

RFI/Convergence Accelerator

- Goal: accelerate use-inspired convergence research in areas of national importance.
- Use partnerships with non-academic stakeholders.
- Multiple Rounds. Final: \$5M/year for 5 years.
- NSF is seeking the next CA "topic."
- November 9 deadline.
- https://www.nsf.gov/pubs/2021/nsf21012/nsf21012.jsp



Submissions should include

- Why is convergence research needed?
- Evidence of research community readiness
- Explanation of potential for partnerships
- Deliverables that can be expected within two years
- Expected impacts of the project in 10 years.



Convergence @



















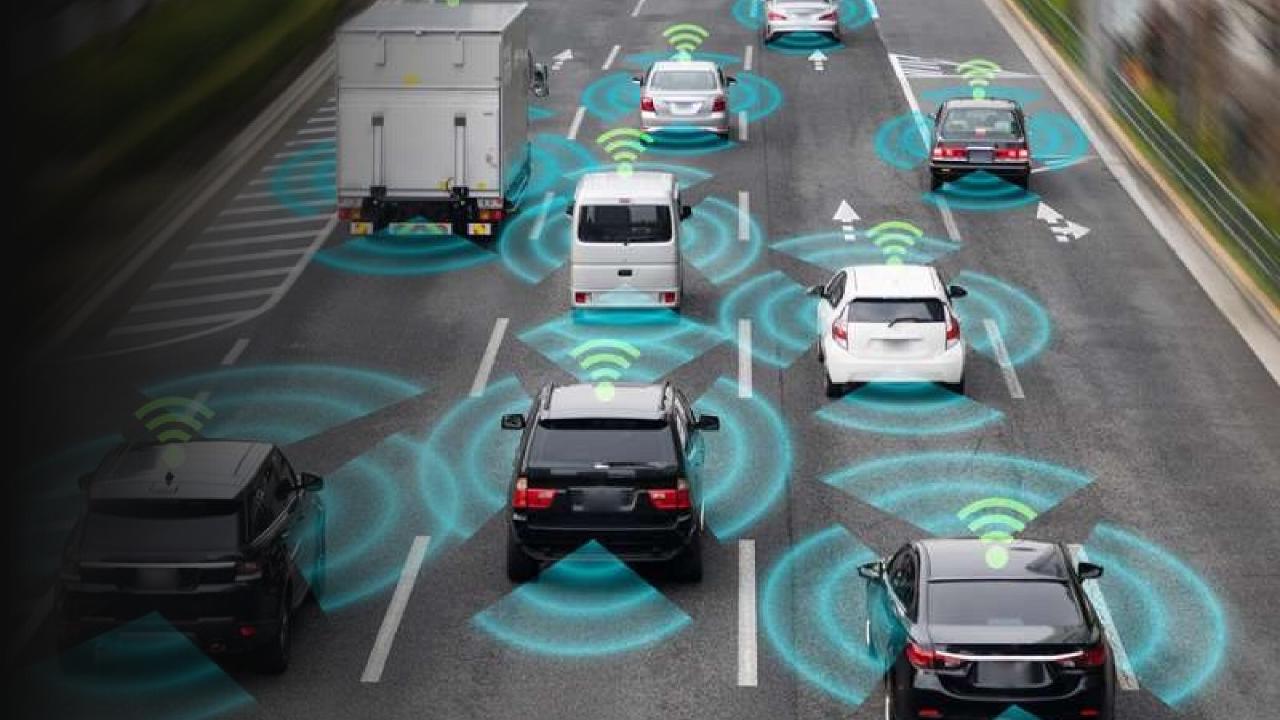


How do we rebuild?

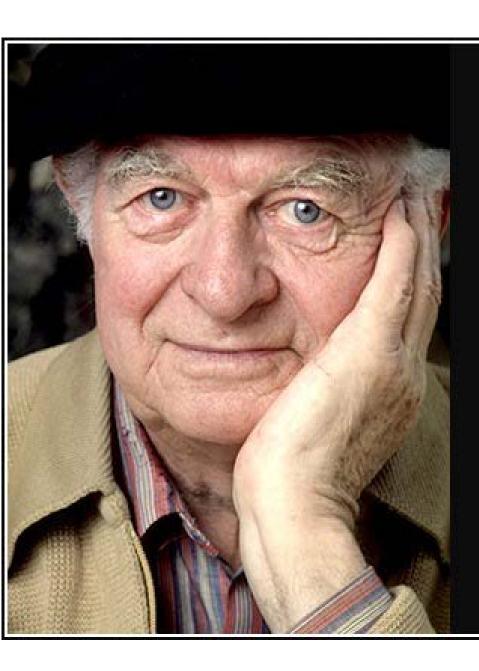
How can we empower?











The best way to have a good idea is to have a lot of ideas.

— Linus Pauling —

AZ QUOTES

• A "new"	idea is a nove	el combinatio	on of existing	g concepts.



Many "novel combinations" fall between the cracks of existing disciplinary categories.

Paths Forward

Interdisciplinarity

Multidisciplinarity

Convergence

Answer: 2.5 hours

Convergence Measurement @



Goal

 Support rigorous, precise research that empowers people and improves quality of life

SBE Overview

Produce groundbreaking research

Create fundamental data and analytic infrastructure

Provide essential training

SBE Principles

- Rigor
 - The ability to explain how we know what we know.
- Ethics
 - Empowering people through awareness of whole scientific workflow.
- Precision in measurement & conceptualization.
- Causality
 - We're very good at this.

Questions for the Group

- 1. Is a valid and broadly legitimate convergence measure possible?
 - a) A measure that signals standardization.
 - b) A measure that can be reliably derived from the activities of diverse institutions.
- 2. Is it possible to create mutual exclusivity and collective exhaustion in critical domains?
 - a) Is neuroscience convergent?
- 3. If 1 and 2 are possible, who is then empowered to accomplish high-value goals?
- 4. If 1, 2, and 3 are possible, what are NCSES's opportunity costs of developing the measure?
- 5. Is convergence more effective as a motivational ideal than a measured phenomenon?



Thank you for your service to science & society.

Arthur Lupia, Assistant Director

