

The logo graphic consists of three overlapping, curved, teardrop-shaped elements in a light peach or orange color, arranged in a circular pattern around the text.

# Centenara Labs

Age Better, Live Longer

- Aging is characterized by a progressive loss of physiological integrity, leading to impaired function and increased vulnerability to death.

- It is cumulative, processes that interfere with the function of the body.



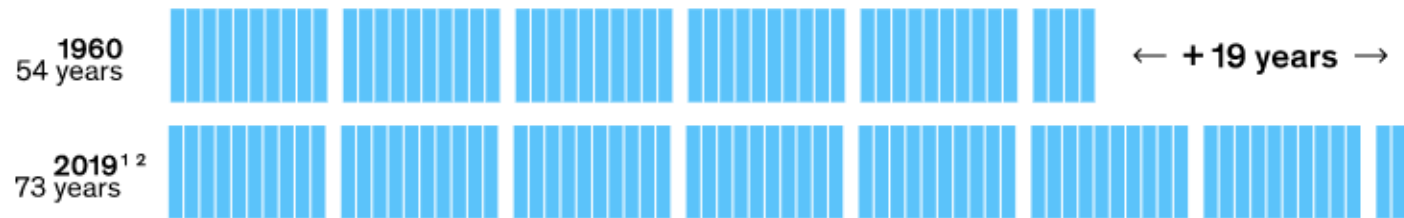
**One common denominator of aging is the accumulation of genetic damage throughout life**



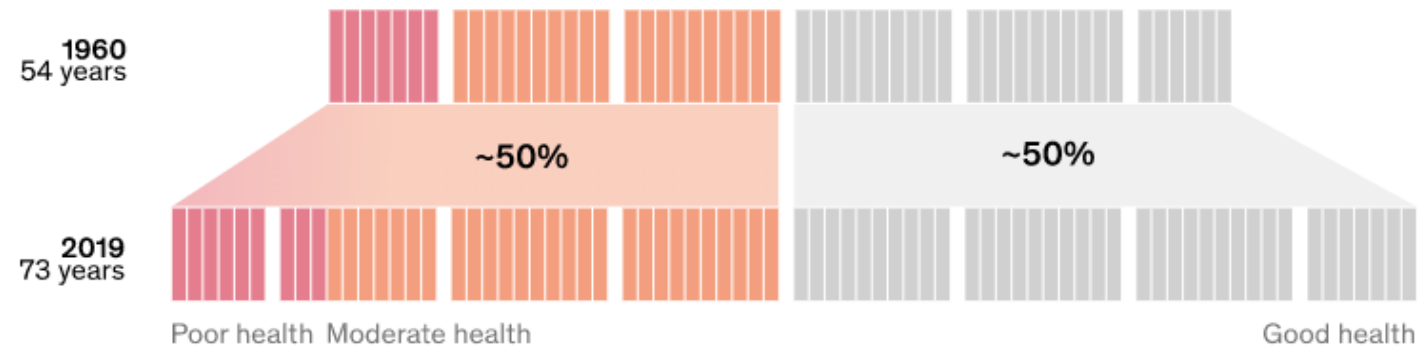
- Number of people worldwide who will be age 65 and older by 2030<sup>1</sup>: **1 in 8**
  - Growth rate of older populations in developed countries between 2010 and 2050<sup>2</sup>: **71%**
- Percentage of older Americans living with one chronic condition: **80%**
  - percentage living with at least two<sup>3</sup>: **50%**
- Expected percentage of Americans living with cardiovascular disease in 2030<sup>4</sup>: **41%**
  - Frequency that an American dies from a coronary event: **one every minute**

The past 60 years have seen massive improvements in global life expectancy ...

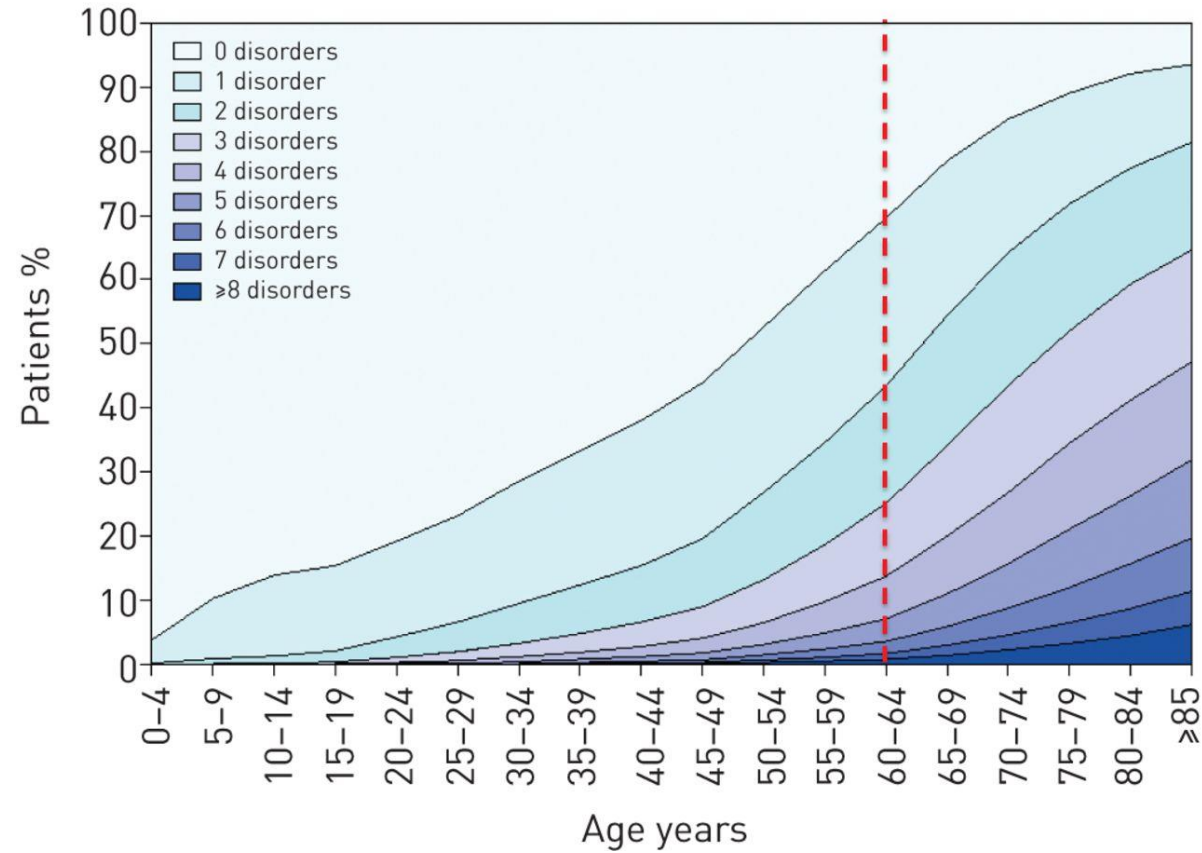
Average global life expectancy and healthy years



...but the proportion of life spent in poor or moderate health has not changed.



# The Number of Comorbidities by Age Stratum





*“We really have not experienced much compression of morbidity to date because **we have reduced mortality more than we prevented morbidity**. Healthspan will be increased when morbidity is decreased, most effectively through raising the age of onset.”*

**- From Lifespan to Healthspan expansion -**



COMPANY

**Centenara Labs**

Swiss-based **clinical** stage biotech company with a **hub-and-spoke model** that **develops regenerative medicine therapies for age-related disorders**



TEAM

Experienced team of **leading pharma drug developers and visionary scientists** working together to build a business that provides the **best translational capabilities** to the novel discoveries



1

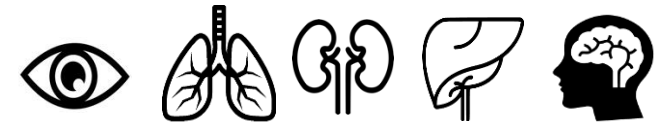
Preserving physical and mental fitness, as well as sensory capabilities, is paramount because it directly impacts the quality of life, enabling individuals to lead active, fulfilling lives well into old age

2

By addressing the root causes of decline in these areas, we offer life-changing therapies that could significantly improve the lives of many people

3

**Our Focus Areas**



**We aim to empower individuals to sustain their independence and well-being, enabling them to enjoy a longer, healthier life**



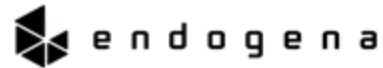


## vascular therapeutics

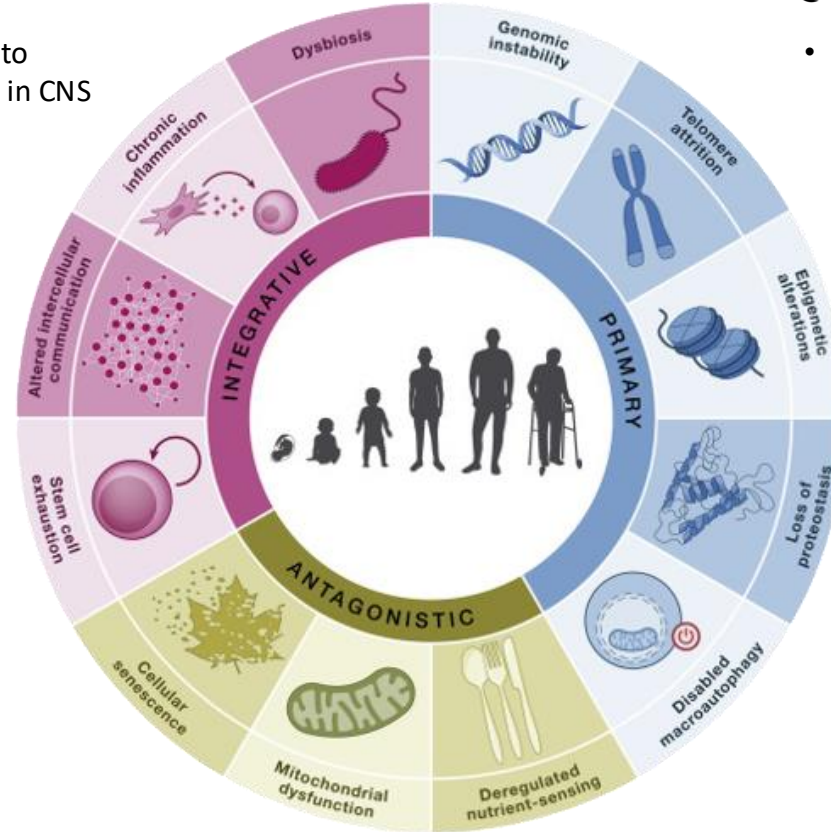
- Targeting brain vasculature to combat age-related decline in CNS function

## telomere therapeutics

- Aiming to restore telomere length, offering potential breakthroughs in aging and disease treatment.



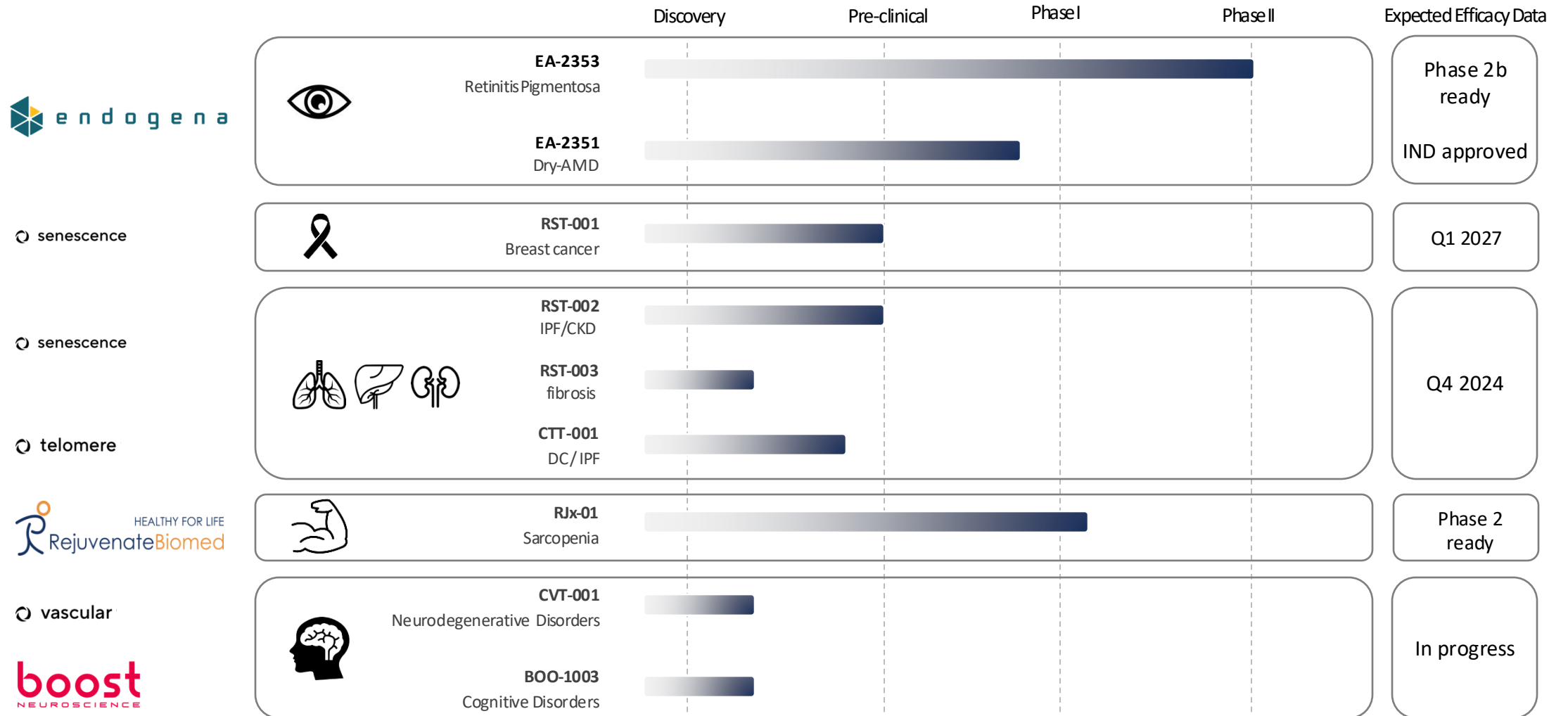
- Retinitis Pigmentosa: Successfully completed Phase 1b/2a clinical study, demonstrating safety and early signs of efficacy. Received FDA Fast Track and Orphan Drug Designations.
- Dry-AMD: Phase 1 study planned to begin in 2025.



- Develops unique combination drugs targeting various age-related diseases with its lead clinical program already demonstrated therapeutic potential in muscle weakness induced sarcopenia.

## senescence therapeutics

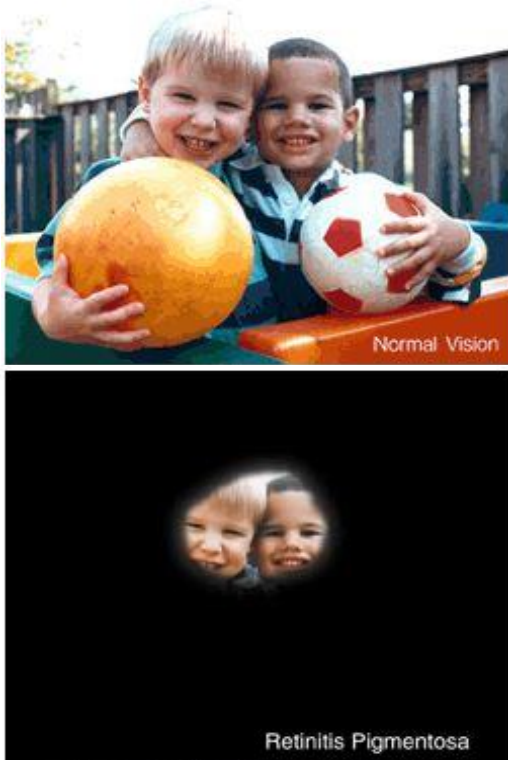
Targeted removal of senescent cells induces a powerful anti-fibrotic effect in a variety of animal models. With several first-in-class targets identified, the platform is pioneering the next generation of fibrosis treatments





**REGENERATIVE MEDICINE**

**Centenara Labs**



## 1 AN UNMET MEDICAL NEED

- Rare, inherited retinal disease (1:4,000) caused by mutations in more than 50 genes, resulting in the degeneration of photoreceptors
- Onset at a young age and most patients are legally blind by age 40
- Reduced quality of life and autonomy
- The only treatment available Luxturna® is mutation-specific gene therapy and targets <1% of all RP patients

## 2 OUR COMPETITIVE EDGE

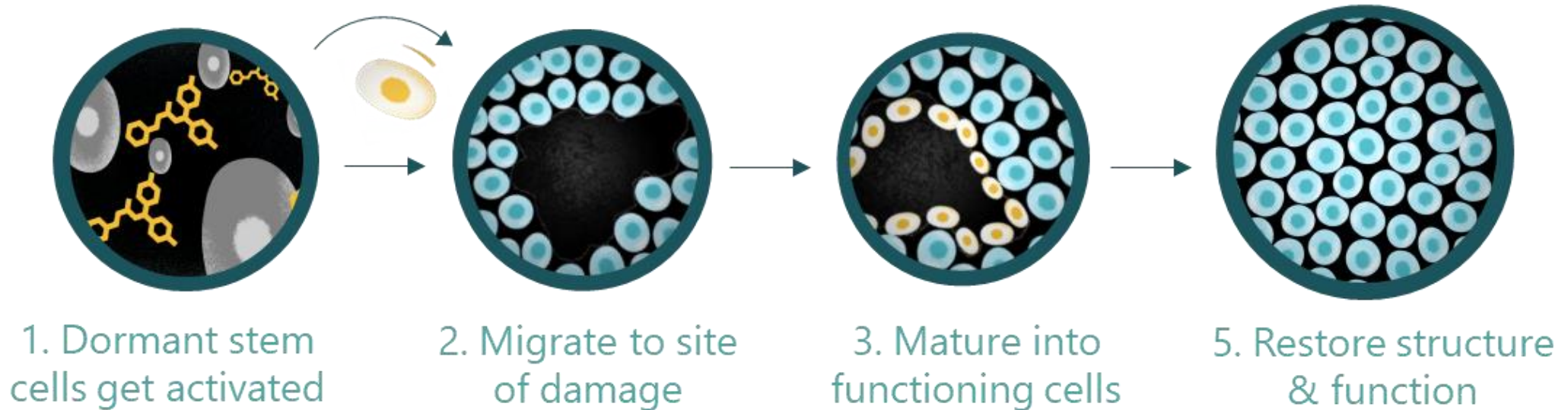
- Gene agnostic to restore anatomy and function and reverse disease progression
- **The only potential treatment for endogenous photoreceptor renewal**
- Small molecules easy to manufacture and with high stability
- Easy to administer in clinic (IVT injection)
- Strong IP position with multiple patents issued

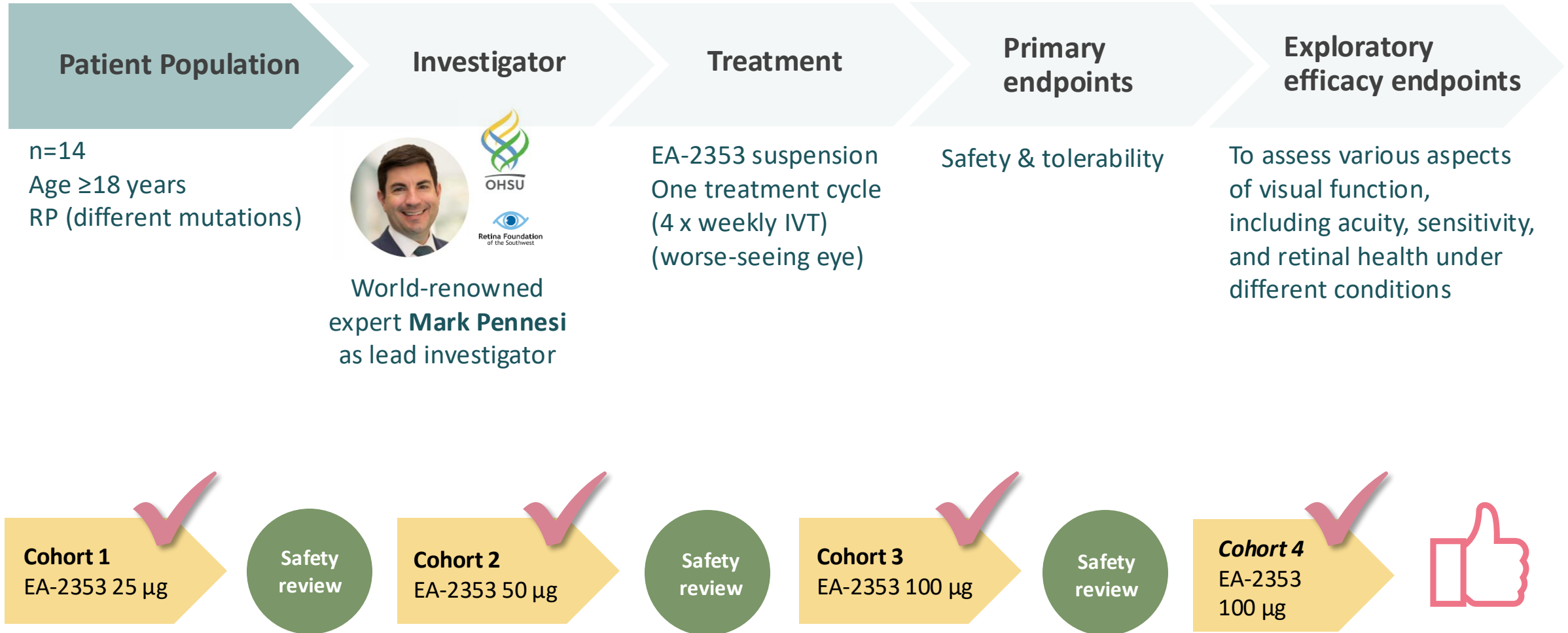
## 3 OUR MARKET POTENTIAL

- 1.5m RP patients worldwide, with 300,000 RP patients in US and EU
- Projected peak worldwide **annual sales \$1.5b**, reflecting the high demand and need for effective treatments

## Unique concept:

Activating endogenous stem cells for regeneration







## Primary objective to prove safety and tolerability - achieved

- EA-2353 up to 100 µg is safe and well tolerated
- No serious adverse events, withdrawals or discontinuations

## Exploratory objective to suggest viable efficacy endpoints for future clinical trials – achieved

- EA-2353 treatment has beneficial effects on retinal structure and visual function in RP patients with advanced disease
- EA-2353 treatment yields positive results

## Well-positioned for the next study

- Identified key investigators and sites with high recruitment potential and high-quality standards
- Acquired insights on optimizing the assessment schedule
- Gained valuable insights into the potential of patient stratification in the next stage of the program

- **Patient 001-001:** After treatment, the patient **can distinguish between coffee and creamer** no longer needing to use his finger to gauge when to stop pouring cream
- **Patient 001-002:** After treatment, the patient **can see the credit card's 3-digit security number** on the back without assistance, which was not possible before
- **Patient 001-004:** After treatment, the patient **no longer needs a walking cane**, as he can now see where he is stepping, a task he struggled with before
- **Patient 003-005:** Could previously not read the cellphone screen, following treatment he **can read the cellphone screen with little difficulty**







**SENESCENCE**

**Centenara Labs**



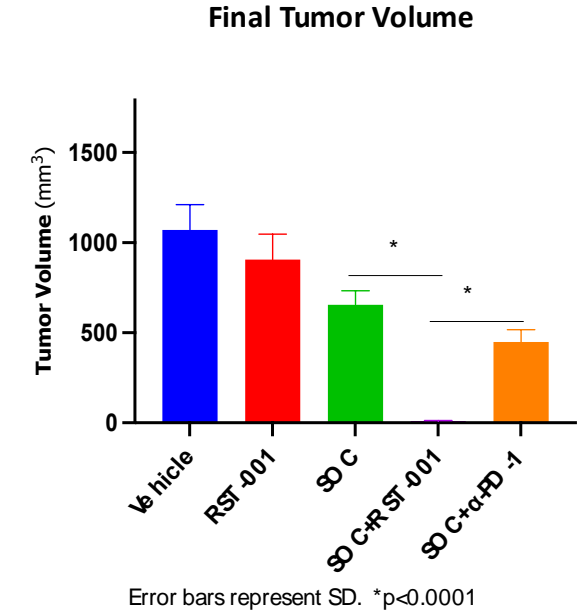
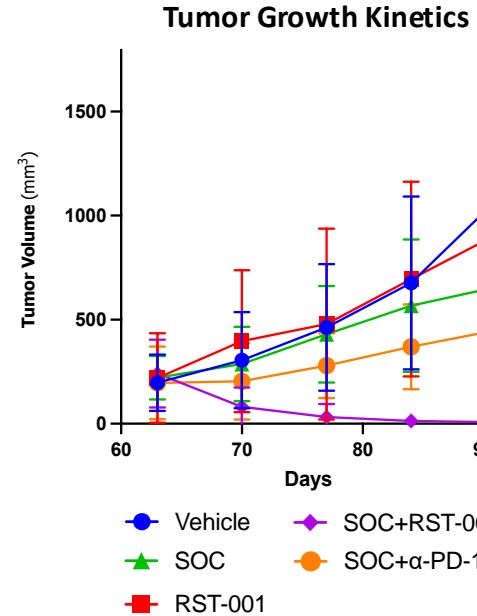
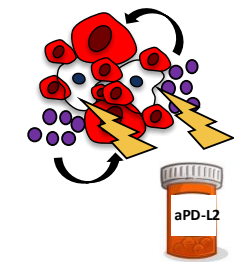
- 1** First-in-class therapies for diseases driven by senescence such as age-related diseases associated with fibrosis and cancer
- 2** Senescent cells are aged cells that stop dividing and stop functioning as they used to. Their presence is associated with the secretion of SASP (inflammatory cytokines), ultimately leading to different pathologies.
- 3** Our scientific co-founder Prof. Manuel Serrano discovered a novel mechanism that senescent tumour cells use to evade the immune system that is undertaken to develop therapies specifically targeting this mechanism
- 4** Overall, targeting senescence is a highly attractive therapeutic strategy given its pleiotropic effects on underlying causes of diseases



TNBC post-SoC

aPD-L2 treatment removes senescent cancer cells

Tumor fully regresses



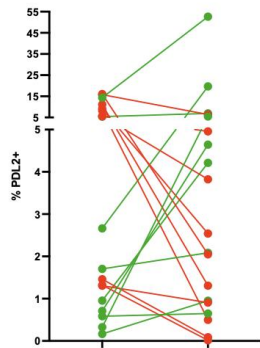
- Combining aPD-L2 with senescence-inducing chemotherapy (doxorubicin) completely ablated tumors in a breast cancer mouse model, whereas aPD-1 plus doxorubicin only induced a moderate reduction in tumor volume
- The maintenance of tumor regression with the aPD-L2 + chemotherapy combination relies on cytotoxic T cell activity, as depleting CD8+ T cell results in tumor regrowth.

- Analysis of target expression in primary tumor samples reveals that aPD-L2 treatment might be effective in 90% of Triple-Negative Breast Cancer cases and 38% of Hormone Receptor-Positive/HER2-Negative (HR+/HER2-) cases
- Mode of action now include activation of innate immunity and Antibody-Dependent Cellular Cytotoxicity (ADCC)
- PD-L2 blockade demonstrates greater efficacy than anti-PD-1/L1 therapies in killing human breast cancer cells in vitro

## PDL-2 expression in primary human TNBC samples

## PDL-2 vs. PD(L)-1

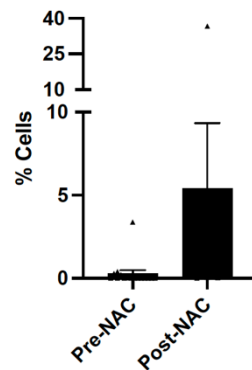
*PD-L2 pre/post-Tx*



Tx: Pre Post

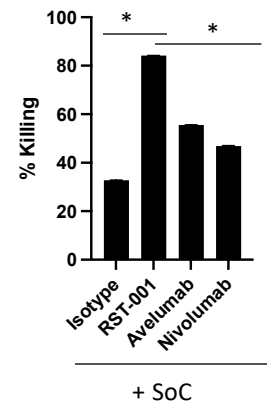
- 90% pts CPS>1%
- 47.4% pts ↑ post-tx

*PD-L2 in senescence*



- % PD-L2<sup>+</sup>/SA-bGal<sup>+</sup> cells ↑ post-tx

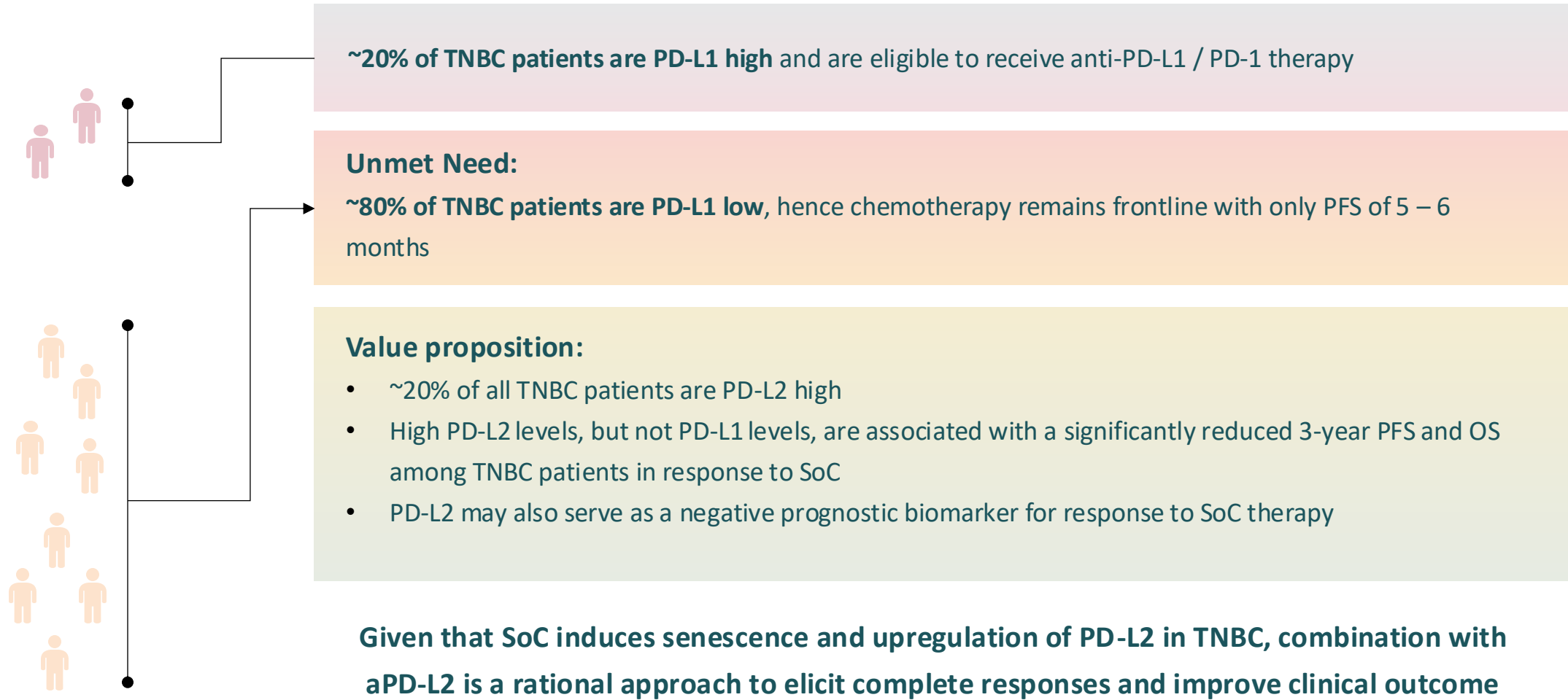
*TNBC killing by immune cells*



- aPD-L2 kills TNBC cells more potently than anti-PD-1/-L1

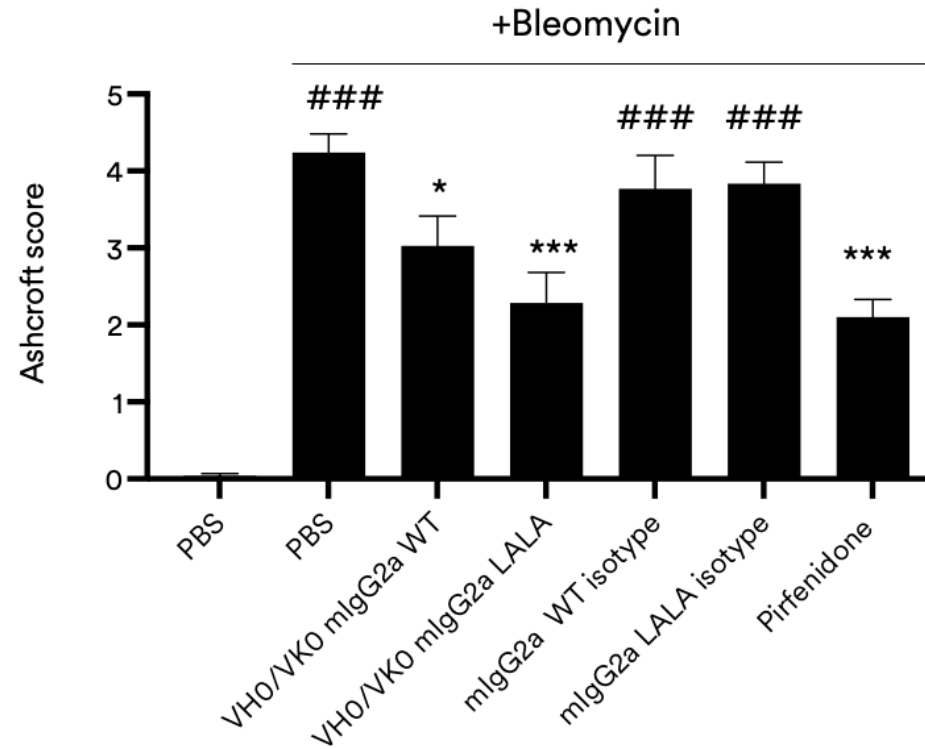
## Pre-clinical

- Cyno half-life translateable to human dosing every 5 weeks
- No overt tox (no cytokine storm or immune cell depletion)
- Oncology trial design for multiple indications including BC





**Idiopathic Pulmonary Fibrosis  
mouse model**



**Anti-PDL2 therapy significantly reduces lung weight and hydroxyproline levels in mice, mirroring the effects of Pirfenidone and establishing aPD-L2 as a potent new treatment option in the battle against IPF**







# Centenara Labs

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Chief Executive Officer

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Curing age-related diseases to help  
people live longer & healthier lives

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