

Interdisciplinary College Programming in the Trades for the 21st Century: The Role of Leaders in Higher Education

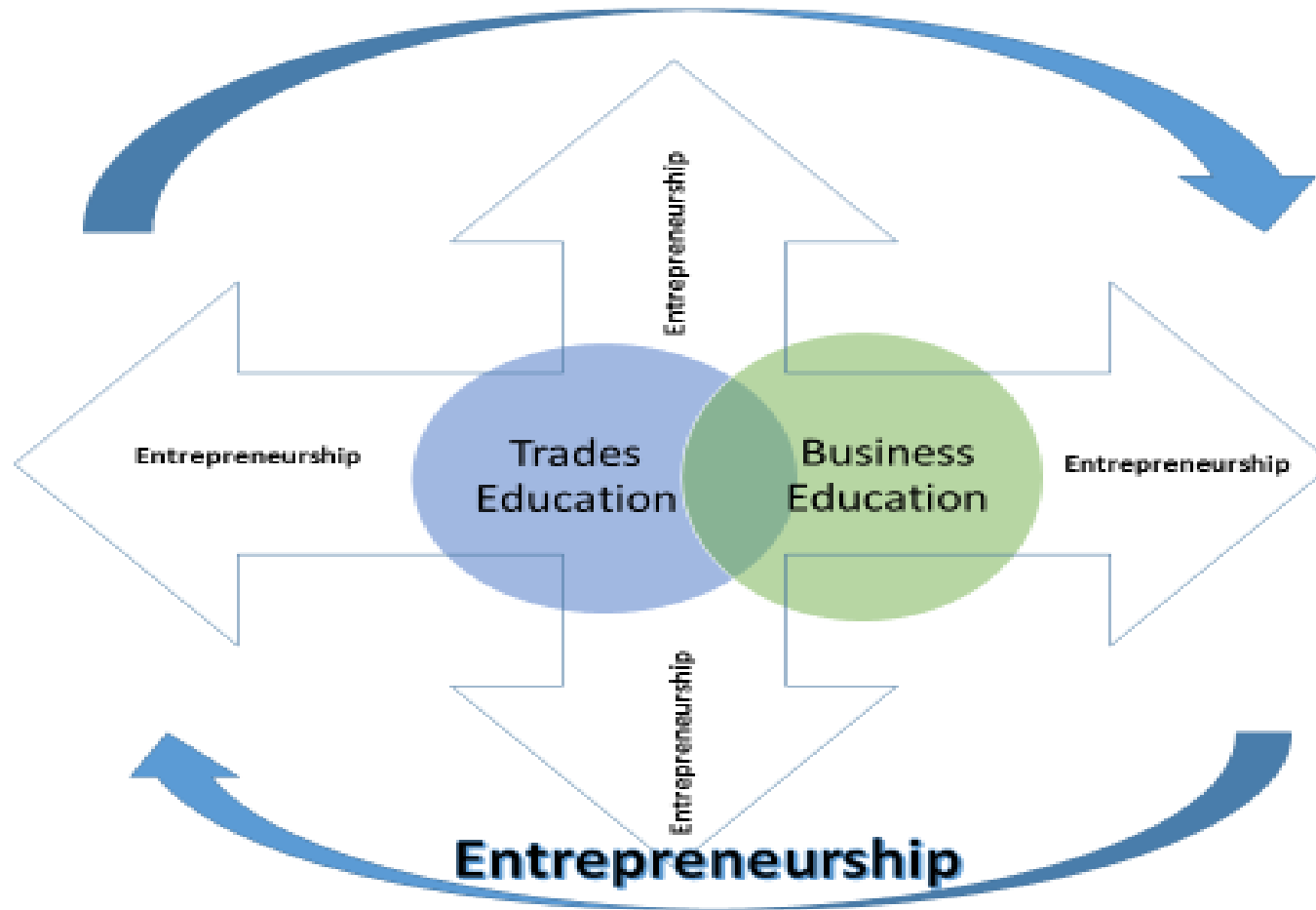
Presented by Cheryl O'Connell (MBA)
Dean, School of Trades and Technical Programs

Doctoral Candidate
PhD Rural Studies - University of Guelph, Ontario

Research Underway

From a systems perspective what are the essential elements of a viable interdisciplinary trades training framework within the context of a post-secondary College?

Interdisciplinary Trades Programming

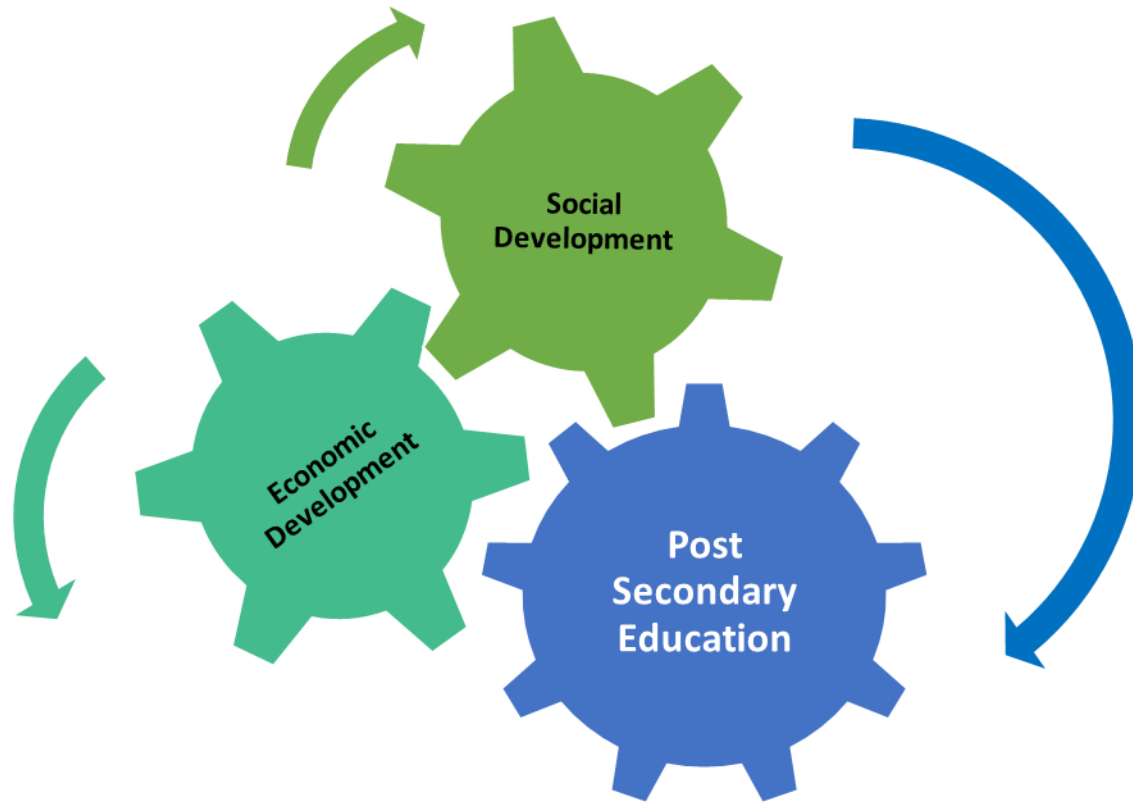


Role of Administrators

Why Interdisciplinary Trades Programming?

- **Rural Economies**
 - Shifts in rural economies.
 - Significance of small/medium businesses to regional economy - specifically Vancouver Island.
 - Trades sector vital to regional economy.
- **Role of Post Secondary in Serving Rural Regions**
 - Access to rural based training/education specific to entrepreneurship.
 - Institutional mandate to serve and support regional economic development needs and priorities.
 - Industry and student demand.

Education - Economic and Social Development

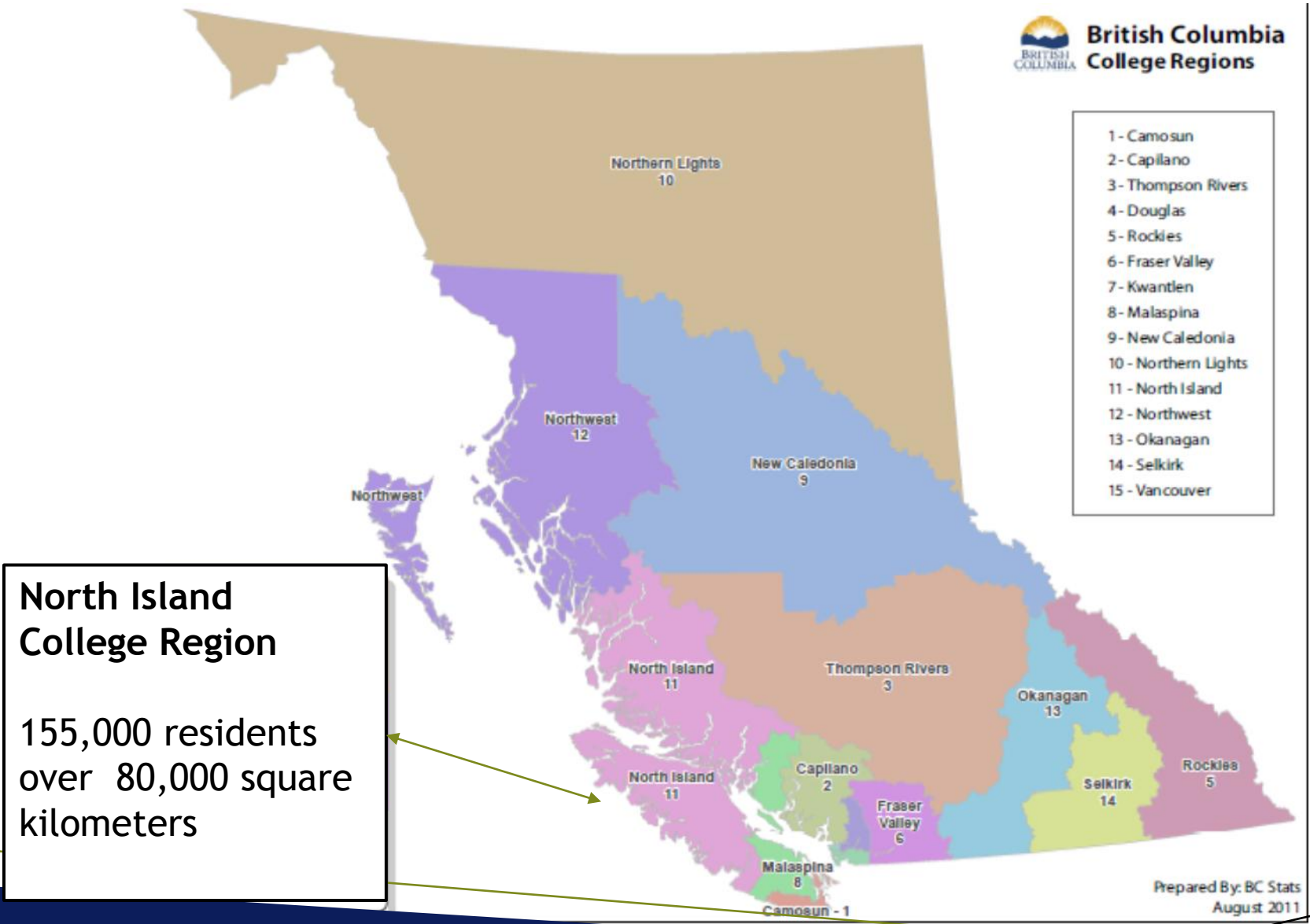


The Significance of Education to Economic and Social Development

- **Research specific to Human Capital, Economic and Rural Development:** Berryman and Bailey (1992), Benhabib and Spiegel (1994); Bollman (1999); Campbell (2012) and more.

Provincial Context British Columbia, Canada

Vancouver Island, British Columbia: Largest island on the West Coast of North America, approx. 460 km long and 50-120 km wide



Provincial Workforce Requirements

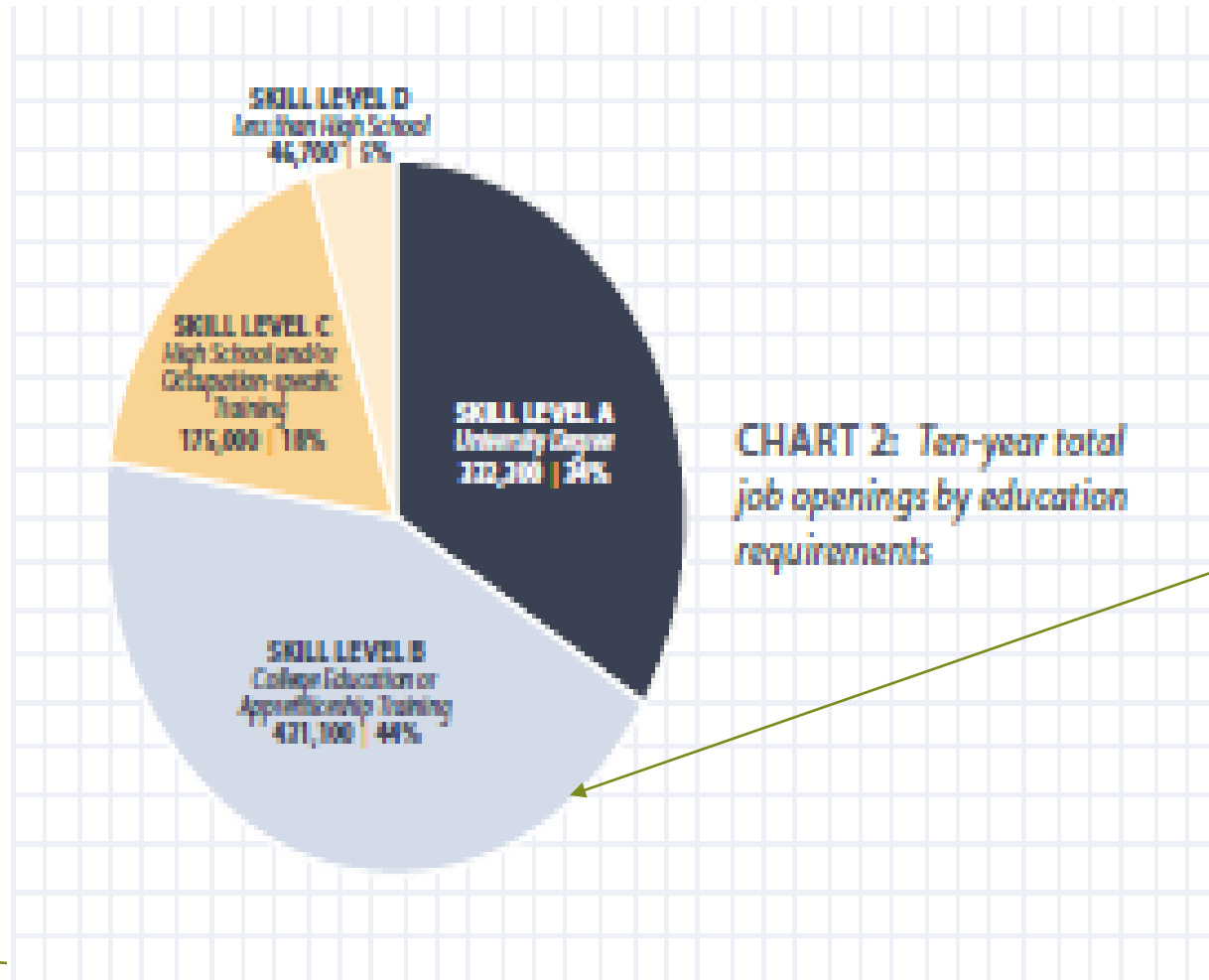


CHART 2: Ten-year total job openings by education requirements

College Education or
Apprenticeship Training
421,100 --- 44%

Source: British Columbia 2022 Labour Market Outlook and BC 2024 Labour Market Outlook

Small Business In British Columbia

- In 2014 - Approximately 1,011,000 people were employed or owned small businesses in the British Columbia. This accounting for 54% of private-sector employment in B.C.

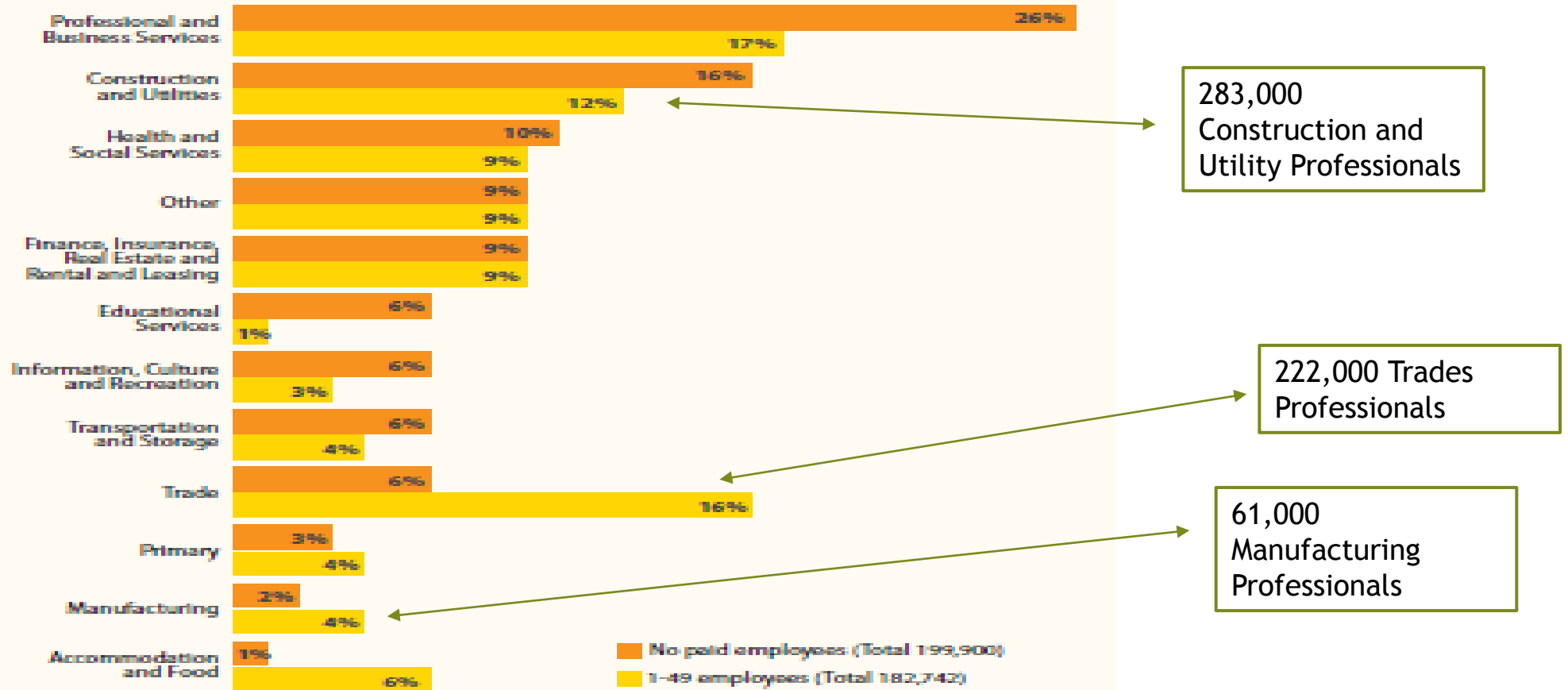
EMPLOYMENT

	Employment	Per cent of total
Total small business employment	1,010,800	54%
Self-employed	395,900	21%
Employed by small business	614,900	33%
Large business employment	847,800	46%
Total private-sector employment	1,858,600	100%

Source: BC Canada Small Business Profile 2015

Provincial Small Business Representation - Industry Specific

FIGURE 1.2A: INDUSTRY FOCUS: SMALL BUSINESS REPRESENTATION WITH AND WITHOUT EMPLOYEES (2014)



283,000
Construction and
Utility Professionals

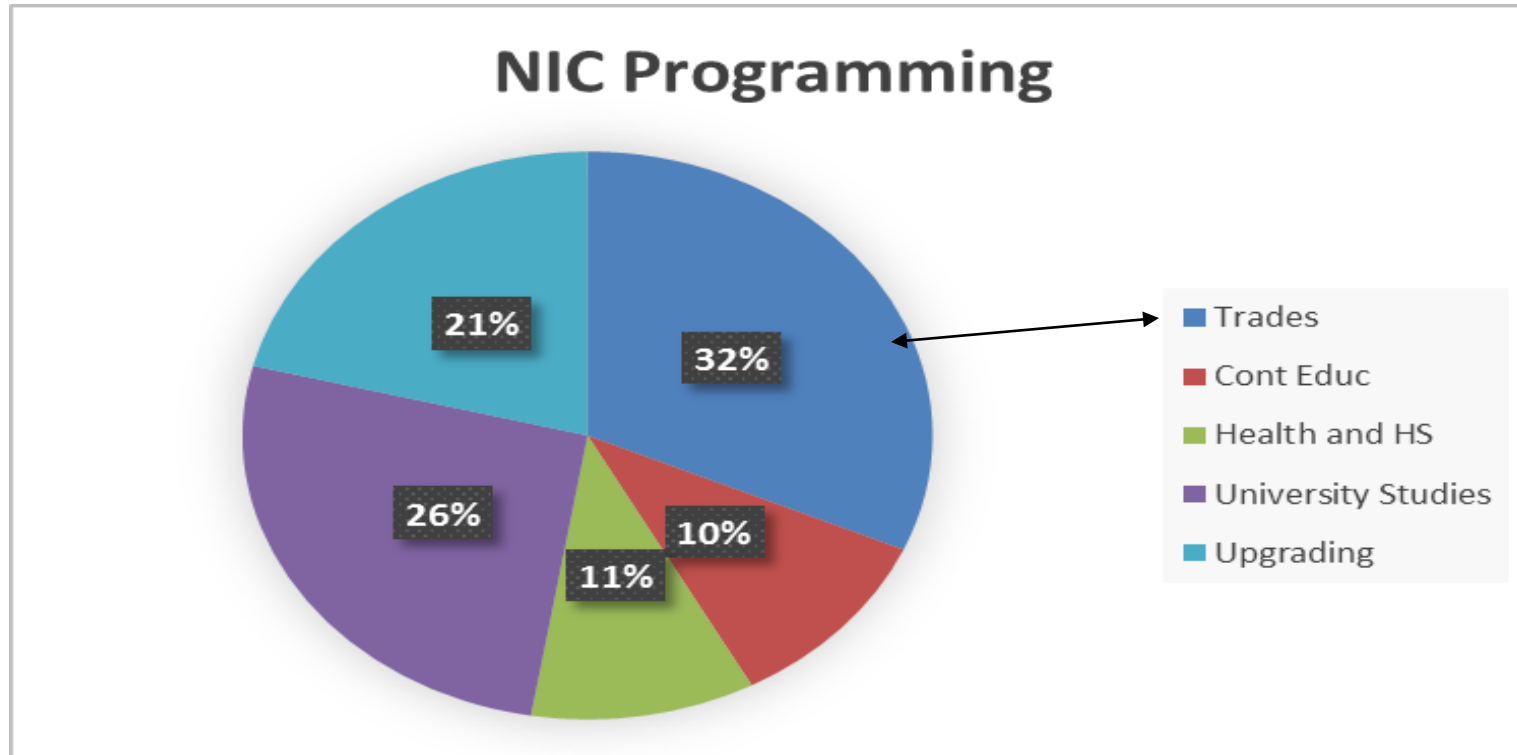
222,000 Trades
Professionals

61,000
Manufacturing
Professionals

Total: 566,000 Professionals

Note: "Primary Industries" comprises agriculture, forestry, fishing, mining, oil and gas industries.
 Source: BC Stats using data supplied by Statistics Canada

Trades and Technical Programming at North Island College



Programing Considerations

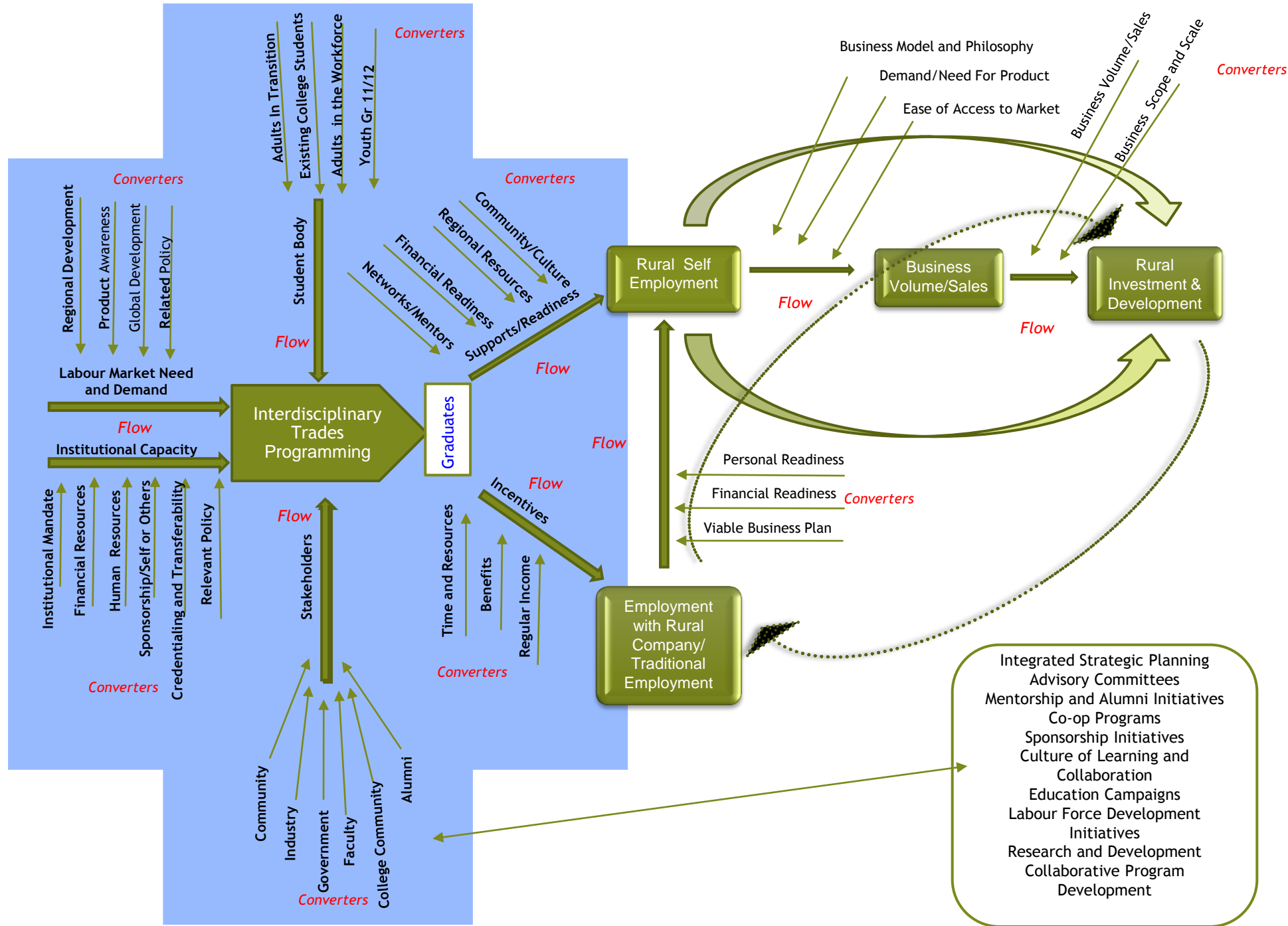
PORT ALBERNI	CAMPBELL RIVER
• Joinery and Cabinetmaking	• Welding
• Automotive Technician	• Metal Fabrication
• Professional Cook	• Heavy Mechanical
• Welding	• Automotive Technician
• Electrical Foundation	• Electrical
COMOX VALLEY	• Electronics Technician Core Certificate
• Plumbing and Piping	• Industrial Automation Technician Diploma
• Carpentry	• Aircraft Structures Technician
• Landscape Horticulture	• Professional Cook
	• Drywall Finisher Level One (2015)
	• Aquaculture Technician Level 1 & 2
	• Coastal Forest Resources
	• Underground Mining Essentials

Administration and Program Advancement

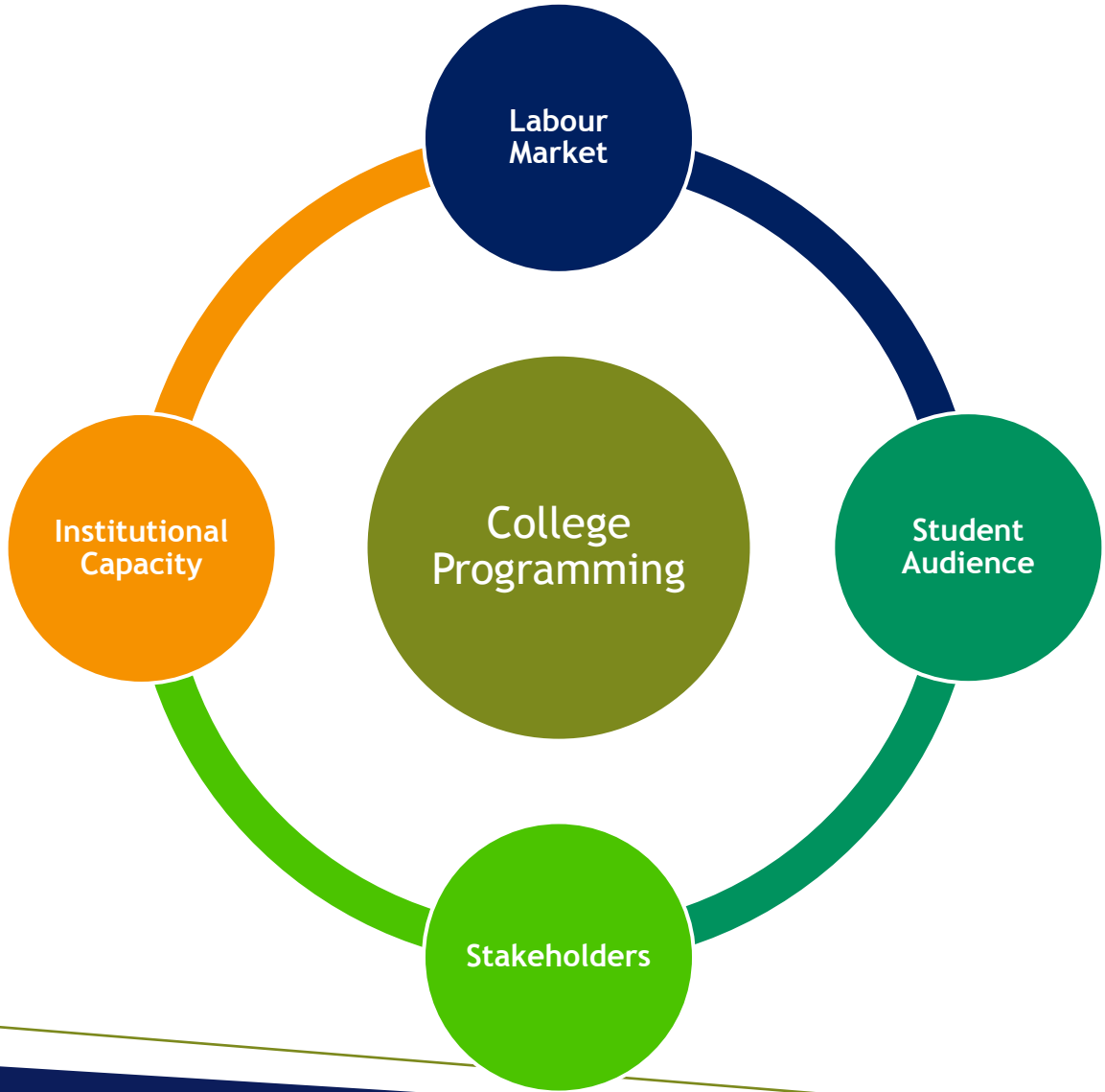
Rational and Need:

- To ensure program **relevancy**.
- To ensure **alignment with labour market** considerations.
- To ensure program **quality**.
- To ensure program **viability and sustainability**.

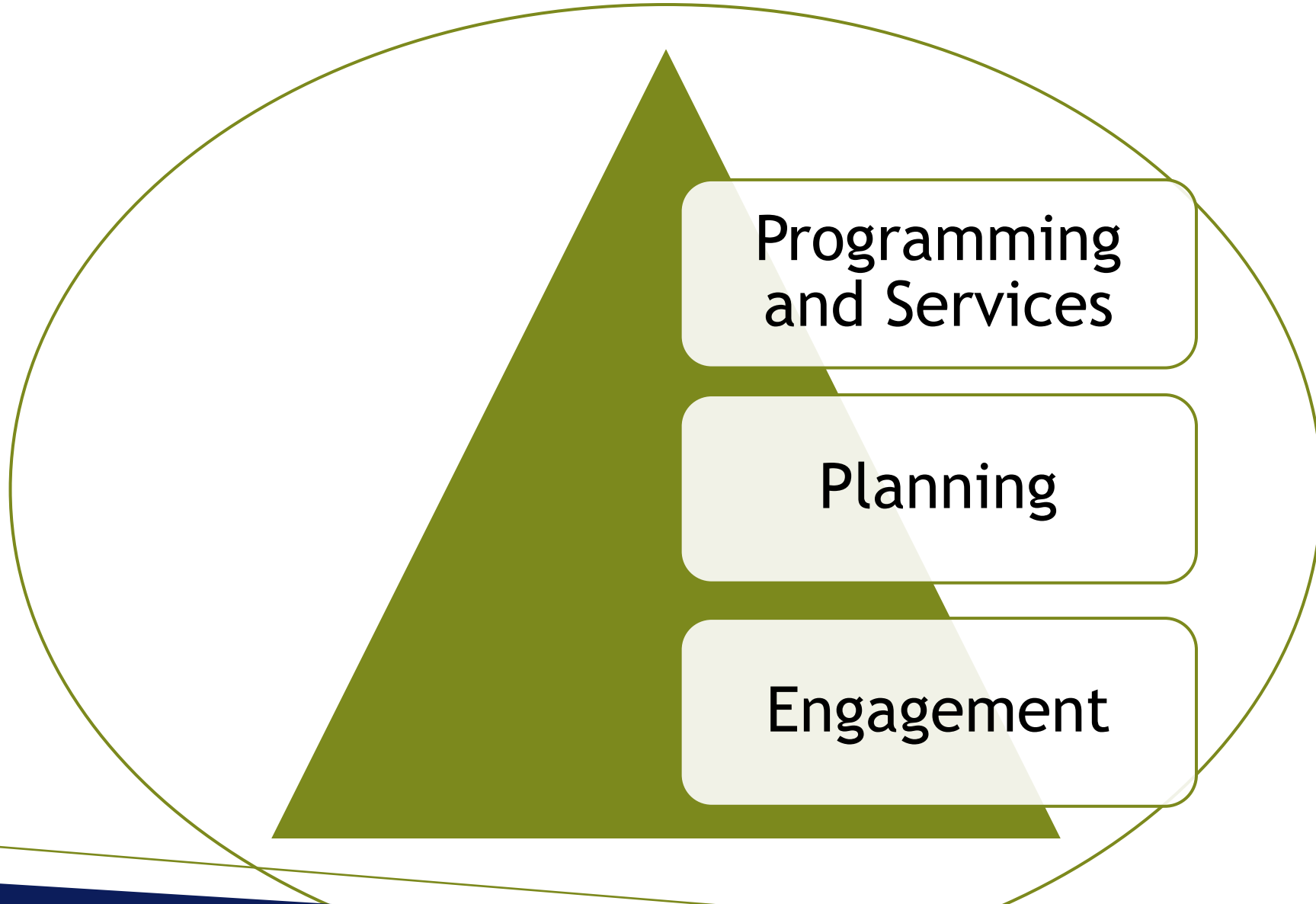
Conceptual Framework



Systems Perspective - Primary Influencing Variables When Advancing Programming



The Role of Administrators



**Programming
and Services**

Planning

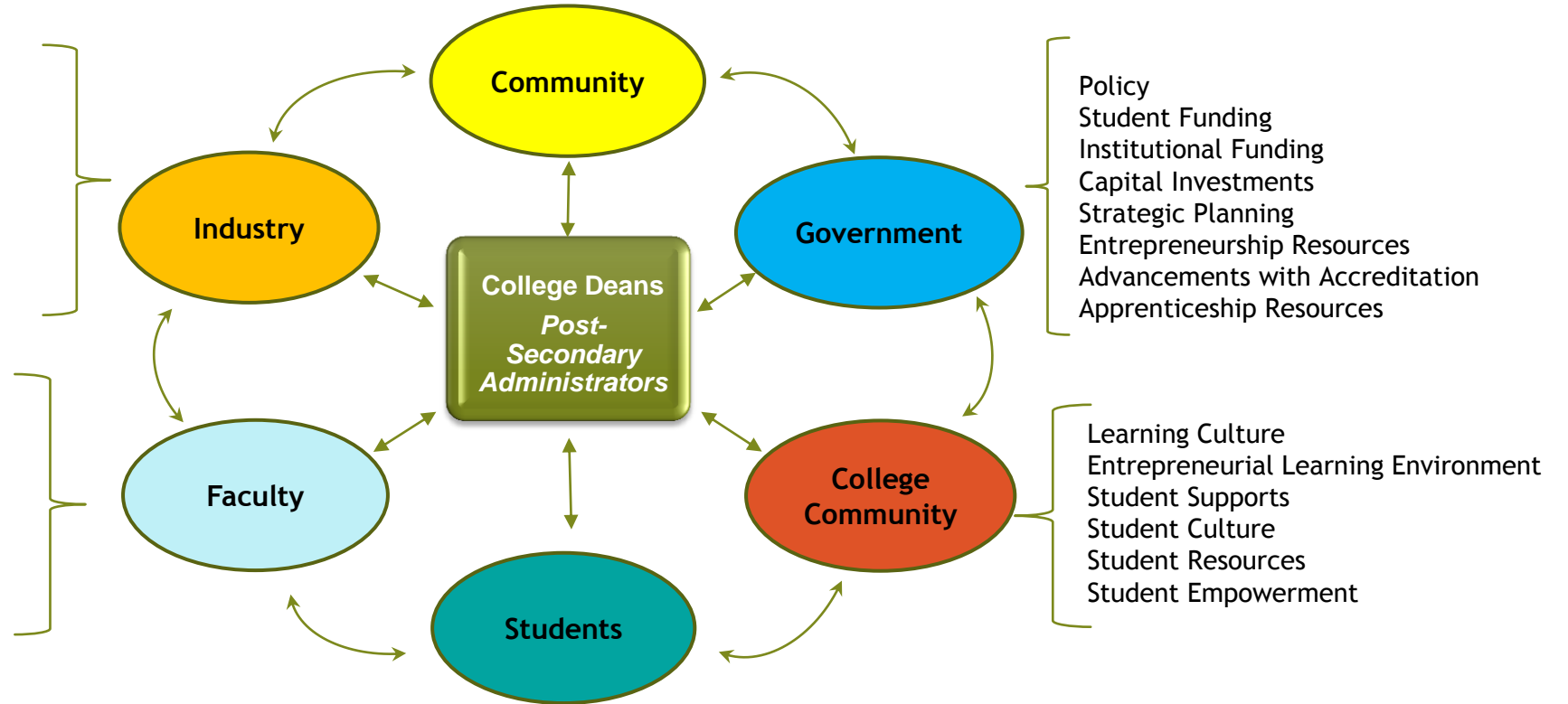
Engagement

Engagement

Advisors/Mentors
 Program Sponsorship
 Apprenticeship Sponsorship
 Employment
 Capital Donations
 Program Development
 Labour Market Data
 Innovation and Research
 Partnerships

Academic Excellence
 Program Development
 Professional Development
 Faculty Leadership
 Academic Empowerment
 Program Development
 Innovation

Sponsorship
 Timely Labour Market Data
 Employment
 Culture of Community-based Learning
 Student Incentives and Resources



Policy
 Student Funding
 Institutional Funding
 Capital Investments
 Strategic Planning
 Entrepreneurship Resources
 Advancements with Accreditation
 Apprenticeship Resources

Learning Culture
 Entrepreneurial Learning Environment
 Student Supports
 Student Culture
 Student Resources
 Student Empowerment

Educational Programming
 Educational Culture
 Sponsorship
 Student Empowerment
 Entrepreneurial Learning
 Environment

Planning



Programming and Services

Programming Mix aligned with Student and Labour Market Needs:

- **Strong Core Programming**
- Core Programming Supported by **Opportunities for Diversification** (preparatory, professional development, contracts, professional development, etc.)
- **Range and Scope of Programming** - Serving Diverse Learner Groups
 - Existing learners, Alumni, new entrants, professionals, adult learners, youth
- **Integrated Services** in Best Interest of Learners

To be Supported by:

- Processes and resources to assess programming and services
- Processes and resources to address quality assurance considerations
- Processes and resources to sustain programming and related services

Summary Reference for Administrators

PLANNING and DEVELOPMENT - “Informed and Timely”

Guided by:

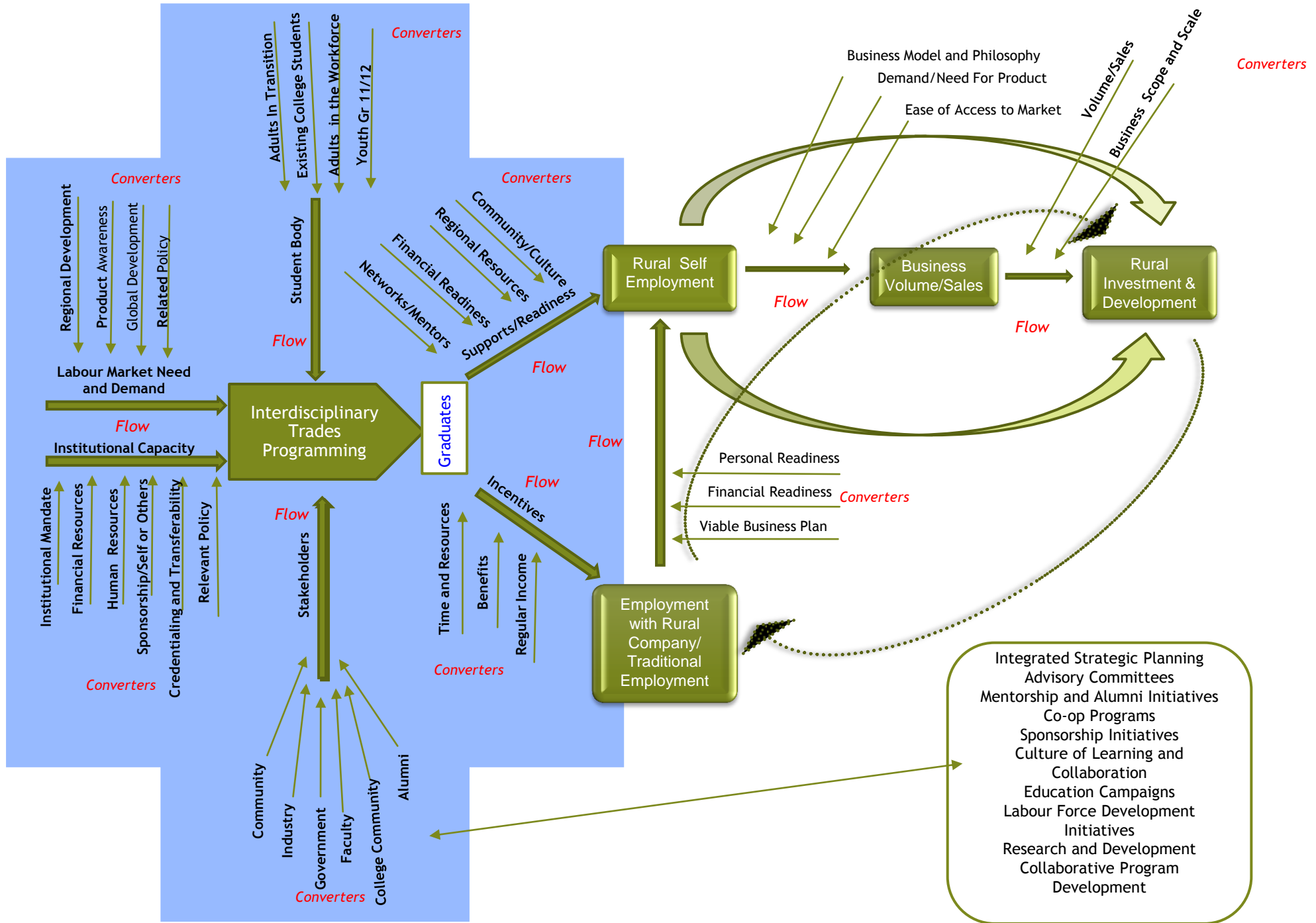
- ✓ Institutional Mandate
- ✓ Internal Consultation
- ✓ Internal Reviews - there is always room for improvement
- ✓ Internally led Planning
- ✓ Internally led Development
- ✓ External Consultation and Planning (Ind., Community, Govt.)
- ✓ Human Resources and Capacity Development
- ✓ Financial and Capital Resources

COORDINATION and MANAGEMENT - “By Engaging All Stakeholders”

Supported by:

- Multi-Year Planning (spanning Programs, HR, PD, Student Services)
- Multi-Year Financial and Capital Priorities and Plans
- Internal Process for Program and Service Reviews and Renewals
- Formal and Informal Models for Stakeholder Engagement

Conceptual Framework



Interdisciplinary Trades Entrepreneurship Training

Post Secondary Administrators as Leaders

May you as educators and administrators support progressive sustainable development through meaningful education and training in the best interest of learners, social and economic development, in the communities that you serve.



Cheryl O'Connell

cheryl.oconnell@nic.bc.ca

250.923.9721

Thank you!

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