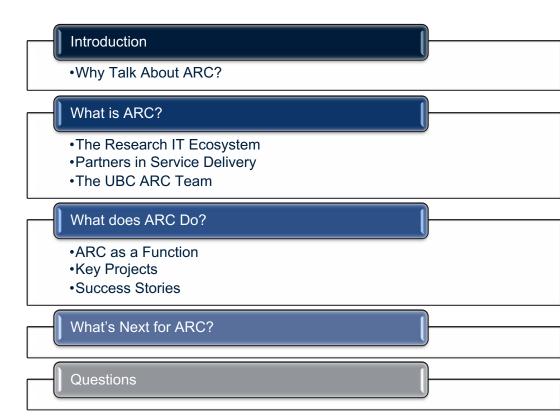
INTRODUCING ARC AT UBC

UBC Advanced Research Computing – Apr 2019

EDITH DOMINGUE, MANAGER ARC RESEARCH PLATFORMS



TODAY'S SESSION



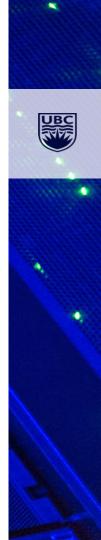


WHY TALK ABOUT ARC?









WHAT IS ARC ?

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UBC

UBC Advanced Research Computing (ARC) is a UBC-wide

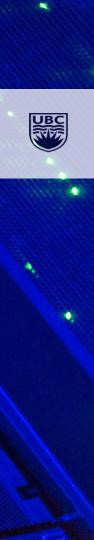
institutionally-dedicated service for researchers across all disciplines working on questions that have large data and computational needs. <u>https://arc.ubc.ca/</u>

Access to Leading Digital Research Infrastructure

Empower Researchers in all Disciplines

Foster Innovation and Discovery

Broad Community Engagement



UBC

Digital Research Infrastructure

(DRI) refers to the elements required to perform data-intensive and computationally-intensive research and data management, including highperformance computing, storage, high-speed networks and other tools and resources, including software, standards and data management services."

ISED: <u>Consultation: Developing a Digital Research Infrastructure</u> <u>Strategy</u>

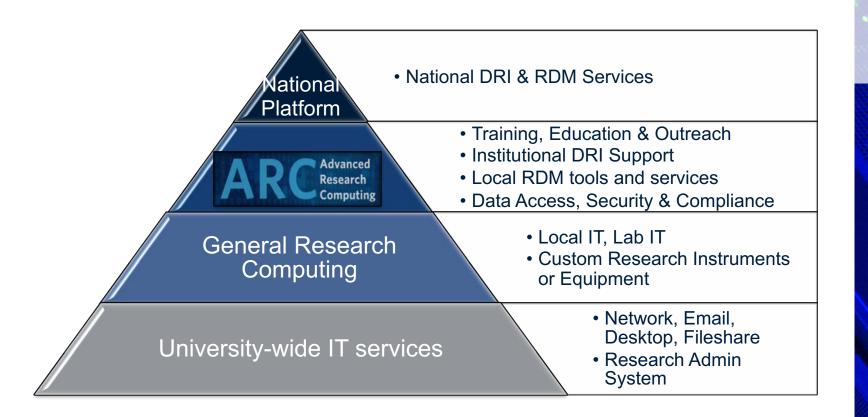


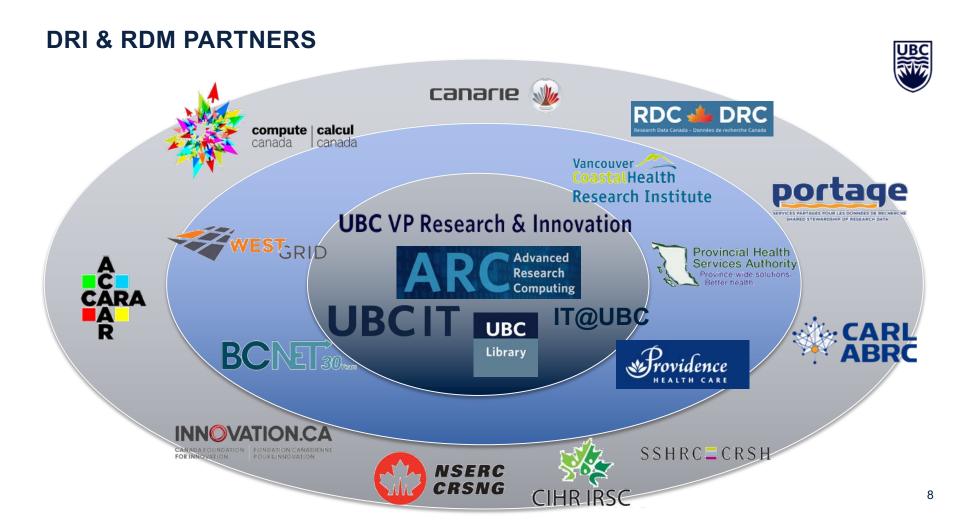
Research Data Management

(**RDM**) refers to the storage, access and preservation of data produced from a given investigation. Data management practices cover the **entire lifecycle of the data**, from planning the investigation to conducting it, and from backing up data as it is created and used to long term preservation of data deliverables after the research investigation has concluded.

Tri-Agency Statement of Principles on Digital Data Management (December 2016), Available at <u>http://www.science.gc.ca/eic/site/063.nsf/eng/h_83F7624E.html</u>

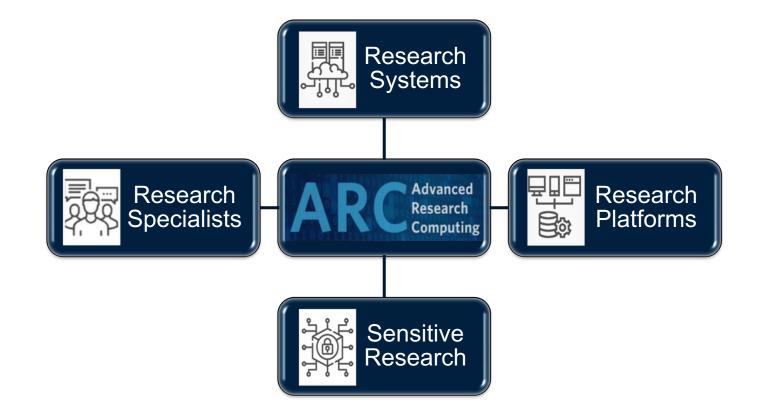
THE RESEARCHER IT ECOSYSTEM

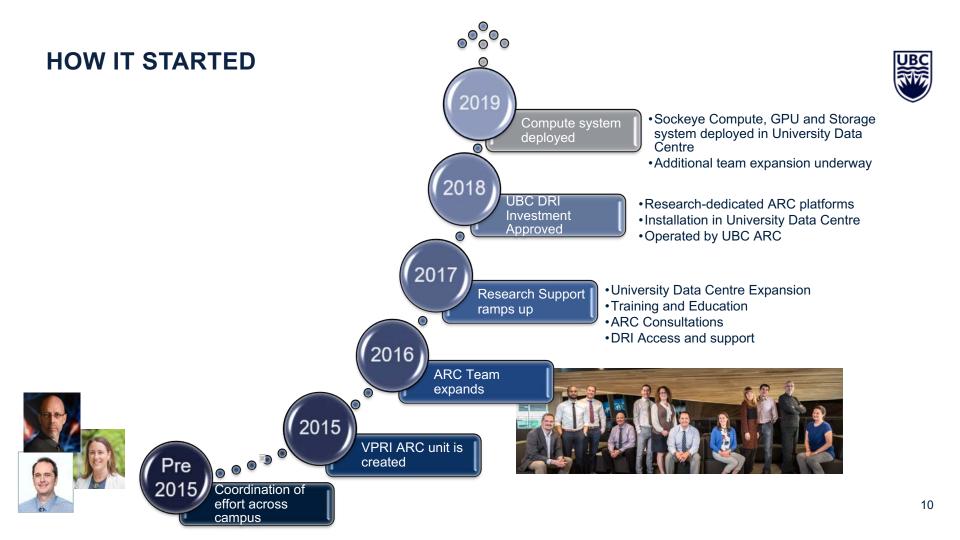




ARC TEAM STRUCTURE







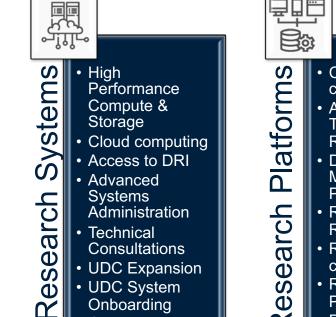
WHAT DOES ARC DO?

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EXAMPLES OF SUPPORT & SERVICES





• Pilot

D M Cybersecurity Technologies





• Outreach & Education

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- HPC Summer School
- RAC Allocation
- Training on the use of DRI
- Disciplinespecific training
- Life Sciences and **Bioinformatics** Support
- Humanities & Social Sciences Community Building

EXAMPLES OF PROJECTS

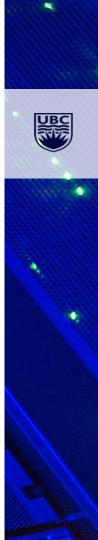


ARC DRI Phase 2 – Approved and Under Development

ARC SUCCESS STORIES



#ARCOutreach #ResearchEngagements #ComputeCanada #ComputeCluster



WHAT RESEARCHERS HAVE TO SAY

"I was blown away by the helpful nature!" "This resource has enabled timely analysis of very large data sets resulting in valuable data for our ongoing research program. Continued support from ARC has allowed our focus to remain on the projects in question and not on software or 'technology' maintenance. It's valuable indeed."

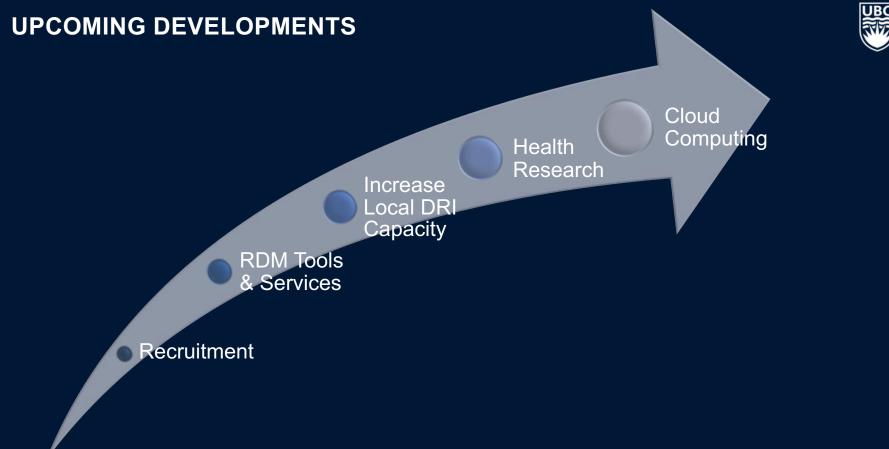
"We appreciate the collaborative work of ARC employees on our Working Group and its related efforts as by working together we are able to ensure a more cohesive IT environment for our research community."

"This was super helpful and the staff were flexible and friendly. Thanks so much!" DBC

WHAT'S NEXT ?

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UBC



TIME FOR QUESTIONS



https://arc.ubc.ca arc.info@ubc.ca

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