

# **NAM Grand Challenge: Creating a Global Roadmap for Healthy Longevity**

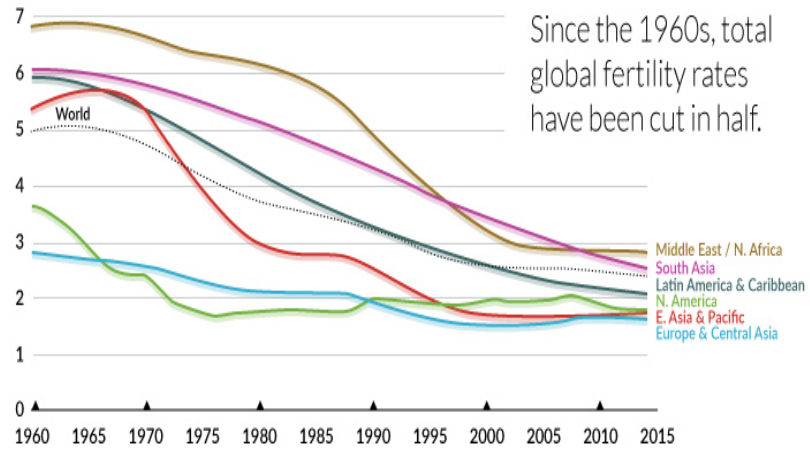
**Victor J Dzau, MD**  
President, US National Academy of Medicine

February 3, 2020

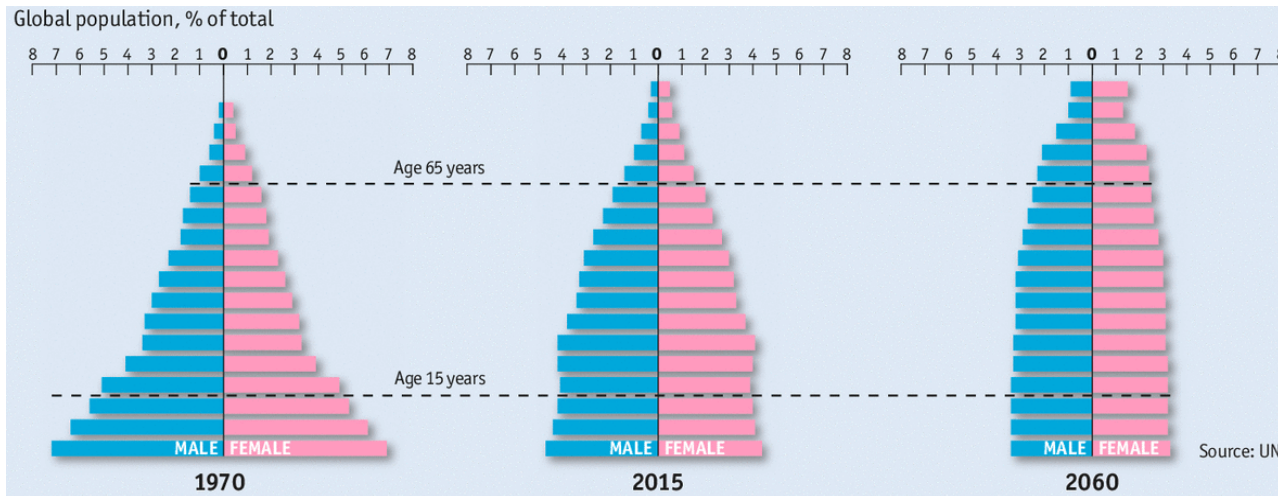
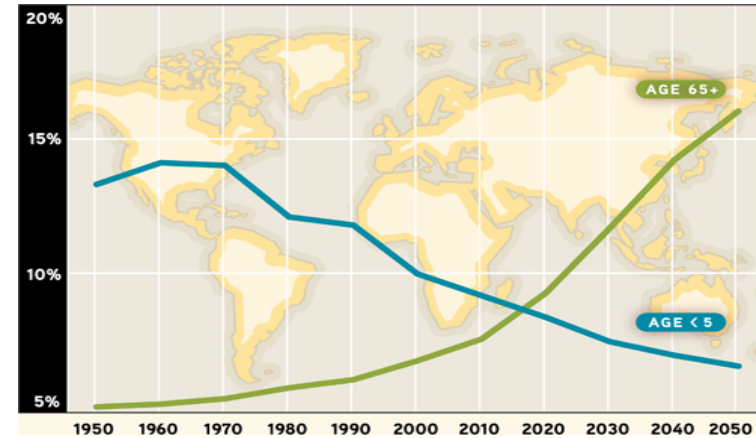


Founded in 1970 as the Institute of Medicine

## Decrease in global fertility rate



In 2050, ~18 % of global population (1.6 B) will be 65+  
 In 2050, ~6% of global population will be under 5



**In both industrialized and developing countries, the rate of population aging stands to fundamentally impact how families, communities, societies, industries and economies function**

- Chronic diseases: patterns and prevalence
- Health care delivery and financing
- Family structure and relationships
- Social infrastructure
- Social insurance and retirement programs
- Workforce size and composition

# Are we prepared?

- Overall, very mixed levels of preparedness globally (CSIS Global Aging Preparedness Index; HelpAge International Global Age Watch Index)
  - *Very few countries have made significant additional progress in reducing the projected magnitude of their old-age dependency burdens*
  - *Many countries that do well on one dimension of “aging preparedness” do poorly on the other... There are also few countries that fail to score well on either dimension of aging preparedness*
  - While some countries and governments have begun to act and are starting plan for the long-term, too many have not
- ***Preparing financially, socially, and scientifically for longer lifespans is a global imperative***

# Realizing the Healthy Longevity Dividend

- Mitigating the challenges and potential burdens posed by global aging will require broad, systematic change and deliberative action across
  - Basic and translational science
  - Clinical medicine and health care
  - Personal, social, economic, and environmental determinants
  - Policy and financing
- There is a need for a comprehensive and global assessment of the challenges facing the aging population, including the promising solutions and directions required for improving health, productivity, and quality of life

# Achieving Healthy Longevity: NAM Grand Challenge

“Inspire the nation to coalesce around shared priorities and audacious goals for addressing the big challenges and opportunities in science and medicine.” (Dzau 2015)

Set aspirational and open-ended goals to inspire action at many levels.

1. Comprehensively address the challenges and opportunities presented by global population aging;
2. Address social, economic, political, and other environmental factors that affect the health of the aging population;
3. Catalyze breakthrough ideas and research that will extend the human healthspan;
4. Generate transformative and scalable innovations worldwide; and
5. Build a dynamic network of support for healthy longevity, encompassing health care, social factors, economics, research and innovation, industry, policy, community, and beyond.

U.S. NATIONAL  
ACADEMY OF MEDICINE

# Healthy Longevity

GLOBAL GRAND CHALLENGE



Global Roadmap for  
Healthy Longevity

Healthy Longevity  
Global Competition

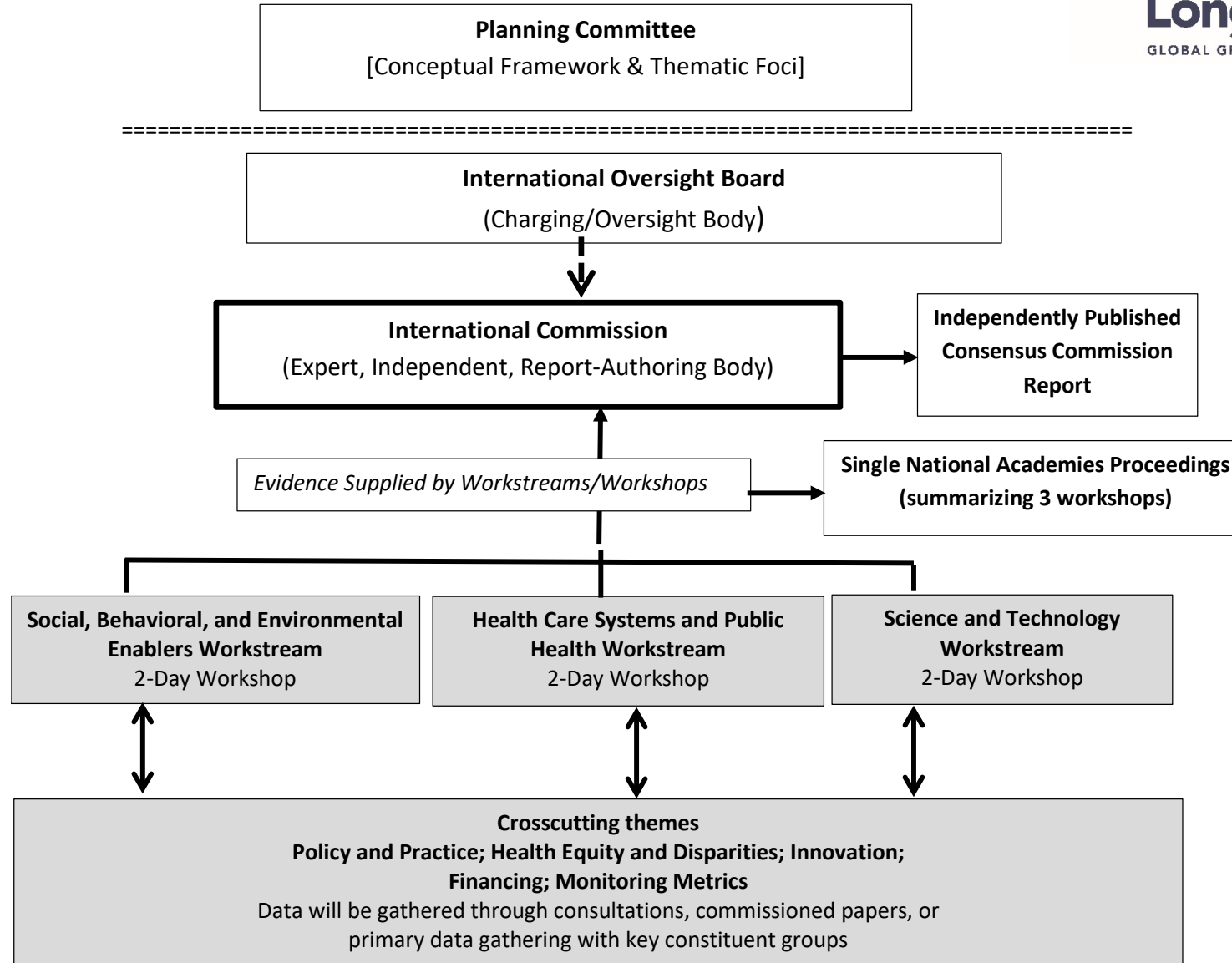
- **Comprehensive assessment of the challenges and opportunities presented by global aging, as well as the promising solutions and necessary directions for improving, health, productivity, and quality of life**
- **Catalyze breakthrough ideas and research that will extend the healthspan**
- **Achieve transformative and scalable innovation in healthy aging and longevity**
- **Build a broad ecosystem of support.**

# Global Roadmap for Healthy Longevity



# Statement of Task: Overview

- An international commission will be convened to assess the challenges presented by global aging and demonstrate how these challenges can be translated into opportunities for societies globally.
- The commission will assess the evidence across three domains:
  - social, behavioral, and environmental enablers;
  - health care systems and public health;
  - and science and technology.
- The commission will consider cross-cutting themes including
  - policy and practice;
  - health equity and disparities;
  - innovation;
  - financing;
  - and monitoring and metrics
- The commission will produce a roadmap with actionable recommendations to guide stakeholders in devising integrated, systems-based approaches



# International Commission

**Linda Fried, Co-Chair**

Columbia University

**John Eu-Li Wong, Co-Chair**

The National University of Singapore

**Isabella Aboderin**

African Population and Health Research Center

**Ann Aerts**

Novartis Foundation

**John Beard**

WHO Department of Ageing and Life-Course  
(former)

**Lisa Berkman**

Harvard Center for Population and Development  
Studies

**Laura Carstensen**

Stanford University

**Michele J. Grimm**

Michigan State University

**Paul Irving**

Milken Institute Center for the Future of Aging

**Mehmood Khan**

Life Biosciences

**Mosa Moshabela**

University of KwaZulu-Natal, South Africa

**Hiroki Nakatani**

Keio University, Japan

**John Piggott**

Australian Institute for  
Population Ageing Research

**Jennie Popay**

Lancaster University

**John (Jack) W. Rowe**

Columbia University

**Jeanette Vega**

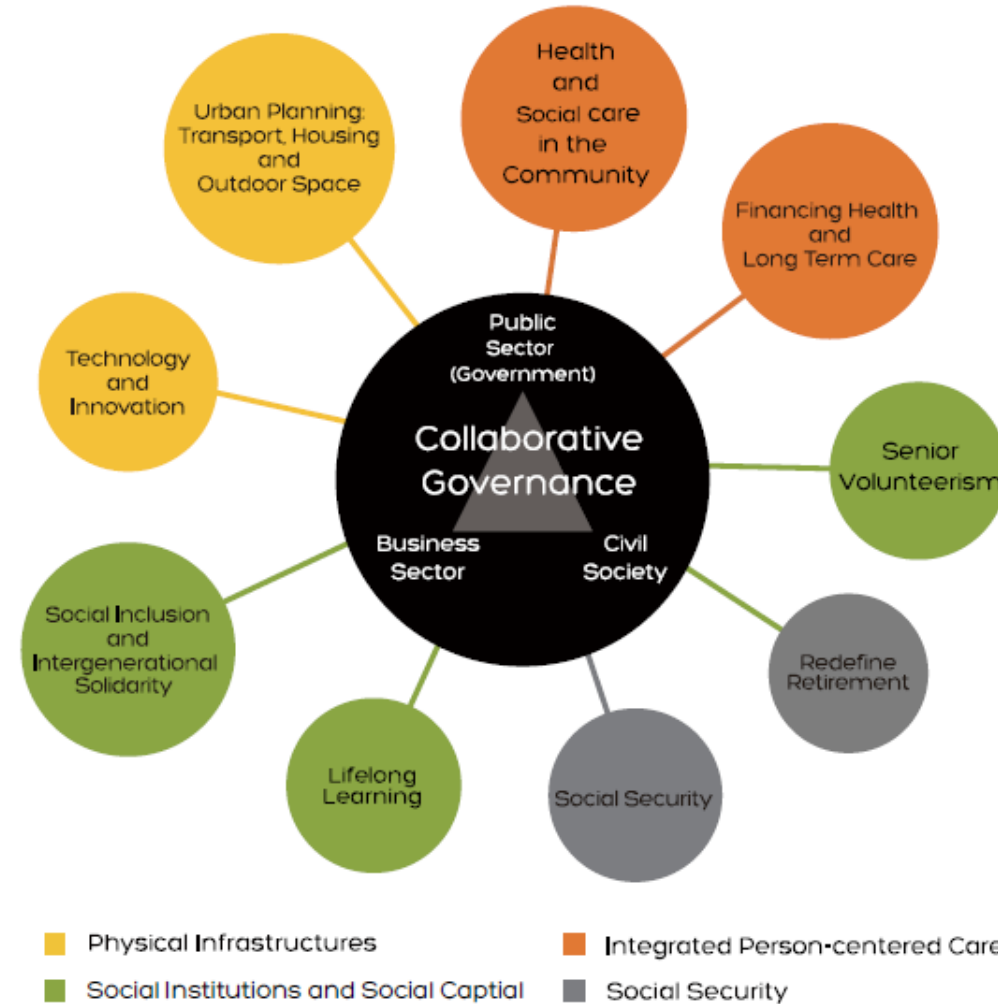
Red de Salud UC-Christus, Chile

**Eric Verdin**

Buck Institute for Research on Aging

*Representing 8 different countries and 6 continents*

# A Vision for Healthy Longevity



Source: Adapted from World Health Organization (2015)

Source: Yeoh, E.K. and L.H.Y. Angel, 2017

# Workshop Goals

This workshop will examine potential approaches and reforms across the entire spectrum of norms, institutions, and systems that provide health- and social-related services to address the multidimensional needs of older populations.

This workshop discuss the following topics:

- Existing evidence on the entire system of health care, health promotion, and preventive services for aging populations. These discussions will also identify the potential for innovative new approaches in these areas;
- Critical challenges and gaps in the current workforce;
- Key successes and failures of policies and programs across the life course that affect healthy longevity;
- Health financing and policy tools to guide effective multi-sectoral solutions and actions to reform health systems in ways that will that have a positive impact on aging;
- The potential for new data approaches, health information tools and innovations; and
- Effective mechanisms for stimulating meaningful collaboration among relevant stakeholders across sectors and disciplines.

# Thank you

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