Deep Learning Solutions for
Alzheimer's Disease Diagnosis

Introduction

Global Shortcomings in Tackling Dementia

+10M New Cases / Year

Rapid Cognitive Decline

Ineffective Traditional Methods

Problem

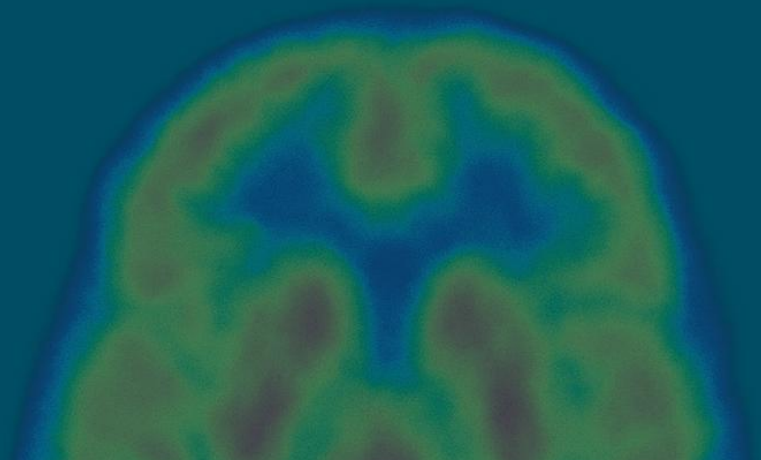
40 out of 55 million people living with Alzheimer's **remain undiagnosed** (70%).

Problem's Equation:

Delayed diagnosis = **delayed care** = **higher costs** for everyone.

Solution

A deep learning—based software that empowers clinicians to screen, diagnose and predict Alzheimer's disease — earlier and more efficiently.



Comprensive Diagnostic Tool

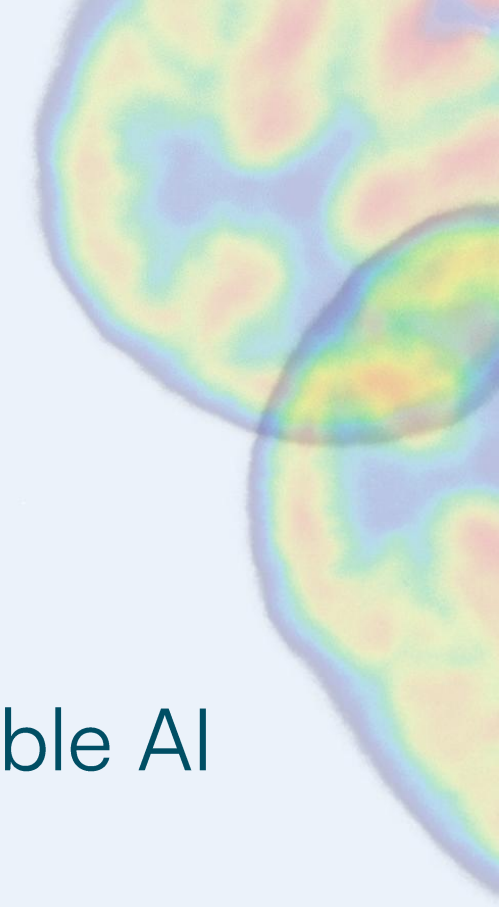
Early Detection = Earlier Action

Scalable Product

Why Now

- **Undiagnosed Epidemic**
- **New Treatments Need Early Detection**
- **Tech Breakthroughs** → Deep learning + explainable AI
- **Global Momentum** → Aging Population

A once-in-a-generation opportunity for scalable, AI-driven diagnosis



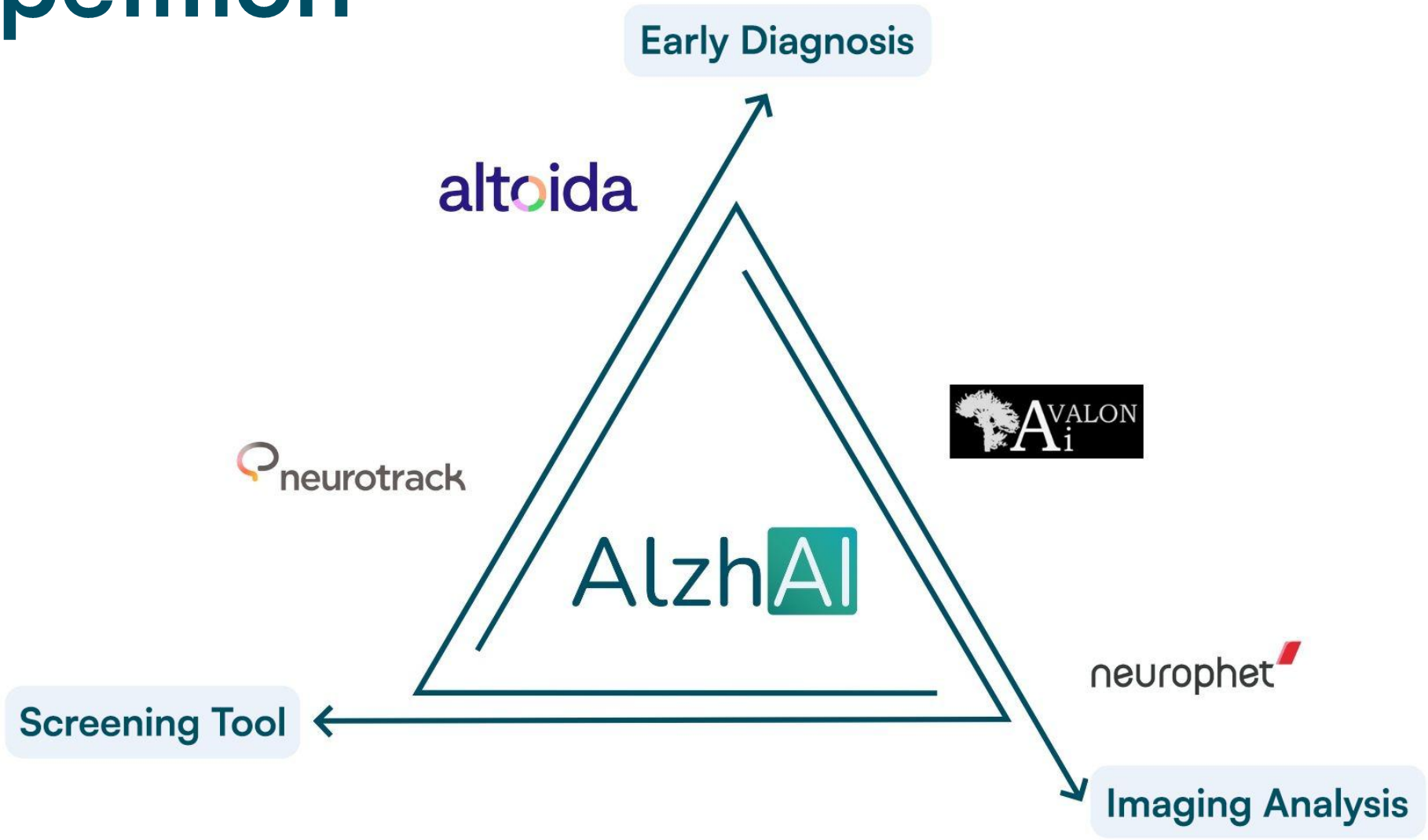
Market size

- **Lower-Bound TAM :** Global Individuals with Dementia ~ 57 million
  10 million new cases per year

- **SAM** ~ 7,85 million individuals living with dementia in Europe
  1.3 million new cases per year

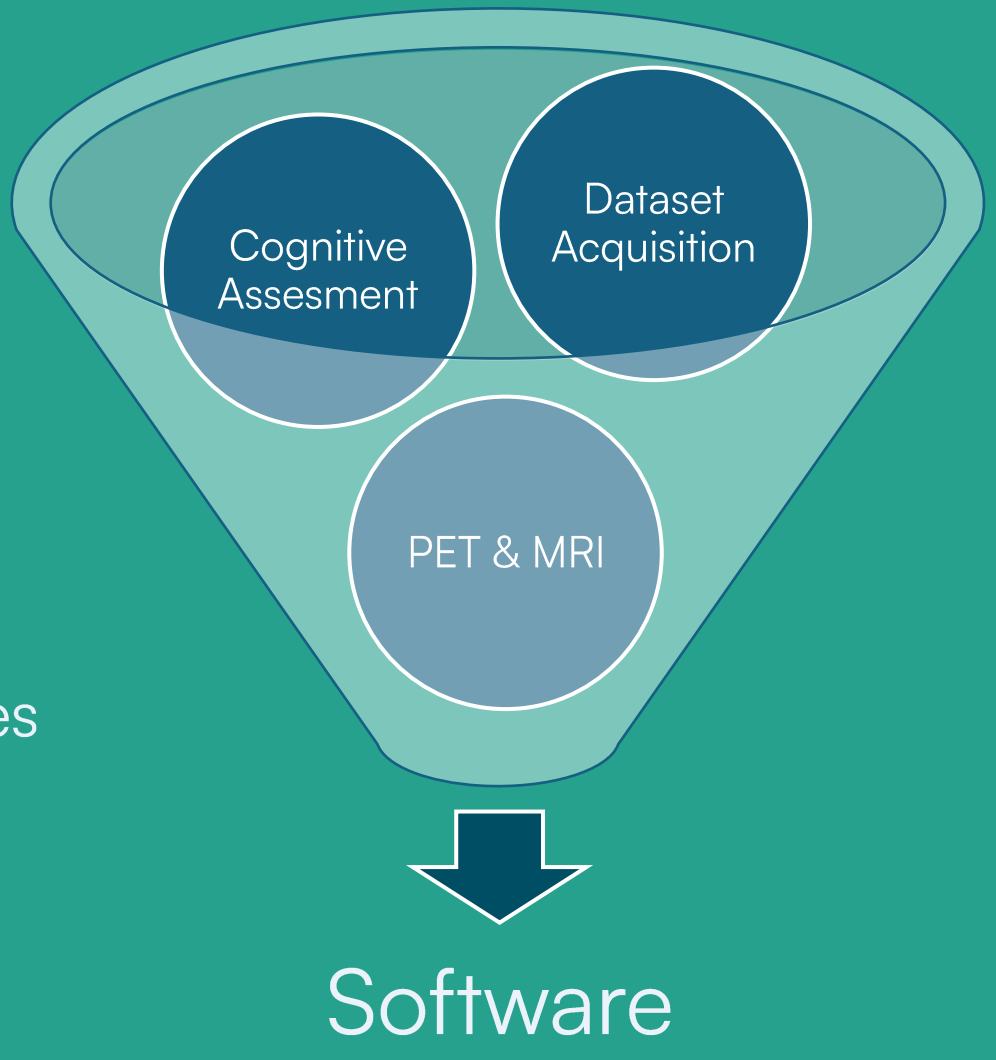
- **SOM** ~ 200k individuals living with AD and MCI in Lombardy
  25k new cases per year

Competition



Product

- **Easy & Fast Software**
  Analysis, Monitoring, Diagnostic support
- **Screening & Early Detection**
  At-risk patients in the presymptomatic stages
- **Longitudinal Patient Tracking**



Use Cases

It’s Just Aging... Right?

Worried
But Unaware

Symptomatic,
But Misunderstood

Long-Term
Care Optimization

Target Clients

- Private Clinics & Imaging Centers
- Public Hospitals (Neurology, Geriatrics)
- RSA/ Nursing Homes

Business Model

SaaS Deep Learning Diagnostic Platform → Pay-per-Use

Screening

10€ / usage

Screening tool. Individual **risk factors analysis** and global cognition synthesis

MRI

30€ / usage

Decisional transparent tool to support clincians in **early diagnosis**

PET

50€ / usage

Transparent tool to support clincians in early prediction and diagnosis with **higher accuracy**

Team

Daniele **De Carli**
Engineering Physics Student in Polimi

Alberto **Sudati**
Engineering Physics Students in Polimi

Working together in Laika Aerospace; developing and building low-budget solid propellant rocket. Both Attended 3° edition of Startup Bootcamp.