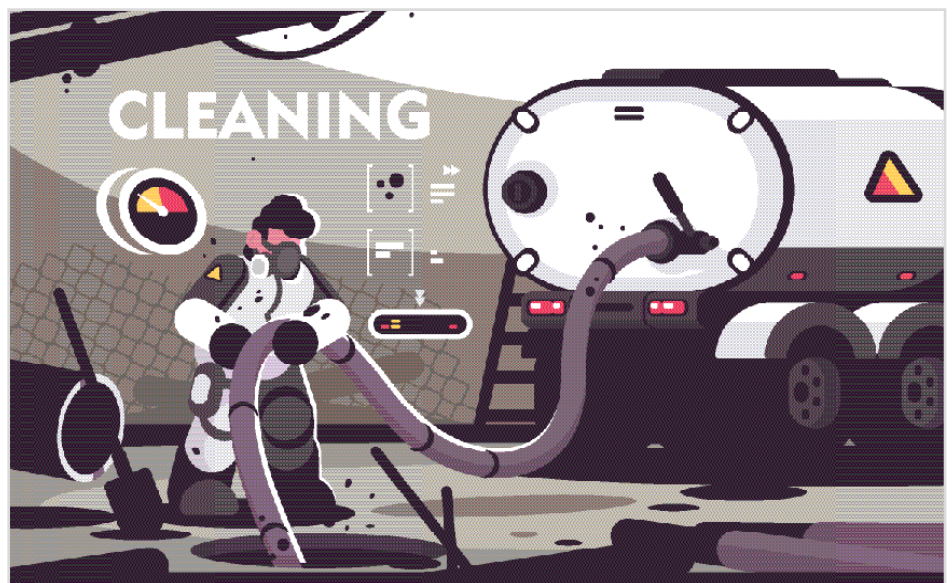
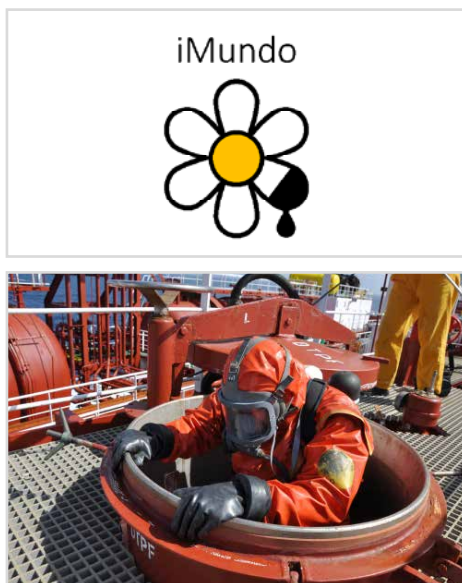


Digital Industry iMundo



STARTUP CREATION: IMUNDO BV (THE NETHERLANDS)
PARTNERS: Nobleo (The Netherlands), UPM (Spain)



Bringing autonomy to tank cleaning

iMundo provides an add-on module for existing remotely operated cleaning and inspection vehicles for the process industry to deliver insight in the surrounding and travelled path. The autonomous operation is an add-on that can be used on this same sensor package.

Oil-tank cleaning is usually done by remotely operated vehicles due to the harmful chemical fumes. Unfortunately, these remotely operated vehicles get stuck or it is not visible from outside the tank if the cleaning was successful. In these cases, the operator will have to enter the tank with all the risks of fatal exposures.

iMundo provides an add-on module for existing remotely operated cleaning

and inspection vehicles that are in use in the process industry. These tools are now difficult to operate in the dirty and dark environments. iMundo will take away this problem by offering an add-on software and sensor package that will provide an internal overview of the environment and travel history inside the tank. The autonomous operation is an add-on that can be used on this same sensor package.

Competitive Advantages

The proposition of iMundo solves an industry pain that is now not addressed. With respect to the remotely operated tools that are now available, this proposition offers:

- Internal overview of the location of the tool in the tank
- Showing the traveled path inside the tank, making it possible to backtrack in case of stuck hoses.
- Reporting on the covered area, ensuring a properly cleaned tank.

Target Markets

- Cleaning of the oil tank floor (heavy sludge)
- Cleaning of the tank walls (lighter oil and contaminated corrosion)
- Inspection of tank floor plates
- Inspection of tank walls
- Cleaning of ship hulls

Status/ Traction

- iMundo has one running pilot project (paid) and one pilot under negotiation (also paid).

Road Map

- The Localization sensor package will be a good starting point to explore the added value of full autonomy for oil tank cleaning. Because of the fixed market for oil tank cleaning and inspection, the aim is to extend the technology to other industrial cleaning application.

Leveraged Technologies

- Sensor fusion
- Autonomous systems
- Artificial Intelligence
- Computer vision

Contact



Rik Kruidhof

e: rik.kruidhof@nobleo.nl

t: +31 6 1305 0611

Nobleo Autonomous Systems BV
Heggeranklaan 1 | 5643BP
Eindhoven | The Netherlands

iMundo



www.imundo.eu

iMundo BV is an innovation activity proudly supported by EIT Digital.

EIT Digital supports entrepreneurial teams from research and business organisations in launching new startups and new products in agile 12-month projects called innovation activities. These activities are embedded in EIT Digital's European ecosystem and receive a financial co-investment to package their technology, sign up customers and attract investors.