

computecanada

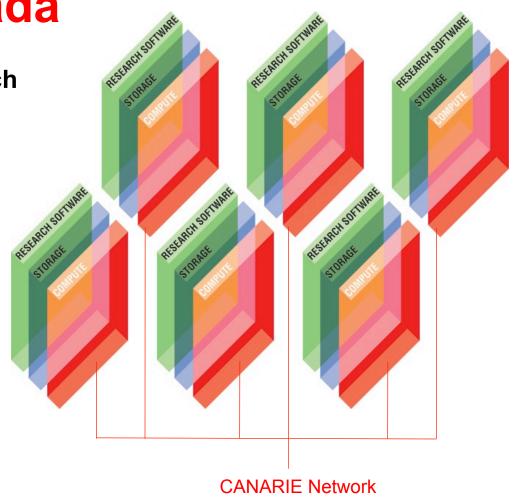
Compute Canada's Globus Deployment

Jason Hlady April 14, 2015 **Compute Canada**

Canada's Advanced Research Computing Platform

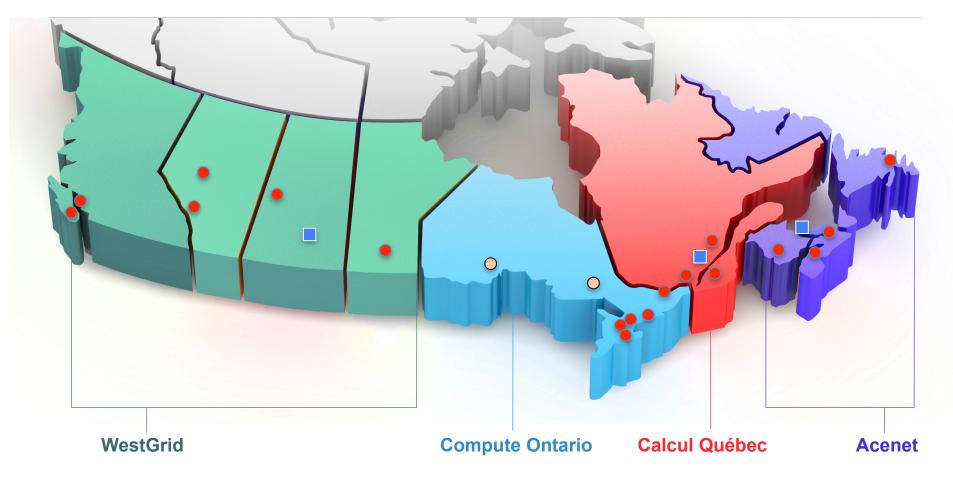
 CC is a not-for-profit organization that provides digital infrastructure for researchers in Canada

- 50 HPC systems
- 27 Data Centres
- 200 Experts





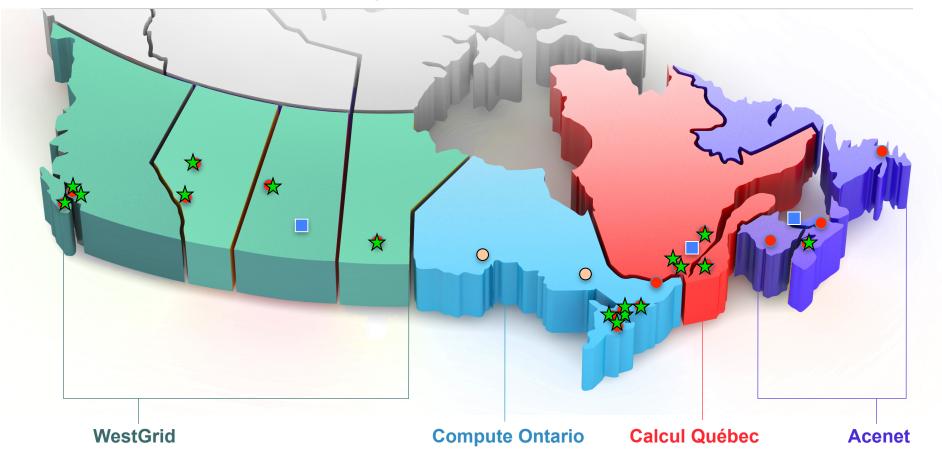
Member Institutions and Partners



- Member University
- Member University + Personnel Site
- Member University, Personnel + Infrastructure Site



Globus Deployment



- Member University
- Member University + Personnel Site
- Member University, Personnel + Infrastructure Site
- ★ Globus Site



CC Globus Deployment Status

- 24 Compute Canada Globus endpoints
 - Each endpoint supports at least one CC system
 - Endpoints in the CC namespace: computecanada#<systemname>
 - Where possible, endpoints are dedicated Data Transfer Nodes (DTNs)
 - All CC regions have Globus installations

Branded portal at globus.computecanada.ca



CC Globus Portal

Manage Data ▼ Groups Log In Sign Up		
compute calcul canada canada		
	Sign In	Sign Up with Globus
Compute Canada has partnered with Globus to offer this high performance file transfer service. Calcul Canada s'est associé à Globus pour vous offrir ce service de transfert de fichier à haute performance.	Username Password Sign In	alternate login Forgot password?
Copyright 2015 Compute Canada. All Rights Reserved.		



CC Globus Usage + Metrics System

- CC Globus service is actively used by a large variety of researchers at many sites, to transfer both within CC and around the world
- Since GlobusWorld 2014:
 - 700TB+ transferred
 - 62M+ files transferred
- Compute Canada has developed a Splunk-based analytics system for CC infrastructure
 - First analytics module developed is for Globus usage

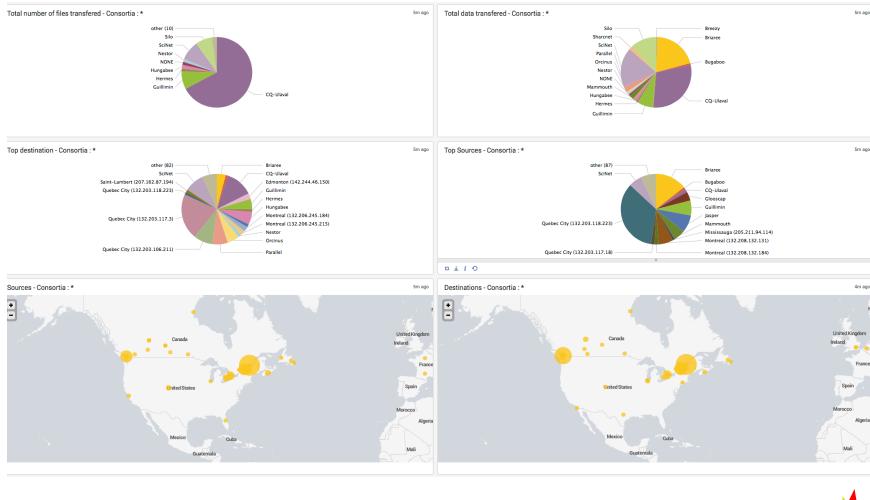


CC-Analytics Statistics System





CC-Analytics Statistics System





Future Directions and Challenges

- National Services → National Support Model
 - National ticketing system (scalability for Globus Support)
- Single Sign-on / integration of CC and Globus accounts
 - Account (username/pw) at each consortium + separate Globus account needed presently
- Refresh of look and feel of branded site to align with new CC website
- Improved bilingualism on branded site
- Extend CC-analytics beyond Globus statistics
- Globus Publishing evaluation

