

# Voice User Interface for All Environments

May 2022



# Innovative Voice User Interface (VUI) Technology For Noisy Environments

Established in Israel  
2019



17 employees, 3 PhDs,  
Experts in Edge computing



Secured ~US\$4M  
to date



Proprietary  
Technology



## Investors & Partners



## Traction



# Voice technology is Everywhere But it doesn't always understand you...

Voice technology simply doesn't work well in natural environments.

This leads to **frustration** and accordingly, to **low adoption rates...**

Infotainment Systems



Healthcare



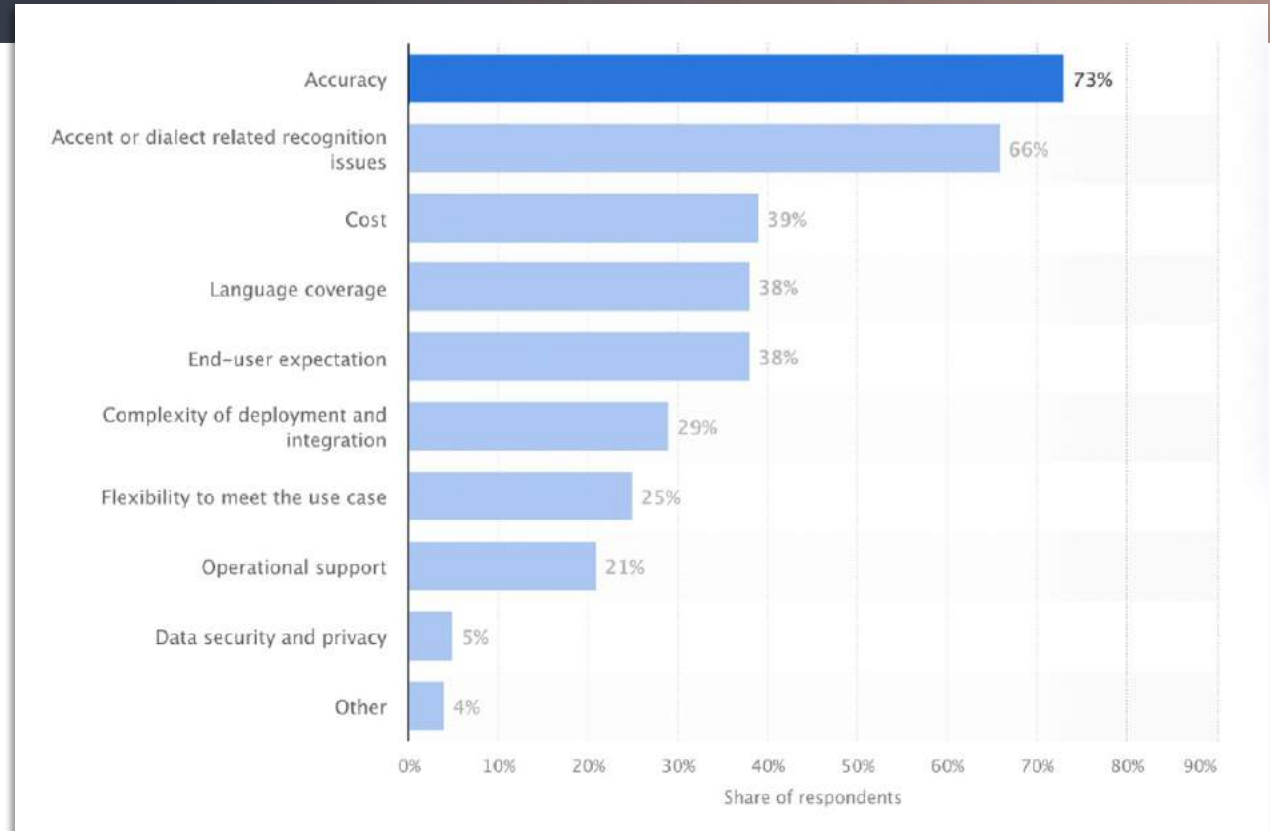
Interactive Kiosk



Consumer Electronics & IoT

# The Effect of Accuracy on Adoption

In a 2020 worldwide survey, **73%** of users said **Accuracy** was the **number one** factor inhibiting voice tech adoption

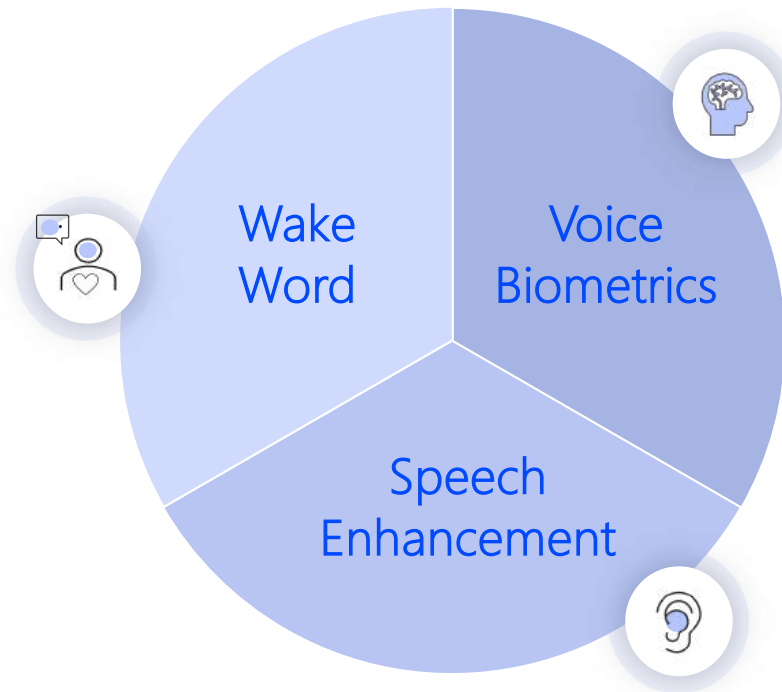


<https://www.statista.com/statistics/1134244/barriers-to-voice-technology-adoption-worldwide/>

# Kardome's technology

A Holistic VUI Software Suite for a Seamless Voice Interaction Experience

For a personalized & branded UX  
"Hey LG..."



For speaker's identification & authentication

Ensure a **seamless** and **accurate** voice interaction experience in any acoustical environment

# What we do different

We replace Beamforming we innovative "Source Separation" algorithms



Traditional Beamforming



# Applicable for a broad range of products across many verticals



Automotive (IVI)



Interactive Kiosk



Original



Kardome

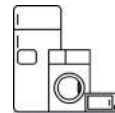
## Consumer Electronics



Smart Speakers



Smart TVs



Home Appliances



Gadgets & IoT



Smart home  
(ThinQ)

# Headset Test Setup

In the following demonstration we took for a global mega brand of headphones, we tested how Kardome's solution, integrated to the headset, eliminates background noises coming from a near by loudspeaker



Kardome Off

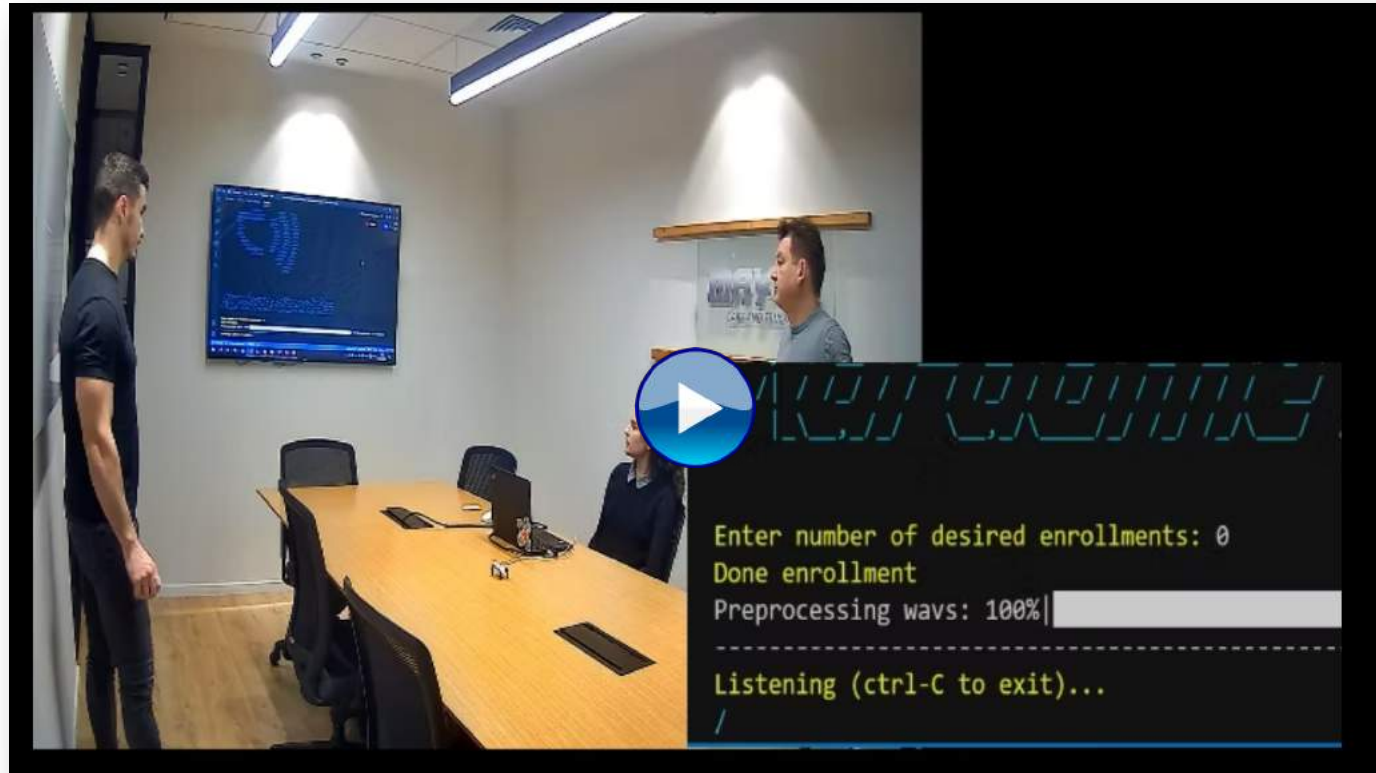


Kardome On





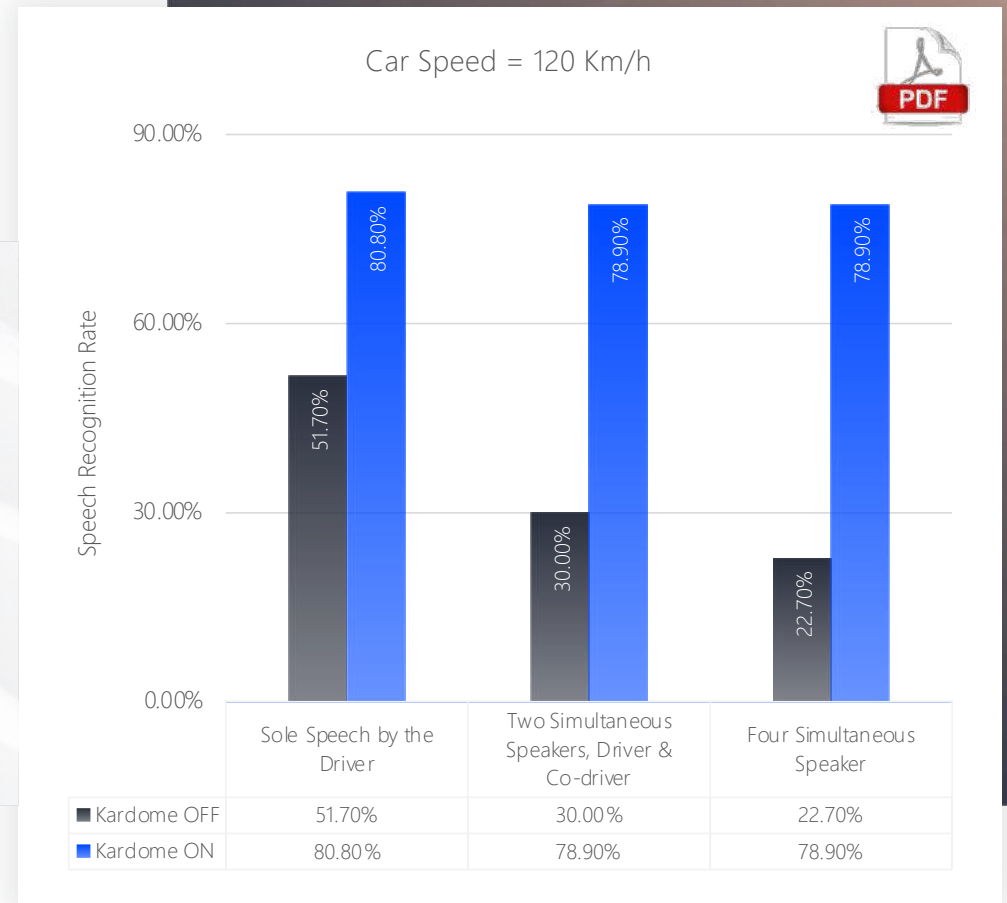
# Voice Identification Demo



# Performance Metrics in a Car

Evaluated by Head Acoustics  
(full report available in the link)

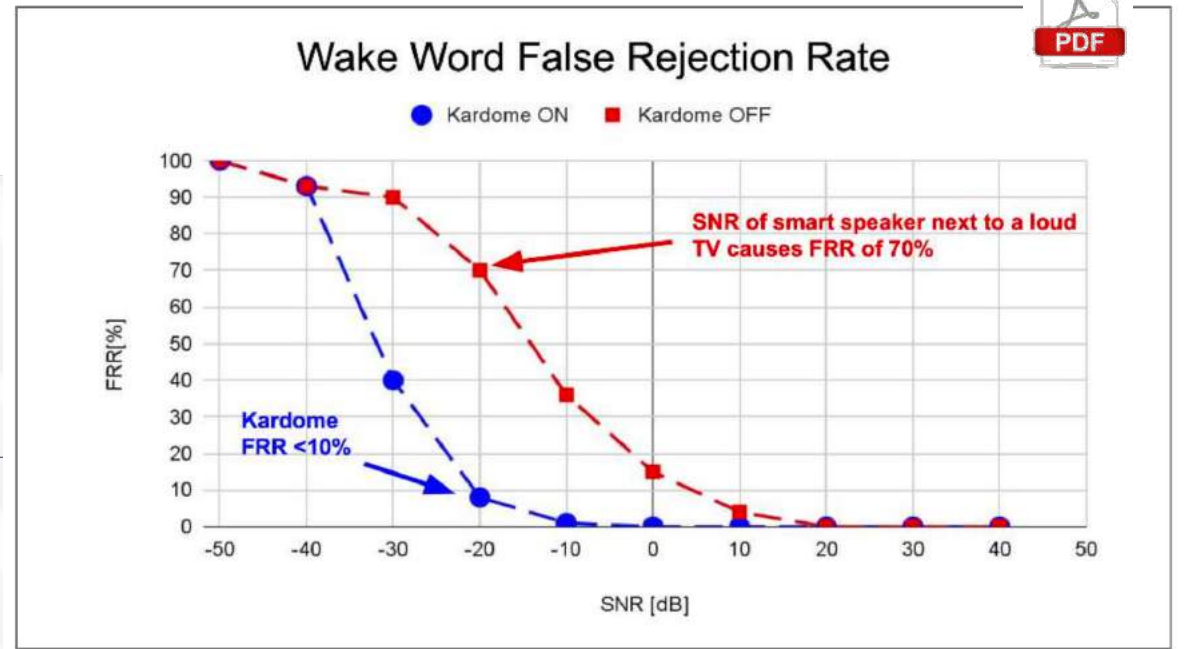
**Improved speech  
recognition and quality.**



# Performance Metrics in a Smart Speaker

Actual performance results  
(full report available in the link)

Improved speech  
recognition and Accuracy.



# Competitive Analysis



\*Biggest competitor  was acquired in 2021 by Microsoft in a deal valued \$19.7 B to serve as azure hectare voice services

# Our experience in VOICE field is unparalleled



**Dr. Dani Cherkassky,**  
Co-Founder & CEO

- PhD in Speech AI
- CTO Silentium
- Led Silentium Quiet Bubble development and market introduction



**Dr. Alon Slapak,**  
Co-Founder & VP R&D

- PhD in Signal Processing
- Co-Founder RodRadar,
- VP R&D Silentium
- Assoc. Prof. head of Signal processing track at Afeka College



**Ohad Shemen Ariely,**  
VP Biz. Dev

- LLB, MBA Tel Aviv University
- Director of Markets & Biz. Dev at Rewire.
- Business strategy consultant at EY



**Daniel Shefer,**  
VP North America

- Head of Biz. Dev at Hippo Insurance
- Biz. Dev roles at SoFi SanDisk and others
- Advisor to multiple startups



**Nadav Gur,**  
Strategic Advisor

- CEO Desti (Nokia),
- CEO WorldMate (CWT),
- SVP AI at German Autolabs,
- EiR at SRI Ventures



PhDs, experts in embedded SW and edge computing

# THANK YOU



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