

Success, Progress, Developments and Opportunities

**BCNET Shared Services Portfolio** 

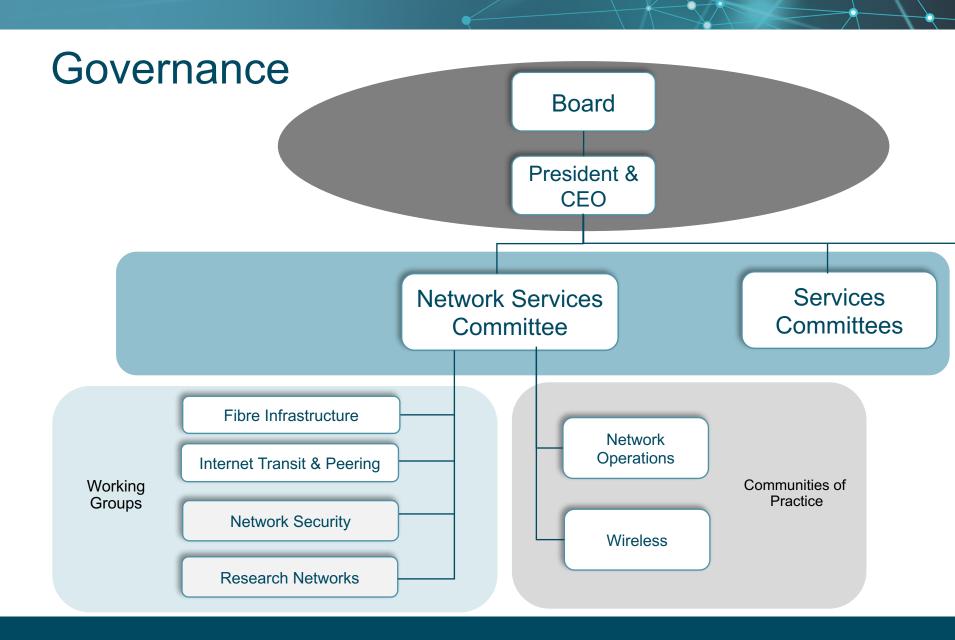
# Agenda

- Network Services
- Procurements
- Cybersecurity and Identity Management
- Enterprise Resource Planning
- Professional Development & Training
- Shared Systems and Technology



### Vision

We will deliver, operate and advance network infrastructure to support education, research and innovation in British Columbia.



NREN - Canada's National Research and **Education Network** YukonCollege AC&RN-NL cyberă **BCNET** SRNET MRnet ECN رندم ORION 🛶 ACORN

### **Network Services Portfolio**

# Physical Access



- Fibre Connection
- Fibre Cross Connect
- Point to Point Ethernet

### Layered Services



- Advanced Network
- Internet Transit
- Transit Exchange
- Virtual Router

### **Our Fibre Infrastructure** Investments

#### **2017/18 New Builds**

- √ Added 228 fibre kms
- Douglas College (2 sites)
- ✓ Emily Carr
- ✓ Justice Institute of BC
- Okanagan College

#### 2018/19

- √ Kamloops TRU, EduCloud
- √ Kelowna OC, UBC

### Oversight by Finance Committee

Invest & develop with members and local partners

### Reviewed by:

- Network Services Committee
- Fibre Infrastructure WG

9,980 fibre kms - BCNET Assets

# New Connections and Upgrades

#### 2017/18 NEW

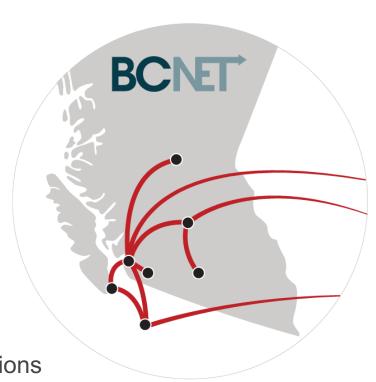
- √ 26 PLNet Transitions
- √ 4 research sector
- √ 2 100 Gig-E connections
- √ 3 new sites/ECUAD, OC, KPU

### **Upgrades**

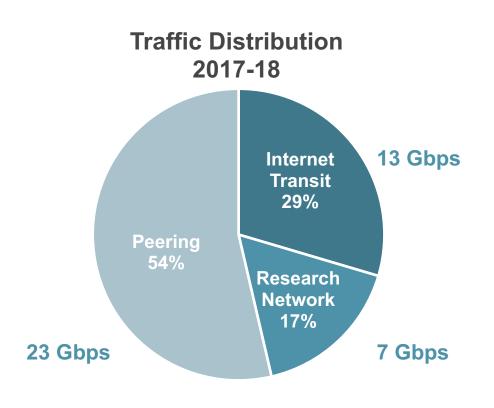
√ 12 upgrades across 6 institutions

### **Planning**

- ✓ Prince George & Kelowna diverse connections
- √ Vancouver & Kamloops 100GigE



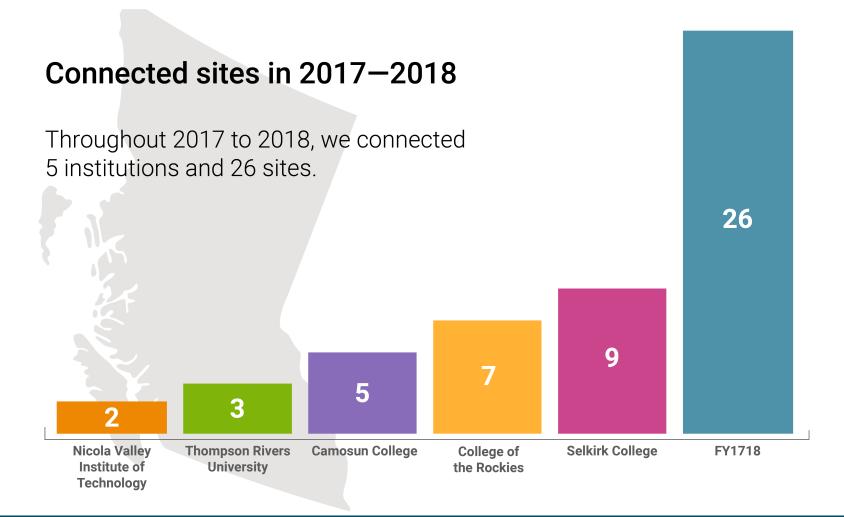
# Internet Transit and Peering Services



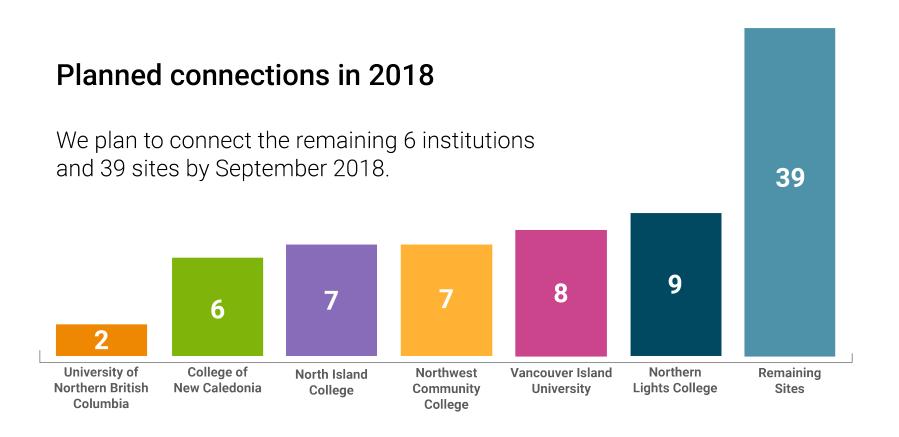
- Multiple upstream connectors
- Enhances connectivity experience
- Optimizes data traffic

Investment in Research Network + Peering = \$2.2 M annual avoided cost for members

# Integrated Network Project



# Integrated Network Project: April–September



# Distributed Network Management

#### **Vancouver | Core Staff**

- Blake Bridgewater
- Morgan Dapilly
- Pallavi Kapoor
- Don McWilliams
- Oscar Rondon
- Dave Stillwell
- Toby Wong

#### Kamloops | TRU

David Burkholder

#### Kelowna | UBCO

Keelin O'Reilly

#### **Prince George | UNBC**

Curtis Bowden

#### Surrey | SFU

Vic Herbert

#### Victoria | UVic

- Steve Lahey
- Hans Yodzis
- Staff

#### **UBC | Operations 24x7**

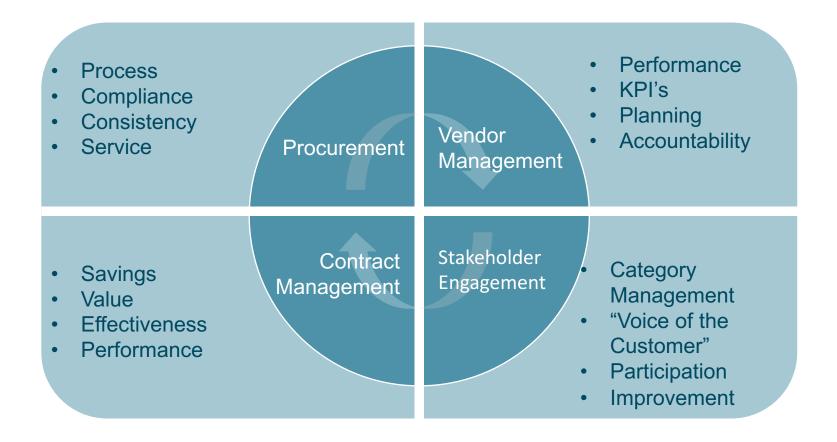
- Rose Chan
- Staff

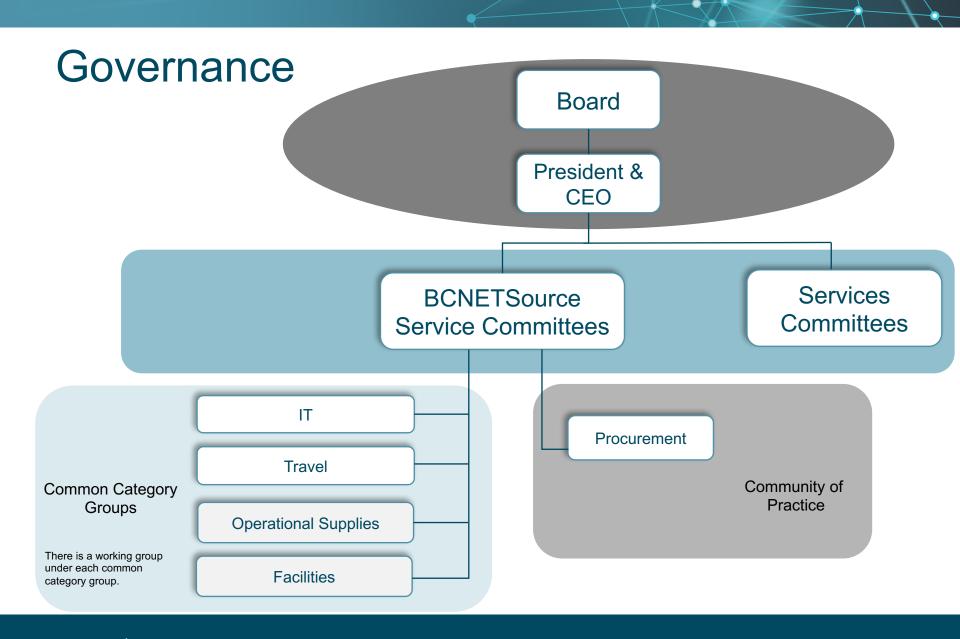


### Vision

We will provide outstanding value to member organizations through supply management expertise, innovation and collaboration.

### What we do

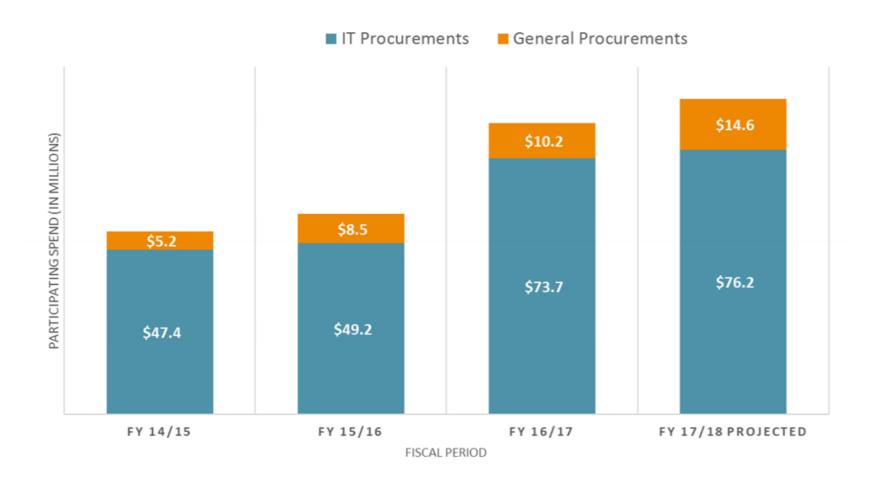




### Who do we collaborate with?

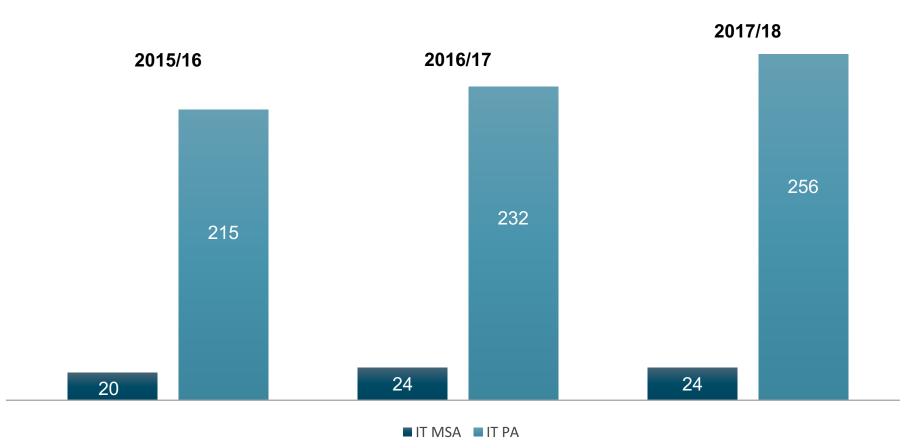
#### **Members** Strategic Sourcing Contract Support Awareness **BCNET SST& Vendors Network** • KPI's Procurement Reporting Policy & Compliance Vendor Management Contract Support **Other Groups ASDT & Ministry** • GPO's Benefit Reporting • BCCampus ASDT Procurements Procurement Leadership **Networks**

# We reached \$90M in participating spend



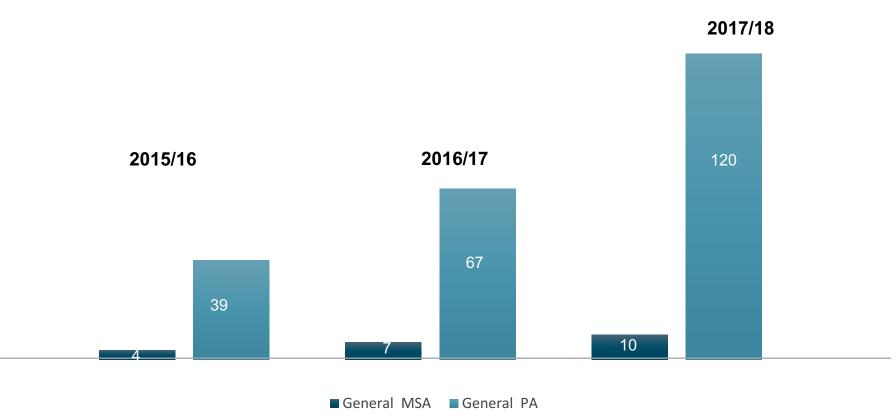
# We received 256 participating agreements

IT Contracts



# We received 120 participating agreements

**General Contracts** 



# Major IT contracts in 2017/18

Network Circuits - TELUS

Software VAR – Compugen

Microsoft Sector Agreement Extension

Firewall – Palo Alto

Core Switches – Juniper and Cisco

# Our procurement pipeline: 2018/19

### **Underway**

- IT Pre Qualified Services
- End User Computing Devices
- Elevator Maintence Services
- Custodial Supplies
- Traveller Emergency Services
- International Refund and Tuition Payments
- Facilities Pre Qualified Suppliers
- Maintence Repairs and Operations

### In Planning

- Hardware VAR
- Scientific Supplies
- Stationary & Promotional Products
- External Audit Services
- Shredding and Records Management



# Summary

We engage and support our members' needs and pursue new opportunities.

IT contracts are the largest area of spend and success.

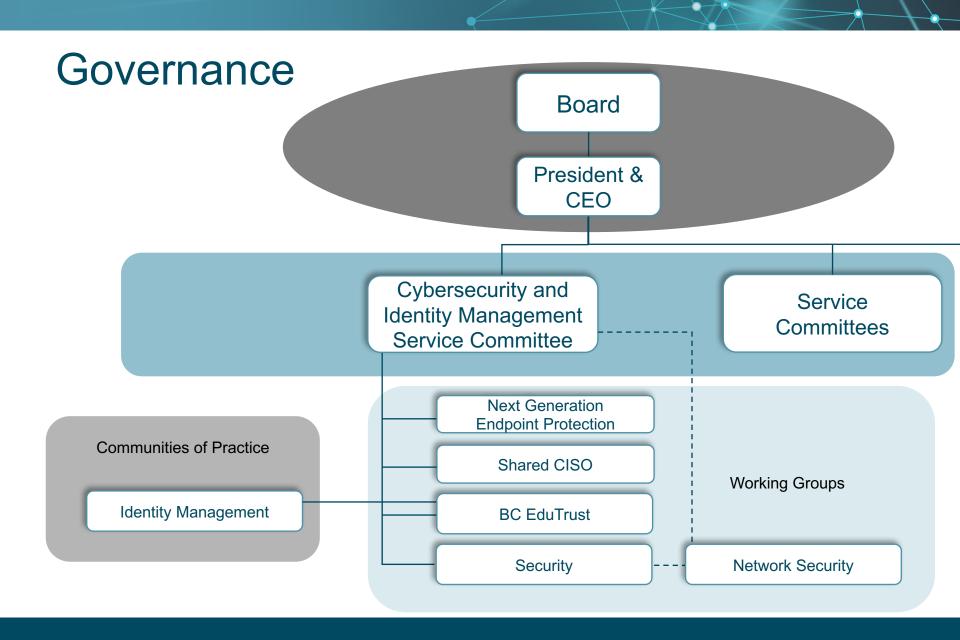
#### We facilitate

- Better service
- Better contracts
- Better results



### Vision

BCNET higher education members lead the country in cybersecurity and identity management.



## What's new in cybersecurity services

CIRA D-Zone AnycastDNS

Nessus Vulnerability Scanning

**Shared CISO** 

**Next-Generation Endpoint Protection** 

Security Information and Event Management (SIEM) System



- ✓ New core service (FREE)
- √ Fault Tolerance
- ✓ DDoS Resiliency
- ✓ Web Interface
- ✓ Reporting
- ✓ 24/7 monitoring & support
- √ 100% SLA

# Attend Nessus Session!

Date: Wednesday, April 25,

Time: 2:15 PM - 3:15 PM

Room: Barrick Gold Lecture

# Nessus Vulnerability Scanning Service

- Configuring the Nessus scanner to scan your networks for vulnerabilities.
- Scanning takes place on the public side of your network (not the internal network).

FREE Service for BCNET Members!

### Attend CISO Session!

Cybersecurity Challenges in Higher Ed: A Proposal for **Shared Chief Information** Security Office

Date: Monday, April 23,

Time: 1:00 PM - 2:00 PM

Room: Labatt Hall

### **Shared Chief Information** Security Officer (CISO)

- ✓ Proposed MOU for shared CISO for five to eight institutions. (BCNET Cybersecurity Committee)
- ✓ Goal: develop and improve security baseline and maturity

### Attend NREN SIEM Session!

NREN SIEM Deployment **Project** 

Date: Tuesday, April 24, 2:30

PM - 3:30 PM

SIEM Workshop

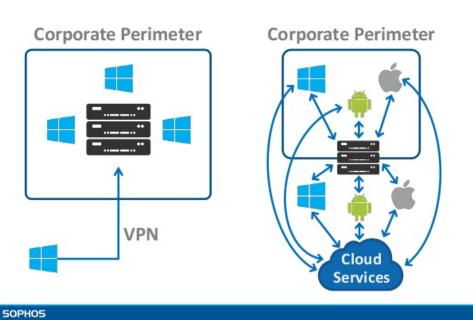
Date: Thursday April 27

Register online!

- ✓ CANARIE funded
- ✓ Building a SIEM for BCNET core management network.
- ✓ Plan to build capacity and resource for members use
- √ Hiring a SIEM Systems Administrator
- ✓ Building capacity

# Next Generation Endpoint Protection

#### The Endpoint Has Changed



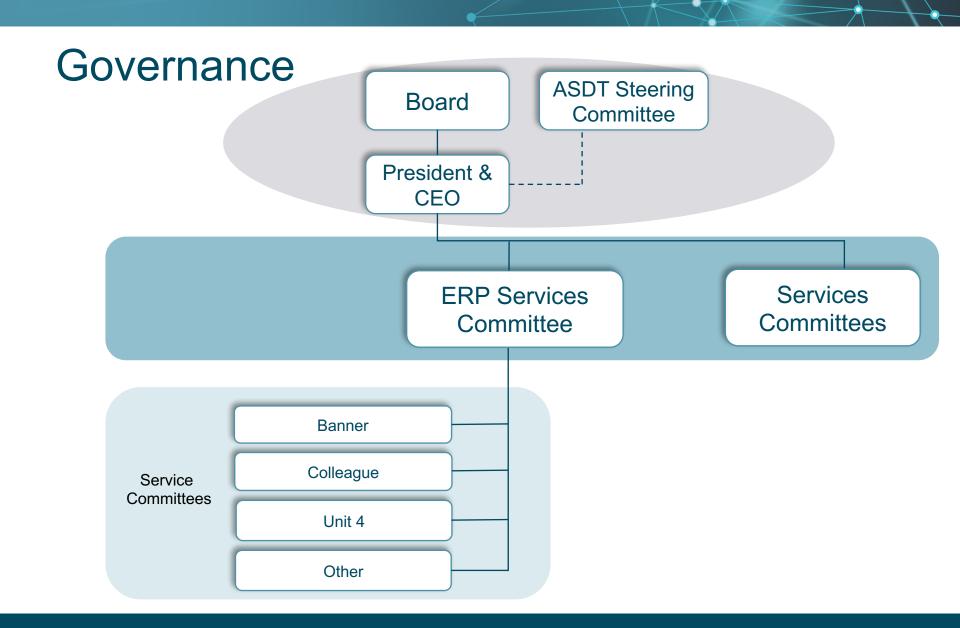
Executive Summary sent to BCNET Procurement team for prioritization.

Once prioritized, will issue request for expression of interest to be ensure our bases covered.



### Vision

We will provide collaborative ERP support services, facilitate increased collaboration, and promote adoption of the April 2016 ASDT ERP Strategy with a vision of risk mitigation, cost containment and service improvement.



#### History of ERP Office

- ✓ 2013 Deloitte Report
- √ 2016 Sector ERP Strategy
- ✓ 2017 Business Engagement Report (BER)

**Key Recommendations** 

Recommendation to establish an ERP office to facilitate collaboration

# Sector ERP Landscape





# **Shared Opportunities**



#### Attend the ERP Office Session!

**BCNET ERP Office** – Opportunities and Value

Date: Monday, April 23,

Time: 3:15 PM - 4:15 PM

Room: 1415 Cominco Policy

#### **ERP Office Initiatives**

- ✓ Online ERP body of knowledge
- ✓ Banner in EduCloud option
- ✓ Oracle OMA update
- √ Banner v9 upgrade support
- ✓ Colleague printing and operational support
- ✓ EducationPlannerBC and BCFA support



#### Vision

We will enable continuous IT knowledge improvement through collaborative and innovative methods.

#### **Our Goals**

Support + facilitate IT training

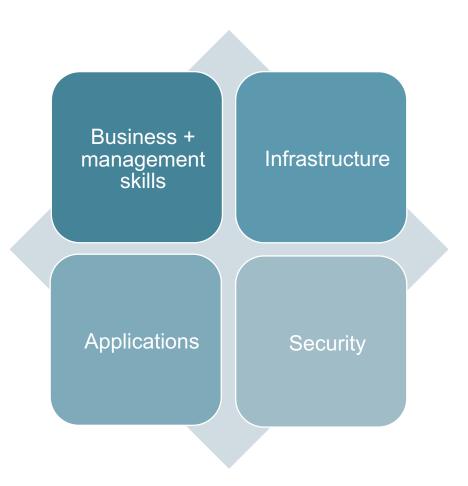
Negotiate competitive pricing

Aggregate seat counts

Offer diverse training methods

Meet members' needs

#### Areas of Focus



## Member Participation



Participation from 25 PSIs



131 attendees across
11 professional
development and
training courses



Average 4/5 stars rating in value of education, instructor expertise, and overall satisfaction with training courses

#### **Areas of Focus**

Improvements

- Course Surveys
- Expanding course offerings based on member feedback
- Exploring future Member needs

•New Course Offerings

- Juniper JUNOS
- Cybersecurity
- Advanced Powershell Training
- ITIL Service Operation
- Lean IT & Lean Kaizen

#### Our 2018 Course Roster

#### **NEW Courses**

- Lean IT Foundation (May 24-25)
- MS Powershell (June 4-8)
- Banner Technical: Extending Banner 9 Admin Apps (June 19-21)
- MS Enabling and Managing Office 365 (June 25-29)
- ITIL Foundation (August 15-17)
- COBIT 5 Foundation (October)
- Cybersecurity Foundations (October)
- Advanced MS Powershell (November)

#### In Development

- Juniper JUNOS (Summer/Fall)
- ITIL Service Operation (Fall/Winter)
- Lean IT Kaizen (Fall/Winter)

# Our future offerings...

IT Leadership

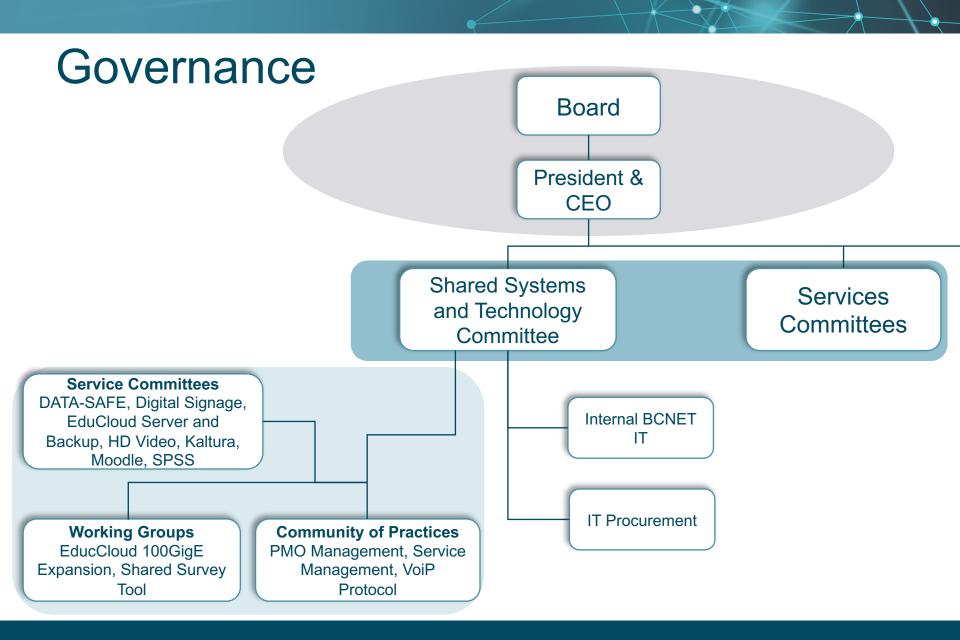
Mentorship Program

More Course Offerings



#### Vision

To facilitate collaborative and innovative information technology solutions to support the delivery of education and research.



#### What we do

**IT Services** 

 EduCloud, DATASAFE, Video Conferencing, Digital Signage

**Enterprise** 

• Kaltura, SPSS, SurveyMonkey

Educational

• Desire2Learn, Moodle, Blackboard Collaborate

Licensing

• Microsoft, Adobe, Switches, Network Storage

Internal IT

· Wiki, EduRoam, DNS, Security

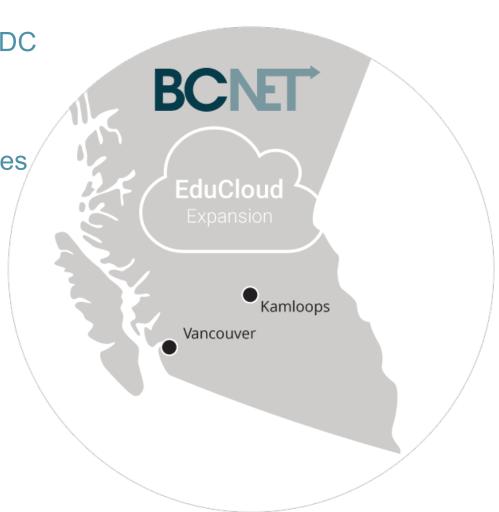
## EduCloud Server/Backup Service

User definable location within VDC

User definable resources to include in DR

Bi-directional between both nodes.

EduCloud Disaster Recovery in planning/development this year



#### Participation in Information Technology Services

Visit our Service Catalogue: www.bc.net/service-catalogue

# EduCloud (23 members)

**BCIT** OC**RRU** Capilano CNC Selkirk COTR TRU\* **TWU** Douglas **ECU** UFV **JIBC UBC KPU** UNBC Langara **UVic VCC NVIT** NI C VIIJ\* **NWCC BCNET** 

# Video Conferencing (20 members)

SC **BCIT CNC** SFU COTR TRU DC TWU **ECU UBC JIBC** UNBC **KPU** UVic Langara NLC NVIT **NWCC** OC RRU

# DATASAFE (8 members)

ECU KPU RRU SFU TWU UNBC UFV

CAP

BCNET

1 member evaluating

#### Digital Signage

Langara TRU UVic

3 members piloting/ evaluating

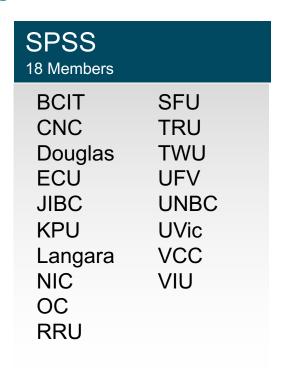
<sup>\*</sup>TRU using Server and Backup, VIU using Backup

## Participation in Enterprise Applications

Visit our Service Catalogue: www.bc.net/service-catalogue

# Moodle 8 Members/40K FTE's CNC CotR ECU KPU NVIT OC TRU TWU

Kaltura 12 members/107K FTE's	
Camosun CotR Douglas ECU JIBC KPU Langara	RRU UBC UNBC UFV VIU Bccampus
Pipeline TRU	



# Visit our services teams at the BCNET booth!