



Centar za lasersku mikroskopiju



# NIMOCHIP™

**Veštačka inteligencija na čipu za neruodijagnostiku**

prof. Pavle R. Andjus, rukovodilac

Dr Andrej Korenić

MSc Katarina Živančević

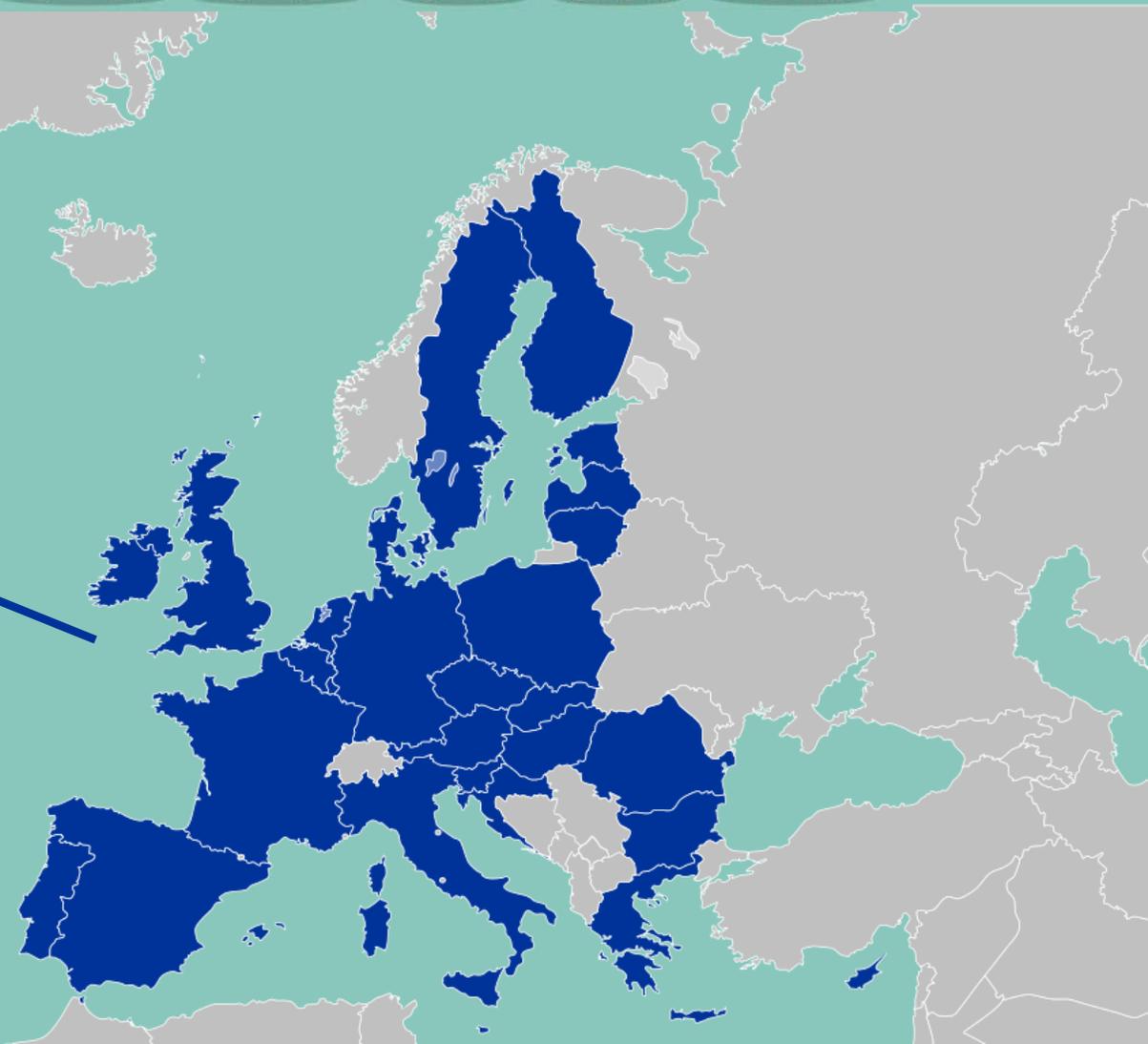
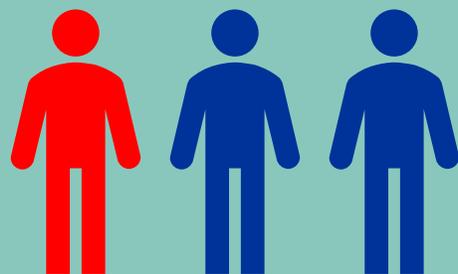
Prof. Lidija Radenović

**Biološki fakultet Univerziteta u Beogradu**

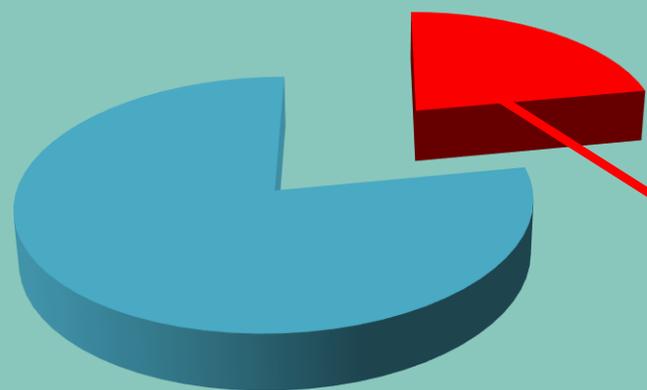




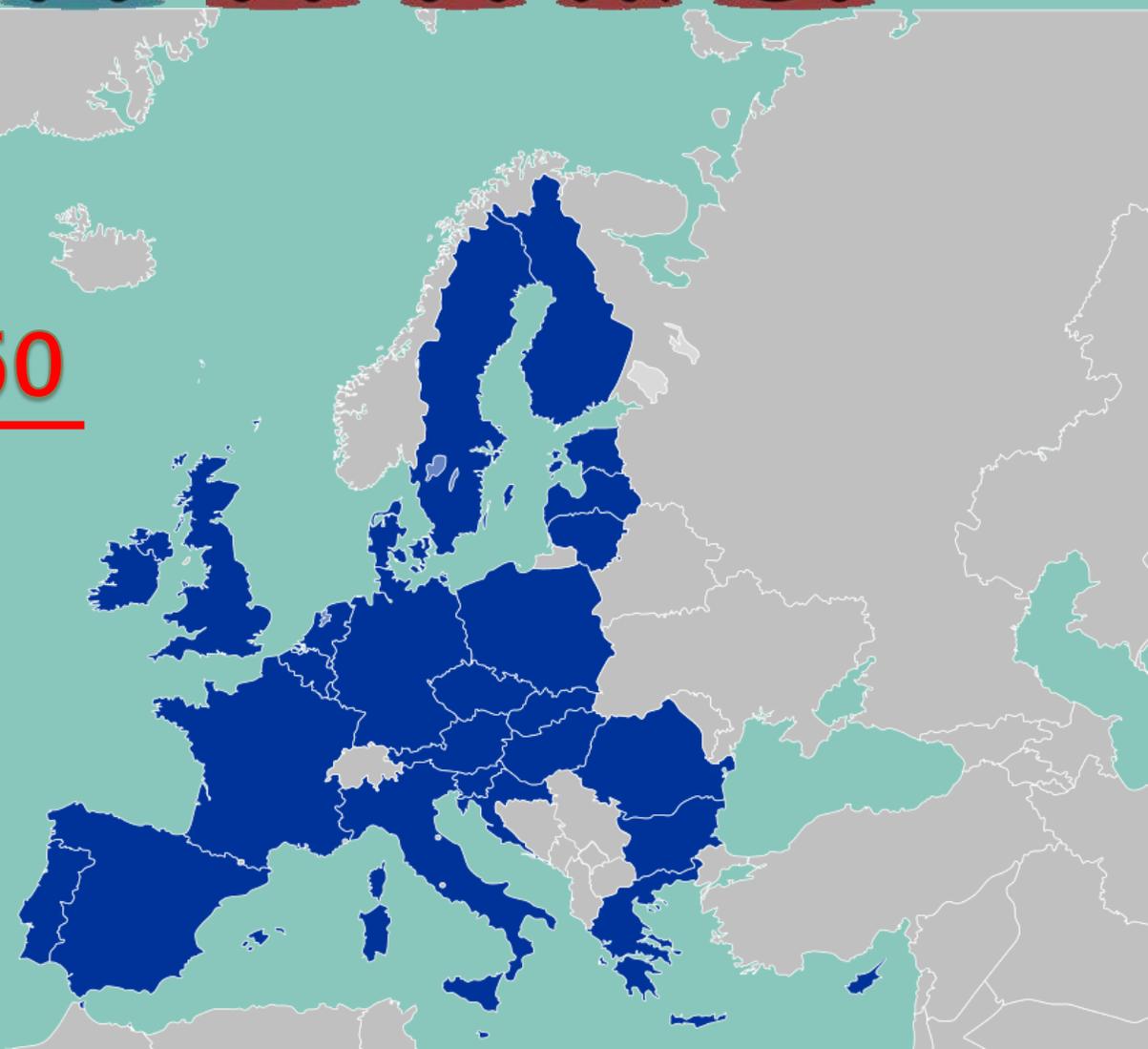
179 M



Izvor:



**do 2050**

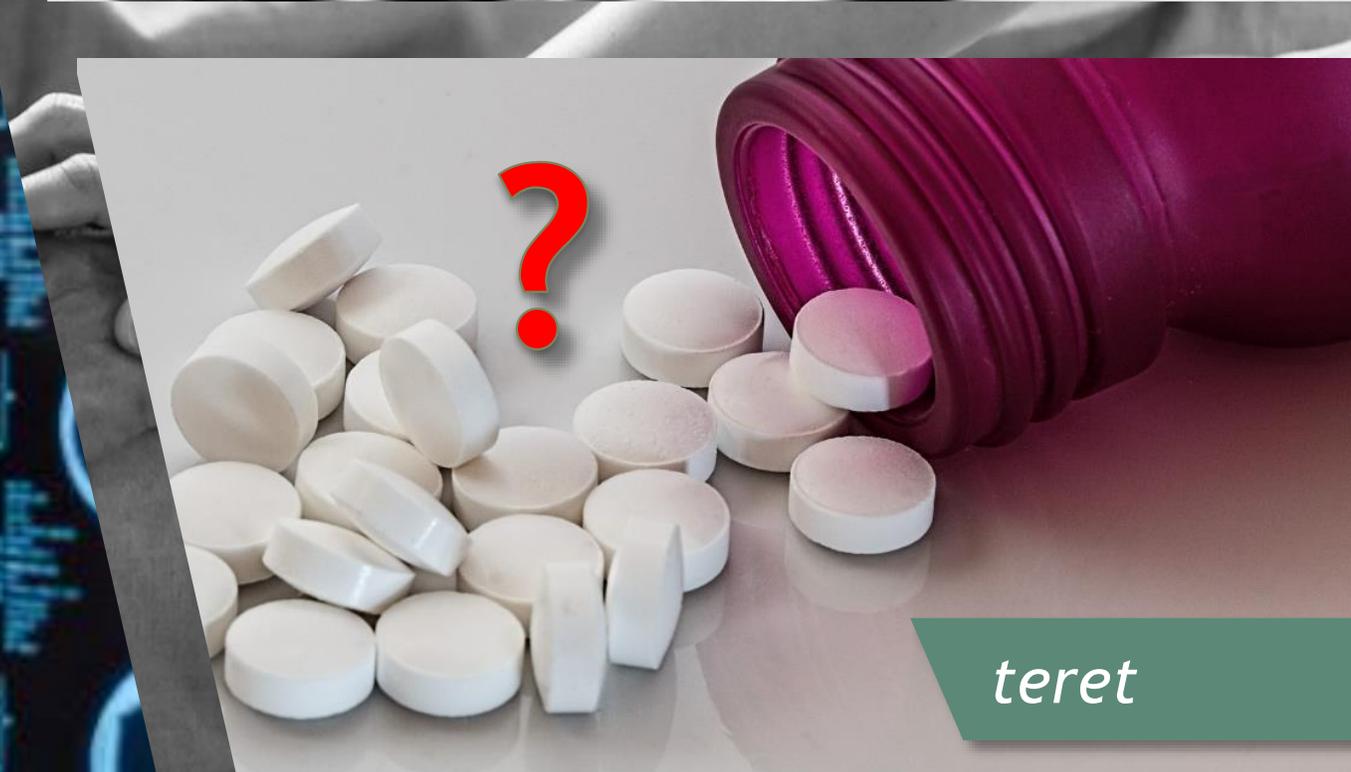




*nedostaje*



*kasno*

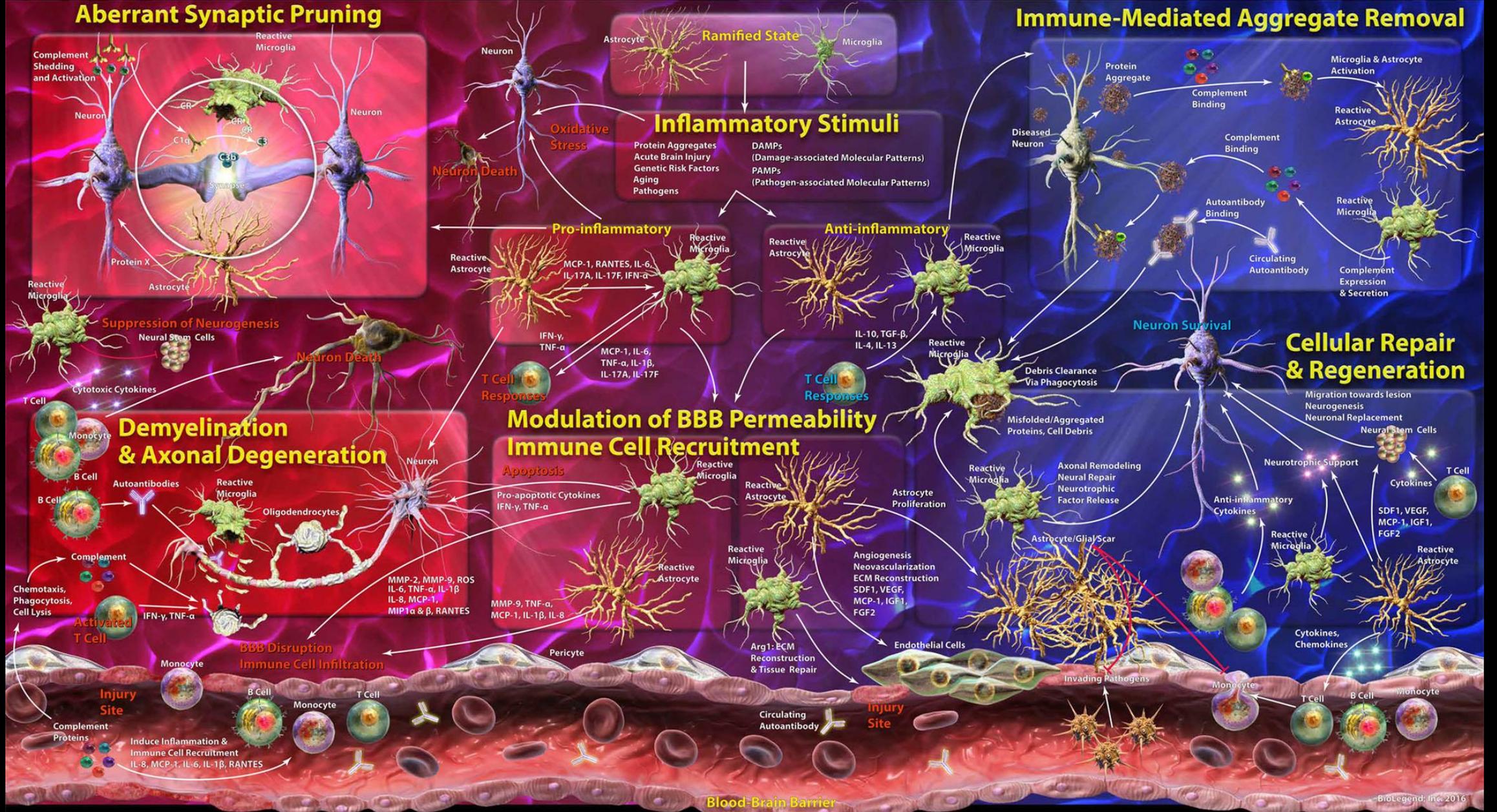


*teret*

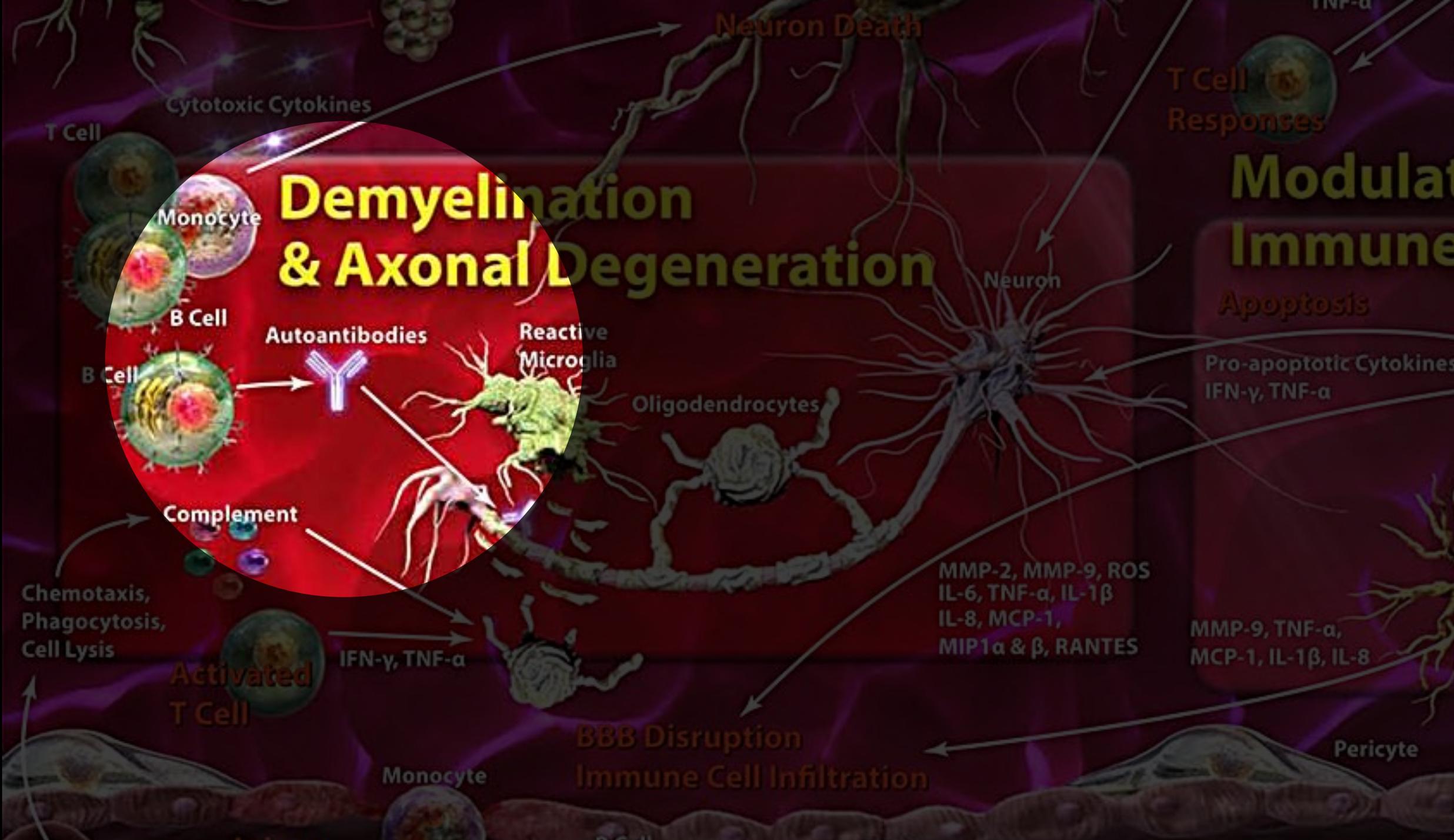
# Neuroinflammation

Pro-inflammatory

Anti-inflammatory



# Demyelination & Axonal Degeneration

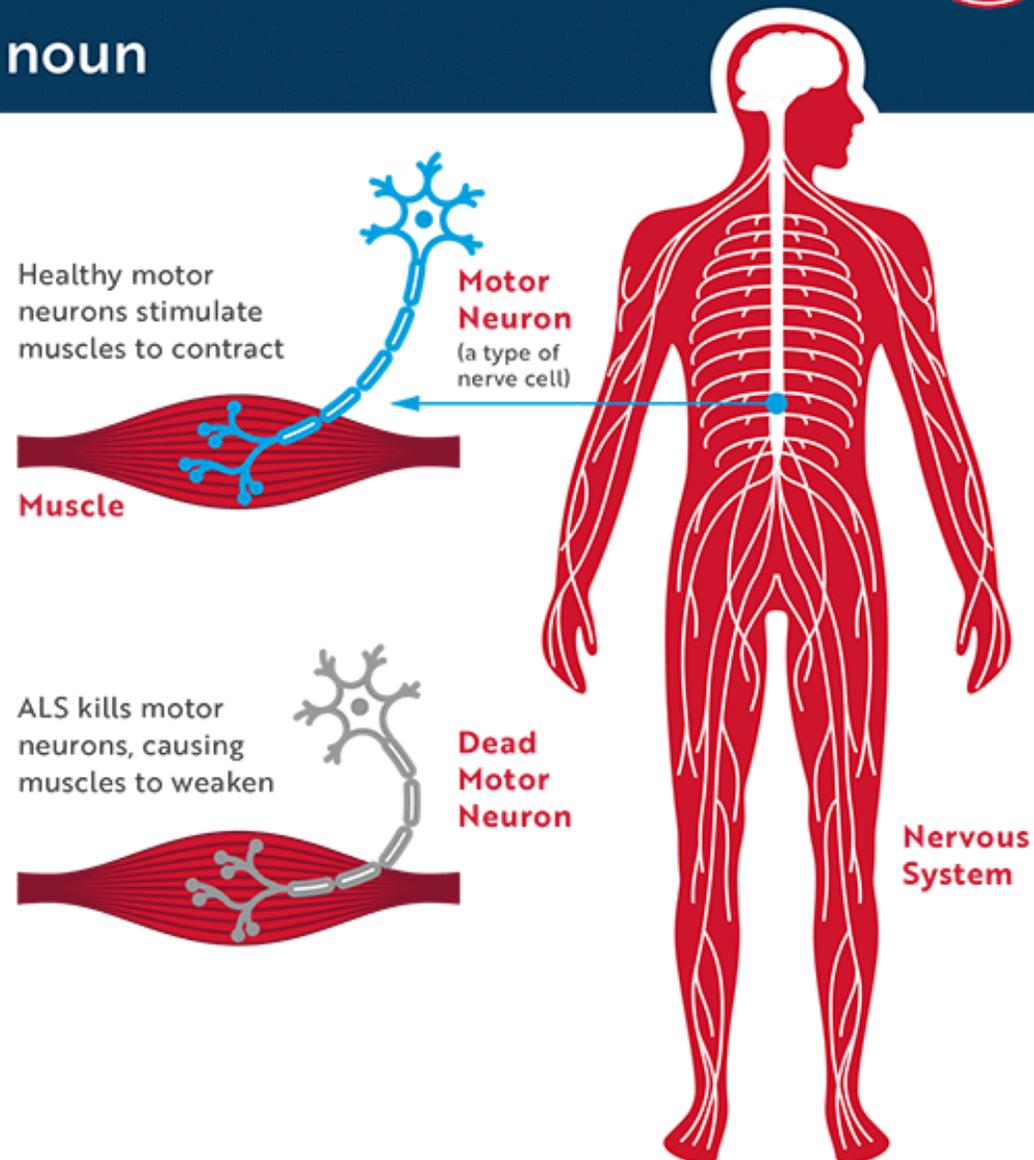


# WHAT IS ALS?

a•myo•tro•phic lateral sclerosis | noun



ALS IS A PROGRESSIVE NEURODEGENERATIVE DISEASE THAT AFFECTS NERVE CELLS IN THE BRAIN AND SPINAL CORD.



# WHAT IS ALS?

a•myo•tro•phic lateral sclerosis | noun



## FACTS ABOUT ALS

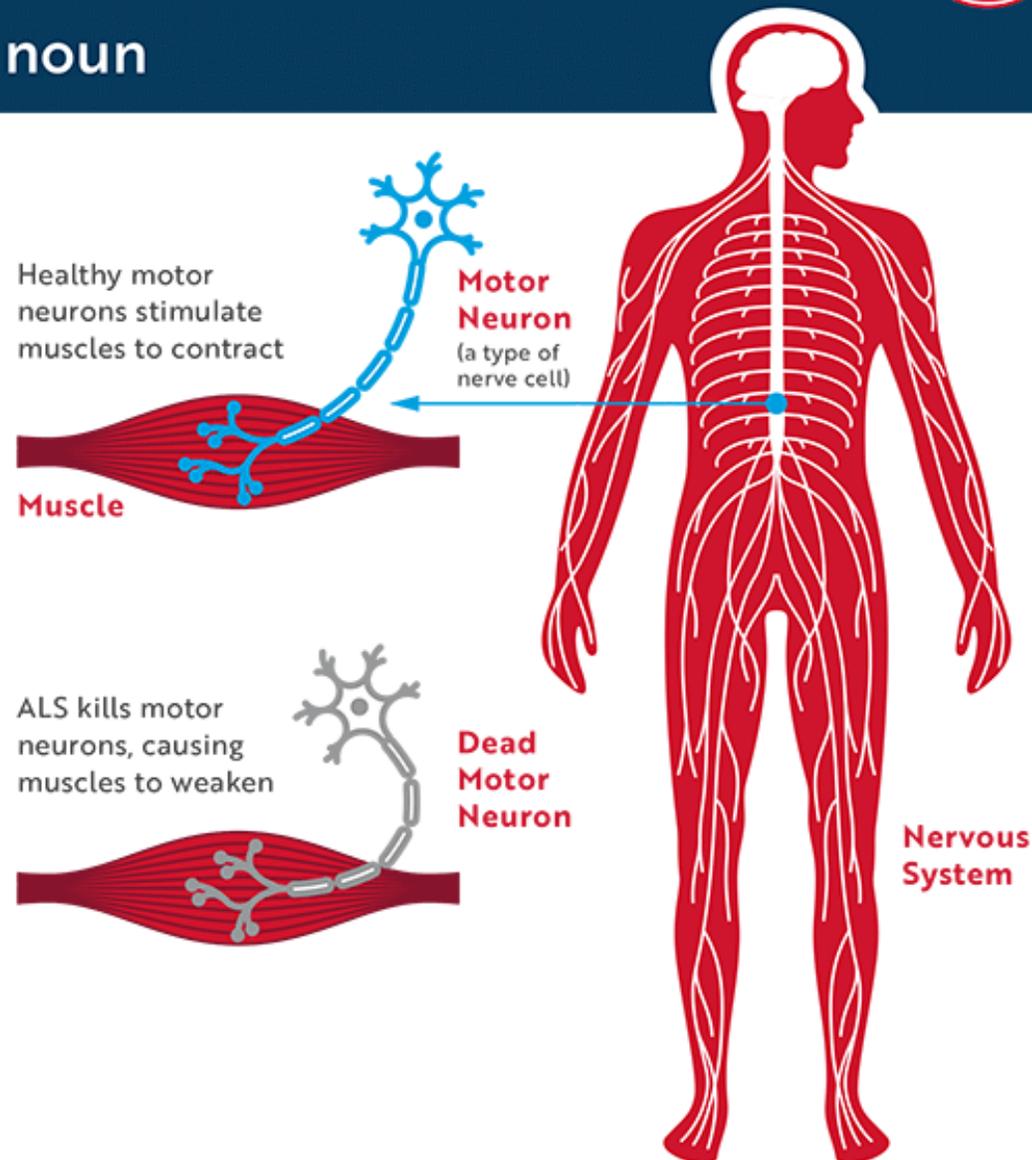
 **5,000+** people are diagnosed per year

**10%**  10% of cases are inherited through a mutated gene

 **2-5 YEARS** is the average life expectancy

 Every **90 MINUTES** someone is diagnosed and someone passes away

**90%**  of cases occur without family history



# WHAT IS ALS?

a•myo•tro•phic lateral sclerosis | noun



**\$250,000**

is the estimated out-of-pocket cost for caring for a person with ALS



Only **3 DRUGS**

are currently approved by the U.S. FDA to treat ALS (Riluzole, Nuedexta, and Radicava)



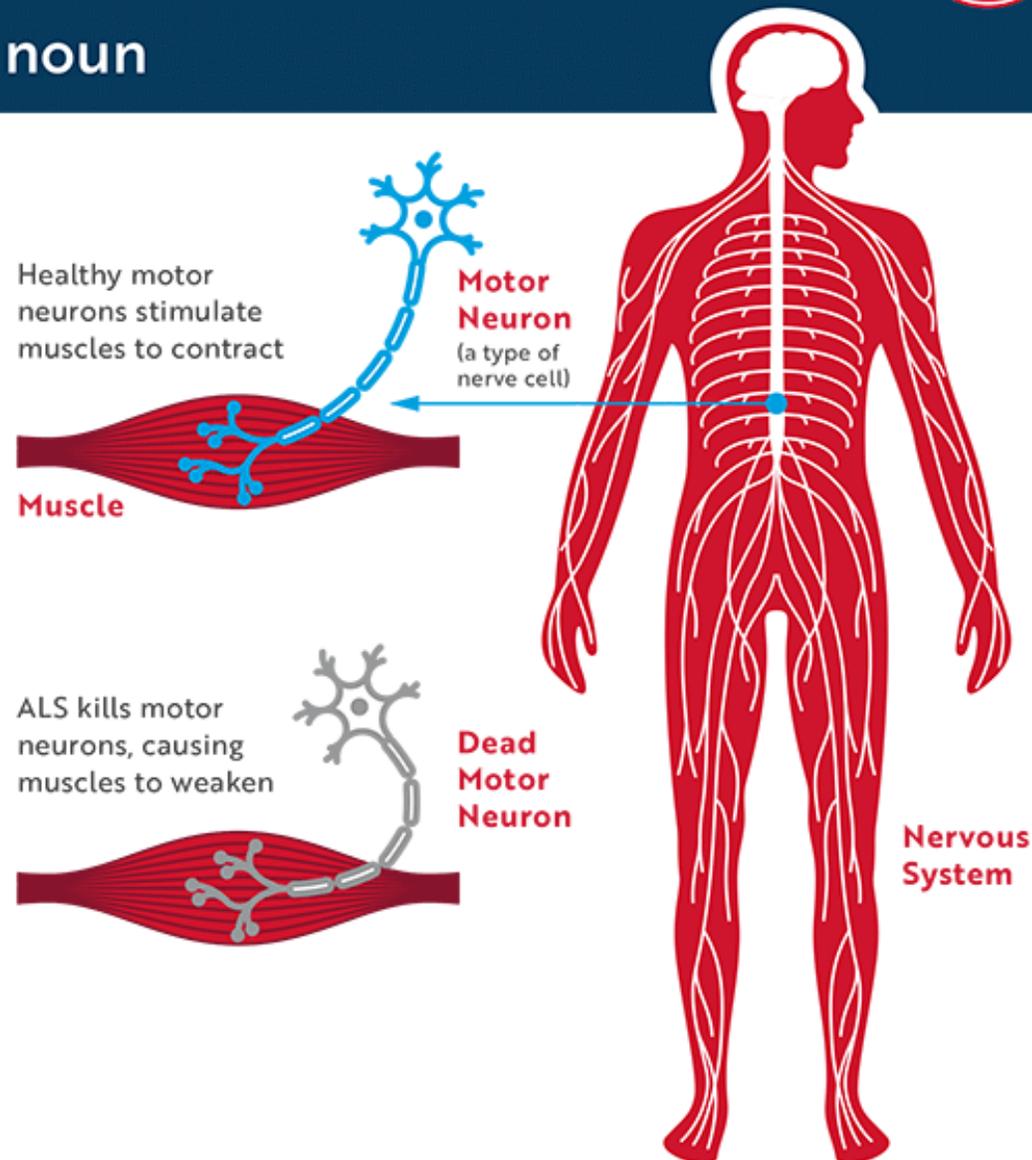
**\$2 BILLION**

is the estimated cost to develop a drug to slow or stop the progression of ALS

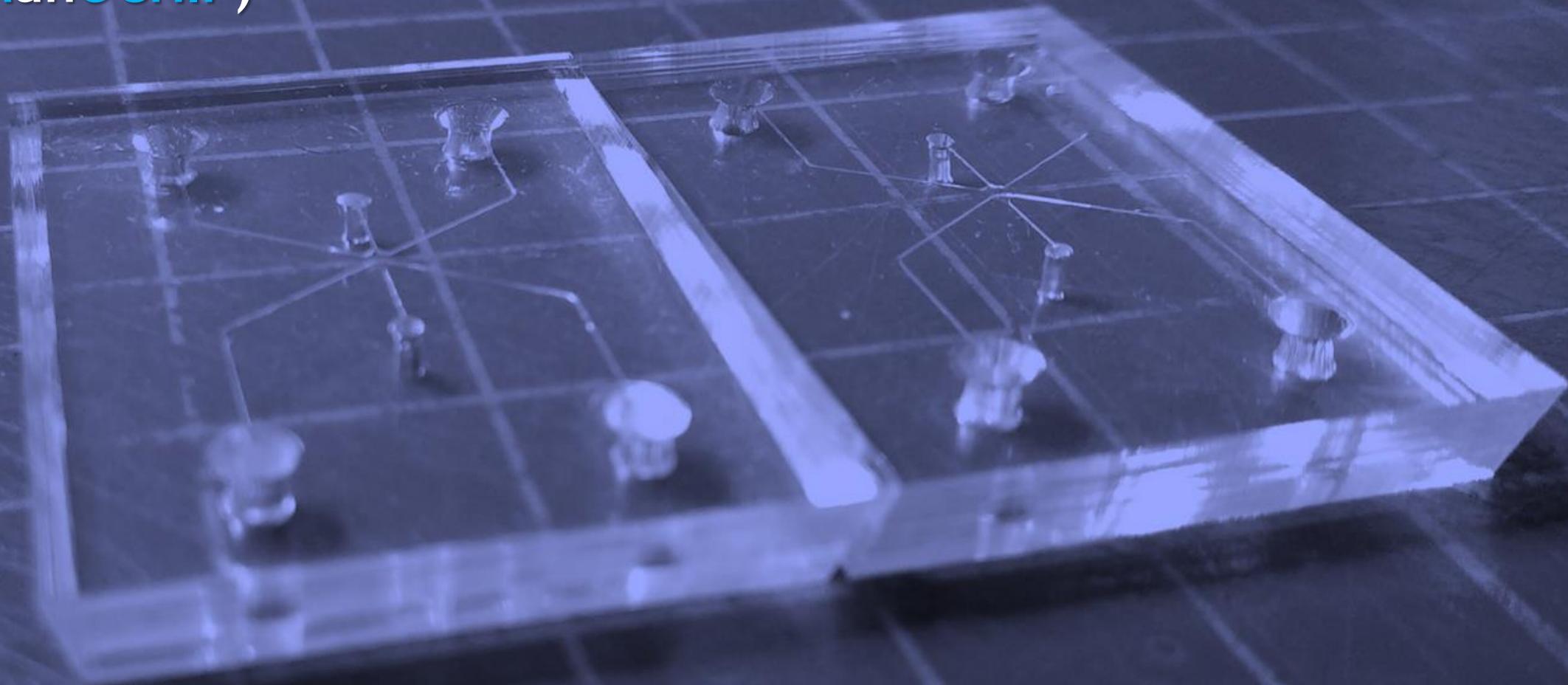


There is

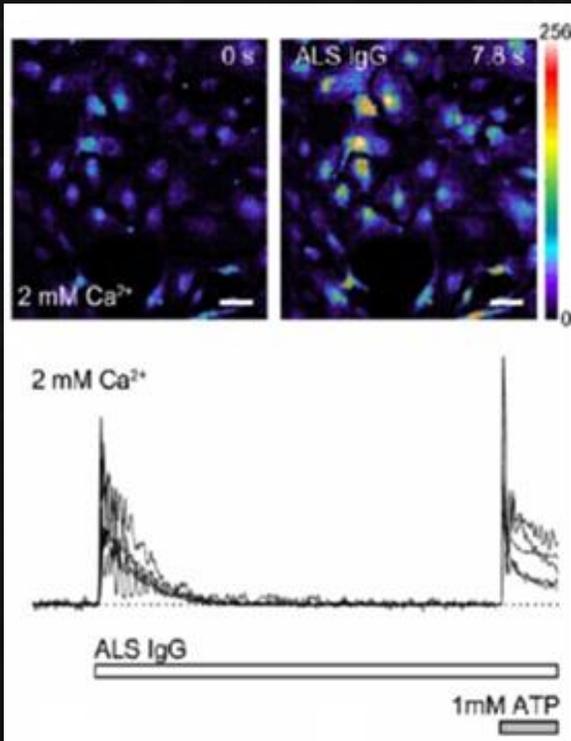
**NO CURE** for ALS



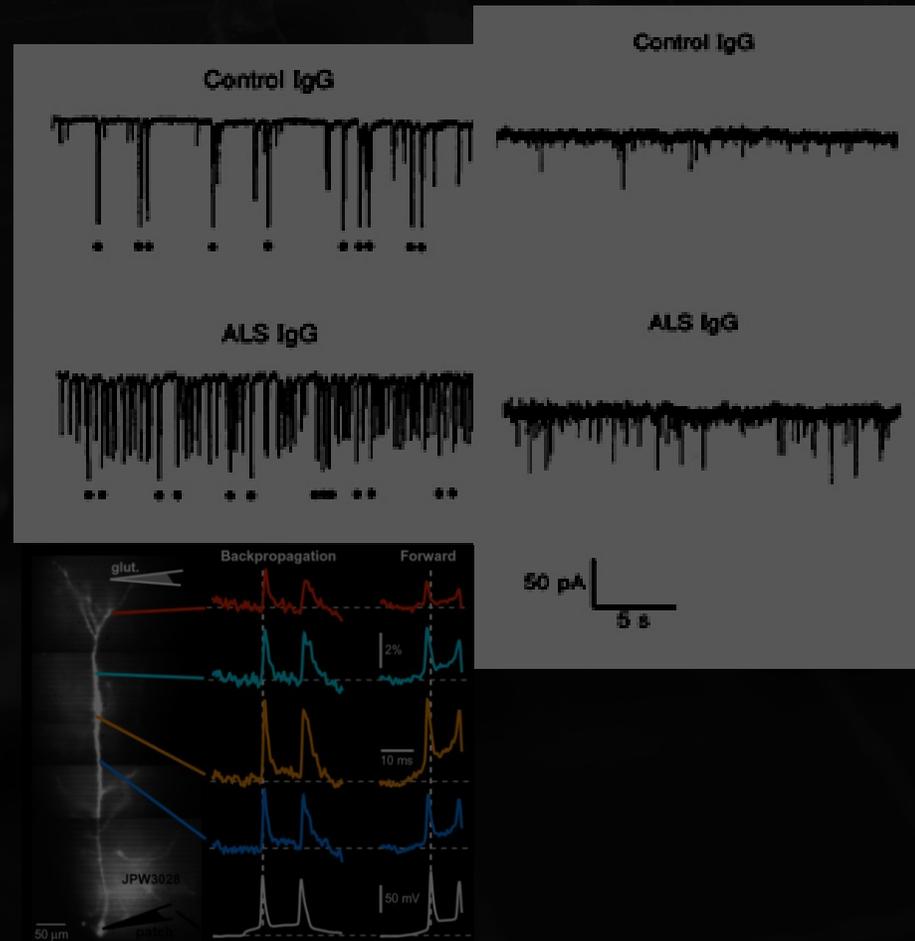
REŠENJE: **Laboratorija na čipu** - NIMOCHIP  
(**NeuroIMunOCHIP**)



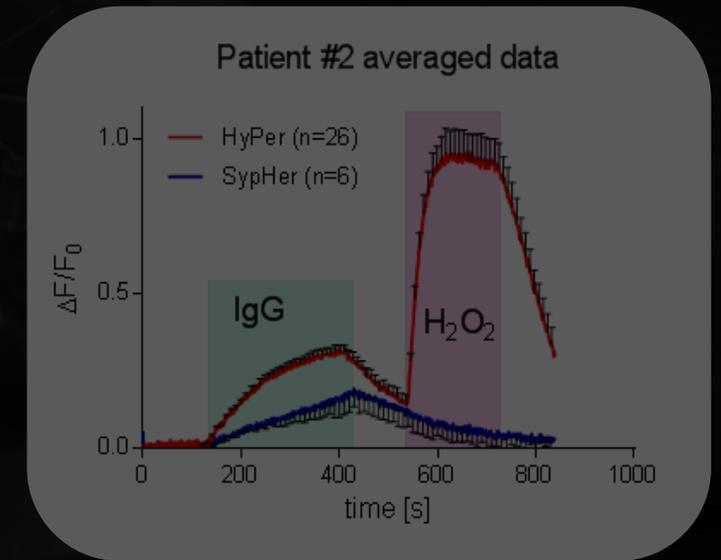
## kalcijumska merjenja

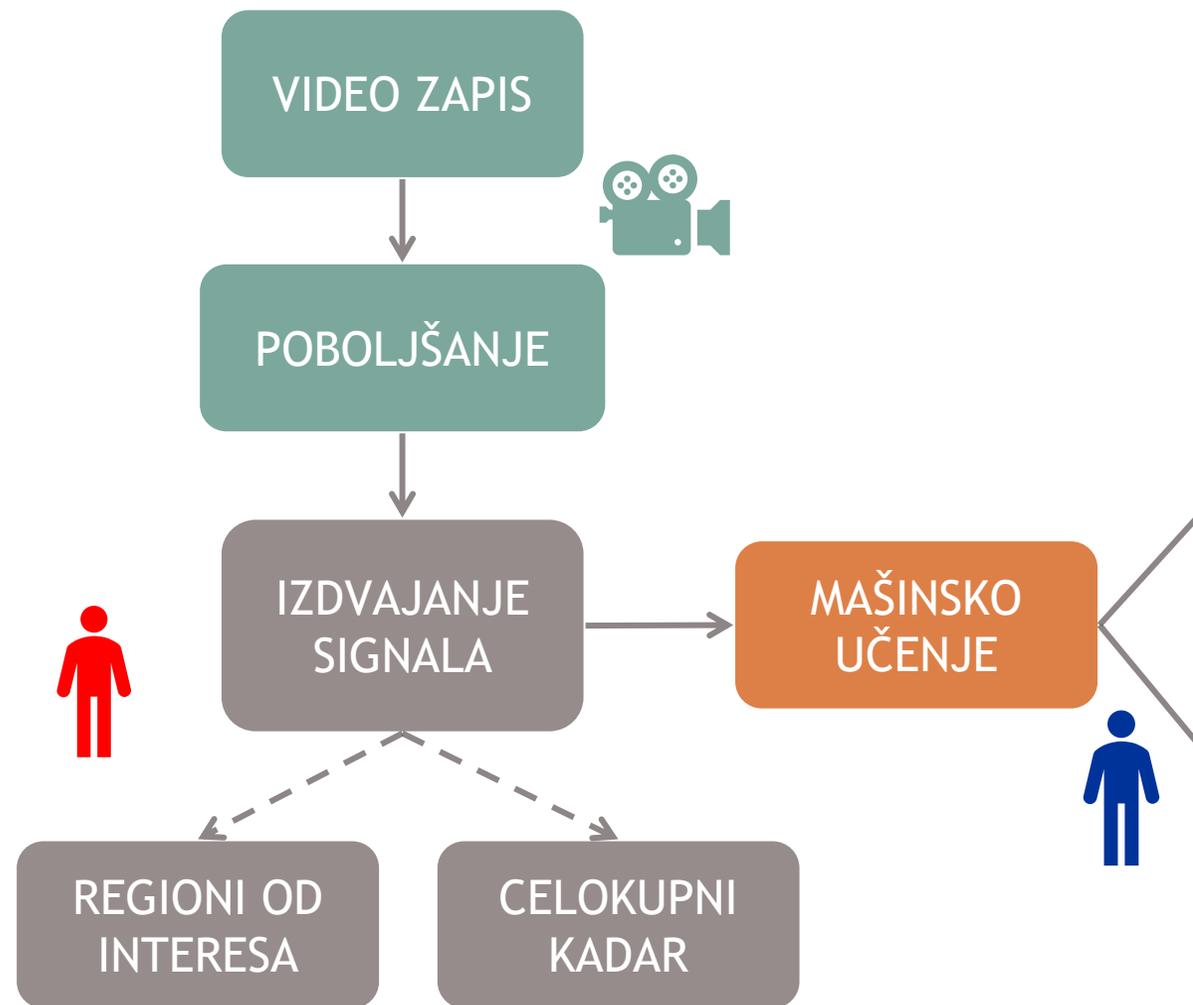


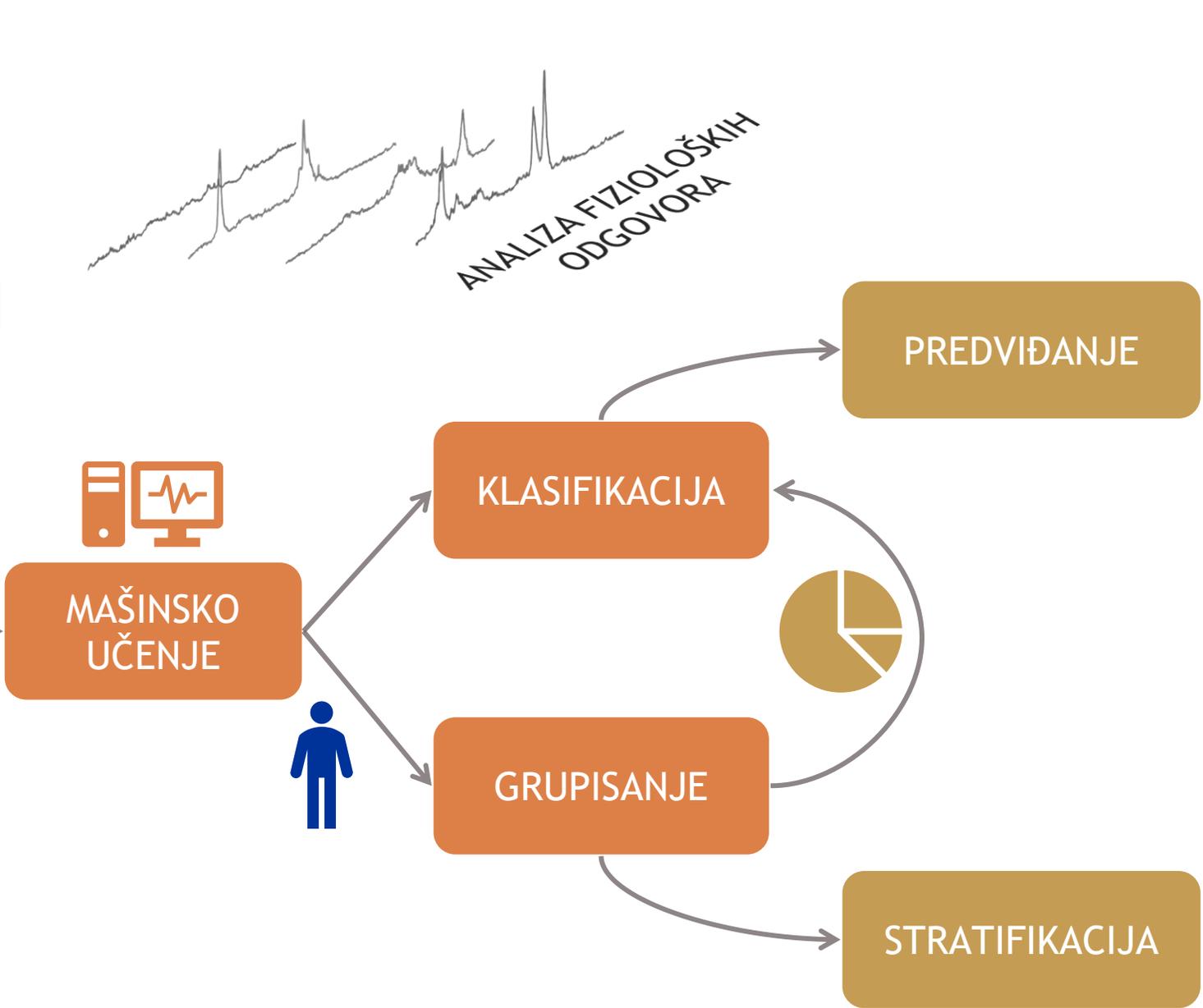
## voltažno senzitivne boje



## slobodni radikali i merenje pH









# Marketing

7.4  
2.0%  
5.0%

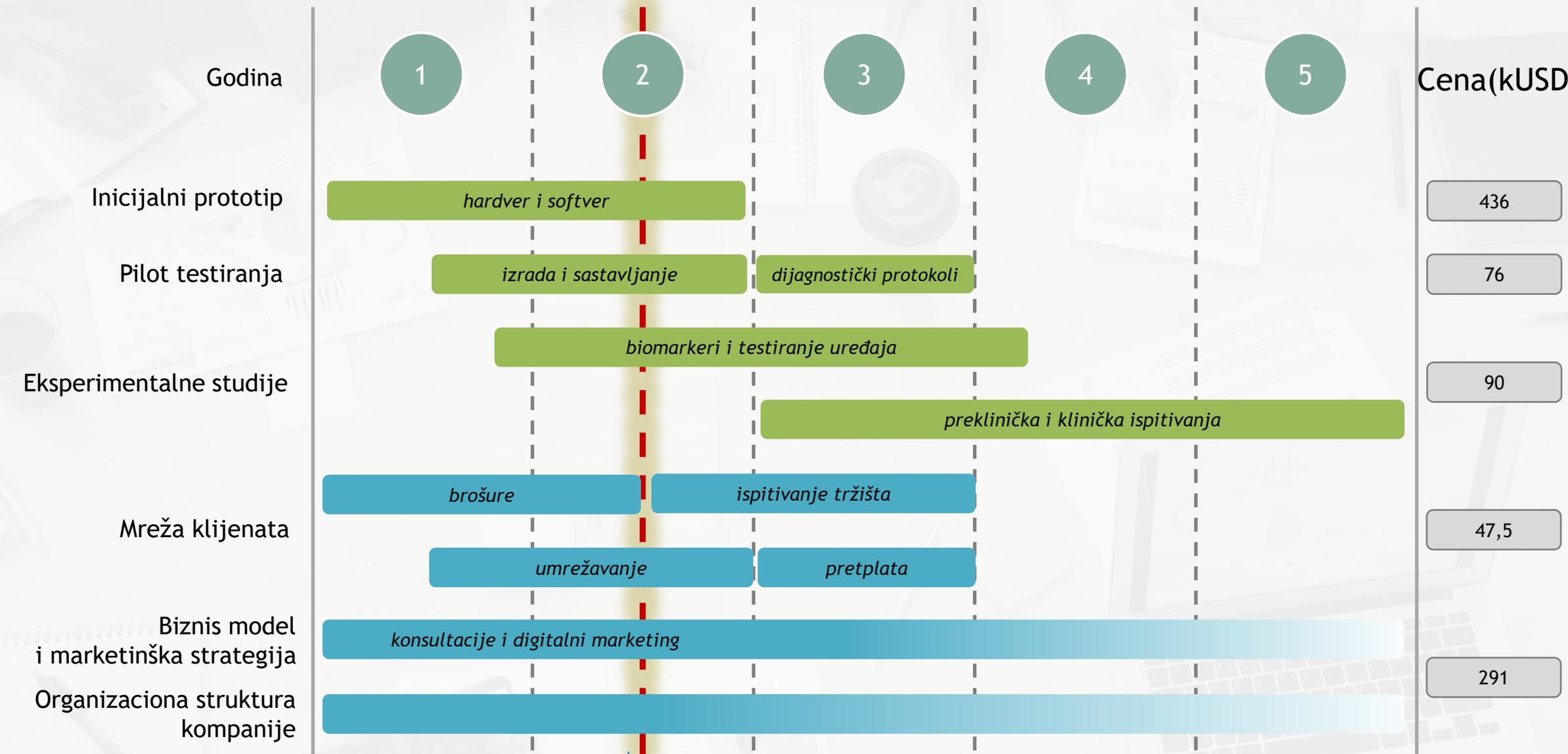
70% Customer Service  
20% Education  
10% HR/Recruiting



# Plan razvoja NIMOCHIP uređaja i budžet

Istraživanje i razvoj

Razvoj biznisa



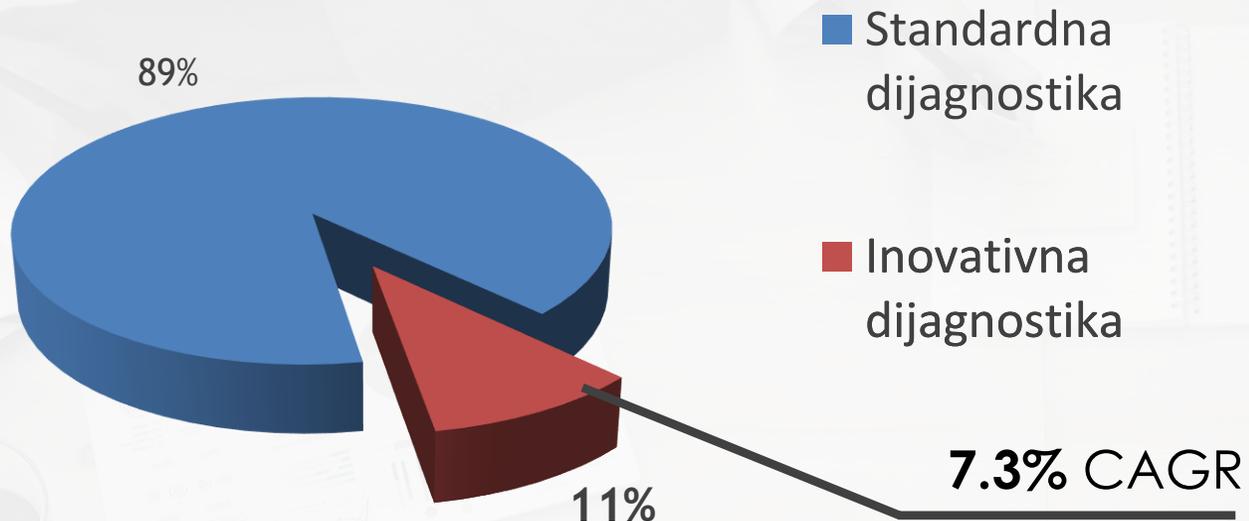
Kraj projekta



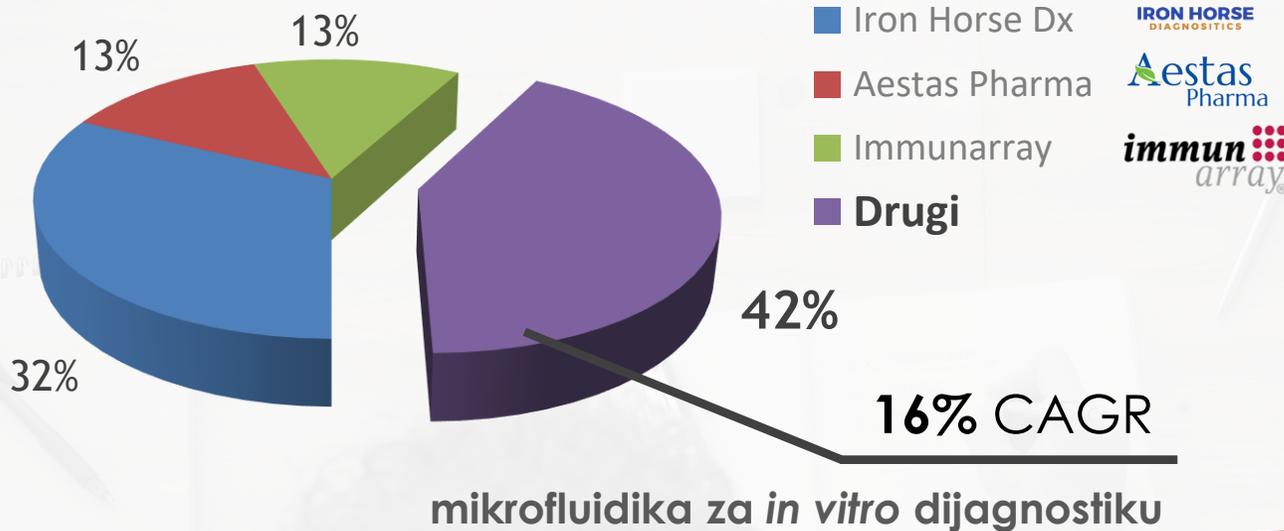
Σ: 940.5 kUSD

# RAZLOZI ZA STARTUP

## Tržište za neurodijagnostiku



## Inovativne kompanije za neurodijagnostiku



Precizna dijagnostika na vreme

**NIMOCHIP**

Efektivno lečenje

- ✓ Uređaj: cena 10.000 USD; izrada 1000 USD)
- ✓ Test-čipovi: cena 100 USD; izrada 20 USD)
- ✓ Prodaja: 1 uređaj + 1000 čipova

# B2B MODEL

Opis	2023	2024	2025	2026	2027
Ukupan prihod (kUSD)	X	X	550	550	1100
Neto dobit (kUSD)	X	X	445	445	890

**Dr Andrej Korenić**  
*Veštačka inteligencija*



**Prof. Pavle Andjus**  
*glavni inovator, rukovodilac*



**STARTECH**

**Katarina Živančević**  
*razvojna rešenja i marketing*



**STARTECH**

**Prof Lidja Radenović**  
*Regulativa, koordinacija*



**STARTECH**

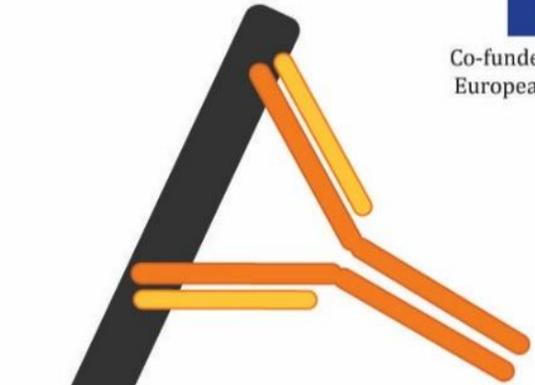
**Aleksa Marković**  
*mikrofluidika i dizajn softvera*



**Dr Dejan Pantelić**  
*optika na čipu*



# PODRŠKA i SARADNJA



Co-funded by the European Union



**AUTIGG**



HORIZON 2020



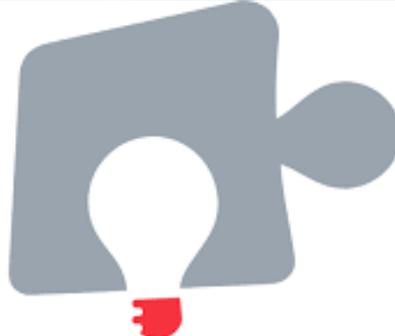
**AUTOMATED FUNCTIONAL SCREENING OF IgGs FOR DIAGNOSTICS OF NEURODEGENERATIVE DISEASES**

H2020-MSCA-RISE-2017(2018-2021)



**JUMPSTARTER**

REPUBLIC OF SERBIA  
**INNOVATION FUND**

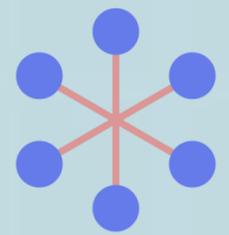


**Innovation FORUM**



**COMMERCIALIZATION REACTOR**

## Dokaz koncepta Tehnološki transfer



**LABORATORIJA ZDRAVSTVENIH TEHNOLOGIJA**  
Gradimo fabriku inovacija



**100 BESTECH**  
INNOVATIVE TECHNOLOGIES FOR INTERNATIONAL COOPERATION

Released on INTERNATIONAL TECHNOLOGY TRADE FAIR ON ZGC FORUM 2022



中关村论坛  
2022 ZGC FORUM  
中关村国际技术交易会

**荣誉证书**  
CERTIFICATE

**NIMOCHIP: 神经免疫学芯片**

经专家组推荐入选“2022中关村国际技术交易会百项国际技术交易创新项目榜单”。  
has been awarded the 2022 Zhongguancun International Technology Trade Fair "100 Best Innovative Technologies for International Cooperation".

特此证明!  
Congratulations!

2022中关村国际技术交易会百项国际技术交易创新项目榜单专家组  
国际技术交易会秘书处  
International Technology Trade Fair Secretariat

二〇二二年十二月  
December 2022