

TEAM

- 3 AI masters and doctoral students (RTU, VeA)
- 2 National and international coding competition winners
- 2 Design, UX and branding people (Asketic, TechChill)
- Raised 0.5mil EUR investment



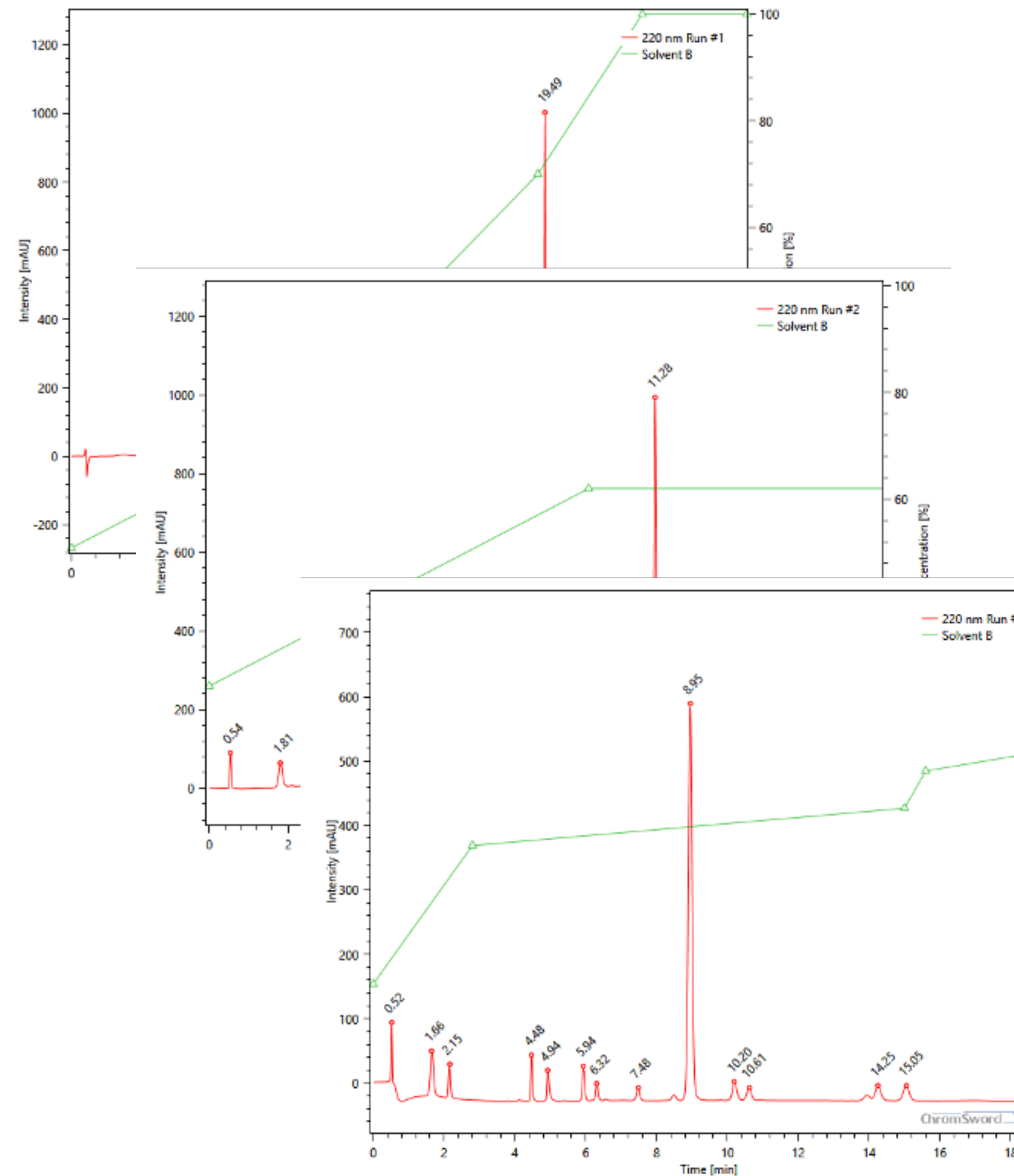
PROJECT #1

SOLVENT GRADIENT OPTIMIZATION

AI models for finding solvent gradient to separate compounds in chromatography for analytical chemistry and mass spectrometry.

Automatically executes experiments to reduce human resources from 2 weeks to 2 hours and achieve high quality separation for unknown substances.

Partner: <http://www.chromsword.com>



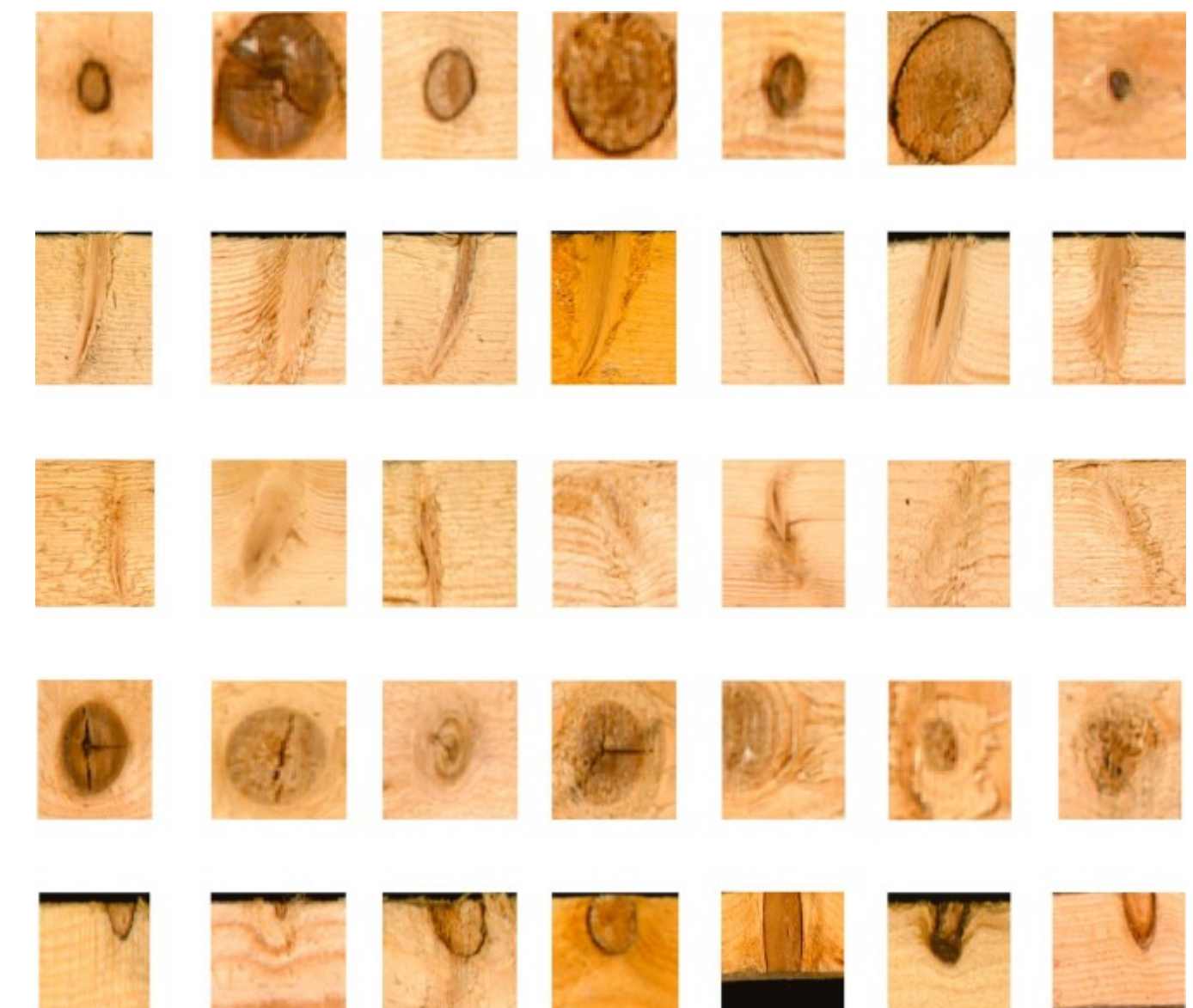
PROJECT #2

DETECTION OF DEFECTS IN WOODEN PLANKS

Successful project in collaboration with a medium size company to get high precision AI models for detecting defects in wooden planks to automatically plan cutting and manufacturing processes.

70-99% precision to various classes of damage

Partner: <http://www.zippyvision.com>



PROJECT #3

DETECTION OF DAMAGE FOR CARS

Successful project to segment different types of defects in cars using mobile phone after returning them to the rent and before re-selling.

Partner: www.scopetechnology.com



PROJECT #4

AUDIO AND VIDEO DENOISING

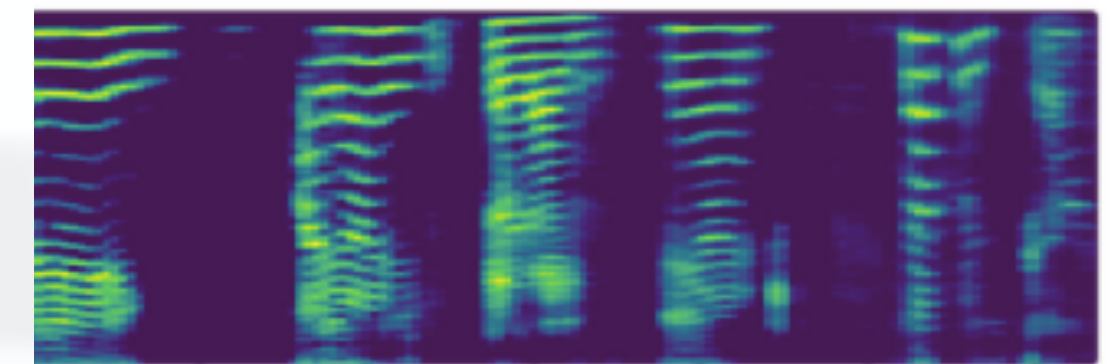
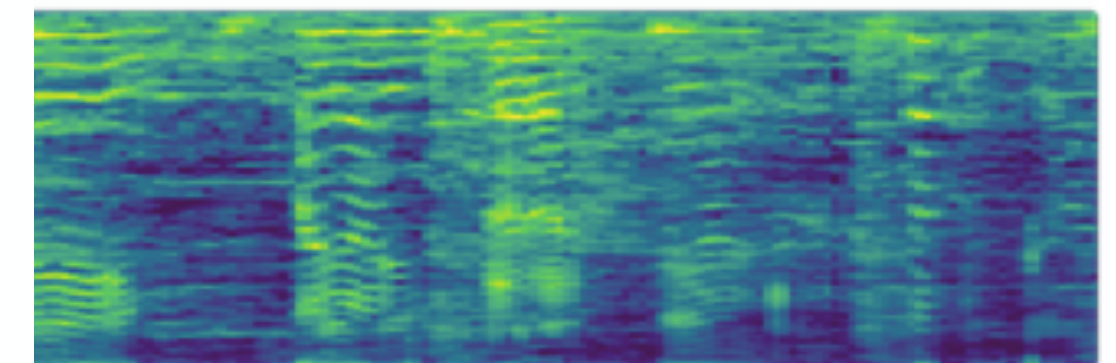
Currently working with one of the largest microphone manufacturers in the region to denoise audio signal in real time using deep learning models.

Models can remove noises like:

1. Sounds of speaker's feedback
2. Keyboard clicking
3. Traffic
4. Sounds of children in background
5. Other mechanical noises



Before (noisy audio)



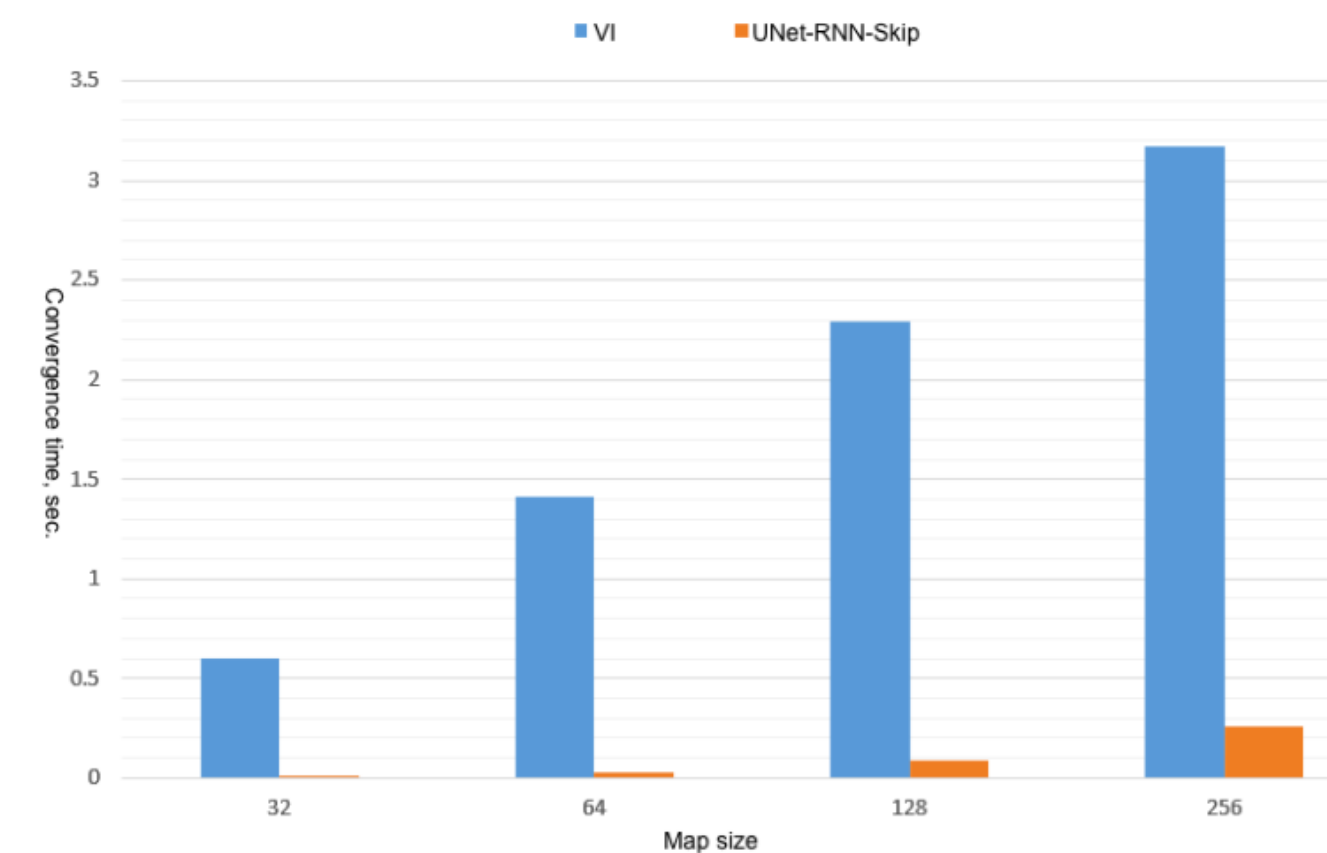
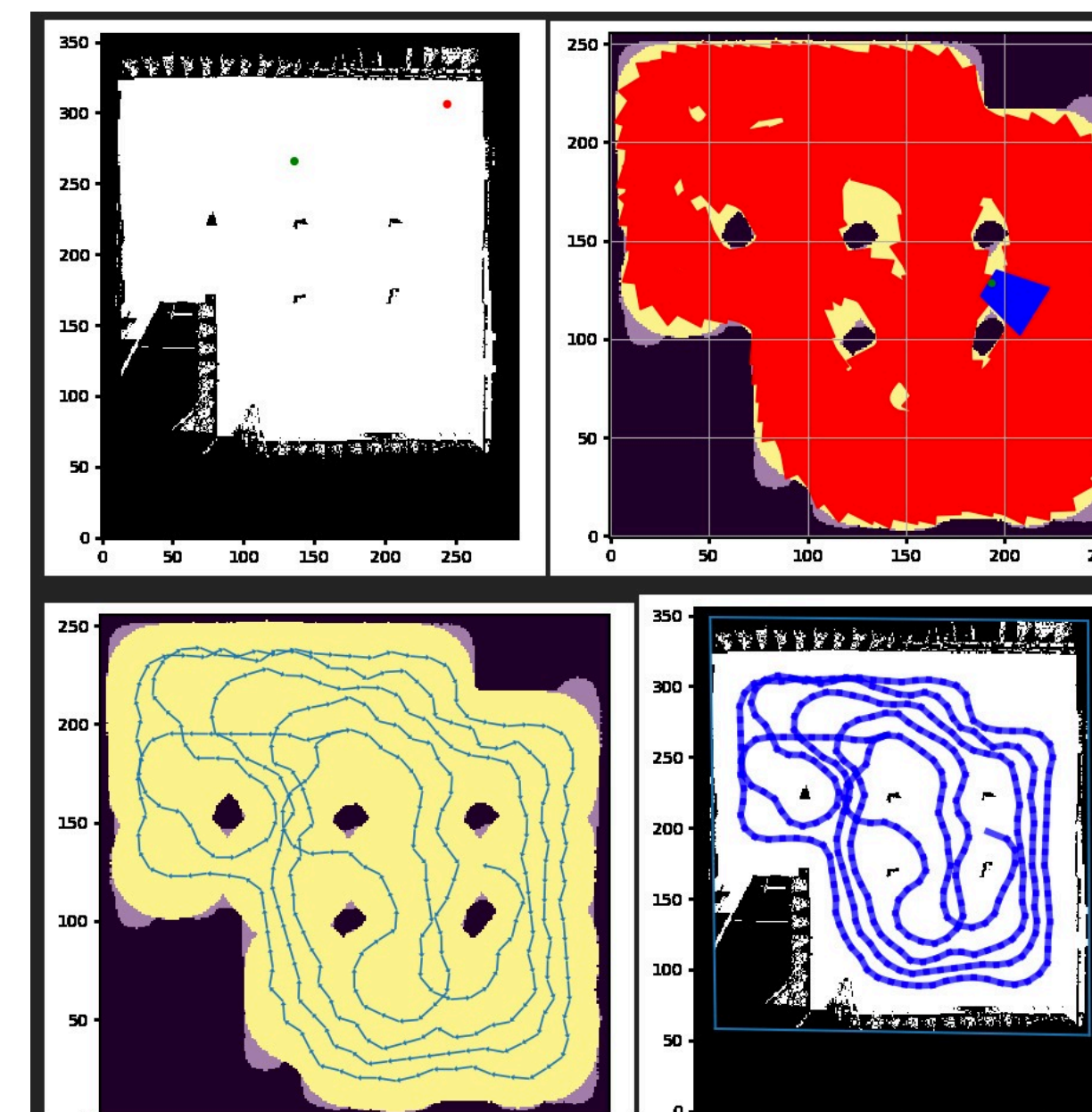
After (clean audio)

PROJECT #5

COVERAGE AND POLICY PLANNING FOR INDUSTRIAL CLEANING ROBOTS

Consulting companies and publishing original scientific papers on Deep Learning based policy models for cleaning robots.

Models can autonomously explore environment and do value based policy planning 10x faster than classical, non-deep learning algorithms.



Our original work, published ICoLAS 2020 (Singapore)

PROJECT #6, PITCHPATTERNS.COM VIDEO UN AUDIO ANALYTICS OF CALLS

System that analyses Zoom video calls, Genesys and Twilio audio calls. Currently working with multiple banks, client support companies and debt collector companies.

Functions:

1. What emotions does employee use to answer calls?
2. What is the stress level of employee?
3. What is the emotional state of an employee?
4. How much employee listens to a customer?
5. Verification (VoiceID, FaceID)

Results from clients using such system:



Improvement
in Close Rates



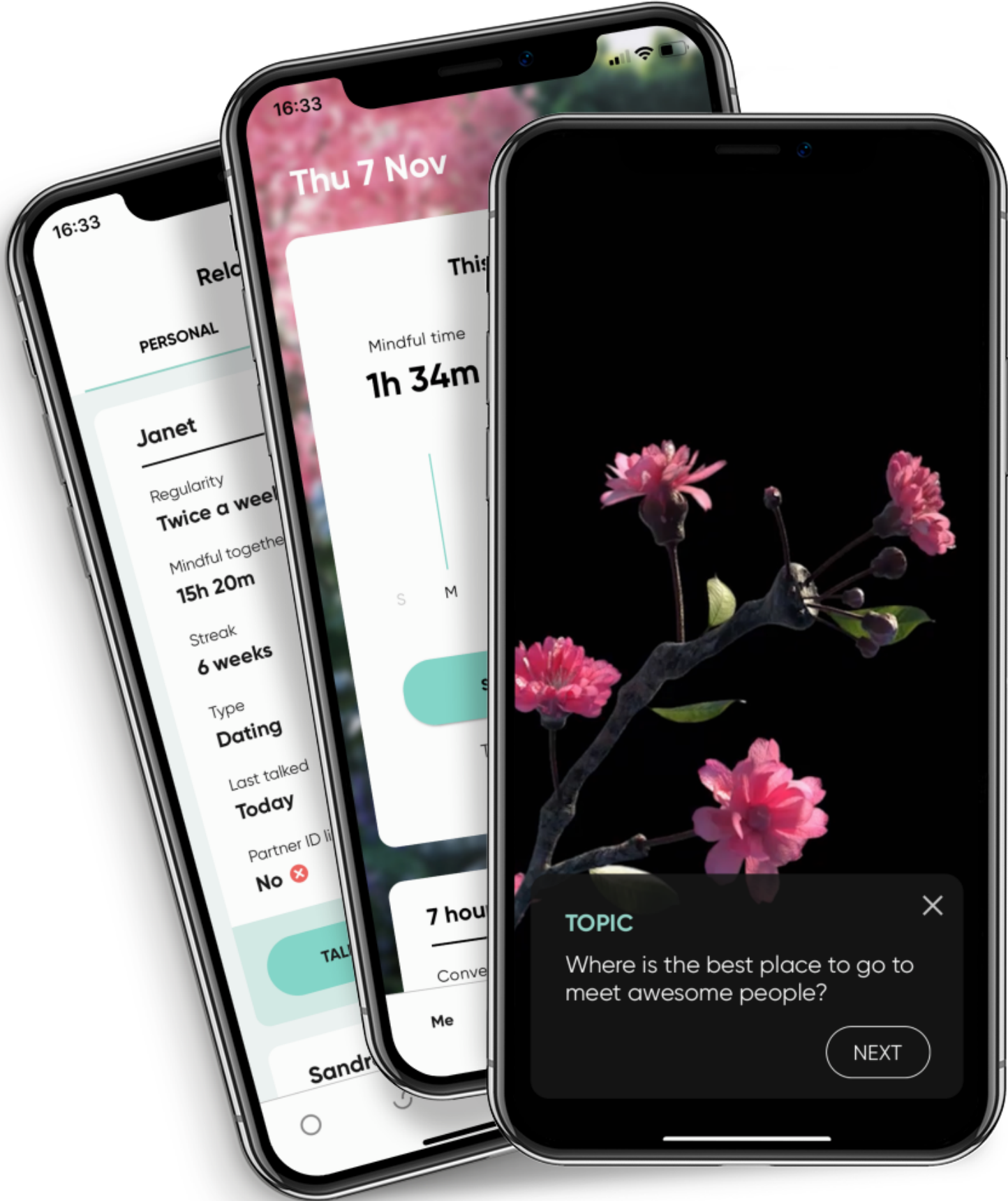
Increase in Revenue
per Customer



Acceleration
in Time
to Close



PROJECT #7, CLOSER TO YOU (ASYA), B2C APP AI THAT RECOGNIZES EMOTIONS IN VOICE AND GIVES TOPICS FOR COUPLES THERAPY



Forbes

“The disruption potential for Asya app could be immense. In many countries, psychological services are either difficult to find, cost prohibitive or both.”

30k users, 250 paying, 20% MoM

