



GARDATECH

Smart Control for Cooking Appliances



The Problem

Energy saving, cooking efficiency and cooking quality are critical elements for cooking appliances and manufacturers are constantly looking for new ways to improve them



The solution

Garda's Smart Knobs*

- ✓ Smart controlled knob save energy and food waste while improving the food quality.
- ✓ Display real-time cooking temperature and flame timer.

* Patent pending



The Technology



Thermal/visible camera positioned above the cooking tool, looks over the cooking process.



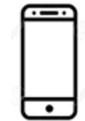
AI applied on the images allows to monitor the cooking process and assess the temperature profile dynamics.



AI's controlled CPU send commands to a smart knob to regulate the gas/electric flow in order to keep the right temperature profile.



"Start-Stop" System managed by the smart knob saves energy and reduce food waste due to bad cooking.



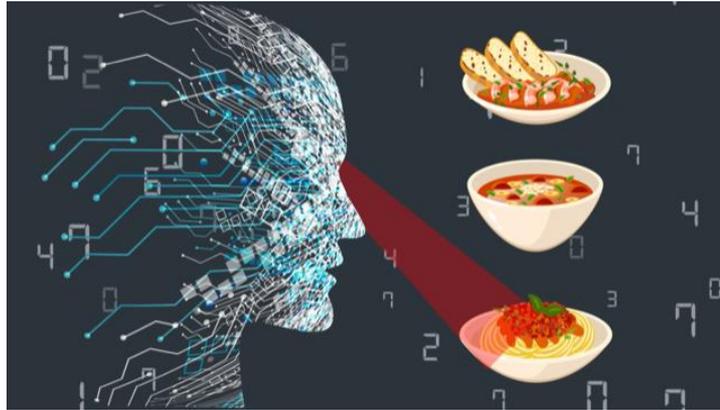
Smart knob alerts the user of various cooking parameters & smart App driven by the CPU can send data to a remote user.





Garda's Algorithm - AI

Utilize image processing and artificial intelligent to perform smart decision for cooking optimization based on **Temperature, Visibility** and **Time** profile.



Potential Saving



25%-35% Energy



15%-25% Food Waste



Global Target Available Market

The global market for commercial kitchen appliances is valued at **US\$80B** in 2019 and expected to reach **US\$132B** by 2027, expanding at a CAGR of 6.7% from 2020 to 2027

Cookers, Ranges and Fryers are 35% of this market. Assuming Smart Knob technology is valued at 5% of the overall tool price, its TAM is **US\$1.4B** in 2019, and growing to **US\$2.3B** by 2027



Competitors

- ioLiving - Smart Kitchen - IoT and SW solutions for monitoring professional kitchens.
- Excelion – connected kitchen solutions.
- Powerhouse Dynamics - IoT for the Food Service industry – acquired by Middleby Corp in 2019.

Production Cost

- Cost for 1 CPU– 60\$
- Cost for 1 camera – 80\$
- Cost per Knob – 50\$
- Cost per knob in large volume – 30-50\$

Cost for basic package – 340\$

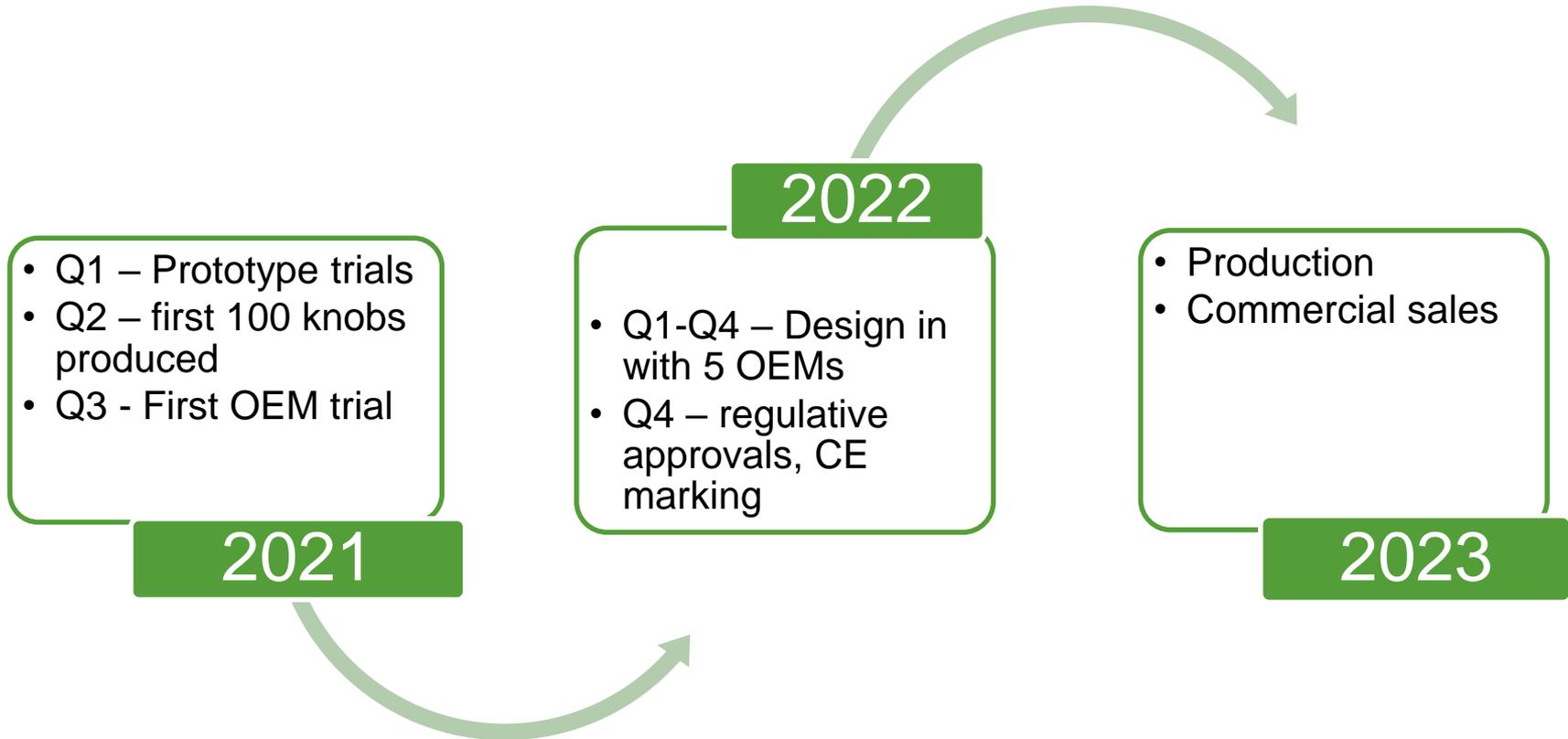
- 1 CPU– 60\$
- 1 camera – 80\$
- 4 Knobs – 200\$

Go To Market Strategy

Garda intends to work with the large OEMs for cooking appliances and upgrade their tools with its smart knob technology

Garda strategy is that all new appliances from 2024 and onward will include its smart knob technology

Planning ahead



GARDATECH

THE TEAM



Adi Ben-Dan
Advisory Board
& Shareholder

More than 25 years of experience in the Restaurants industry.

Senior culinary advisor, Culinary events producer, Food industry entrepreneur and Food Business lecturer in the Israeli Academy.



Sagie Tsadka
CO-Founder

30 years of experience in the Israeli and international industry of optics and electro-optics.

Serial entrepreneur, Founder and executive of 5 startup companies, with 3 listed exists.

Talpiot 5 graduate.



Nati Farkash
CEO & CO-Founder

More than 13 year of experience in a variety of high-tech companies in the fields of Semiconductor, Green Energy, Digital Cosmetics and Digital Printing.

Experience in R&D, manufacturing and customer support.



Moty Bentolila
VP marketing
& CO-Founder

Mora than 15 year of experience in business development and management.

Experience in customers service, sales and marketing.



Udi Admati
Advisory Board
& shareholder

More than 20 years of experience in managing R&D, BD, marketing and operations, as well as CEO positions in various industrial companies.

Director and senior executive in multiple government owned and private industrial companies.



Thank You

For further details:

<https://garda-tech.com/>

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