

# HDR<sup>2</sup>

From Harnessing the Data Revolution → To Harvesting the Data Revolution

NSF HDR PI Meeting  
<https://indico.cern.ch/event/1174814/>

Zoom

Alexandria

Oct 26-27 2022



Welcome

# Community and Safety

- Be welcoming and open minded
- Communicate with empath
- Respect each other
- Recognize that intent does not equate to impact
- Strive to make informal activities relating to HDR inclusive to all
- Actively work to better our community

Code of Conduct

# Bringing us closer

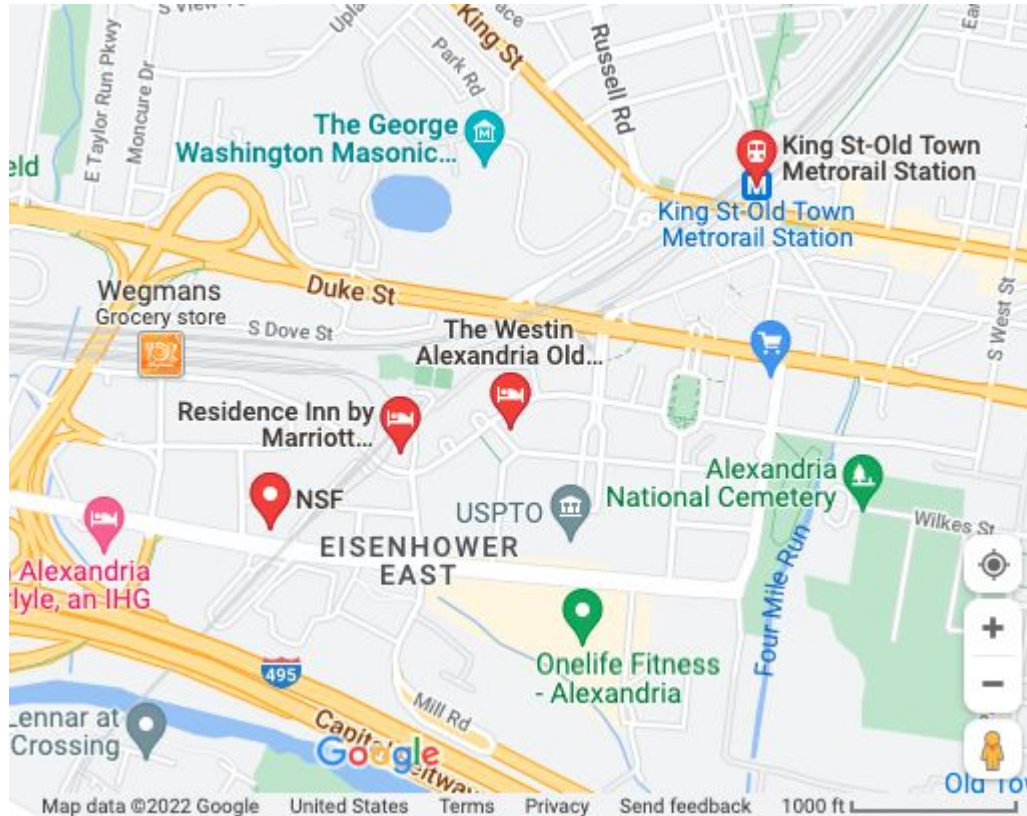


# COVID-19 Prevention Plan



- Face coverings are strongly recommended
- Quarantine is no longer required after close contact with a person who has COVID-19.
- Self-monitoring for symptoms required daily (no reporting): Do not come to work or class, and follow instructions on the [flowchart](#) if you experience [COVID-19 symptoms](#) that are not attributable to another condition.
- [Reporting](#) a positive test result to the meeting organizer is required.
- Testing: Get tested if you develop symptoms

# Venue



All activities are in the  
**Edison ABC** of  
The Westin Alexandria Old Town

# Goal of the meeting

- How can we work together and eventually go from Harnessing the Data Revolution to Harvesting the Data Revolution or HDR<sup>2</sup>?
- To build a strong and sustainable HDR Ecosystem

# Deliverables

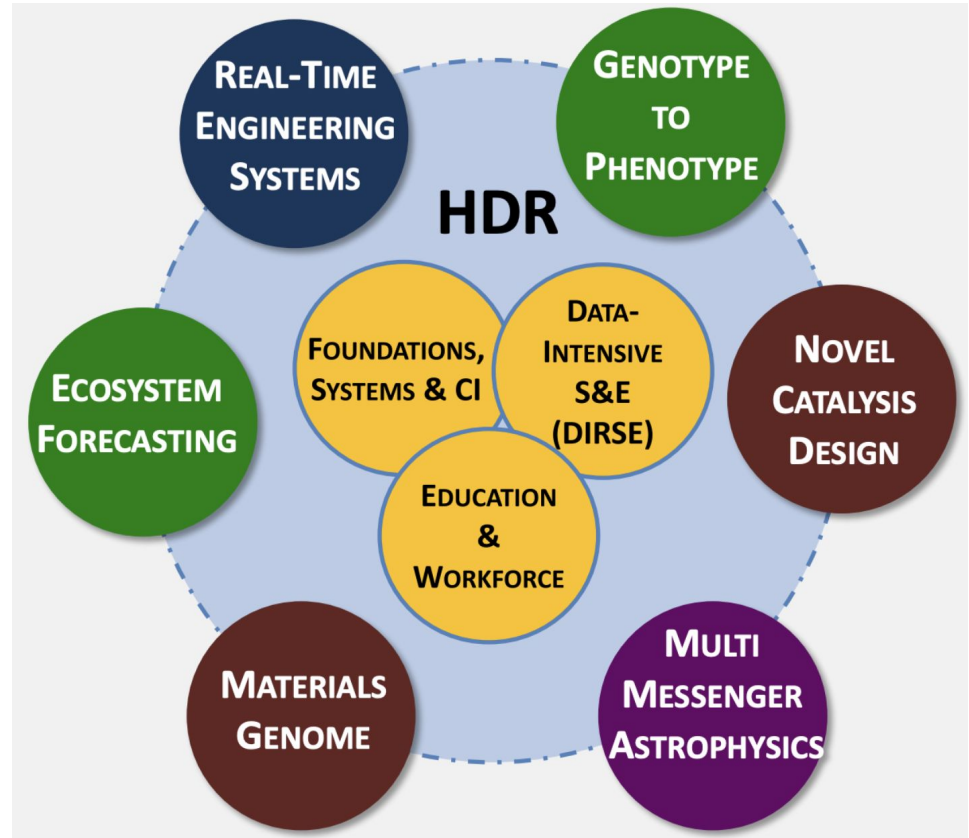
- We would like to come up with ideas of community activities or proposals of work forces should be formulated in order to achieve the goal



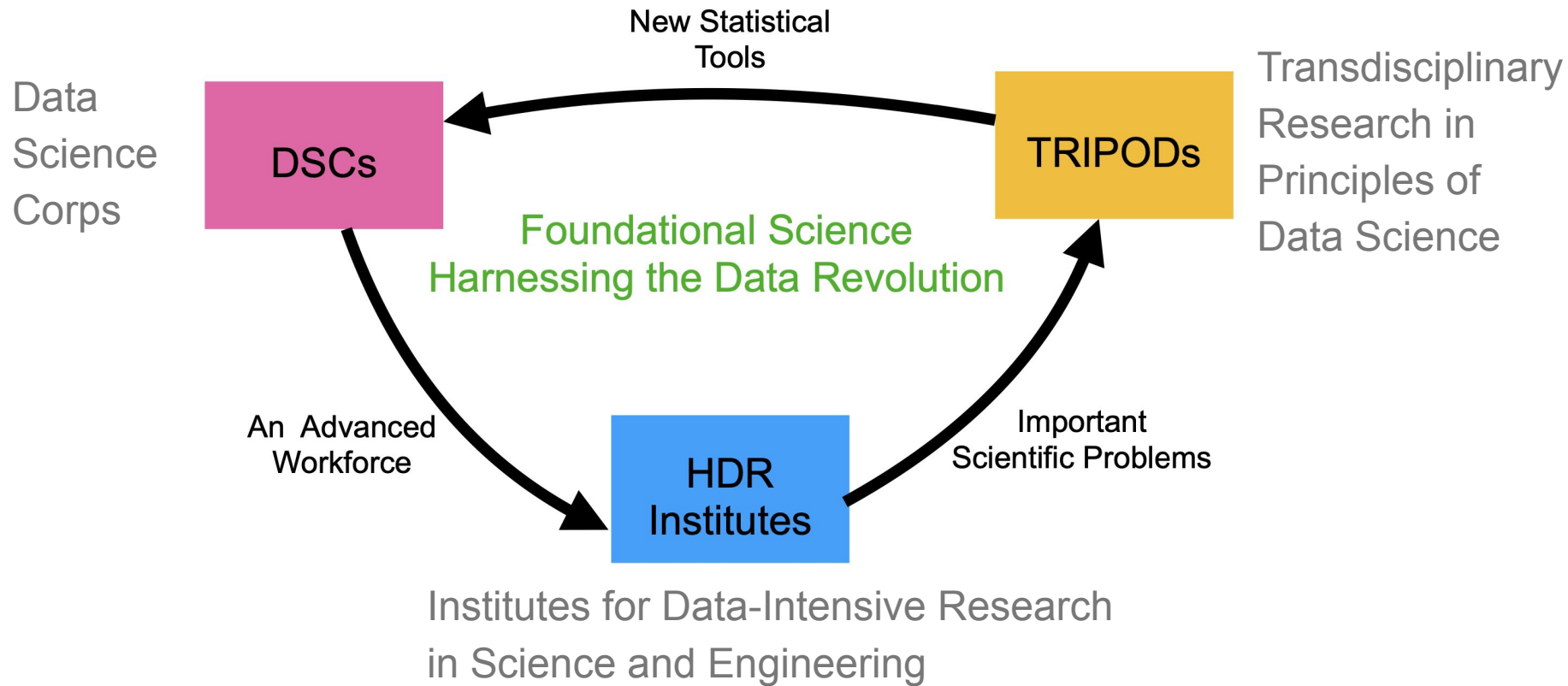
# Harnessing the Data Revolution (HDR)

Engaging NSF's research community in the pursuit of

- fundamental research in data science and engineering,
- the development of a cohesive, federated, national-scale approach to research data infrastructure, and
- the development of a 21st-century data-capable workforce



# NSF HDR Award Category

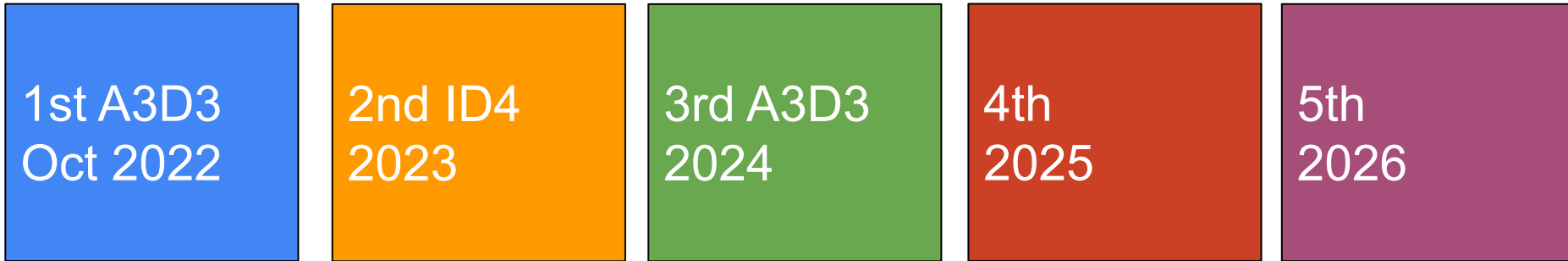


# HDR Ecosystem supplement grant

- Supplemental funding (\$1.25M) awarded to A3D3 toward efforts to grow and strengthen HDR Ecosystem
- Three Core initiatives in this supplement grant
  - HDR PI meetings
    - We are organizing this meeting, and 2024 edition
  - Machine Learning challenges
    - We are planning on initiating a series of ML challenges
  - Postbac enhancement
    - We would like to build on our existing program
    - Connect our work across the HDR community

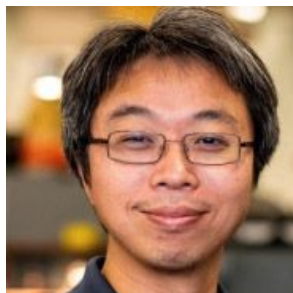
## NSF HDR PI meeting series

- 2022 Start from a core meeting within HDR community to formulate consensus of the HDR Ecosystem



- 2023 HDR PI meeting organized by ID4 to review progress
- 2024 Big HDR Conference Meeting UIUC

# Organization Committee for the First PI Meeting



Shih-Chieh Hsu, UW  
(A3D3, co-chair)



Phil Harris, MIT  
(A3D3, co-chair)



Valerie Varr,  
Bard C.(DSC)



Nathan A. Quarderer,  
CU Boulder (DSC)



Ambuj Singh,  
UCSB (DSC)



Jane Greenberg,  
Drexel U. (ID4)



Paula Mabee,  
NEON (Imgeomics)



Anand Padmanabhan,  
UIUC (I-GUIDE)



Jianwu Wang,  
UMBC (iHARP)



Barna Saha, UCSD  
(TRIPODS)

# NSF Advisory Committee



Amy Walton



Vyacheslav Lukin



Sylvia J. Spengler

# Agenda

- Two Keynote talks:  
Juliana Freire and  
Sarah Stone

10:00	Welcome and Intro	Shih-Chieh Hsu	10:20 - 10:30
	Welcome and HDR Update from NSF	Amy Walton	10:30 - 11:00
	<b>11am NSF welcome</b>		
11:00	Education and Outreach - CARE & FAIR principles	Nathan Quarderer, Paula Mabey, Valerie Barr	11:00 - 12:00
12:00	Poster session I	Philip Coleman Harris	12:00 - 12:30
	Working Lunch		
13:00			12:30 - 13:30
	Keynote Speakers	Ambuj Singh	13:30 - 14:00
14:00	Research Panel: Responsible Learning	Barna Saha, Philip Coleman Harris	14:00 - 15:00
15:00	Coffee		15:00 - 15:30
	Data and Cyberinfrastructure Panel	Anand Padmanabhan, Jane Greenberg, Jianwu Wang	15:30 - 16:30
16:00			
	Poster session I		
17:00	<b>4:30pm Poster session I</b>		16:30 - 17:35
18:00	Working Dinner		18:00 - 19:00
19:00			
	Breakout Session		
20:00	<b>7:30pm Breakout session</b>		19:30 - 20:30

09:00	Keynote Speakers	Ambuj Singh	09:00 - 09:30
	Poster session I: Session 2		
10:00	<b>9:30am Poster session II</b>		09:30 - 11:00
11:00	Working Lunch		11:00 - 12:00
12:00	Breakout session Summaries	Philip Coleman Harris	12:00 - 13:00
	<b>12pm Breakout Summary</b>		
13:00	Closeout	Shih-Chieh Hsu	13:00 - 13:40

# Activities in this PI meeting

- Panel discussions on three principle components:
  - Research
  - Education & Outreach
  - Data & Cyberinfrastructure
- Lightning talk
  - 1 min for DSC or TRIPODS Phase I
  - 2 min for Institutes or TRIPODS Phase II
- Poster sessions
  - This is a great opportunity to know more about each representative and their efforts
- Breakout sessions
  - Propose activities or formulation of working groups
  - Each proposal should include a coordination plan (candidate coordinators, milestone, timeline, anticipated deliverables).
  - Progress on each activity will be reported in the future PI meeting





*Enjoy the meeting!*