores.

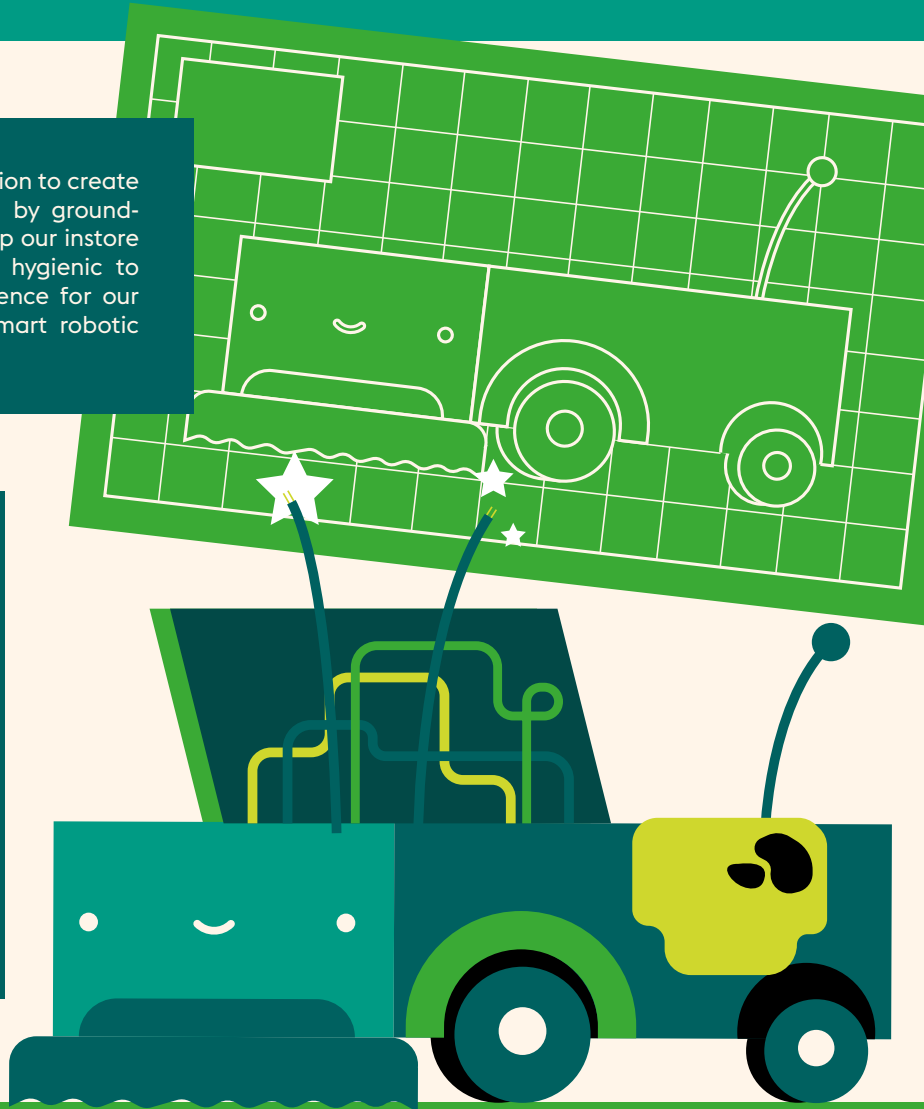


## Challenge related requirements:

Working prototype to showcase within 3-6 months in The Netherlands.

We offer to run a pilot in combination with Ahold Delhaize's AI for Retail (AIR) Lab Delft, and potentially other start-up and scale-ups if required.

If the pilot is successful the solution could be implemented in Ahold Delhaize's larger stores all over the whole world starting with 60 large stores in the Netherlands.



## Timeline 2020:

19  
MAY

Start active scouting

7  
JULY

Deadline applications

10  
JULY

Pre-scan selection scouting

21  
JULY

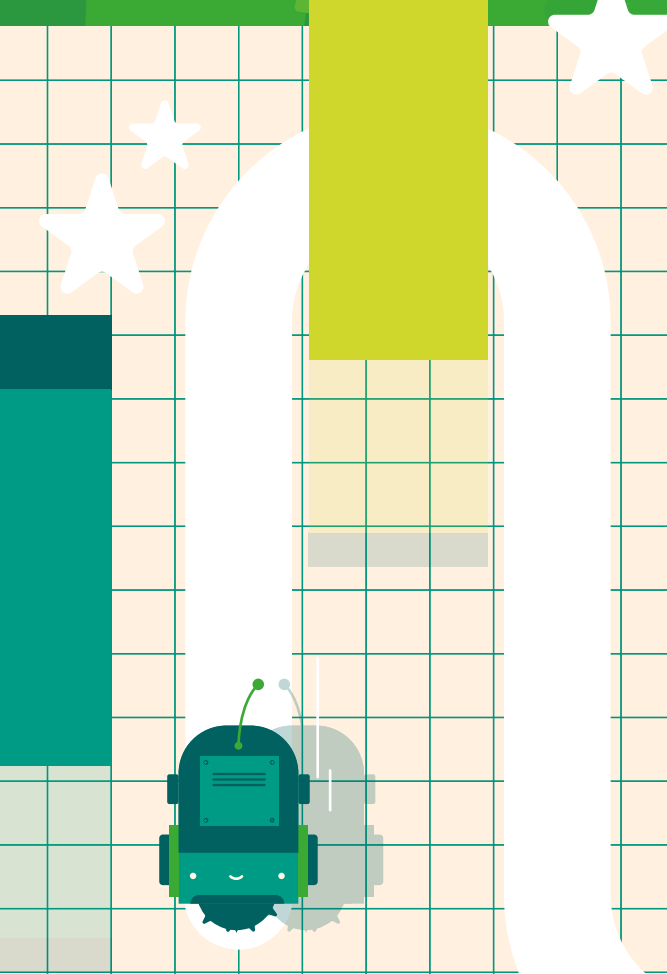
Selection day

11  
AUGUST

Digital pitch training

13  
AUGUST

Digital finals day



## Technical requirements:

Autonomous robotic solution (single or fleet)

Fast cleaning (at least below 2 hours per 3000m2 store) mopping and suck up moist

Machine needs to clean tightly next to shelve racks and dynamic store elements

AI empowered capabilities such as: store mapping and robust navigation in dynamic store environment are a must have

The solution should result in a cost reduction

Inherently safe in operation with people

Easy to operate

Cyber Secure protocols need to be in place

Excellent mobility on both ceramic and PVC floors

Low intensity maintenance (deterge liquid, cleaning machine, charging)



## What to win..!

In case of successful pilot: a global customer and implementation is expected! Costs after competition fully covered including development.

The finalists will pilot their prototype(s) as soon as possible. Preferably within 3 months.

Professional support in setting up pilots between the finalists and Ahold Delhaize.



For the full briefing or to sign up go to [www.yesdelft.com/cleaningbotchallenge](http://www.yesdelft.com/cleaningbotchallenge)

