



MOTIVATION

- ❖ Computational and Data-intensive (CDI) methods are key to success in research and engineering
- ❖ Domain scientists and engineers need help developing, optimizing and running CDI applications.
- ❖ Computational experts and tool designers can benefit from a forum to discuss best practices in supporting CDI projects..



PURPOSE

Aim: Advancing science by increasing the productivity of researchers who use CDI methods for pushing the frontiers.

How: developing a network for exchange of best practices in expert assistance and in the creation of supporting tool environments.



OUTCOMES

- ❖ A **best-practices guide** for computational and data-intensive research
- ❖ A **catalog of tools** that support CDI research and engineering

LET'S TALK CDI AGENDA

- ❖ **Best Practices:** sharing a success story of how they have helped a domain researcher in a way that made a difference
- ❖ **Open Problems:** presenting a challenge faced when supporting CDI research.
- ❖ **Tool support:** reporting on the use of a tool that has made a substantial difference in supporting the work of Xperts and domain researchers.

PARTICIPANTS

- ❖ **Members of large projects** that maintain pools of CDI application experts
- ❖ **Developers of tools** that support CDI methods
- ❖ **Private-sector participants** interested in advancing business and engineering CDI applications
- ❖ **Individuals** that support CDI research of domain scientists on university campuses and other research organizations



GOALS

- Bring together:
- ❖ Researchers developing and using computational and data-intensive (CDI) applications,
 - ❖ Those who assist these researchers with expertise in CDI technology, and
 - ❖ Developers of tools that support the development and use of CDI applications.

MAIN ACTIVITIES



- ❖ **Monthly online meetings**
- ❖ **Face-To-Face Meetings** at major conferences
- ❖ **Discussion Platform**
- ❖ **Exchange Program**

YOUR COMMUNITY
YOU BELONG HERE

[SITES.UDEL.EDU/XPERT-CDI](https://sites.udel.edu/xpert-cdi)

EXCHANGING BEST PRACTICES AND TOOLS FOR COMPUTATIONAL AND DATA-INTENSIVE RESEARCH