NIH U19 Data Science Consortium
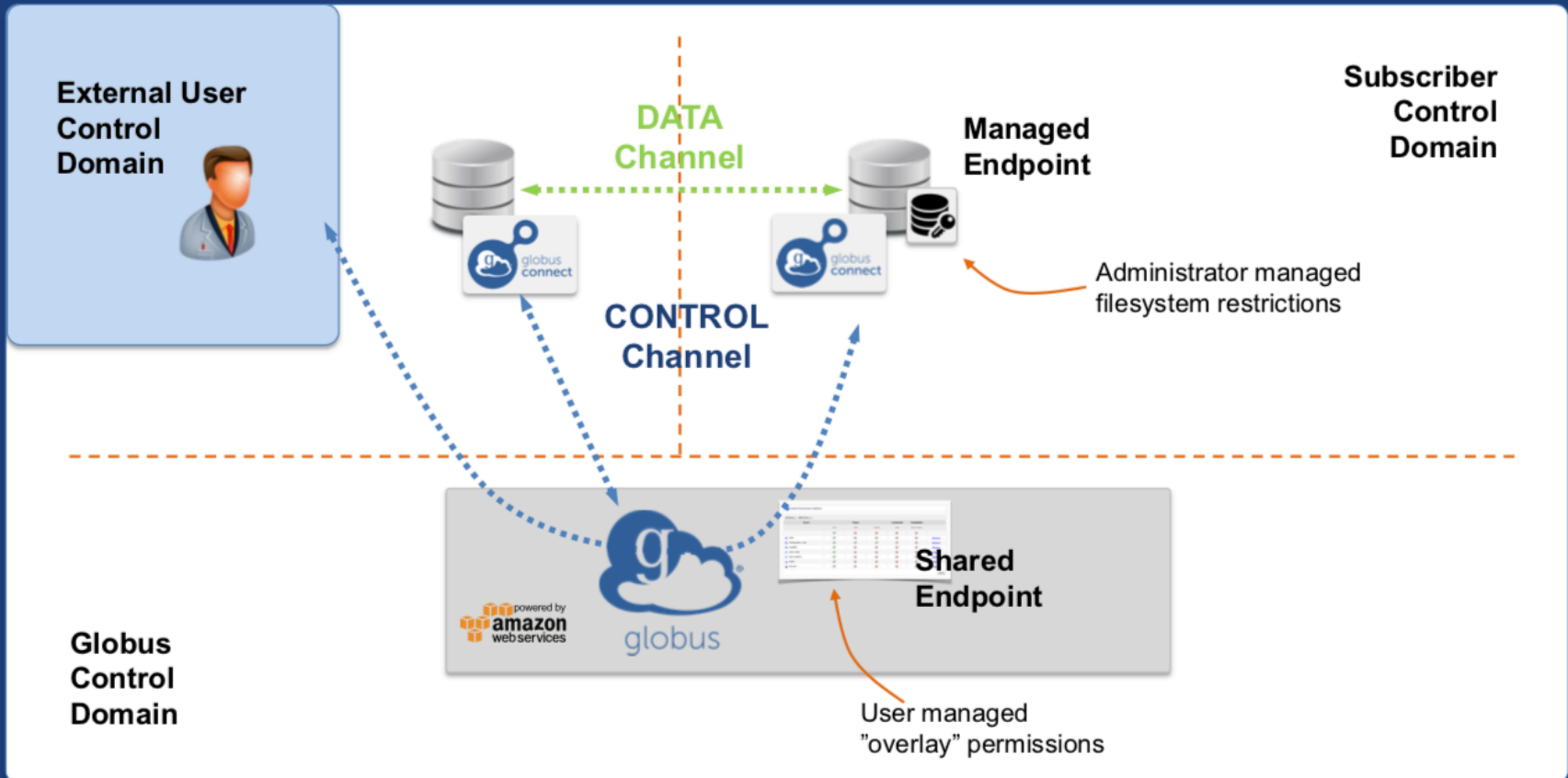# Data Analysis/Data Platforms Subgroup

April 13, 2019, 5th Annual BRAIN Investigators Meeting

- PART 1: Examples of current U19 project approaches
  - MoC3 (Costa) and MouseV1 (Miller) U19s
    - Globus use examples: MouseV1 U19; International Brain Lab (IBL); Mesoscale project: Svoboda Lab, DOE (Dimitri Yatsenko)
  - ABC (Kleinfeld) U19, UCSD system?
  - Sensation (Maunsell) U19, BRAIN platform, Fraunhofer Center for Experimental Software Engineering
  - Learning2Learn (Buffalo) U19, PanNeuro (Ariel Rokem)

- PART 2. Review/Discussion of archives listed in NIH Notice of Data Sharing Policy

- PART 3. Other Topics
  - Access control in storage spaces; path from project-only to public sharing
  - Publishing data and allowing others to simultaneously mine shared data sets

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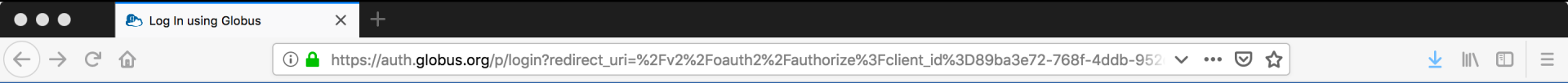
Globus

BRAIN Initiative Notice of Data Sharing Policy ([NOT-MH-19-010](#))

Applicants to BRAIN Initiative funding opportunity announcements need to 1) submit their data to one of the BRAIN data archives for sharing; 2) include specific required elements in the Resource Sharing Plan as in the policy; and 3) include costs attributed to data preparation and submission to a data archive in grant applications.

The list of archives includes:

1) The Neuroscience Multi-omic Data Archive (https://nemoarchive.org/about.php, R24MH114788) to hold data from -omics experiments.

2) The Brain Image Library (http://www.brainimagelibrary.org/index.html, R24MH114793) to hold microscopy data.

3) Data Archive for the BRAIN Initiative (https://dabi.loni.usc.edu, R24MH114796) to hold data related to human electrophysiology experiments.

4) OpenNeuro (https://openneuro.org/, R24MH117179) to hold magnetic resonance imaging data.

5) Block and Object Storage Service (https://bossdb.org/, R24MH114785) to hold electron microscopy data.

[See also Neurodata ([https://neurodata.io)](https://neurodata.io)]

Globus

Globus

Globus

Globus

Globus by the numbers

1,042 most shared endpoints at a single institution

400 PB transferred

66 billion files processed

100,000 users

24 Petabyte+ institutions

15,000 active transfer users

3 months longest running transfer

20,000 active endpoints

500+ identity providers

1 PB largest single transfer to date

8,000 active shared endpoints

99.9%+ availability