



# BCNET<sup>→</sup>2019

## ERP Office Pilot: Our Head in the Clouds

Garry Sagert



# Presentation Goals

It Just Takes a Better Idea

ERP Sector Overview

BCNET ERP Office Accomplishments

Changes in the Marketplace

Moving forward as a Sector

# It Just Takes a Better Idea

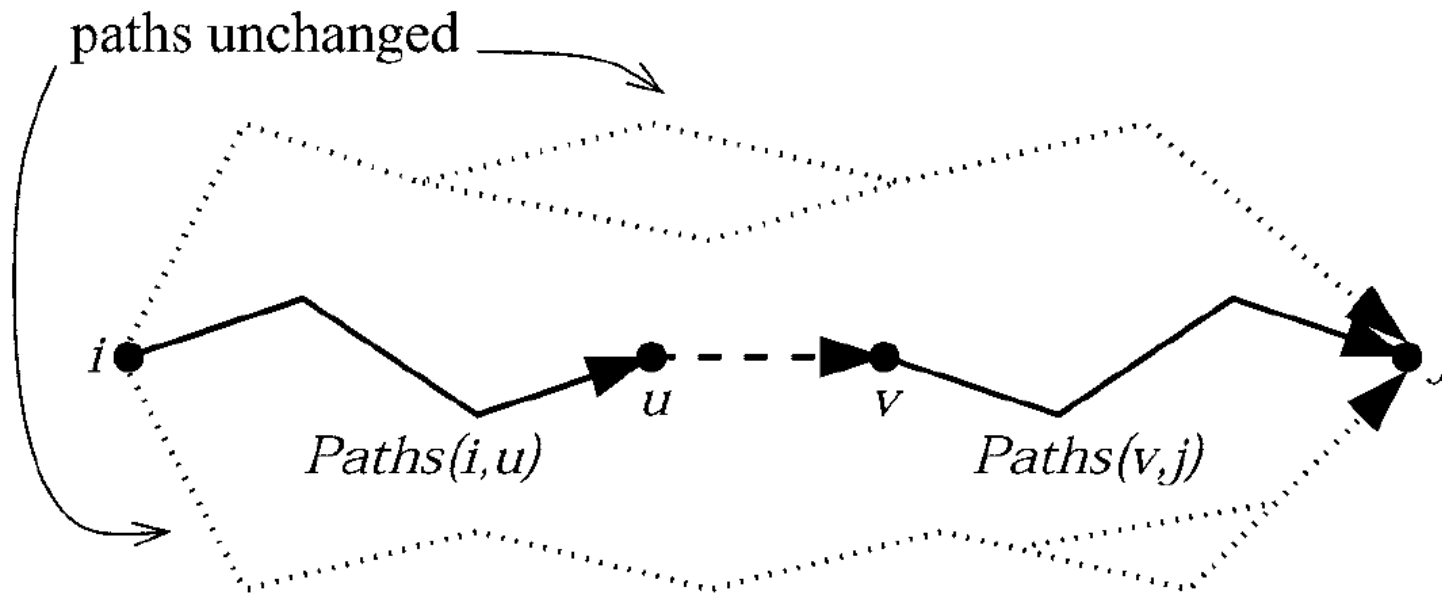
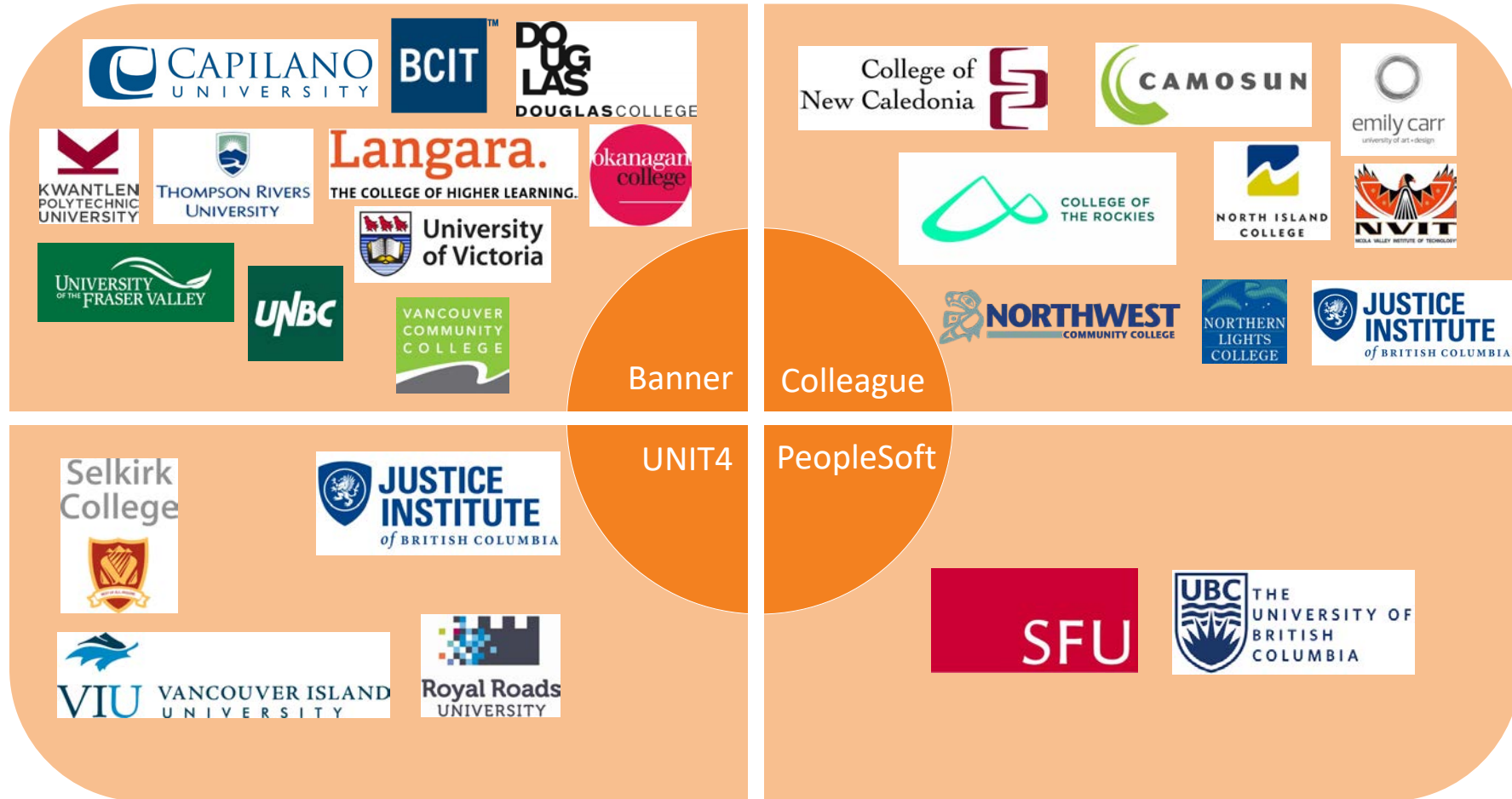


FIG. 1. Inserting a single edge. The number of paths from  $i \rightsquigarrow j$  changes only if some path  $i \rightsquigarrow j$  contains the updated edge  $(u, v)$ .

King & Sagert, STOC 1999, JCSS 2002

# Sector ERP Landscape



# A Few Statistics

- Manage \$6B in funding
- Pay 50,000 employees \$3B in wages
- Adjudicate 175,000 admissions files
- Register 275,000 students
- Graduate 65,000 students
- Cost \$20M to maintain



## ERP Systems are Critical to PSIs

- Manage essential PSI operations
- Enable effective planning and decision-making
- Considerable investment in IT & human resources
- Safeguard important and sensitive information
- Significant risk potential

# Prerequisites to PSI Success



Governance and  
Management  
Structures



Functional  
Subject Matter  
Expertise



Contract and  
Vendor  
Management



Technical  
Expertise

# Common Challenges for PSIs

Swamped just keeping the lights on

- Mandated Functional Compliance
- Security Compliance
- Technical Currency
- Recruitment & Retention

No time to think strategically

- Business Process Transformation
- Cloud Strategy & Architecture
- Privacy Implications
- Procurement & Vendor Strategy





Do we need 25 PSIs  
addressing these issues  
independently?

# ERP Office Service Areas



## Expert Services

ERP Strategy & Consulting  
Banner & Colleague Support  
Knowledge Base



## Collaborative Initiatives

Banner Financial Aid  
Colleague Ops & Projects  
Integration Strategies



## Vendor & Contract Management

Ellucian  
OA Solutions  
Oracle

# Leverage Sector Expertise



COMMITTEES



FORUMS



WORKING  
GROUPS



CONFERENCE

# ERP Office Accomplishments

- Established ERP/Banner/Colleague Committees
- Developed Online Knowledge Base
- Updated Oracle Master Agreement (OMA)
- Assisted PSIs with Oracle License Upgrades
- Developed Oracle Cloud Strategy
- Provided Banner Upgrade Support
- Facilitated Upgrade of Banner Financial Aid Software

# ERP Office Accomplishments

- Consulted with PSIs on ERP Roles & Strategy
- Negotiated Ellucian Online Training Agreement
- Developed Colleague SoftDocs Funding Request
- Facilitated Ellucian Ethos Privacy Impact Assessment
- Assisted Ministry and PSIs with Housing Survey
- Developed Security Assessment Funding Request
- Created Colleague SLA Working Group

# Changes in the Marketplace



Vendor support for on-premise solutions is declining



Vendors urging customers towards the cloud



Clients benefit from improved vendor support



Vendors benefit from improved margins

# ERP Deployment Models



- On-premise
  - Institutional hardware and staff
  - Banner, PeopleSoft PSIs
- Hybrid
  - EduCloud hardware
  - Coalition/shared support staff
  - Colleague PSIs
- Vendor Cloud
  - AWS/Azure hardware
  - Vendor support staff
  - Unit4, Workday PSIs



# Challenges with Cloud Adoption



- Privacy
- Change Management
- CAPEX/OPEX -> OPEX Budgeting
- Procurement
- Legal



# Proposed Areas of Focus



## Expert Services

ERP Strategy & Consulting  
Banner & Colleague **Cloud**  
Knowledge Base



## Collaborative Initiatives

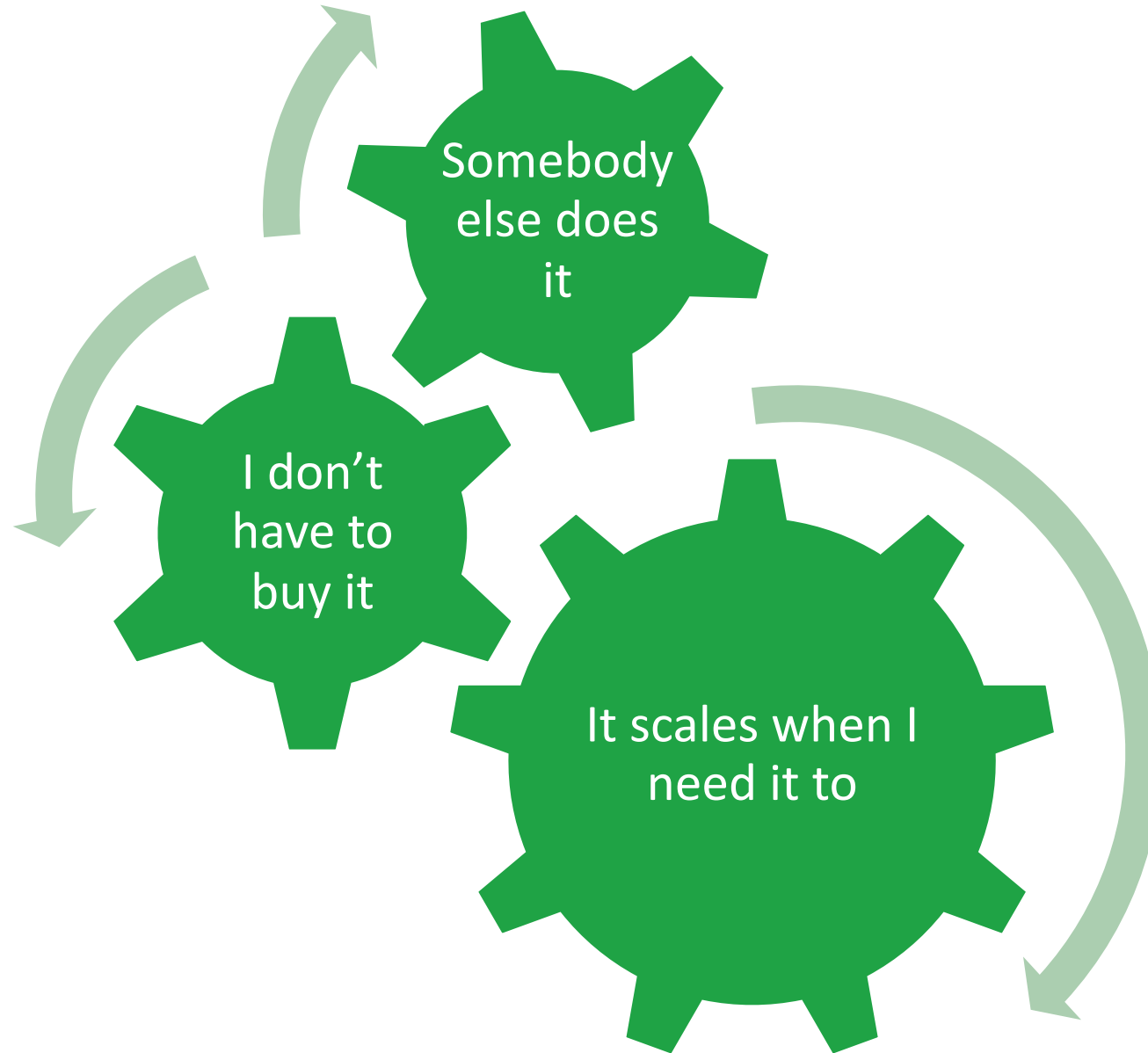
**Cloud Adoption Templates**  
**Colleague Support Model**  
Integration Strategies



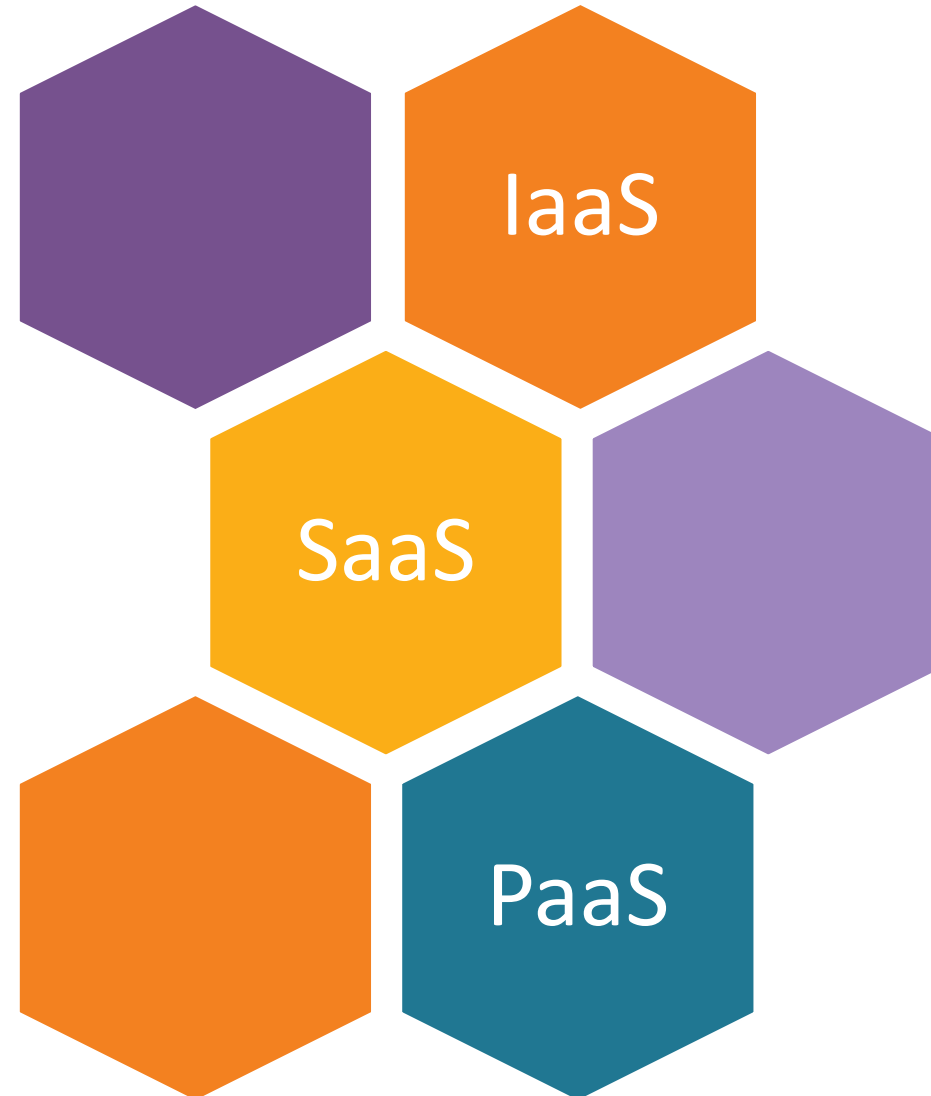
## Vendor & Contract Management

Ellucian  
OA Solutions  
Oracle

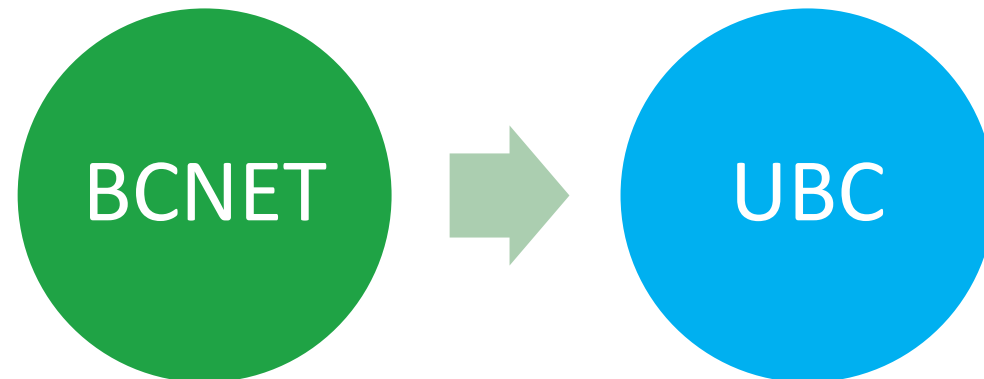
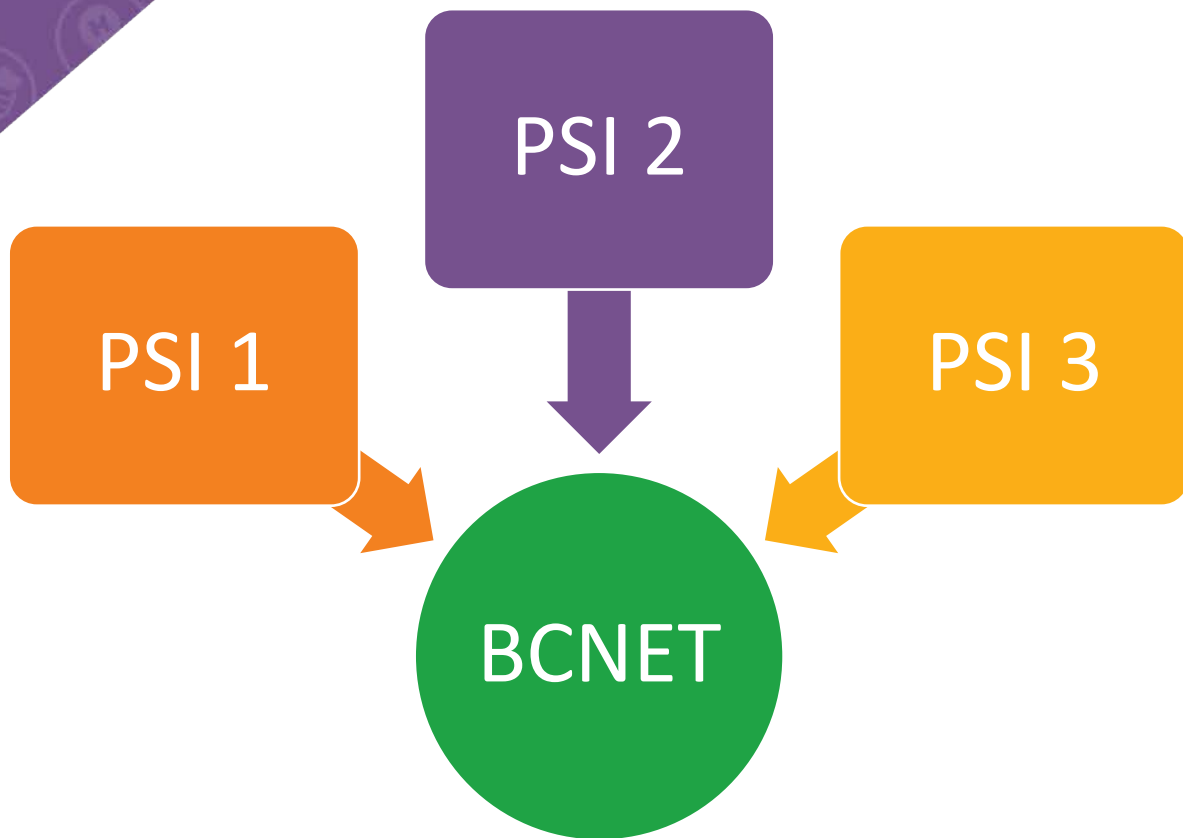
# What is Cloud Anyways?



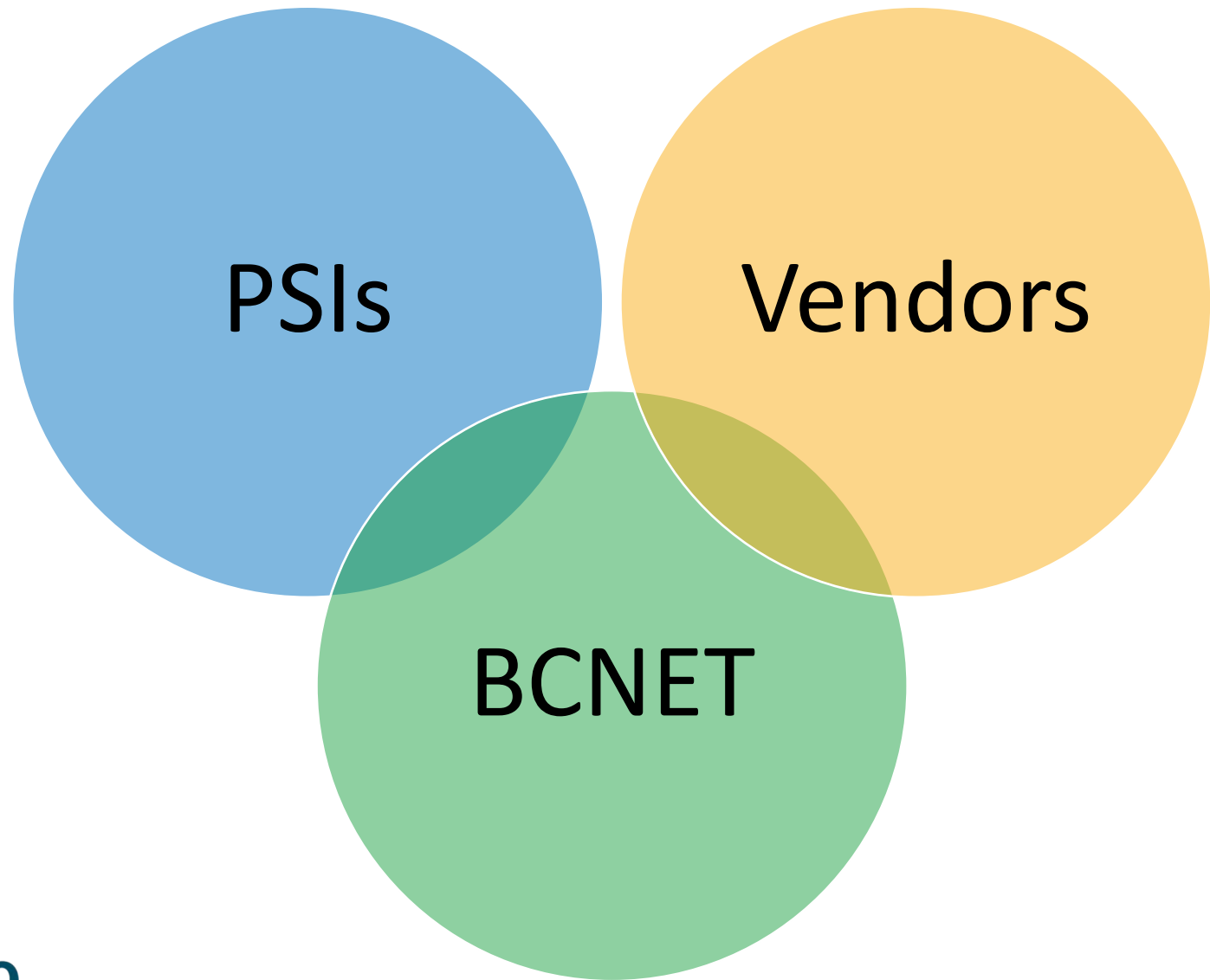
# Lots of Flavours to Choose From



# EduCloud (IaaS) / Kaltura (SaaS)



# Mix and Match Service Providers

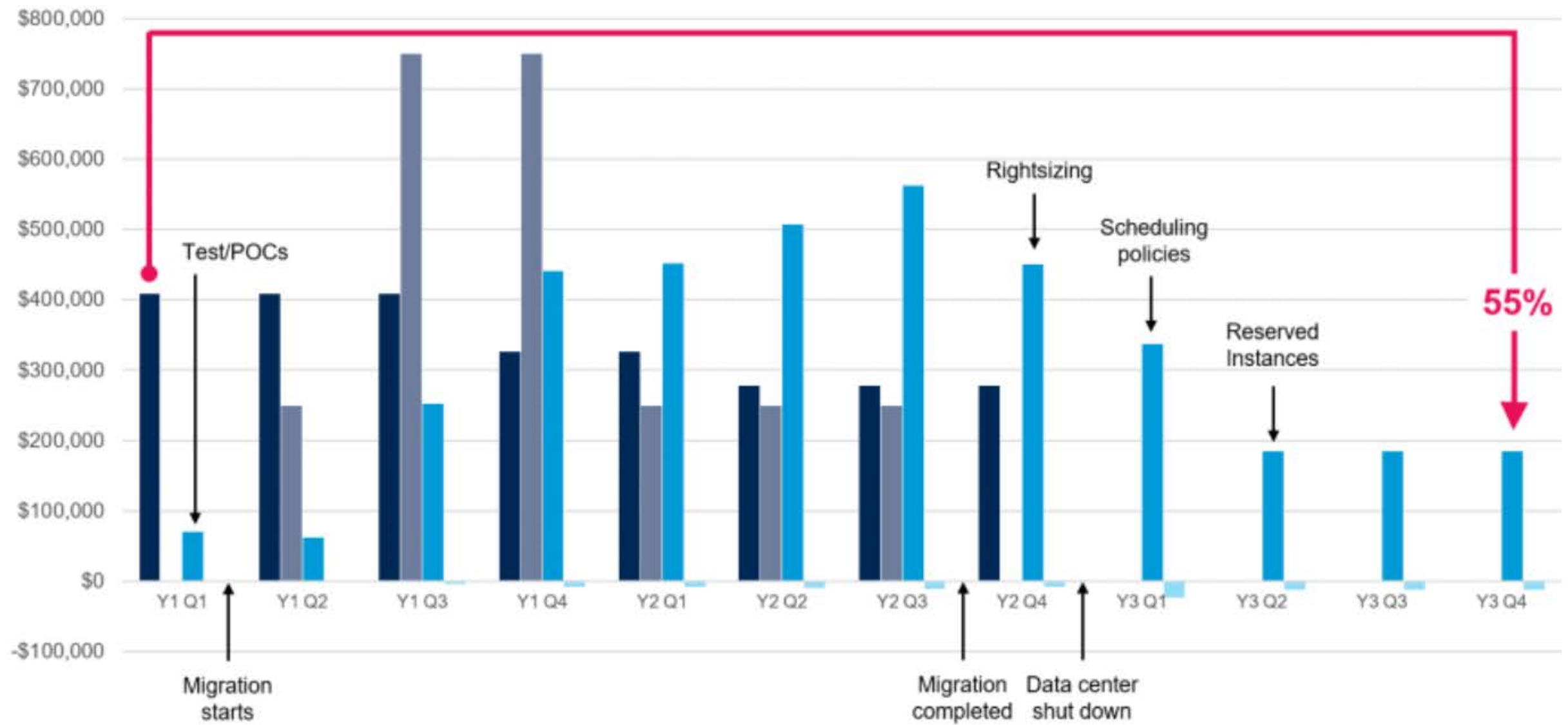


# Example: BC Colleague Institutions

Key IT Functions	Current On Premise (CSB on EduCloud)	Ellucian Cloud
Data Center Infrastructure	BCNET	Ellucian
Multiple Data Centres	Not enabled	Ellucian
Encryption at Rest	Not enabled	Ellucian
Redundant Generators	BCNET	Ellucian
Backups Copied to Three Locations	Not enabled	Ellucian
Application & Database Administration	OA Solutions	Ellucian
Server Administration	OA Solutions	Ellucian
Network Administration	BCNET	Ellucian
Operating System Administration	OA Solutions	Ellucian
24x7 Systems Monitoring	BCNET (Network, Virtual Data Centre) OA Solutions (Servers, Application)	Ellucian
Information Security	BCNET (Network, Virtual Data Centre) OA Solutions (Servers, Application)	Ellucian
Disaster Recovery	Not enabled	Ellucian
Backup	OA Solutions	Ellucian

# Example TCO of Migration to Cloud IaaS Over Three Years

■ On-premises costs  
 ■ Migration investments  
 ■ Cloud costs  
 ■ Efficiency gains



# Key Points

- Consider components separately
- Cloud is a matter of perspective on each
- Doesn't have to be all-or-nothing (e.g. all AWS)
- ROI depends on numerous contextual factors
- Invest where you differentiate, divest where you don't
- Understand every aspect of your contracts
- Plan your exit strategy at the outset
- BCNET can help facilitate



Questions?

[garry.sagert@bc.net](mailto:garry.sagert@bc.net)

**BCNET** 2019

