



Highly Automated Systems Safety Center of Excellence



THE CHALLENGE AND OPPORTUNITY

Highly automated transportation systems hold extraordinary promise—and new kinds of risk. Assessing safety implications is complex, especially when multiple systems intersect across air, land, and water and amid rapidly-evolving technology.

HASS COE can be your partner in the safe integration of automation in transportation. We collaborate with Operating Administrations of the USDOT, each managing different modes of transportation, and we convene industry insight. We can augment your resources, inform your planning, and accelerate your work. Together we will build the vital and safe national framework for highly automated systems, today and tomorrow.

WE ENVISION

Advancing the safe and responsible integration of automation across the transportation ecosystem.

OUR UNIQUE ROLE

To ensure Federal capacity to review, assess, and validate the safety of automated technologies comprehensively across different modes of transportation while enabling cross-sector collaboration, creating a holistic approach.

ACCESS OUR EXPERTISE

Our scientists and specialists come from government, academia, and industry.

- Validation, testing, and safety assurance
- Computer science
- Autonomy stack design and integration
- Human factors
- Communications and interoperability
- Cybersecurity
- Sensor performance
- Data

WHAT WE OFFER

- **HASS Sprints: Nimble technical consulting** to explore how automation technologies may interact with or affect other modes of transportation, and to boost your team's capacity to review, assess, and validate safety implications of automated systems.
- **HASS Insight: Technology-maturity updates and industry landscape analysis** packaged in regular reports to accelerate knowledge across USDOT and Transportation, Housing, Urban Development, and Related Agencies (THUD).
- **HASS Validation: Tools and testing platforms** in collaboration with USDOT offices, interagency groups, and industry.

YOU CAN SEE FURTHER OVER THE AUTOMATION HORIZON

USUAL INSIGHT: 1 – 5 YEARS

HASS COE FILLS IN LONG VIEW: 3 – 10 YEARS

WE ARE

BASED IN THE USDOT OFFICE OF RESEARCH AND TECHNOLOGY.

Mandated by Congress to:

- Offer a USDOT-wide expert resource.
- Provide support and partnership to USDOT Operating Administrations.

LEADERSHIP

Robert Heilman
Executive Director

Taylor Lochrane Ph.D., P.E.
Deputy Director,
Science and Technology,
and Chief Scientist

Éva Clinkscale
Deputy Director,
Engineering and Innovation

"The HASS COE is USDOT's go-to resource for automation safety expertise: your agency-wide partner in managing technology, industry developments, and implications for all modes of transportation."

— Dr. Robert C. Hampshire

Deputy Assistant Secretary for Research and Technology and Chief Science Officer, USDOT

LEARN MORE

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