



Dunin-Deshpande
Queen's INNOVATION CENTRE

Developing an Innovation and Entrepreneurial Mindset at Queen's University

J. McLellan, G. Bavington, M. Robb, C. Beisheim, J. Tinus, K. Creasy, C. Miobertollo

Canada 151: The Canadian National Conference on Innovation





Queen's University



One of Canada's longstanding universities

Comprehensive university - medical/doctoral/law/engineering/business/education/arts&science

23,000 students - mid-size for Canada





Queen's University



One of Canada's longstanding universities

Comprehensive university - medical/doctoral/law/engineering/business/education/arts&science

A leader in tradition? ...



Building an Outward-Looking Entrepreneurial Mindset at Queen's University

“Realm of the possible”

Inspiration and best practices

Networks and opportunities

Immersion + professional/
personal growth

Help along the way
and making a difference

Institutional culture change



What we do



Developing an Entrepreneurial Mindset

Introductory
3500+

Moderate
1200

Intensive
150

Curricular Journeys

Courses
(e.g, Engineering,
Business,
HealthSci, Arts)

Certificate in
Innovation,
Entrepreneurship
and Creativity,
International Innovation
Term

Master's of Management
of Innovation
and Entrepreneurship

Experiential Journeys

Workshops
(Student-led, DDQIC,
OPI, Smith)

Field Trips, Internships
(e.g., Entrepreneurial
Internship Year,
and
Exchanges
(e.g., India)

Programs - DDQIC
Summer Initiative,
The Foundry,
QyourVentre,
GrindspaceXL

2017-2018
Numbers of students
reached

DDQIC = Dunin-Deshpande Queen's Innovation Centre
OPI = Office of Partnerships and Innovation, VP Research
Smith = Smith School of Business

QICSI Program Highlights

FINANCIAL SUPPORT

Receive a cost-of-living stipend & seed funding.

NO EQUITY TAKEN

The venture you build is owned entirely by your team.

SECTOR AGNOSTIC

Pursue any type of venture: non-profit or for-profit, so long as it's legal!

FIRST-RATE TRAINING

Learn the foundations of entrepreneurship from seasoned experts.



Dunin-Deshpande
Queen's INNOVATION CENTRE



Where do founders
come from?

Mining Engineering Mathematics & Engineering Computing
Engineering Chemistry
Nursing
Chemical Engineering Civil Engineering
Commerce
Kinesiology Geological Engineering
Film Sociology History Biology
Psychology Life Sciences
Mechanical Engineering Computer Engineering
Gender Studies Environmental Science Engineering Physics
Religious Studies Politics
Development Studies Electrical Engineering
Physics Economics Music



Mining Engineering Mathematics & Engineering Computing

All disciplines, all levels

Chemical Engineering

Civil Engineering

Commerce

Kinesiology

Geological Engineering

Film

Sociology

History

Biology

Psychology



Life Sciences

Mechanical Engineering

Computer Engineering

Gender Studies

Environmental Science

Engineering Physics

Pan university

Development Studies

Electrical Engineering

Physics

Economics

Music



Palette 2

Four filaments combine and feed into your 3D printer. Palette 2 takes your builds to a whole new level.

Palette 2 - \$599 USD

Palette 2 Pro - \$799 USD

Add CANVAS Hub - \$79 USD [What's this?](#)

Add Extended Warranty - \$99 USD [What's this?](#)

\$599 USD - Add to Cart

Simple, multi-material 3D printing.



Screenshot





Quickly sanitize staff
and visitor mobile
devices.



SCROLL
Screenshot

IRIS TECHNOLOGIES

Improving the lives of people who suffer from computer intolerance

OUR SOLUTION

Screenshot

Help

(19) **United States**

(12) **Patent Application Publication**
Araujo et al.

(10) **Pub. No.: US 2013/0133353 A1**

(43) **Pub. Date: May 30, 2013**

(54) **COOLING FABRICS**

Publication Classification

(71) Applicant: **Columbia sportswear north america, inc.**, Portland, OR (US)

(51) **Int. Cl.**
F25D 31/00 (2006.01)
B29C 69/00 (2006.01)

(72) Inventors: **Christopher Araujo**, Portland, OR (US); **Michael E. "Woody" Blackford**, Portland, OR (US)

(52) **U.S. Cl.**
CPC *F25D 31/00* (2013.01); *B29C 69/00* (2013.01)
USPC **62/331; 156/296**

(73) Assignee: **COLUMBIA SPORTSWEAR NORTH AMERICA, INC.**, Portland, OR (US)

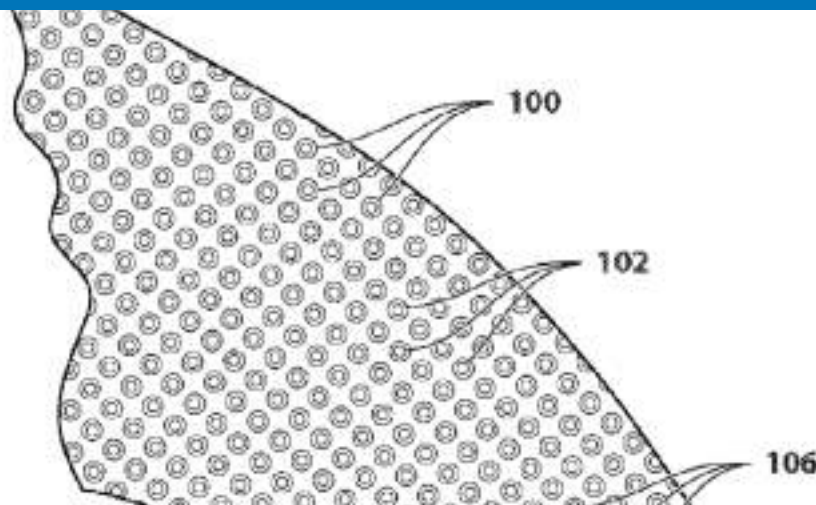
(57) **ABSTRACT**

(21) Appl. No.: **13/689,449**

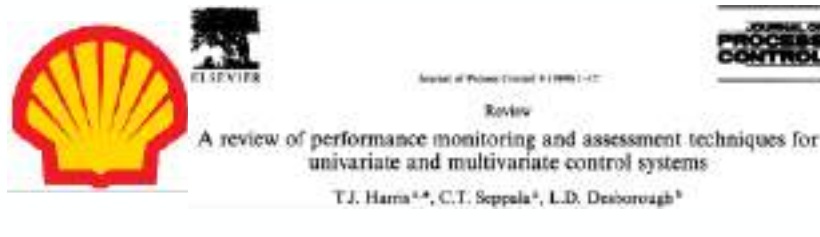
Embodiments of the present disclosure relate generally to cooling fabrics having an array of cooling elements coupled to a base fabric, and in particular to methods and fabrics that utilize an array of cooling elements coupled to a base material to absorb heat while also maintaining desired properties of

(22) Filed: **Nov. 29, 2012**

Patents: Terminal point, or starting point?



Innovation and commercial impact journey



Innovation and commercial impact journey



(61) United States
(62) Patent Application Publication (60) Pub. No.: **US 2005/0245649 A1**
 Parrot et al. (67) Pub. Date: **Nov. 3, 2005**

(64) PROCESS TO PRODUCE SILICA-FILLED ELASTOMERIC COMPOUNDS

(63) Design Application Priority Date:
 Apr. 28, 2004 (U.S.) 249,308

(65) Inventor: John Scott Parrot, Kiggins (CAN);
 Ralph Allen Whitney, Kiggins (CAN);
 Andrew Lukner, Kiggins (CAN);
 Bill Kronenber, Kiggins (CAN)

(66) Correspondence Address:
LANXESS CORPORATION
 301 8900 PARK WEST DRIVE
 FORT WORTH, TX 76104 (US)

(68) Int. Cl.: _____ **C08K 54/06; C08L 23/14**
(69) U.S. Cl.: _____ **504/119; 504/137**

(70) Publication Classification:
(71) Int. Cl.: _____ **C08K 54/06; C08L 23/14**
(72) U.S. Cl.: _____ **504/119; 504/137**

(73) ABSTRACT
 The present invention provides a process for preparing a filled butyl elastomer, which includes mixing a butyl elastomer with a least one mineral filler and at least one phosphine modifier and optionally curing the filled elastomer with one or more crosslinking systems. Filled elastomer compositions prepared according to the present invention possess improved levels of filler dispersion which results in a reduction in the hardness of the compound and an increased tensile strength.

(74) Atty. No.: _____ **30834437**

(65) United States
(66) Patent Application Publication (60) Pub. No.: **US 2012/0178848 A1**
 Adkinson et al. (67) Pub. Date: **Jul. 12, 2012**

(64) BUTYL COMPOUND FOR USE IN REDUCING A POPULATION OF AND/OR PREVENTING ACUTE AND CHRONIC ORBITAL CELLULOSIS AND CHRONIC SEALD THERAPY

(63) Inventor: David Adkinson, London (GB);
 Laurence S. Dyer, London (GB);
 J. David Parrott, Kiggins (CAN);
 Ralph A. Whitney, Kiggins (CAN);
 Bill Kronenber, Kiggins (CAN)

(65) Applicant: **LANXESS INC.,** Fort Worth, TX (US)

(66) Appl. No.: 13/529,436

(67) Pub. No.: **US 2012/0178848 A1**

(68) Pub. Date: **Jul. 12, 2012**

(69) Int. Cl.: _____ **A61K 31/00; A61P 27/00**

(70) Publication Classification:
(71) Int. Cl.: _____ **A61K 31/00; A61P 27/00**
(72) U.S. Cl.: _____ **514/322.01; 514/322.02; 514/322.03; 514/322.04; 514/322.05; 514/322.06; 514/322.07; 514/322.08; 514/322.09; 514/322.10; 514/322.11; 514/322.12; 514/322.13; 514/322.14; 514/322.15; 514/322.16; 514/322.17; 514/322.18; 514/322.19; 514/322.20; 514/322.21; 514/322.22; 514/322.23; 514/322.24; 514/322.25; 514/322.26; 514/322.27; 514/322.28; 514/322.29; 514/322.30; 514/322.31; 514/322.32; 514/322.33; 514/322.34; 514/322.35; 514/322.36; 514/322.37; 514/322.38; 514/322.39; 514/322.40; 514/322.41; 514/322.42; 514/322.43; 514/322.44; 514/322.45; 514/322.46; 514/322.47; 514/322.48; 514/322.49; 514/322.50; 514/322.51; 514/322.52; 514/322.53; 514/322.54; 514/322.55; 514/322.56; 514/322.57; 514/322.58; 514/322.59; 514/322.60; 514/322.61; 514/322.62; 514/322.63; 514/322.64; 514/322.65; 514/322.66; 514/322.67; 514/322.68; 514/322.69; 514/322.70; 514/322.71; 514/322.72; 514/322.73; 514/322.74; 514/322.75; 514/322.76; 514/322.77; 514/322.78; 514/322.79; 514/322.80; 514/322.81; 514/322.82; 514/322.83; 514/322.84; 514/322.85; 514/322.86; 514/322.87; 514/322.88; 514/322.89; 514/322.90; 514/322.91; 514/322.92; 514/322.93; 514/322.94; 514/322.95; 514/322.96; 514/322.97; 514/322.98; 514/322.99; 514/323.00**

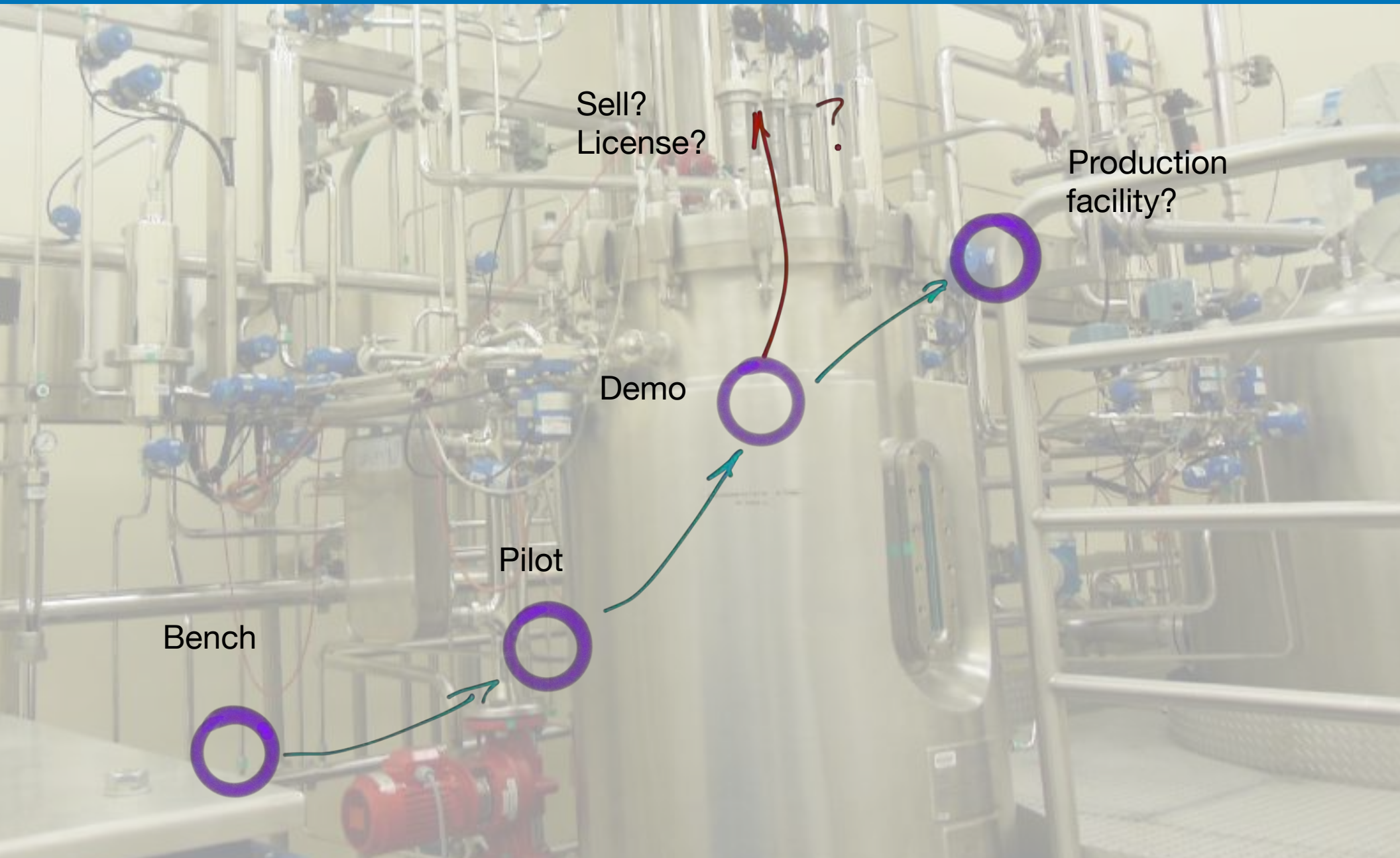
(73) ABSTRACT
 The invention relates to a butyl elastomer composition comprising a butyl elastomer and a phosphine modifier. The elastomer may be used in a wide range of applications, including footwear, seals, and hoses. The phosphine modifier is used to improve the dispersion of the filler in the elastomer.

(74) Atty. No.: _____ **30834437**



X_BUTYL™ I4565 P

What is the goal...?



How does **The Foundry** work?

1 RESEARCHERS
PITCH IDEAS TO
COHORT

SPECTRA PLASMONICS

2 QICSI TEAMS
ASSESS THE
IDEA



3 INTERESTED
TEAMS PRESENT
A PROPOSAL

durabyte 
flash storage. optimized.



Streamlined geotechnical data collection

Generate rich data sets, simply & automatically

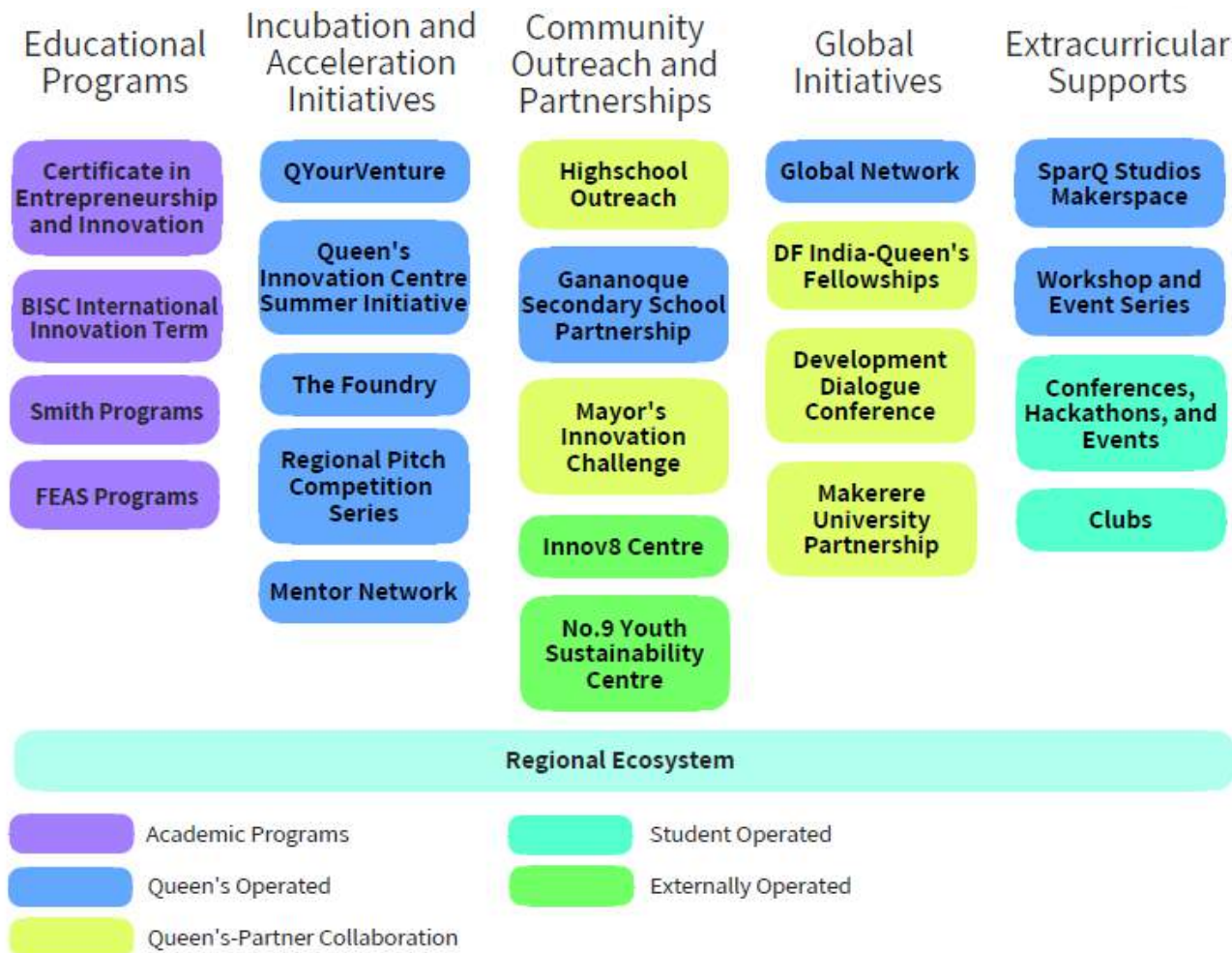
[LEARN MORE](#)



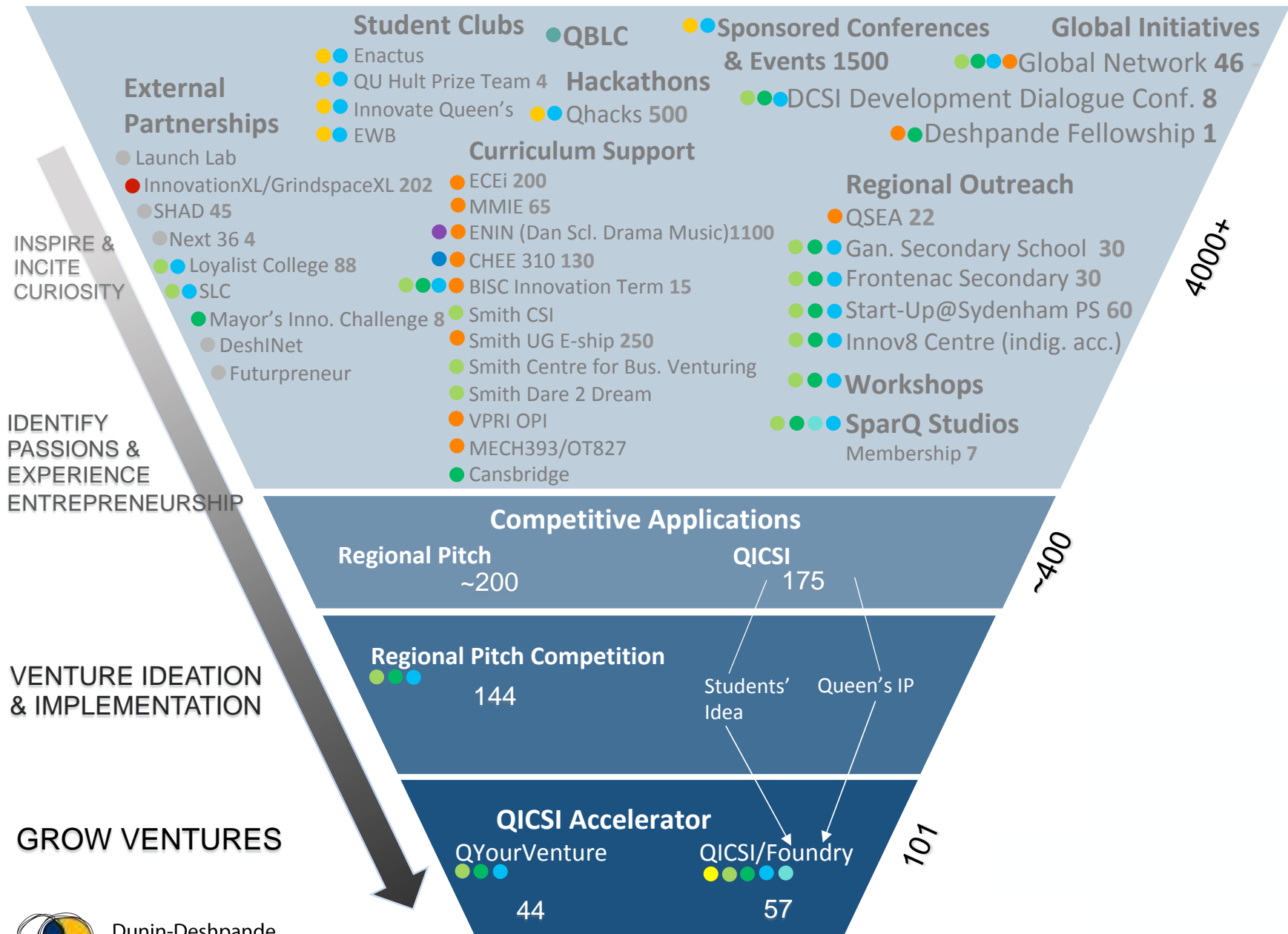
ENHANCE YOUR RAMAN CAPABILITIES

ULTRASENSITIVE SERS SUBSTRATES FOR TRACE CHEMICAL AND BIOLOGICAL ANALYSIS

DDQIC Programs Overview



Regional / Pan-University Funnel



	IDEATION/CONCEPT TO MARKET ENTRY	GROWTH/ACCELERATION
--	----------------------------------	---------------------

STUDENT STARTUPS



**IP LICENSING/
PARTNERSHIPS**



COMMUNITY STARTUPS



**MENTORSHIP/ADVISORY
PROGRAMS**



**INCUBATOR
& ACCELERATOR
PROGRAMS**



**FACILITIES/SPACE/LAB/
TECHNICAL EXPERTS**



EVENTS/EDUCATION



**SOCIAL INNOVATION,
CORPORATE
INNOVATION**

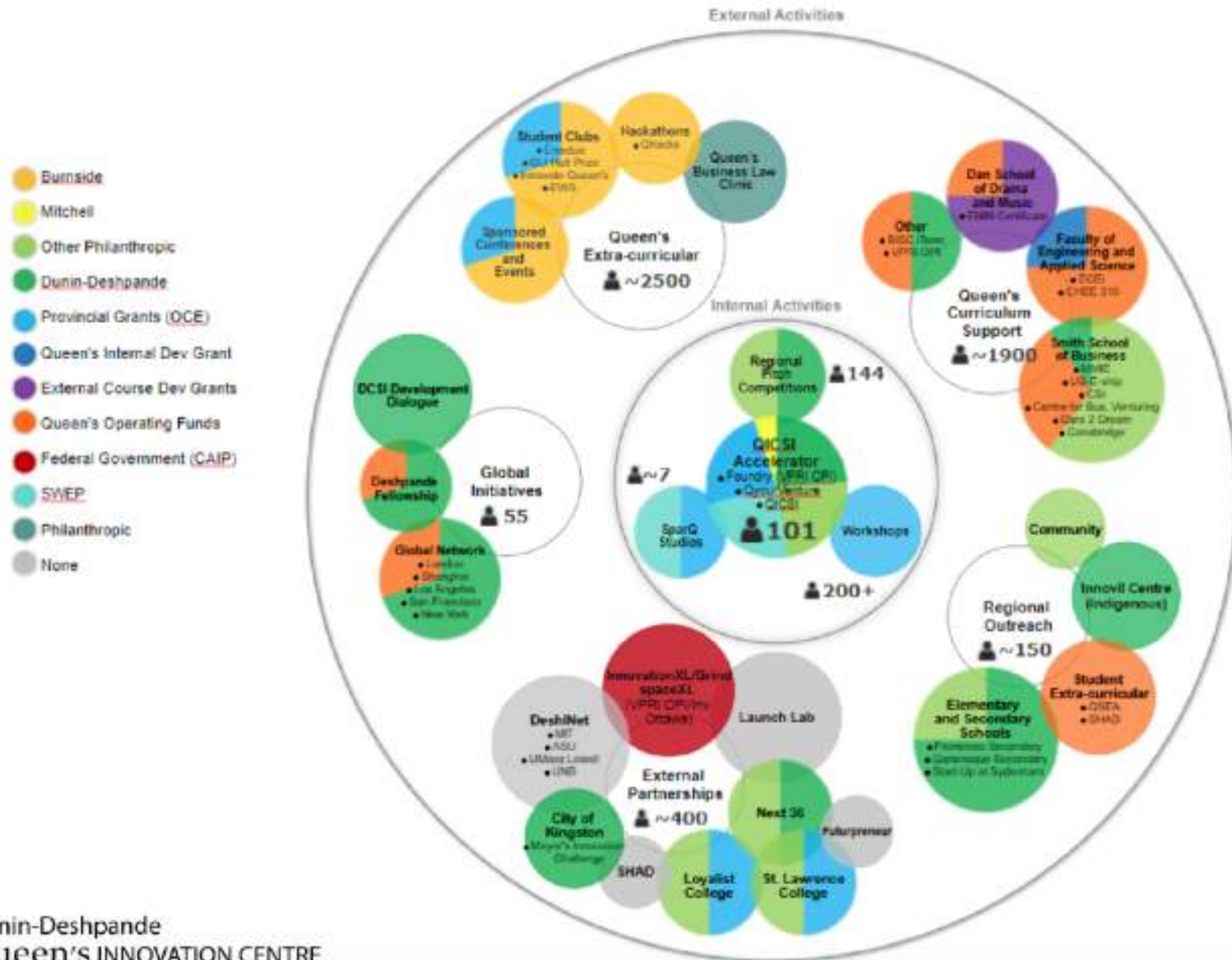


CAPITAL/FUNDING



* Not an exhaustive list of programs or support provided by Queen's

Dunin-Deshpande Queen's Innovation Centre and the Queen's/Kingston Region I&E Ecosystem



Realm of the Possible: Boston Ecosystem Fieldtrips + Cansbridge Fellowships (Palo Alto/SF)





Center for
Social Innovation

Student international experience



Program leaders and faculty international experience



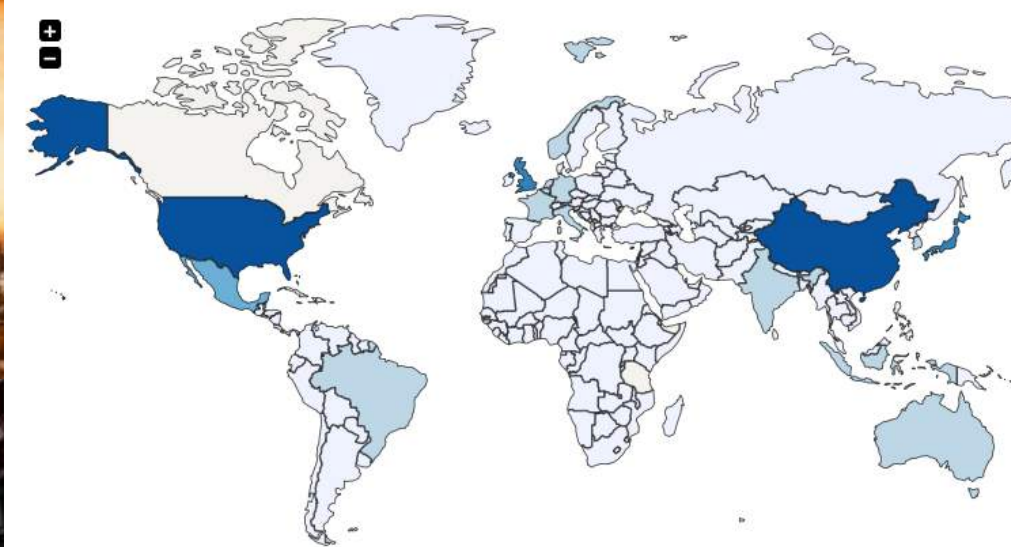


International Innovation Term (i2TRM)





Global Network - innovation hubs

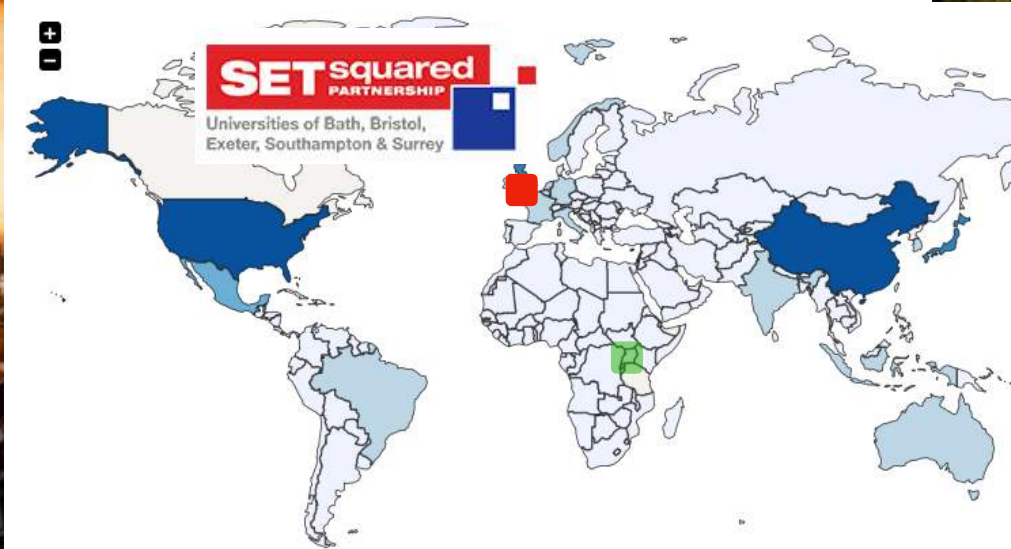


Source: Statistics Canada - International Accounts and Trade Division
Analysis and coding by Roberto Rocha



Dunin-Deshpande
Queen's INNOVATION CENTRE

Global Network - innovation hubs + collaborations



Canada export markets

Avg. annual trade



Source: Statistics Canada - International Accounts and Trade Division
Analysis and coding by Roberto Rocha



MAKERERE UNIVERSITY
We Build for the Future

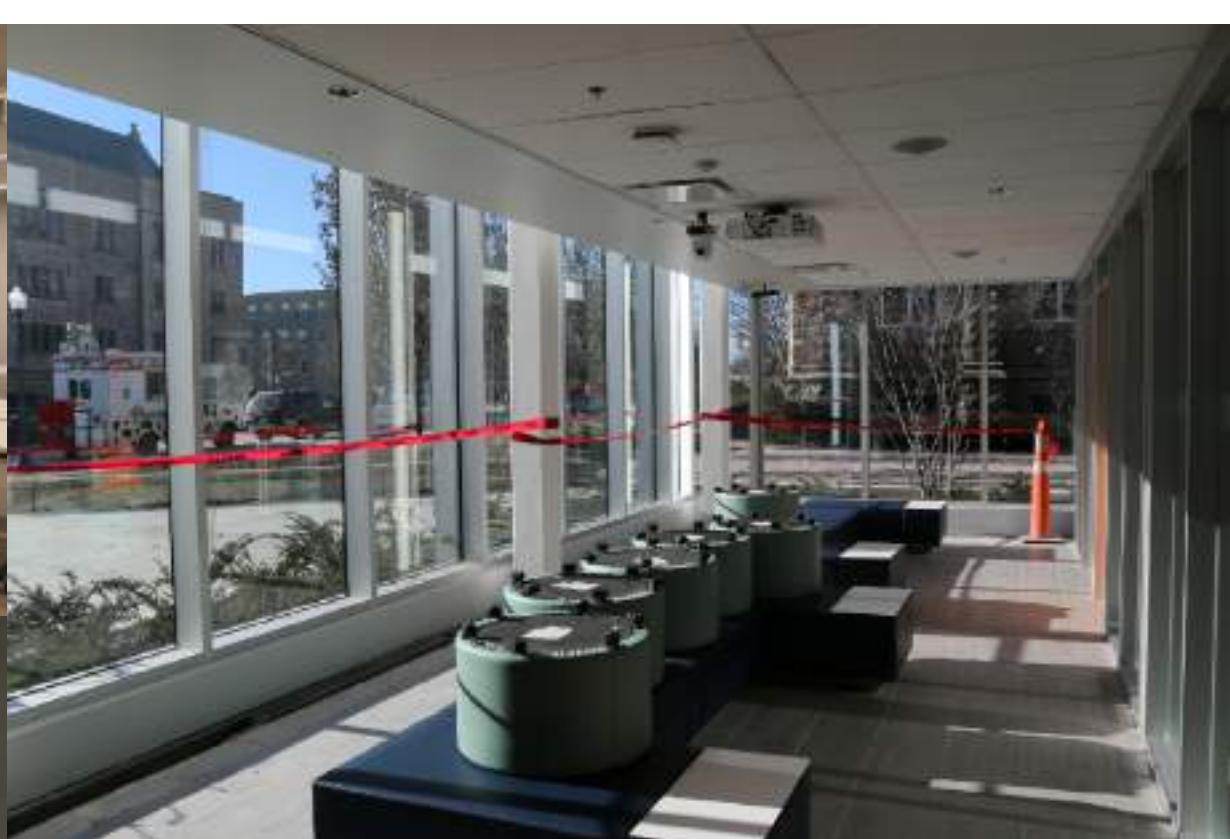


Deshpande
Foundation

Center for
Social Innovation



DESHPANDE
FOUNDATION



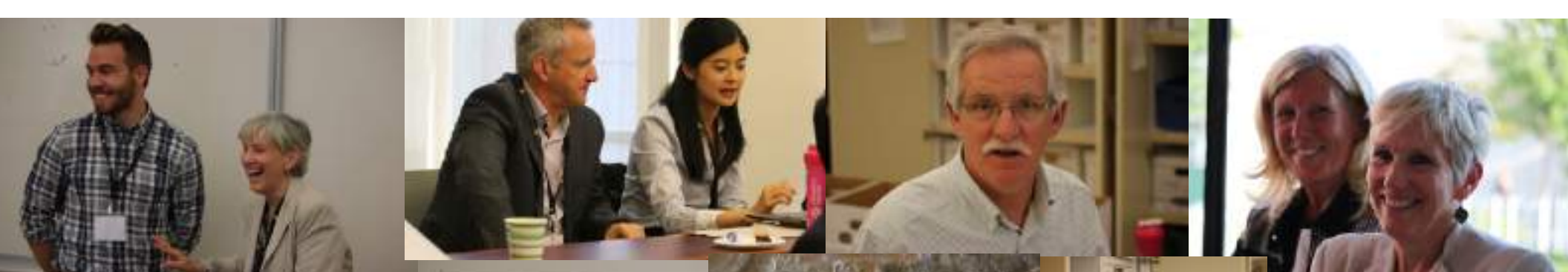


Help on the journey



Deshpande Innovation Network
(DeshINet)





listening is about learning, and it enables
code switching
crafting messages in the user's terms



build trust - increase buy-in
and spot emerging trends

