

STRATEGIC PLAN

2025-2028



**TRANSPORTATION
& DEVELOPMENT
INSTITUTE**

www.asce.org/TDI
September 18, 2025

ASCE AMERICAN SOCIETY
OF CIVIL ENGINEERS

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This document outlines the strategic direction over the next three years as developed by the Board of Governors (BOG) of the Transportation & Development Institute (T&DI) of ASCE. Organized around four cross-cutting themes, it captures key strategic themes, objectives, and alignment with ASCE's strategic shifts. The document is intended to serve as a foundation to guide program development, build consensus, and foster member engagement as we position T&DI as a leader in transportation and development innovation and excellence.

Vision

Civil Engineers are global leaders in providing sustainable transportation and development.

Mission

To advance knowledge and practice in sustainable transportation and development.

Strategic Themes

1. Sustainability & Infrastructure Resilience ●
2. Smart Infrastructure for Connected Mobility ●
3. Workforce Readiness & Professional Practice ●
4. Strategic Partnerships ●

Appendix: ASCE Strategic Plan

● **Strategic Theme 1:**
**Sustainability & Infrastructure
Resilience**



Strategic Theme 1: Sustainability & Infrastructure Resilience

Objective 1.1 Advance Sustainable, and Resilient Infrastructure Guidelines:

Establish and disseminate best practices for advancing and integrating resilience throughout the full transportation project life cycle—planning, design, construction, operations, and maintenance with attention to climate risks, infrastructure security, and service continuity. Emphasize return-on-investment (ROI)-driven approaches that help prioritize resilience investments with the greatest impact.



Objective 1.2 Advance Net-Zero and Low-Carbon Multimodal Transportation

Solutions: Promote research, planning, development, and implementation of innovative mobility, demand-management, and/or land use options that reduce emissions while enhancing energy independence and economic competitiveness.



Strategic Theme 1: Sustainability & Infrastructure Resilience

Objective 1.3 Tailor Transportation Policy Advocacy for Broader Impact: Strengthen engagement with elected officials, public agencies, and the general public to promote climate- and security-responsive transportation policy, leveraging the ASCE Report Card and aligning with national security, job growth, and competitiveness goals.



Objective 1.4 Elevate Safety & Active Transportation in National Dialogue: Advance the integration of pedestrian and cycling infrastructure within ASCE standards, best practices, and national infrastructure strategies to promote sustainability, enhance public health, and strengthen community resilience.



● **Strategic Theme 2:**
**Smart Infrastructure for Connected
Mobility**



Strategic Theme 2: Smart Infrastructure for Connected Mobility

Objective 2.1 Integrate AI & Automation Across Transportation Systems: Advance deployment of emerging technologies like AI, autonomous vehicles, and digital twins to support multimodal transportation systems for rural, urban, and national infrastructure networks.

Objective 2.2 Build Inclusive Smart Mobility Ecosystems: Support global innovation in connected and autonomous mobility, focusing on holistic smart infrastructure integration and data interoperability.



Strategic Theme 2: Smart Infrastructure for Connected Mobility

Objective 2.3 Enable Technology Knowledge Transfer & Capacity Building: Facilitate cross-border exchange and ethical deployment of emerging technologies.



Objective 2.4 Coordinate Infrastructure for Future-Ready Systems: Promote integration across transport, energy, water, and telecom infrastructure anticipating civil infrastructure transformation in delivery and operations lifecycle.



● **Strategic Theme 3:**
**Workforce Readiness &
Professional Practice**



Strategic Theme 3: Workforce Readiness & Professional Practice

Objective 3.1 Accelerate Workforce Development Initiatives through: This includes the following:

- a) Workforce Readiness: Assess and adapt engineering curriculum readiness in partnership with university educators focusing on multi-disciplinary thinking and community-based learning;
- b) Broaden the Talent Pipeline through Early Exposure to Transportation and Development Careers: Engage K–12 and early college students through immersive learning, mentorship, and outreach programs that spark interest in transportation fields and foster long-term career pathways; and
- c) Continuing Education & Upskilling: Support lifelong learning by expanding access to continuing education, professional certifications, and training for mid- and late-career professionals—particularly those whose formal education predated today’s emerging technologies.

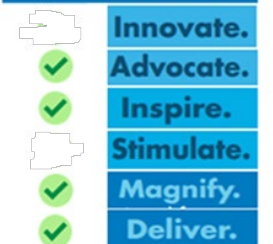
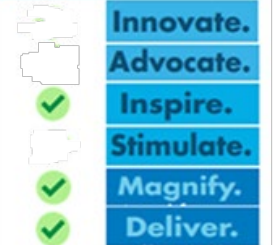


Strategic Theme 3: Workforce Readiness & Professional Practice

Objective 3.2 Cultivate Belonging and Advancement in T&DI: Promote ASCE and T&DI awards & develop the culture of professional recognition.

Objective 3.3 Invest in T&DI Leadership Pipeline: Enhance T&DI's leadership pipeline by advancing inclusive and competent representation across all levels of governance. In parallel, develop and promote a compelling, differentiated brand identity that reflects T&DI's leadership in innovation, equity, and infrastructure excellence.

Objective 3.4 Promote Communities of Practice through Technical Committees & Councils: Foster vibrant, inclusive, and productive communities of practice across T&DI's technical committees and councils to support innovation, member engagement, and sustained leadership development beyond annual conferences.

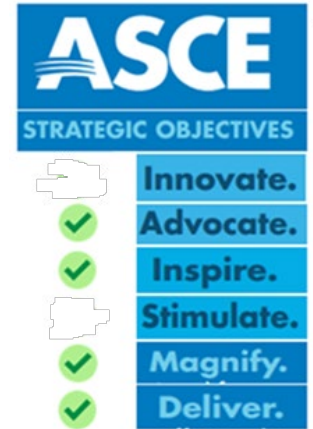


● Strategic Theme 4:
Strategic Partnerships

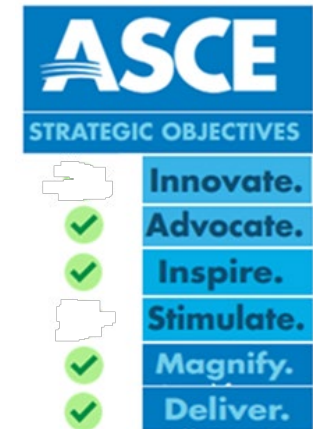


Strategic Theme 4: Strategic Partnerships

Objective 4.1 Build Internal and External Strategic Partnerships: Foster and strengthen strategic partnerships both internally across ASCE and with professional organizations and international transportation groups.

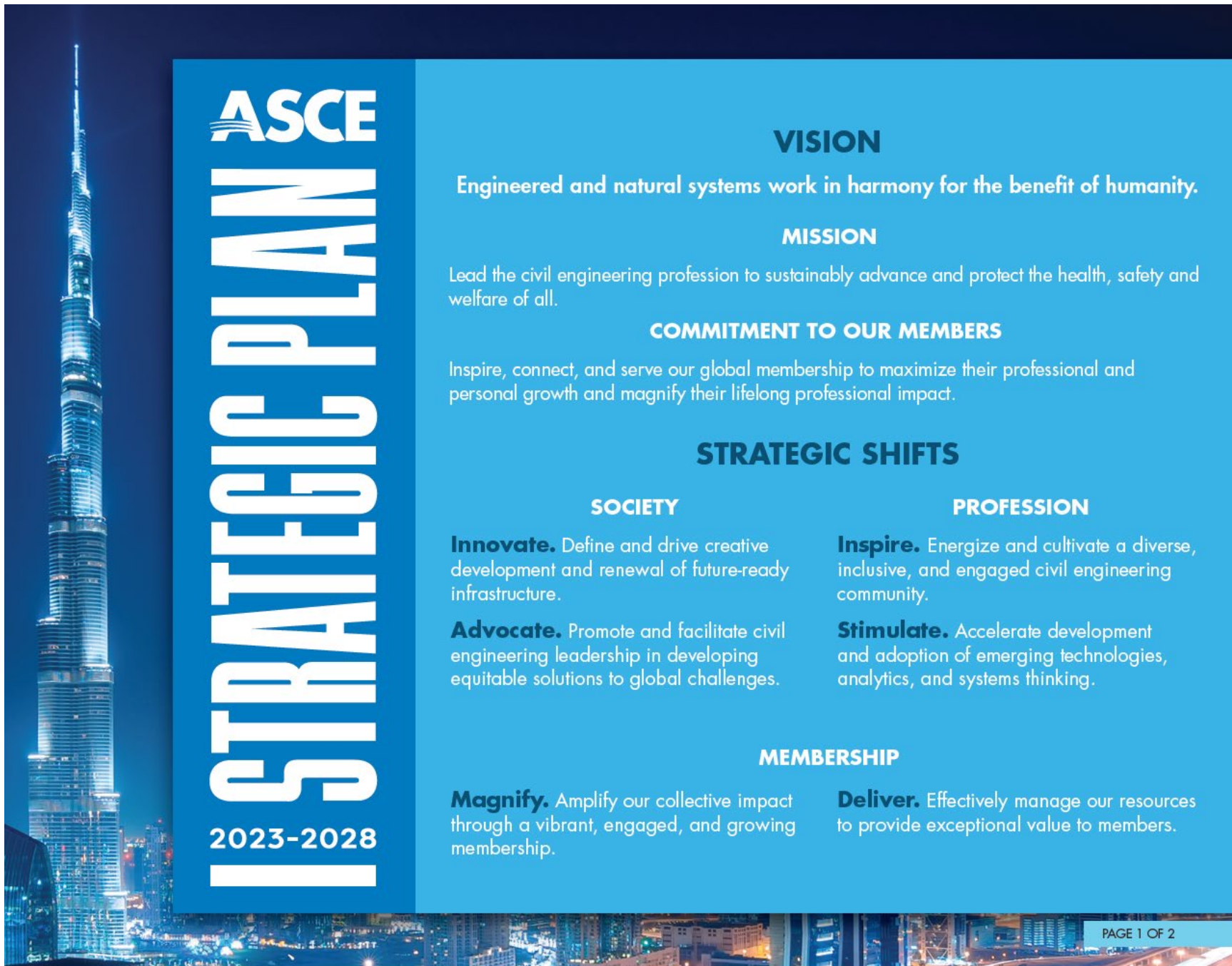


Objective 4.2 Advance Cross-Sector Innovation Partnership and Collaboration: Leverage the role of transportation in attracting cross-sector engagement and advance cross-sector innovation partnership and collaboration with affiliated professional and entities involved in the transportation and infrastructure space.



APPENDIX

ASCE Strategic Plan



ASCE

STRATEGIC PLAN

2023-2028

VISION

Engineered and natural systems work in harmony for the benefit of humanity.

MISSION

Lead the civil engineering profession to sustainably advance and protect the health, safety and welfare of all.

COMMITMENT TO OUR MEMBERS

Inspire, connect, and serve our global membership to maximize their professional and personal growth and magnify their lifelong professional impact.

STRATEGIC SHIFTS

SOCIETY

Innovate. Define and drive creative development and renewal of future-ready infrastructure.

Advocate. Promote and facilitate civil engineering leadership in developing equitable solutions to global challenges.

PROFESSION

Inspire. Energize and cultivate a diverse, inclusive, and engaged civil engineering community.

Stimulate. Accelerate development and adoption of emerging technologies, analytics, and systems thinking.

MEMBERSHIP

Magnify. Amplify our collective impact through a vibrant, engaged, and growing membership.

Deliver. Effectively manage our resources to provide exceptional value to members.

STRATEGIC OBJECTIVES

SOCIETY

1

Innovate.

Define and drive creative development and renewal of future-ready infrastructure.

- 1.1 Accelerate infrastructure's transition into the future.
- 1.2 Be the authoritative source for adaptation of infrastructure to the changing global climate.
- 1.3 Champion integration of sustainability and equity in infrastructure solutions.

2

Advocate.

Promote and facilitate civil engineering leadership in developing solutions to global challenges.

- 2.1 Shape forward-looking infrastructure policy, investment, and implementation.
- 2.2 Equip civil engineers to shape public policy and awareness.
- 2.3 Elevate the visibility of civil engineers' leadership role in society.

PROFESSION

3

Inspire.

Energize and cultivate a diverse, inclusive, and engaged civil engineering community.

- 3.1 Position ASCE as the premier resource for civil engineering leadership development across our members' careers.
- 3.2 Cultivate a global, cross-disciplinary community of infrastructure professionals.
- 3.3 Improve pathways toward a more diverse, inclusive, and equitable profession that reflects the people we serve.

4

Stimulate.

Accelerate development and adoption of emerging technologies, analytics, and systems thinking.

- 4.1 Energize partnerships between civil engineering practice, education, and research to propel technical innovation.
- 4.2 Be the essential hub for exchanging interdisciplinary research to catalyze advances in infrastructure systems.
- 4.3 Develop agile and future-ready codes and design standards for broad adoption that support system innovation.

MEMBERSHIP

5

Magnify.

Amplify our collective impact through a vibrant, engaged, and growing membership.

- 5.1 Provide exceptional value and satisfaction throughout the member journey, from student to life membership.
- 5.2 Expand partnerships with employers to better serve employer and employee needs.
- 5.3 Attract new members from the broader infrastructure community.

6

Deliver.

Effectively manage our resources to provide exceptional value to members.

- 6.1 Embed a culture of growth and advancement across the organization to support our members' evolving needs while promoting and rewarding service, innovation, and leadership.
- 6.2 Enhance our systems and processes for efficiency and impact.
- 6.3 Continually improve programs and operations, recognizing strategic trade-offs, to support areas of increasing need.