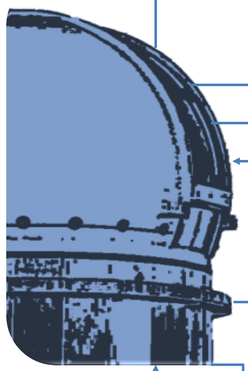
CADC / CANFAR

Telescope Client



Telescope Data

Interactive use of VMs

Algorithms and Software

Meta Data Queries

Processing Control

VM Images

Archive Data

SERVICES

Compute Canada Victoria

Compute Canada Simon Fraser

NRC Herzberg Victoria

Compute Canada Sherbrooke

STORAGE MANAGEMENT
4.1 PETABYTES

META DATA MANAGEMENT
16.5 TERABYTES

Meta Data

PROCESSING MANAGEMENT
2200 CORES-YEARS

Compute Canada Victoria

Compute Canada Sherbrooke

SERVICES

University Researcher Client

Archive Data

User Data

Meta Data Queries

VM Images

VM Control

Interactive use of VMs

Processing Control

VM Service Creation and Deployment

Key Data Activities

- Data engineering
- Operations and user support
- Software development
- Software integration
- Data processing
- Data management
- User web services
- User web interfaces

	Data In		Data Out	
	# of files	Terabytes	# of files	Terabytes
Peak per day	2,169,190	8.0	648,093	16.8
Avg per day	130,952	0.4	99,253	2.6

University researchers and telescope staff have privileges to upload data, create VMs and install science applications, run interactive VM sessions, submit batch processing jobs to VMs, share their VMs, control the life-cycle for their VMs, offer software-as-a-service applications in their VMs.

Definition: VM – Virtual Machine