

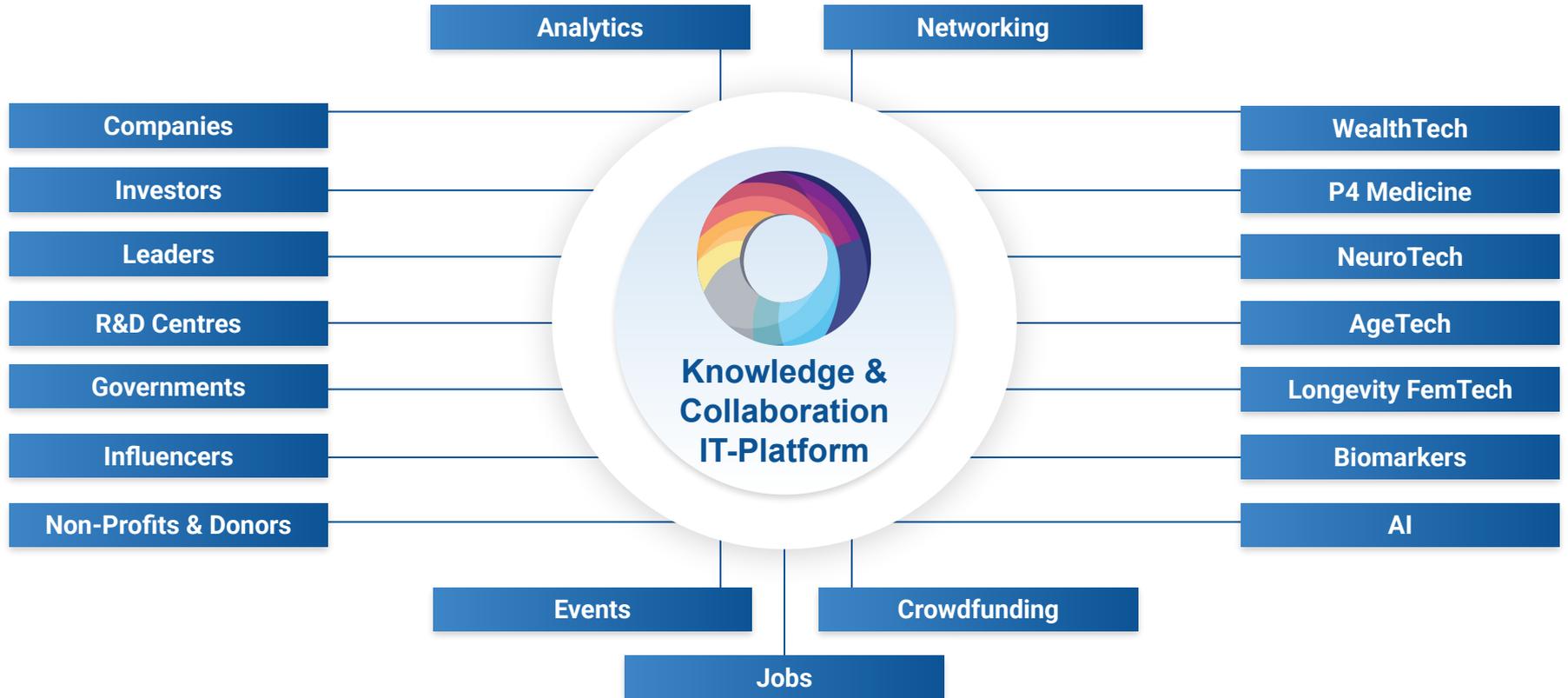


LONGEVITY.INTERNATIONAL

*Decentralized International Longevity Industry
Knowledge and Collaboration Platform*

2024

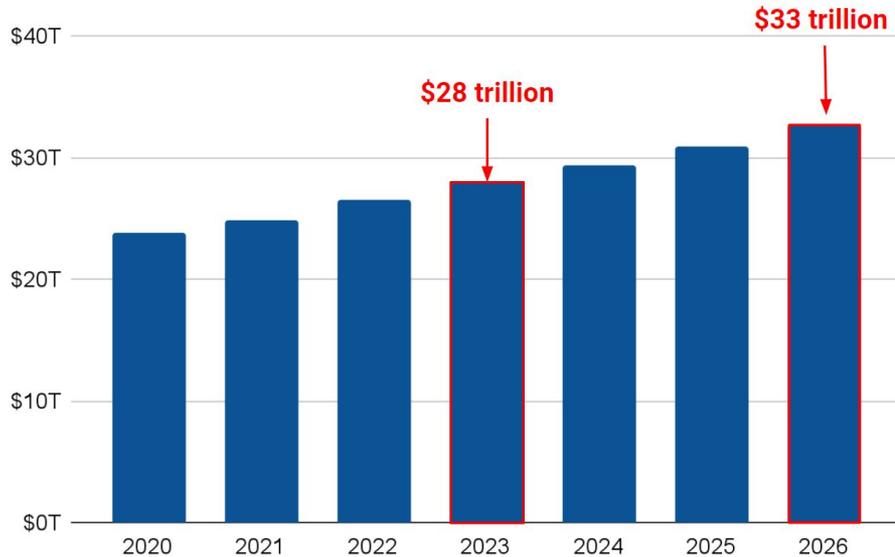
Longevity.International: One-Stop Platform for Longevity Industry Knowledge





Global Longevity Industry \$30+ Trillion by 2026

World Longevity Economy Size Projections



Source: Longevity Investment Digest

The Longevity Industry experiences an active growth in recent years, driven primarily by the oncoming “Silver Tsunami,” a demographic phenomenon that forecasts a growing proportion of retired people in the global population in the coming decade. Yet, for the general public, Longevity industry tends to appear as a vaguely defined market with unclear economic structure.

Deep Knowledge Group aims to overcome this misconception by suggesting a clearly stated economic approach to the Longevity Industry, its sub-sectors, and investment dynamics, which has evolved in the creation of the thematic Longevity & AI Pharma Exchange Traded Fund.

The rationale for this approach is depicted on the graph at the right, where the Longevity Economy size is projected. The graph represents global healthcare spending (ca. \$9 trillion), the combined capitalization of publicly listed Longevity companies (ca. \$6 trillion), the capitalization of Longevity-related insurance and reinsurance companies, banks, and pension funds (ca. \$9 trillion) and privately held Longevity companies (ca. \$1 trillion).

www.aginganalytics.com/investment-digest

Longevity Industrialization is Accelerating



2013-2015	2016-2017	2018	2019	2020-2023
The first approaches	Trial and error in M&A	Industry development	Sustainable growth	The booming
<ul style="list-style-type: none">• The first scalable approaches for longevity biomedicine and biomarkers of ageing were developed• Several industry players started launching pilot collaborations and making small investments.• However, only a few market players believed in anti-aging technologies.	<ul style="list-style-type: none">• Since then the race for the acquisition of longevity startups began.• Testing of the technology began.• Many pilot projects failed due to the lack of scientific validation and immaturity of the technologies, creating a lot of criticism towards the whole industry.	<ul style="list-style-type: none">• Capitalization of the industry was continuously growing.• Many bets of early investors appeared to be justified.• Large financial institutions, as well as government agencies, started to express interest in the longevity industry.	<ul style="list-style-type: none">• Obtaining a significant amount of practical evidence from previous studies.• Rapidly growing competition for the most successful AI pharmaceutical companies.	<ul style="list-style-type: none">• The most advanced startups become mature companies.• Market cooperation and competition increased dramatically.• A full-fledged longevity market infrastructure is being developed with the involvement of large institutional investors, banks, corporations, and governments.

Longevity Industry Size and Diversification Growing



Industry	Finance	Society
50 000+ companies	12000+ investors	1 000 000 000+ consumers
500+ corporations	1500+ financial institutions	8000+ Longevity leaders 40 000+ Longevity peoples
25 sectors	15 sectors	1500+ Universities and R&D centers
114 subsectors	50 subsectors	350+ Governments and non-profit organizations

Scope of Platform Functionalities (Phase I)



The platform has been launched with a number of validated, ready-to-use core components and functionalities, including:

- **[Global Longevity Ecosystem](#)**: an interactive open-source database of 20,000 Longevity companies, 10,000 investors, 15,000 Longevity personalities and thought-leaders, and several thousand R&D hubs and academic labs, developed and donated on behalf of [Aging Analytics Agency](#). The database contains dozens of interactive mindmaps showing sector and regional categorization and distribution, and [advanced search capabilities](#) (allowing users to perform targeted multi-parametric filter and keyword-based searches).
- **[Longevity Biomarkers Industry Ecosystem It-Platform](#)**: an interactive open-source analytical report and IT-Platform providing a comprehensive overview of the global Biomarkers of Aging and Longevity Landscape, including ranking and benchmarking of biomarkers according to ratios of precision and accuracy vs. market-readiness and scalability.
- **[Longevity Events](#)**: a periodically updated interactive database of Longevity conferences, webinars and events.
- **[Supercentenarians Landscape Overview 2020](#)**: a comprehensive analytical report profiling the top longest lived, currently living and socially active supercentenarians.
- **[Longevity Non-profits](#)**: an interactive database of Longevity-focused non-profits, which over the coming months will be expanded to allow for filtered and targeted keyword-based searches, as well as AI-mediated benchmarking of non-profits according to social impact and monetary efficiency.
- **[Peer-to-Peer Text](#) and [Video Networking](#)**: a socially-inclusive text chat, forum and video conferencing environment to allow Longevity Industry participants to connect with one another in a more intelligent, structured, targeted manner.

Partnership with Cambridge University Longevity Society



CAMBRIDGE UNIVERSITY
LONGEVITY
— SOCIETY —

Longevity International seeks to maximize cooperation and collaboration with its institutional cofounders.

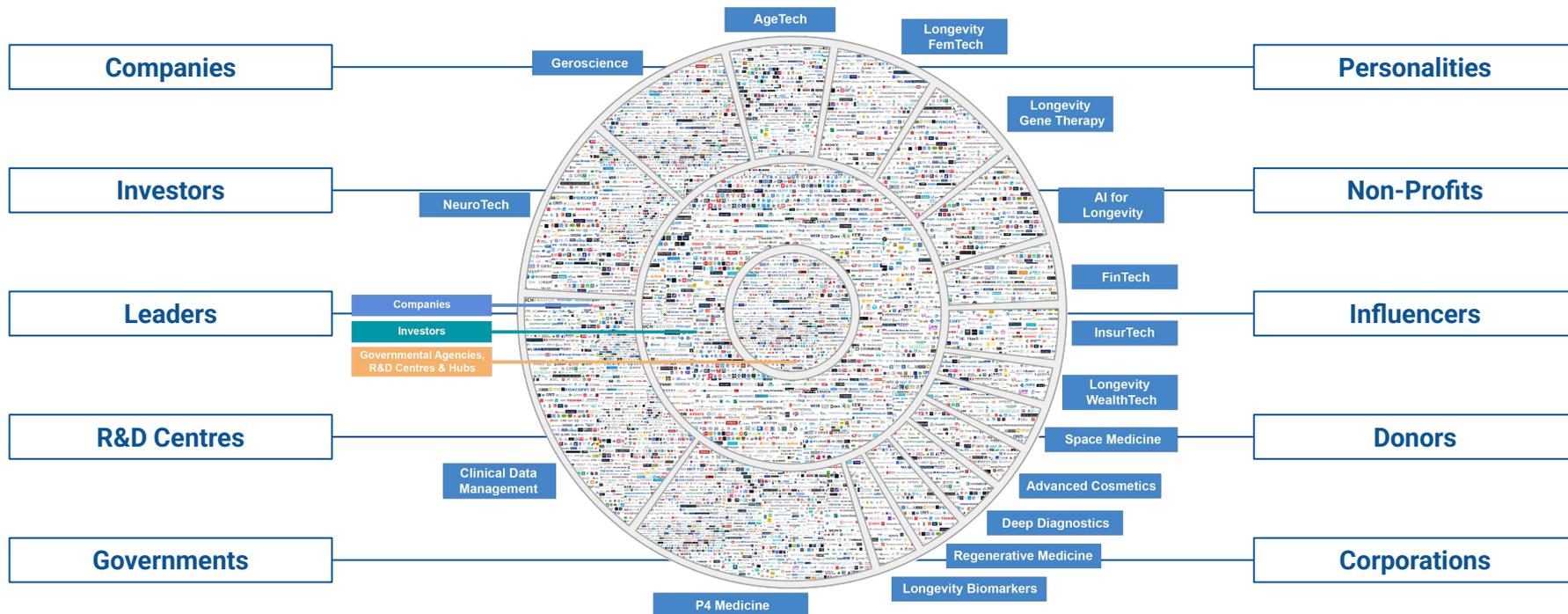
The Cambridge University Longevity Society (CULS) for example aims to promote scientific, philosophical and ethical discussion of longevity. They organise events every week. These include talks and discussion groups on specific subtopics of ageing in addition to socials.

Longevity International is working with CULS on the production of a **Longevity in UK** jobs and internships dashboard and IT Platform, as well as a physical conference held at Cambridge University in late 2021.



Dr. Milan Mušo, President of the Cambridge University Longevity Society (CULS) and Longevity International launch attendee and speaker.

Global Longevity Ecosystem



First Comprehensive Interactive Database of Global Longevity Industry Ecosystem

Distribution of Companies by Sector



Geroscience



Longevity WealthTech



Space Medicine



Deep Diagnostics



Telemedicine



Longevity Biomarkers



FinTech



Longevity FemTech



Regenerative Medicine



Wellness & Fitness



AI for Longevity



InsurTech



Advanced Cosmetics



Longevity Gene Therapy



Mental Health



NeuroTech



AgeTech



Clinical Data Management



P4 Medicine



PharmTech





Industry / Sub-industry Data

Geroscience

Cellular senescence	Deregulated nutrient sensing
Genomic instability	Mitochondrial dysfunction
Loss of proteostasis	Epigenetic alterations
Intracellular communication	Stem cells exhaustion
Telomere attrition	Other

Biomarkers of Longevity

Digital biomarkers	Blood-based
Immunological	Transcriptomic
Epigenetic	Gut/skin microbiome
Neurological	Physiological
Minimally invasive	Other

AI for Longevity

Biomarkers of Aging	Apps & Platforms
Geroscience R&D	Clinical translation
Clinical trial automation	Drug discovery
Machine learning	Deep learning
GANs	Multi-omic analysis

P4 Medicine

Personalized medicine	Preventive medicine
Predictive medicine	Participatory medicine
Diagnostics	Prognostics
Apps & Platforms	Clinics
Preventive therapeutics	Digital health

Longevity FemTech

Sexual Health	Ovarian Rejuvenation
Apps & Platforms	Fertility Tracking
Genomics	Multi-omics
Preventive Care	Disease-specific
Personalized Medicine	Other

AgeTech

TeleHealth	TeleCare
Sensory aids	Smart homes
Community-based care	Financial independence
Mobility tech	Delivery tech
Fall prevention & detection	NeuroTech & cognitive tech

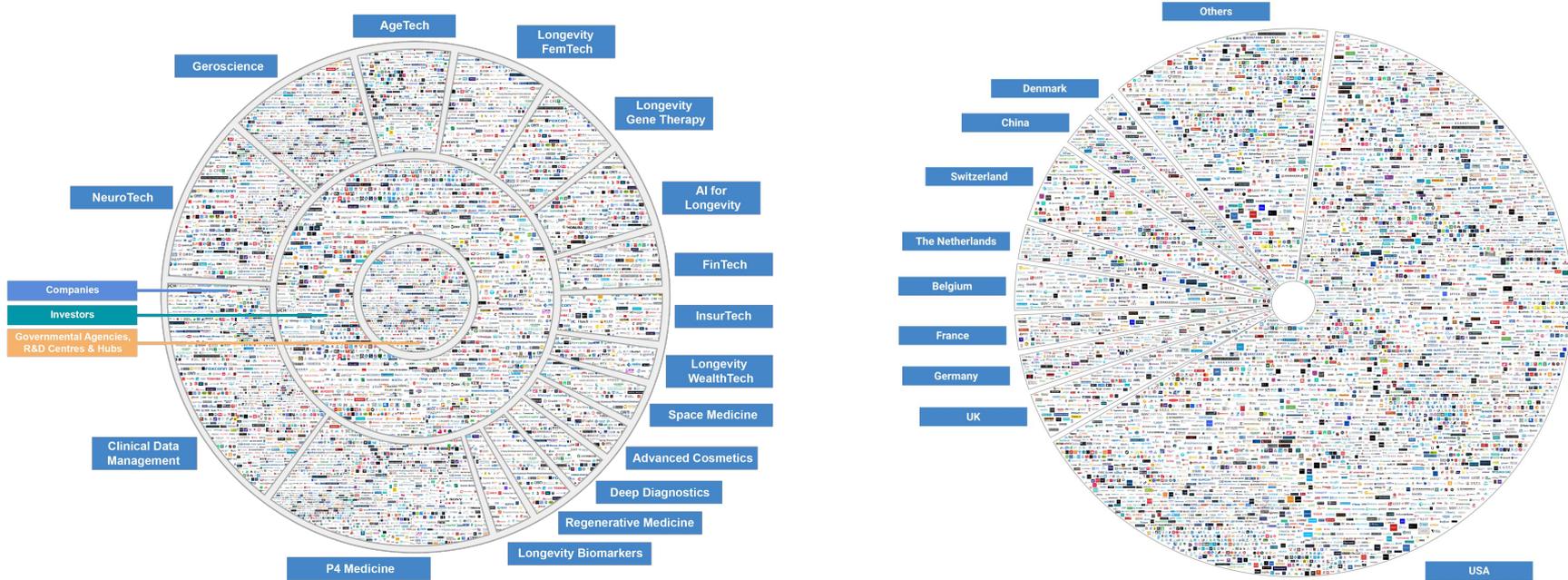
NeuroTech

Brain-computer interfaces	Neuromodulation
Neurofeedback	Neuropharmacology
Cognitive training	Cognitive assessment
Neuroimaging	SleepTech
Mobile apps & platforms	Cognitive enhancement

Longevity WealthTech

Wealth Management	Financial planning
Advisory	Investment consulting
Investment	Financial derivatives
Risk management	Alternative assets
Asset management	Forecasting

Global Longevity Industry Ecosystem (IT-Platform)



The global base of investors, companies, corporations, R&D centers, leaders, individuals, influencers, etc.

AI-Driven Interactive Longevity Industry Database



Advanced Search Option Company, Investor, Industry, Subsector

Year founded

from ÷ to

Total funding, \$ M

- < \$1 M.
- \$1..4 M.
- \$4..16 M.
- \$16..64 M.
- \$64..256 M.
- > \$256 M.

Funding Status

- Early Stage Venture
- Private Equity
- M&A
- Late Stage Venture
- IPO
- Seed

Country

- United States of America
- United Kingdom
- Canada
- Netherlands
- France
- Israel
- China
- Afghanistan
- Albania
- Algeria
- American Samoa

Region

- North America
- South and Central America
- Europe
- Middle East and Africa
- Asia-Pacific

[View all categories](#)

Filter

Suggest Entity Option Company, Investor, Industry, Subsector

Participate in the development of the largest longevity ecosystem database!

Suggest Company

| [Suggest Company](#) | [Suggest Investor](#) | [Suggest R&D Center](#) | [Suggest Person](#) |

Company name: *

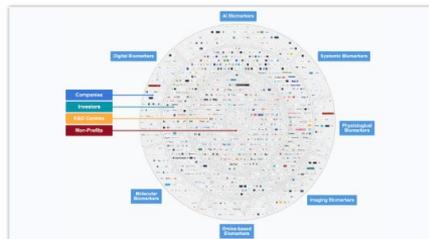
About:

Suggest Entity

Global Longevity Biomarker Landscape Overview



Interactive Mindmap



[View More](#)

Full Report

Longevity Biomarkers
Landscape Overview

Q4 2021

October 2021

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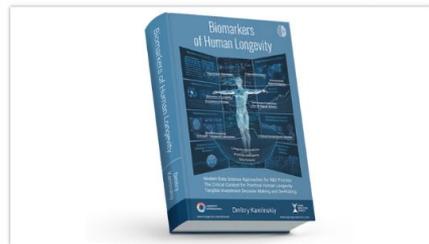
Longevity Biomarker Conferences

Longevity Biomarker Conferences

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Biomarkers of Human Longevity



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One Pager

Category	Count
Genetic Biomarkers	300
Protein Biomarkers	495
Metabolic Biomarkers	235
Cellular Biomarkers	>1000

Longevity Biomarkers Landscape Overview Q4 2021

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Teaser

Longevity Biomarkers
Landscape Overview

Teaser

Q4 2021

October 2021

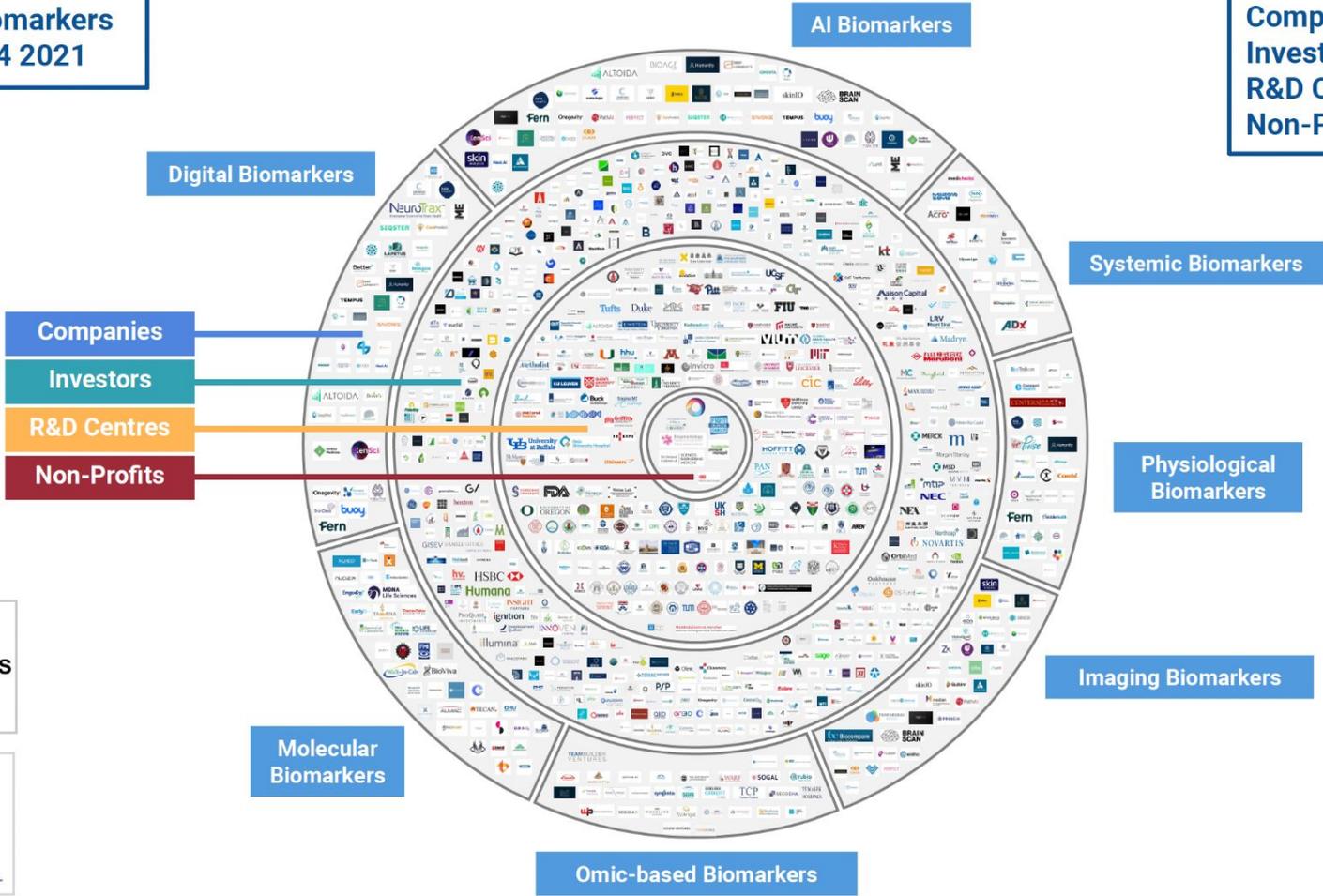
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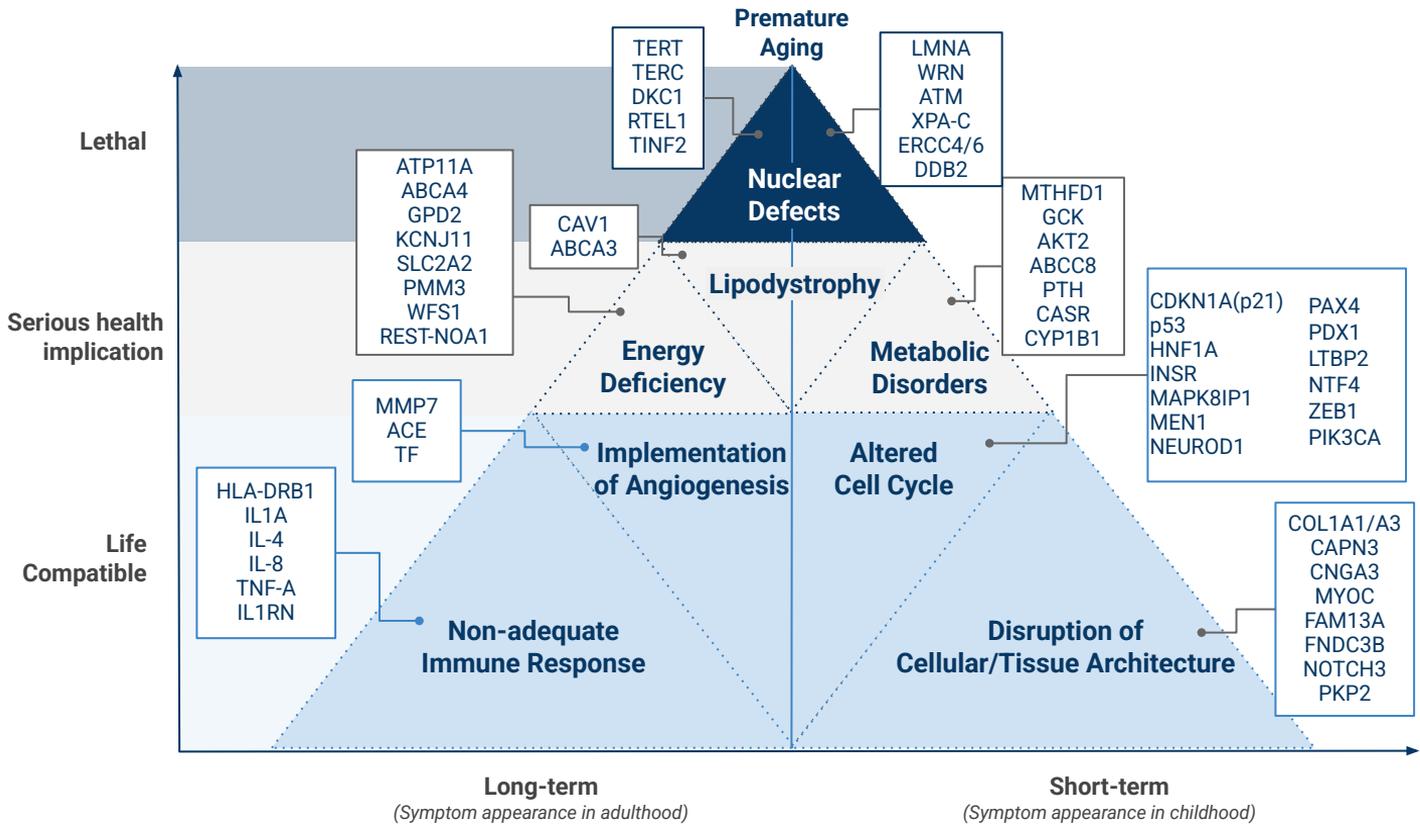
**Longevity Biomarkers
Landscape Q4 2021**

**Companies - 300
Investors - 495
R&D Centres - 235
Non-Profits - 7**





Ranking of Single Genes Involved in Aging Process





Longevity Biomarkers Financial Applications

Longevity Biomarkers show a great value for financial market, allowing engineering of optimized financial instruments and implementation of the biomarkers-based due diligence and valuation

As was shown, many financial instruments can be formulated in terms of the Longevity. This implies the importance of the development different quantifiable biomarkers' assessment approaches. As a result, such approaches can be used for:



It is important, that use of biomarkers in financial areas will positively affect not only institutional or other “big” players. Biomarkers can become a feasible solution for personal risk management too. Additionally, the active implementation of the biomarker-derived data will provide sufficient means for investment risks management, which will optimize the effectiveness of the allocation process. This, in turn, can provide better and more efficient Longevity solutions for the public.

When time is money, biomarkers are the means for wealth management.



Top-Funded Longevity Non-Profits



Only 38 of 50 Longevity Non-Profits publish annual reports on their websites or independent financial websites. The most transparent non-profit organizations are Supportive, Palliative, Geriatric and Political Charities that accounted for 60,5% of all non-profits that publish their reports. Transparency is a key factor in efficient communication with donors, funding sources, and tax authorities. It inspires people's confidence, trust, and willingness to cooperate.



Longevity Non-Profit Organisations Analysis: Distribution by Region



- 30 USA
- 7 UK
- 5 Switzerland
- 4 Canada
- 1 Germany
- 1 Australia
- 1 Russia

The chart illustrates the main locations of the leading non-profits across the globe. The USA, Switzerland and the UK excel for their high concentration of entities, while the accumulation of all countries with fewer than five groups does not reach any of these three alone.

Longevity Governance



Proposal to the United Nations on Optimization of International Longevity Policy and Governance

Coming Soon



National Longevity Development Plans: Global Overview METABESITY2019

Read More



Metabesity and Longevity: USA Special Case Study

Read More



WORLD HEALTH ORGANIZATION PROPOSAL

Response to the World Health Organization's "Decade of Healthy Aging: 2020 – 2030 Draft Zero Action Plan"

View Proposal

appg longevity PROPOSAL

Proposal to the APPG for Longevity's " National Strategy for Five More Years of Healthy Life Expectancy While Closing the Social Gap by 2035: Call for Evidence and Solutions

View Proposal



Metabesity and Longevity: USA Special Case Study (Joint Project with Targeting Metabesity)

Coming Soon

Interactive Database of 2000 Longevity Personalities (Thought Leaders, Executives and Industry Professionals)



2000 Longevity Leaders
Longevity Legends



2000 Longevity Leaders
Donors



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2000 Longevity Leaders
Longevity Financial Industry



2000 Longevity Leaders
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2000 Longevity Leaders



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