



# Dear Colleague Letter: Joint NSF-JST Proposals to Advance Human-Centered Data for Disaster Resilience Research (HCDDRR) (NSF 23-089)

*Webinar: 16 June 2023*

# Webinar Logistics:

We will review the DCL then discuss the programs that are accepting NSF-JST proposals.

Attendees are on mute and, to protect anonymity, cannot see who else has signed in.

Attendees can submit questions in writing using the questions function. Everyone will be able to see the questions and our answers.

This is being recorded and will be posted on the event web site, including the Q&A.



# The NSF Team for this DCL:

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David Corman, CISE: SCC, CPS

Daan Liang, Eng: HDBE

Bob O'Connor, SBE: DRMS



# What is this DCL?

It is a notification that four NSF program(s) wish to receive proposals in this area.

You submit to those programs, following their rules for eligibility, proposal format, etc., from the PAPPG.

There are a few special submission instructions (e.g., budget cap and final deadline) in the DCL.

NSF-JST proposals will be reviewed with other proposals in the relevant programs then a joint decision process with JST will be undertaken.



A photograph of a penguin, likely a gentoo penguin, standing on a large, jagged piece of ice. The penguin is white with a black cap and a red beak. The background is dark, suggesting a night sky or a deep sea.

# NSF-JST HCDDRR

**Enable Teams of U.S.-Japan Researchers to collaborate to advance human-centered data and data-driven S&E for disaster resilience**

What can we enable that would not be possible alone?  
What synergies are possible across our nations?  
What lessons or capabilities should travel between Japan and U.S.?



# NSF: Dear Colleague Letter

# JST: Call for Proposals



## US Part of the Team

- Apply to one of the Programs named in the DCL



## Japan Part of the Team

- Apply to the JST Call for Proposals



# Applications

U.S. side	Japan side
Submit in English, through Research.gov	Submit in Japanese, through e-Rad
Submit to one of the 4 programs Use prefix "NSF-JST"	Submit to the JST Call for proposals See JST Call for details
Deadline: 5 pm local submitter's time 18 Aug 2023	Deadline: 5 pm local submitter's time 18 Aug 2023
Project Description includes the same content as Japan submission. Adhere to 15-page limit.	Project Description includes the same content as the U.S. submission.
Budget should be for U.S. portion of work only (Max: \$500,000)	Budget should be for Japan portion of work only (3-year duration; Max: 75 million yen)
See DCL for additional details	See Call for Proposals for additional details



# Reviewing Considerations

## Per the DCL

These are Research Proposals.

Human-centered data is core; relevance to disaster resilience is core.

Make clear how the work cannot be done by U.S. alone or Japan alone; why the collaboration enables intellectual progress and broader impacts neither could achieve alone.

Make clear the project is well integrated and what contributions are made by each side; and what are the responsibilities of each.

Relevance to the 4 Sendai priorities will be considered:

- Understanding disaster risk
- Strengthen disaster risk governance/management
- Better investment for disaster risk reduction and resilience
- Enhance disaster preparedness and Build Back Better

See DCL and Call for Proposals for additional details





# Humans, Disasters, and the Built Environment (HDBE)

- Supports fundamental research on the interactions between humans and the built environment within and among communities exposed to natural, technological and other types of hazards and disasters
- Build a deeper understanding of human behaviors at the interface of engineering and society and inform how communities manage their risk and adapt to changing patterns in climate, extreme weather, and other hazards
- Advance foundational theories, methods, and data within and across diverse disciplines
  - Protocols, methodologies, and tools tailored for handling sensitive, protected, and proprietary data



# Decision, Risk and Management Sciences (DRMS)

- Supports fundamental research social science research to increase understanding and effectiveness of decision making by individuals, groups, organizations and society
- Areas include:
  - Judgment and decision making
  - Risk analysis, perception and communication
  - Decision analysis and decision aids
  - Societal and public policy decision making
  - Management science and organizational design



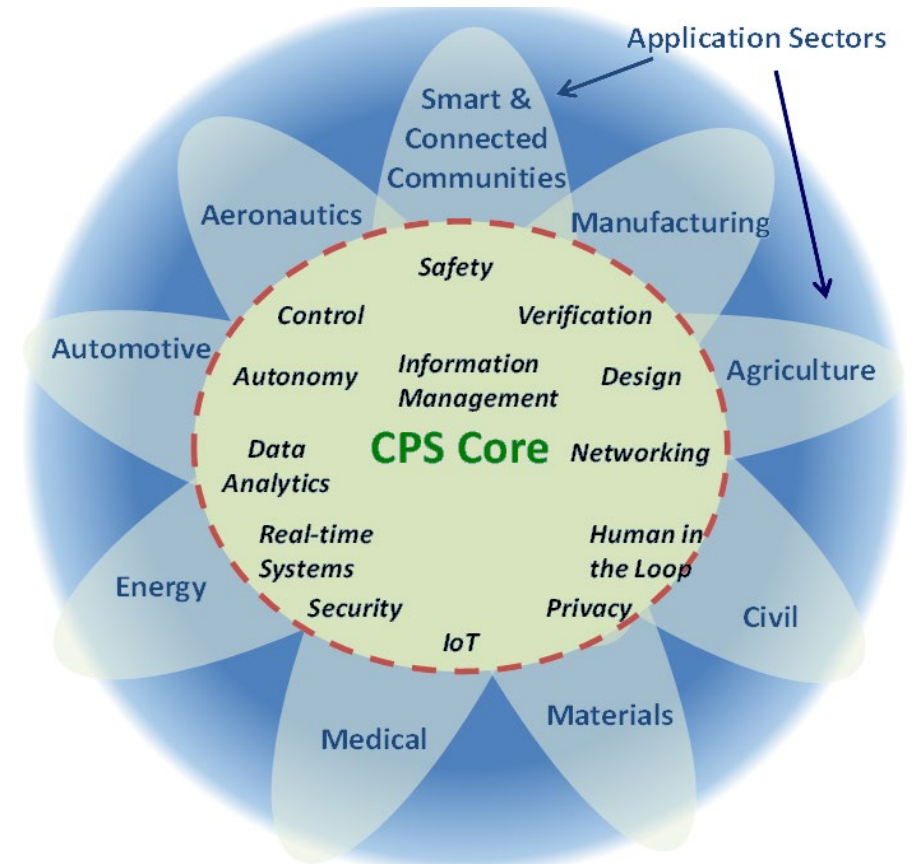
# Smart and Connected Communities (SC&C)

- Scientific and engineering foundations that will enable smart and connected communities to bring about new levels of economic opportunity and growth, safety and security, health and wellness, and overall quality of life
- Integrative research that pairs advances in technological and social dimensions with meaningful community engagement
- Innovation goes beyond the state of practice and the state of the art and is sustainable, scalable, and transferable



# Cyber Physical Systems (CPS)

- Develop the core system science needed to engineer complex cyber-physical systems upon which people can depend with high confidence
- Reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors
- Multi- agency: DoT, DHS, NIFA, NIH



# Resources

- NSF-JST DCL: <https://www.nsf.gov/pubs/2023/nsf23089/nsf23089.jsp>
- JST Call for Proposals:  
[https://www.jst.go.jp/inter/english/program\\_e/announce\\_e/announce\\_us\\_nsf2023\\_e.html](https://www.jst.go.jp/inter/english/program_e/announce_e/announce_us_nsf2023_e.html)
- HCDDRR Workshop, including reports:  
<https://www.us-japan-workshop.org>
- HCDDRR Team Interest Form:  
<https://www.us-japan-workshop.org>
- UN DRR Sendai Framework:  
<https://www.undrr.org/implementing-sendai-framework/what-sendai-framework>



