

# Preventing Alzheimer's

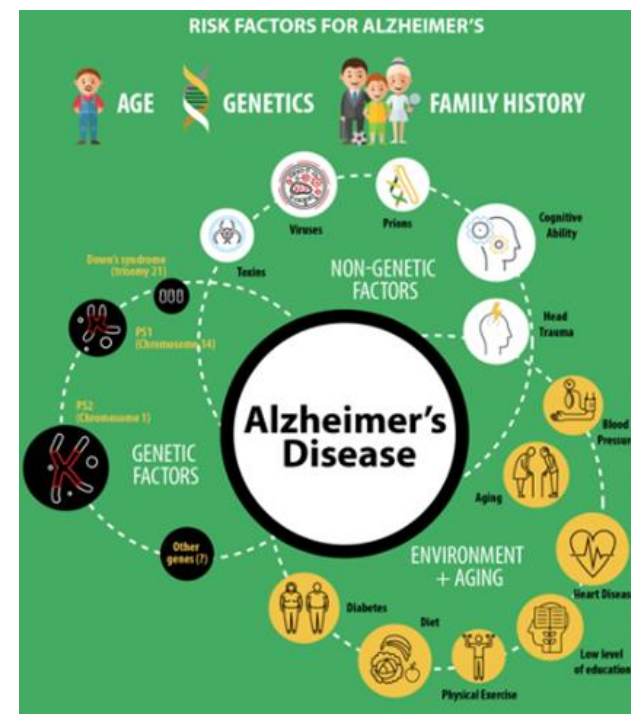
- Recognizing Alzheimer's disease before it damages the brain enhances chances of successful treatment and increases the quality of life of the patient -

# The baseline

- Every year ~10.000.000 new Alzheimer's cases worldwide
- No easy way of diagnosing early Alzheimer's
- No effective treatment

# The problem

- Research focus on genetic risk factors (<5% of all cases)
- Research focus on patients with irreversible brain damage
- Disproportional little focus on non-genetic risk factors (>95% of all cases)



# The solution

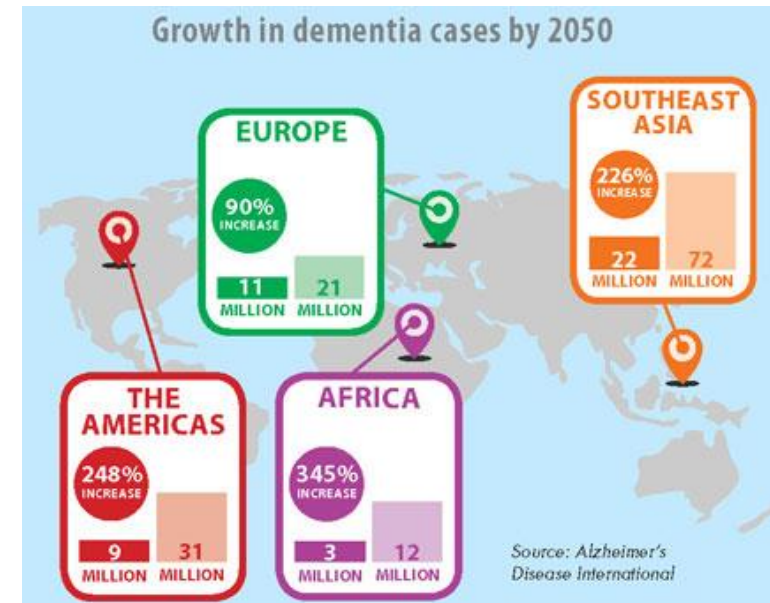
- A simple, cost-effective diagnostic test using blood samples
- A test using human-relevant biomarkers for processes triggered by non-genetic risk factors
- Biomarkers for processes activated before any significant irreversible brain damage

# Proprietary technology

- Domain:
  - Biomarker-based *in vitro* tools for preventive medicine
- Proprietary products for three high impact pathologies:
  - Immunosuppression
  - Cancer
  - Neurodegeneration

# Market validation

- ~10.000.000 new cases every year worldwide
- Worldwide demand for a simple, cost-effective and non-invasive solution



# Market size

~10 million  
new  
diagnosis per  
year

100,000 m€  
per year

About 30% accessible for  
the blood test (33,000 m€)

Delivering a robust  
pipeline of Alzheimer's  
therapeutics

34,000 m€  
over a decade

About 10% accessible for the  
blood test (340 m€/year)

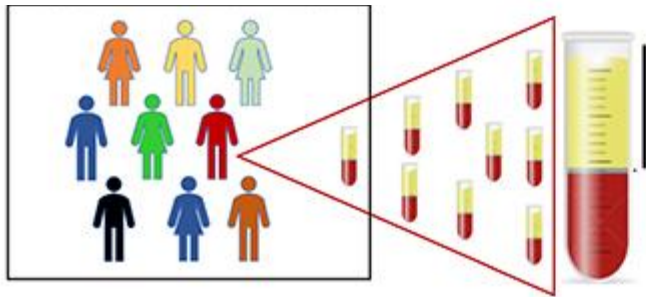


# The product

## (1) Liquid biopsy

Advantages over traditional tissue-specific biopsy

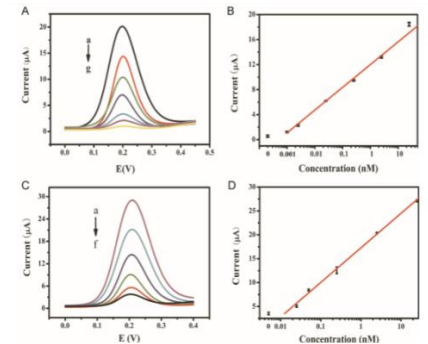
- Quick and easy to obtain,
- Minimal pain and risk,
- Minimally invasive



(2) Enrichment from plasma/serum of circulating microRNAs

(3) Simple testing device carrying the ToxGenSolutions Alzheimer's microRNA biomarker profile

- Biosensor device for microRNA are available for other diseases,
- Easy to use,
- Low costs



(4) Read-out

Impact on clinical care

Screening of individuals >60 years of age

Diagnosis, staging, Prognosis

Therapy selection (Response and follow-up)

Monitoring (Disease evolution following therapy)



# The business

Full growth potential

Focus segments until 2024

Pricing based on current average costs without scanning + 20%

Net profit by 2025 (EU+USA)  
(Target: 20,000 tests)

CRO activities

Europe  
~2.45,000 new diagnosis per year

North America  
~475,000 new diagnosis per year



9-10 m€

Net profit by 2030  
(Target: 10% of the global market)

~10 million new diagnosis per year

single €125,000 fee and 5-7% royalties per year (~5,000 test per licensee)

Net profit by 2025:  
(Target: 10 licences)

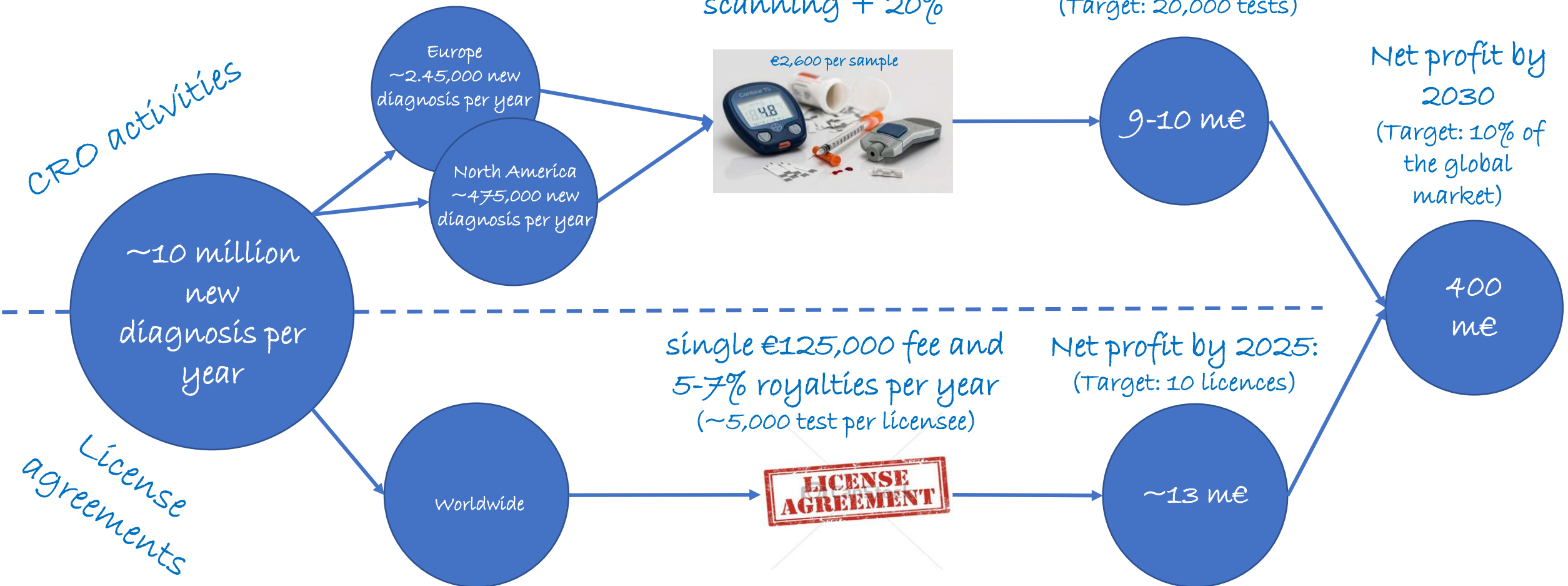
Worldwide



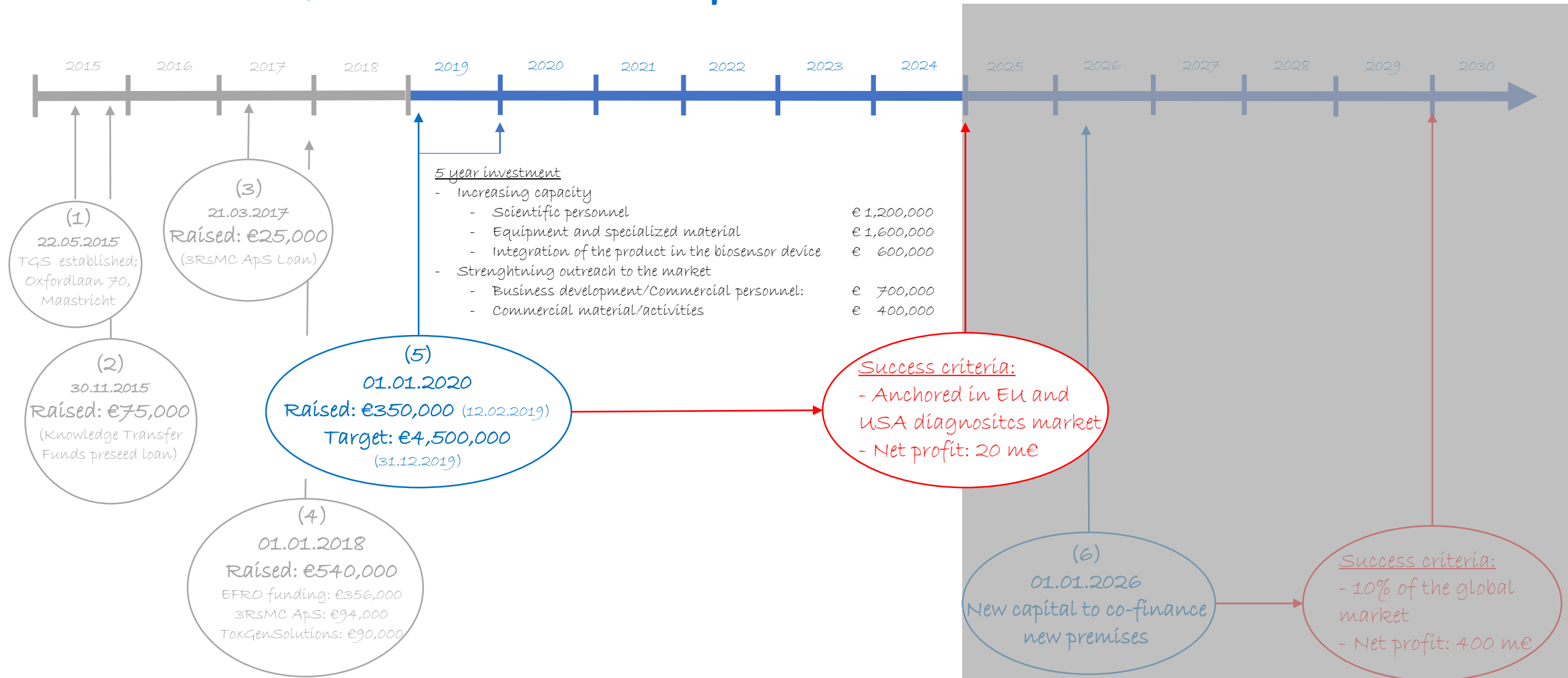
~13 m€

400 m€

License agreements



# The financial plan



# Market adoption

## Events (Presentations + exhibitions)

- Annual congress on Neurology and Neuroscience
- World Congress on Alzheimers Disease and Dementia
- World Congress on Neurology and Neuroscience
- International Conference on Neurology and Mental Disorders
- Alzheimer's Disease and Dementia Conference
- European Dementia Conference
- World Congress on Advances and Innovations in Dementia
- International Conference on Neurology and Cognitive Neurosciences

## Industrial Partnerships

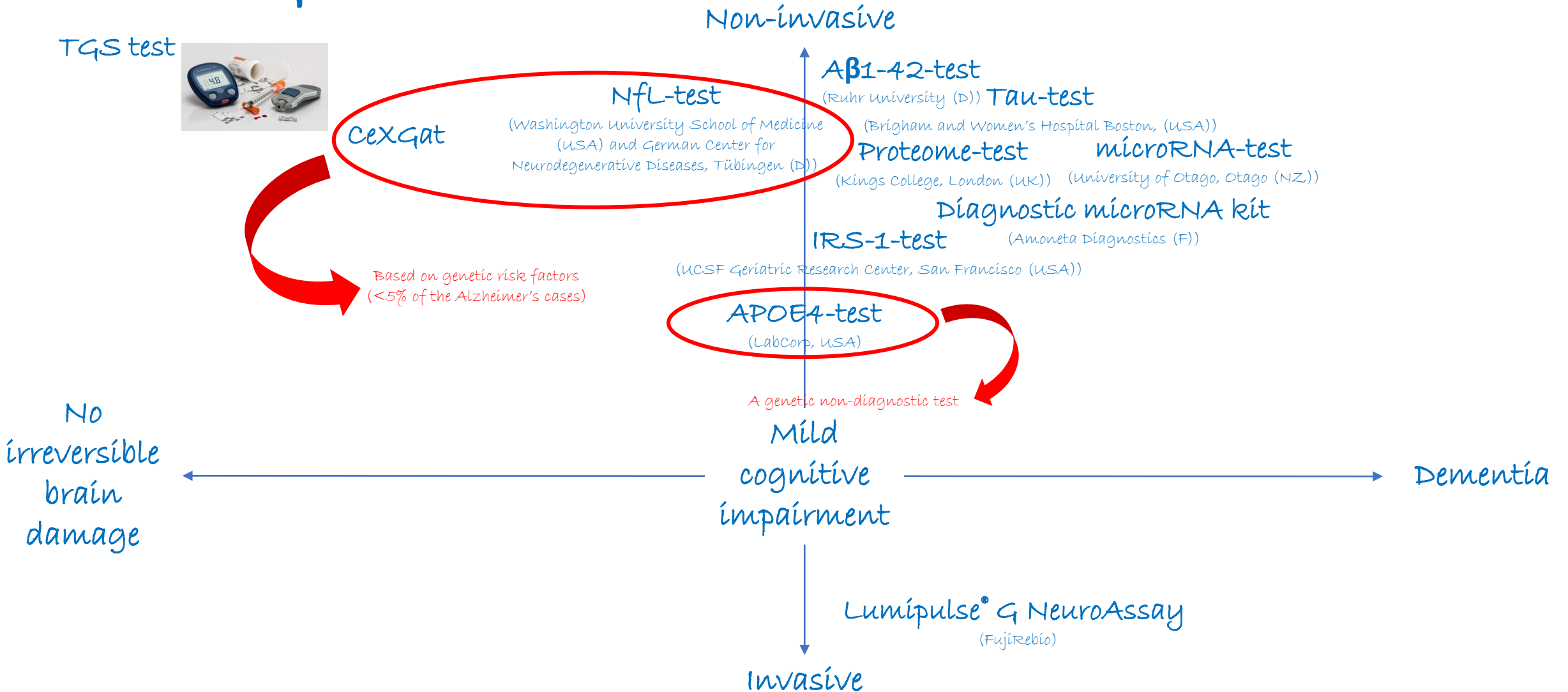
### Diagnostics industry

- ✓ Firalis
- ✓ reMYND
- ✓ Icometrix
- ...

### Pharma/Biotech industry

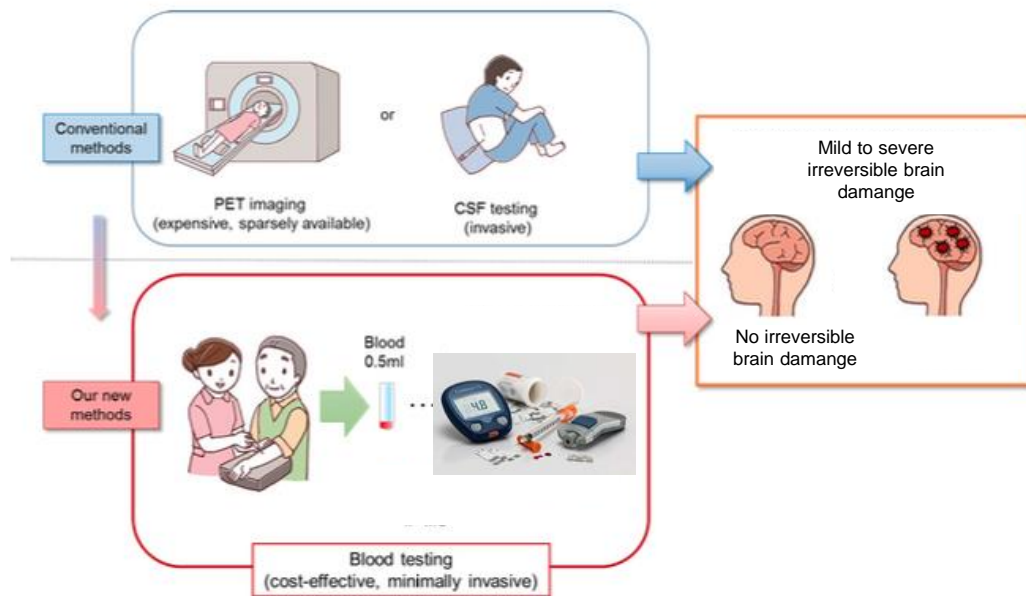
- Janssens Pharmaceuticals
- Roche
- ...

# Competition



# Competitive advantages

- ✓ Test predicting non-genetic Alzheimer's potential before irreversible brain damage occurred



- ✓ Addressing the urgent need of patients organizations, medical staff, society and industry
- ✓ Manageable weaknesses and threats

