

# Transportation & Health

**Victor J. Dzau, MD**

President, National Academy of Medicine

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NATIONAL ACADEMY OF MEDICINE

Leadership • Innovation • Impact | *for a healthier future*

# Transportation & Health



## Transportation:

- related injuries and fatalities
- and the spread of disease
- and its environmental footprint
- as a social determinant of health
  - to enable health improvement
  - as access to care
  - to enhance mobility of elderly and disabled

# TRB & NAM-HMD: Topical Opportunities

- Making transportation safer
  - Addressing policy needs, including those related to behavioral risk factors
  - Designing safe, affordable, user-friendly, and equitable technology
- Utilizing systems approach to improve transit and public health
  - Improving health through transit innovation (previous slide)
- Creating transportation options to enable mobility and quality of life, improve access to care and vital services, and promote health
- Transportation to provide remote access to medical supplies and resources
  - Innovative methods to access remote areas and enable access to health and health care
- Designing resilient and healthy communities and infrastructure
  - Support urban development strategies which support health
- Reducing transportation's environmental footprint
  - NAM Climate Roadmap
  - Electrifying vehicles



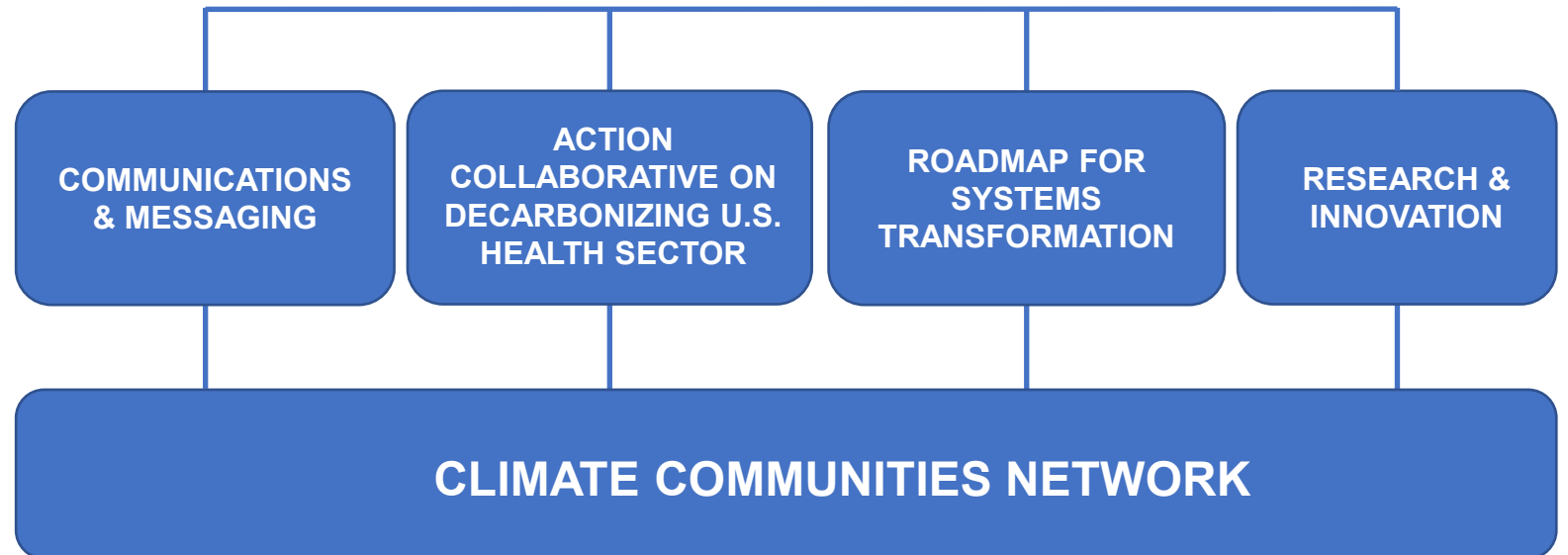
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**GRAND CHALLENGE ON  
CLIMATE CHANGE,  
HUMAN HEALTH & EQUITY**

***Improve and protect human health, well-being, and equity by working to transform systems that both contribute to and are impacted by climate change***

**Strategic objectives**

- Communicate the climate crisis as a public health and equity crisis
- Catalyze the U.S. health sector to reduce its carbon footprint
- Develop a roadmap for systems transformation
- Accelerate research and innovation
- Reduce climate-related health inequities

**Programmatic Pillars**

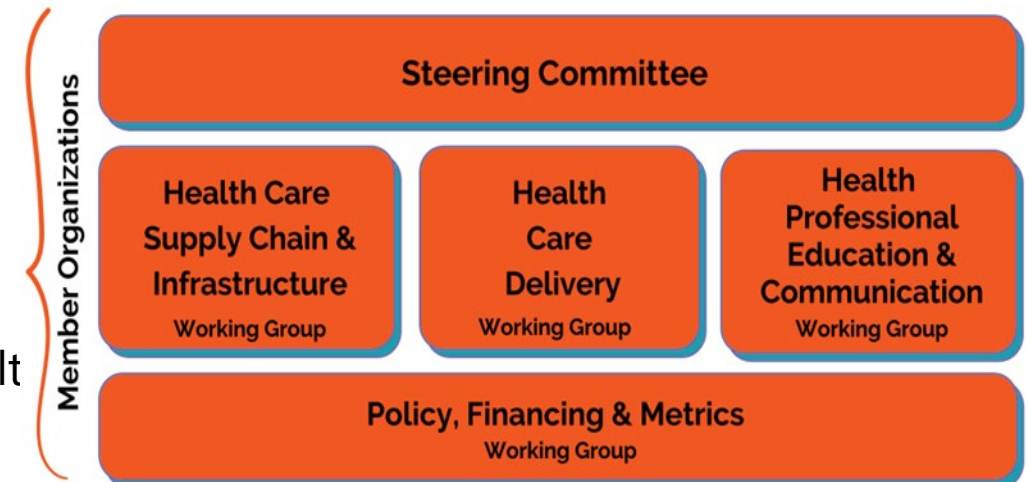


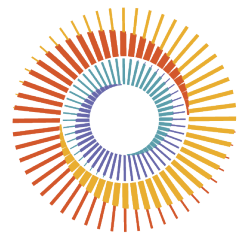
# Action Collaborative on Decarbonizing the U.S Health Sector

- Health sector emits approximately 8.5% of U.S. carbon emissions

## Public-private partnership

- Co-chairs:
  - **Victor Dzau**, President, National Academy of Medicine
  - **Rachel Levine**, Assistant Secretary for Health, HHS
  - **George Barrett**, former Chairman and CEO, Cardinal Health
  - **Andrew Witty**, CEO, UnitedHealth Group
- Members represent hospitals, clinicians, payers, distributors, education, academia, industry, nonprofits, federal government, funders, and more
- **Supply chain**: Encompasses production, **transport**, use, and disposal of goods and services  
Generates 71% of the health sector's emissions





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# NAM Climate Roadmap for Systems Transformation

***The Roadmap will provide vision, strategy, and recommendations for how major systems, including transportation, agriculture, and energy, might be redesigned to promote a more equitable, climate-sustaining economy that has a health-centric focus. The Roadmap will also:***

- Consider the intersection of multiple sectors as they relate to health in the context of climate
- Build on existing knowledge to identify critical opportunities for major sectors to promote human health and well-being by mitigating, adapting, and enhancing their resilience in response to climate change
- Recommend how sectors might be redesigned, and ways in which we can employ systems thinking to create a more equitable, climate- and health-sustaining economy
- Specific to transportation, the report will:
  - Examine how transportation, mobility, and urban development can be transformed to address health impacts of climate
  - Discuss how to build/finance models of sustainable transportation, mobility, and urban environments that support health
  - Review strategies to ensure lower carbon transportation remains accessible and equitable in the context of health

# TRB & NAM-HMD: Mechanisms for Collaboration

- NAM climate efforts: TRB members to provide leadership and guidance
  - Joining as Roadmap committee members
  - Providing relevant expertise, resources, collaboration
- Identifying ongoing NAM and/or NRC activities to be expanded, built upon, or continued which incorporate topics at the intersection of transportation and health
- Identifying singular topic(s) on transportation and health worthy of a consensus study, workshop, or symposium
- Hosting a convening to lay groundwork for a multi-year, multi-sectoral initiative on transportation and health

# Thank you

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