



Poland
www.bine.world
Founded in 2016
Employees: 12

Field of Activity:
Environment

Investments received:
1.4 M EUR
Investment need:
1 M EUR (2.2 M EUR secured)

Watch the 3min
pitch

Company Description

World's first AI-based smart waste bin that recognizes and sorts the waste automatically

Problem

The accuracy of manual waste sorting is only 30%. It's a result of unfavourable mindsets towards recycling, confusing recycling guidelines and lack of knowledge how to sort the waste correctly. Another issue is the unmodernized waste management process which is based on fixed schedules or experience of the staff instead of actual data. This lack of optimization costs companies a lot of time, money and effort.

Solution

Bin-e sorts and compresses the waste automatically, controls the fill level and processes data for convenient waste management. The smart waste bin recognizes the type of waste thanks to an AI-based recognition system with an accuracy of over 91% and sorts it to the relevant chamber. Plastics and papers are compressed to decrease the volume. The collection service gets notified automatically when one of the bins inside is full. Each device can be easily managed via an app that shows the fill level of each bin, real-time data and summary statistics. An integrated IoT-Platform provides valuable insights into waste management operations that can be used to optimize collection routes, and save costs, time and labour of waste disposal.

Market

Wersja 1: Bin-e is positioned in a market space at the intersection of two market segments: the waste management market and facility management market.

- **Global waste management market:** a mature market, experiencing constant growth. The total market value was estimated at €294B (\$303.6B) in 2017 and is expected to reach (\$484.9B) by 2025, growing at a CAGR of 6.0%
- **Smart waste management market:** a fast-growing segment of the waste management market. Its value was estimated at €1.26 B in 2018.
- **Facility management market:** was estimated to be worth €1.04T (\$1.15T) in 2017, As much as 50.5% (€525B) of the FM market is the outsourced services, where private FM companies can flourish, of which Integrated FM (IFM) services constitute 11.5% (€60.4B).

Business Model

The main business model is based on hardware subscription. The company offers flexible subscription plans and a wide range of additional packages in order to meet the customers needs. The solution is scaled internationally through a network of distributors.

USP & Differentiation

Bin-e is the only smart waste management solution worldwide that features: automatic recognition and sorting, compression, fill level control and data processing. Other companies offer only partial solutions, none of them is as comprehensive, automated, accurate and customizable as Bin-e.

Startups Profile

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Cyber Surgery

the next step in high precision Robotic surgery