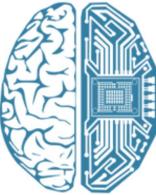


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**LONGEVITY
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Longevity Vision Fund



Longevity.Capital

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sens research foundation
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SENS Research Foundation



Longevityinternational.org

Advisors



Sergey Young is Innovation Board Member at XPRIZE Foundation, Development Sponsor of Longevity XPRIZE, and Founder of the \$100M Longevity Vision Fund. The mission of the fund is to accelerate longevity breakthroughs by investing in technologies, products, and services that extend human lifespans and overcome the negative effects of aging in an affordable and accessible way. Sergey Young's 20-year investment expertise includes managing a private equity fund with \$2bn in assets and co-founding Peak State Ventures, a US-based fund focused on new technologies in Real Estate, Digital Healthcare and the Future of Work.

"Global longevity has gone from underfunded sector to a booming industry embraced by investors, scientists and the media within just a few years. I launched Longevity Vision Fund to help at least 1 billion people to live longer and healthier lives through investing into companies working at the forefront of science and technology. This open-access report, landscaping Longevity Industry efforts in California, reflects only a small portion of the enormous volume of activities aiming to extend healthy human longevity that are happening around the world."



Aubrey de Grey is an English author and biomedical gerontologist. Aubrey is the Chief Science Officer of the SENS Research Foundation and VP of New Technology Discovery at AgeX Therapeutics. He is editor-in-chief of the academic journal Rejuvenation Research, author of The Mitochondrial Free Radical Theory of Aging (1999) and co-author of Ending Aging (2007). He is known for his view that medical technology may enable human beings alive today not to die from age-related causes. He is also an amateur mathematician who has contributed to the study of the Hadwiger–Nelson problem.

"This report charts the current landscape of California geroscience, as well as a wide range of important life-extending technologies. California is one of the birthplaces of biotechnology, and, as the place where the science of biogerontology first met the technology of regenerative medicine, it can now also be styled the birthplace of rejuvenation biotechnology, and the place where the first shots in the war on aging were fired. As the war on aging goes global, California will remain an important field of battle for decades to come."

Advisors



Robin Starbuck Farmanfarmaian is a professional speaker, entrepreneur and angel investor working on companies in cutting edge tech poised to impact 100M people or more. With over 125 speaking engagements in 12 countries, she educates audiences on technology, the future of healthcare, patient empowerment, building thought leadership, and more. Her first book, "The Patient as CEO: How Technology Empowers the Healthcare Consumer", is a #1 Best Seller on Amazon. Her 2nd book published in March, 2019: "The Thought Leader Formula: Strategically Leverage Your Expertise to Drive Business & Career Goals".

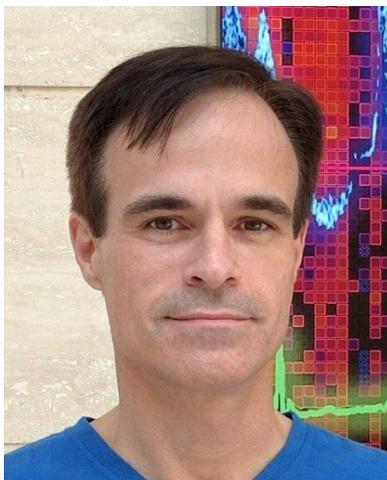
"This report shows why California has been and will continue to be a global hub of the future of healthcare, longevity and precision medicine. Advances in healthcare and in personalized and preventive medicine are happening at breakneck speed, and individuals have never had more tools and technologies available for gaining power over their own health and longevity than they have today."



Zoltan Istvan is widely recognized for helping spearhead the modern-day transhumanist movement, which advocates for using radical science to improve and evolve the human being. Zoltan's public work has received hundreds of millions of views, much of it through his political and science activism. He was the 2016 presidential candidate for the Transhumanist Party and toured the country in the Immortality Bus, which he used to deliver the original Transhumanist Bill of Rights to the US Capitol. Zoltan has spoken at the World Bank, the World Economic Forum, Microsoft, Harvard, and was the opening keynote at the Financial Times Camp Alherville. He is a graduate of Columbia University, and lives in San Francisco. Zoltan is the subject of the award-winning 2019 feature documentary: Immortality Or Bust.

"California is the epicenter of the longevity industry. With massive financial resources, unlimited intellectual talent, and perfect weather, people are moving from all over the world to create their longevity start-ups here in California. I fully expect the first people to overcome aging to be in California using California-created tech."

Supporters



Kevin Perrott is a cancer survivor and founder and CEO of OpenCures, a health data-management platform that empowers individuals performing self-directed research. OpenCures helps individuals measure their health at an unprecedented level of resolution and focus the value of their health data on the research problems they are interested in. Using an innovative, HIPAA-compliant, collaborative data sharing platform and cutting-edge diagnostics, people can share, combine, and focus the value of their protocols and aggregate health data to create their own health solutions. Dr. Perrott is also cofounder of Oisín Biotechnologies, a biotech company focused on therapies for age-related disease by “reprogramming” cells using a non-toxic and non-immunogenic gene-delivery mechanism. He cofounded SENS Research Foundation, a non-profit focused on developing rejuvenation biotechnologies using the damage-repair paradigm of aging. He has a PhD for work done in the lab of Judith Campisi at the Buck Institute for Research on Aging focused on reducing the harmful effects of senescent cells.

“Today millions suffer from age-related degeneration. It is a universal and complex problem facing us all, defying piecemeal solution. Never before has it been more important to systematically survey who the leading players are doing the best research and delivering real-world products able to extend healthy lifespan and California is “ground zero” for the explosion of companies focused on developing those technologies. This report is a fantastic resource for anyone needing an overview of the landscape of the Longevity Industry to serve as a starting point or reference to help them pursue their own longevity aspirations.”



Keith Comito is President of the Life Extension Advocacy Foundation. Keith Comito is a computer programmer and mathematician whose work brings together a variety of disciplines to provoke thought and promote social change. He has created video games, bioinformatics programs, musical applications, and biotechnology projects featured in Forbes and NPR. In addition to developing high-profile mobile applications such as HBO Now and MLB AtBat, he explores the intersection of technology and biology at the Brooklyn community lab Genspace, where he helped to create games which allow players to direct the motion of microscopic organisms. Seeing age-related disease as one of the most profound problems facing humanity, he now works to accelerate and democratize longevity research efforts through initiatives such as Lifespan.io.

“California, itself the world’s fifth-largest economy, is one of the few states proactively meeting the personal, societal, and economic challenges posed by an aging population. This report details its unique position to demonstrate, both to the rest of the United States as well as the world, how thoughtful policy decisions and aging-focused state-sponsored initiatives can turn these challenges into opportunities: engendering both a sustainable healthcare economy, as well as increased healthy lifespan and happiness for individuals.”

Editors



Kate Batz is Vice President of Business Development at Deep Knowledge Ventures and Aging Analytics Agency, supervising activities in the United States. She is an experienced corporate attorney licensed to practice law in California and New York, with an extensive sales and marketing background. At the beginning of her career, Kate was involved with international litigation when she worked for a former Pennsylvania state senator. As a corporate attorney, Kate worked with several Fortune 500 clients. Compelled by the paradigm-shifting advances in science and technology in the fields of aging and Longevity, Kate enthusiastically joined Deep Knowledge Ventures and Aging Analytics Agency. Kate served as a Managing Editor for Longevity Industry in California: Landscape Overview 2019 report.

"Aging Analytics Agency has been producing landscape overviews of both the Global Longevity Industry and related regional case studies for a number of years, long before mainstream recognition of this sphere. These reports were necessary to grasp the entire scope of the Longevity industry and to gain a concrete understanding of its key players, laying the foundation for the agency's proprietary analytics and industry benchmarking. The choice of California for our next regional case study was obvious, and it is clear that the state is one of the leading catalysts of the Global Longevity Industry and a literal nuclear reactor for advancing Longevity science, driven by progress in AI, precision and preventive biomedicine and geroscience. California will undoubtedly continue to play a prominent role in this trajectory, helping the industry grow into the multi-trillion dollar giant it is destined to become."



Dmitry Kaminskiy is Managing Partner of Deep Knowledge Ventures and Founder of Longevity.Capital. An innovative entrepreneur and investor active in the DeepTech and is a frequent speaker on the topics of AI and Longevity at conferences organized in London by The Economist "Aging Societies and The Business of Longevity", Financial Times "Global Pharmaceutical and Biotechnology Conference", at the "Precision Medicine World Conference" in Silicon Valley as well as several others at Oxford and Cambridge Universities. He is actively involved in the work of the All-Party Parliamentary Group (APPG) for Longevity in the UK Parliament, now serving as co-director of the APPG secretariat, overseeing the APPG's international Longevity cooperation development division and is supervising all of the APPG's activities related to the concept of establishing Centres of Artificial intelligence for Preventive Medicine and Longevity in the UK.

"The future of the Longevity Industry not only has the logical potential to become the wealthiest industry in all of history, but also represents the most ethical way of doing business, and one of the greatest humanitarian efforts being done today. It is an all-encompassing sphere that touches many of the most important sectors and aspects of society today - from health and wellbeing to wealth and finance, disrupting healthcare and national economies through the convergence of advanced biomedicine, AI, geroscience and novel financial system. But countries looking to capture their fair share of the oncoming multi-trillion dollar market of 1 billion people in retirement should focus their efforts on the synergetic development of medicine, finance and national government-led Longevity development plans, not in isolation, but in accelerative convergence."



AGING ANALYTICS AGENCY

www.aginganalytics.com | info@aginganalytics.com

Aging Analytics Agency is the world's premier provider of industry analytics on the topics of Longevity, Precision Preventive Medicine and Economics of Ageing, and the convergence of technologies such as AI, Blockchain, Digital Health and their impact on the healthcare industry. The company provides strategic consulting services in fields relating to Longevity, and currently serves as the primary source of analytics and data for the UK All-Party Parliamentary Group for Longevity.



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www.dka.global | info@dka.global

Deep Knowledge Analytics is the leading DeepTech-focused analytical agency, producing advanced analytical reports on DeepTech and frontier-technology industries using sophisticated multi-dimensional analytical frameworks and algorithmic methods that combine hundreds of specially-designed and specifically-weighted metrics and parameters to deliver sophisticated market intelligence, pragmatic forecasting and tangible industry benchmarking.



www.lvf.vc | info@lvf.vc

Longevity Vision Fund is a \$100M life extension-focused investment fund dedicated to making longevity affordable and accessible to all. The fund accelerates breakthroughs in longevity by investing in startups and companies that develop technologies, products, and services that extend human lifespans and overcome the negative effects of aging. Founded by Sergey Young, XRPIZE Innovation Board Member and Longevity XPRIZE Development Sponsor.



LONGEVITY.CAPITAL

www.longevity.capital | info@longevity.capital

Longevity.Capital is a specialised Longevity Industry Index Hedge Fund with enhanced liquidity that uses hybrid investment technologies to combine the profitability of venture funds with the liquidity of hedge funds, thus significantly de-risking the interests of LPs and providing the best and most promising Longevity companies with adequate amounts of investment.



www.sens.org | foundation@sens.org

SENS Research Foundation works to develop, promote, and ensure widespread access to therapies that cure and prevent the diseases and disabilities of aging by comprehensively repairing the damage that builds up in our bodies over time. They are redefining the way the world researches and treats age-related ill health, while inspiring the next generation of biomedical scientists.



www.longevityinternational.org | info@longevityinternational.org

Longevity International UK is the Secretariat for the UK All-Party Parliamentary Group for Longevity, structured as a social enterprise bringing together start-ups, industry, academic and governmental stakeholders under one umbrella to provide a unified voice and coordinating vehicle for positive discourse and change to ensure the 'longevity dividend' is accessible to everyone.