

Island Prosperity
A Focus for Change
Strategic Update 2010/11



Minister's Message



It has been two years since the implementation of the Island Prosperity Strategy, and Prince Edward Island is already seeing the benefits of our investments in people, innovation and strategic infrastructure.

Over the past year, we have increased our investment in the strategic sectors of bioscience, information technology, renewable energy and aerospace. We have noted strong job growth in aerospace, IT and bioscience through the expansion of our local operations and through companies growing their operations to Prince Edward Island. The Island's renewable energy infrastructure had a strong year with \$3.5 million in profits in 2010.

I am happy to report that construction has begun on the BioCommons Research Park and its multi-user manufacturing facility. Government is committed to providing an environment with state of the art infrastructure and modern technology platforms to support the growth of our strategic sectors, keeping them competitive on the global stage.

Your government is investing for the prosperity of all Islanders, in this generation and the next. With these new investments in innovation, we are supporting the development of new technologies and linking our strategic sectors to our primary industries. But our work is not complete. We have three more years to continue our plan for prosperity on Prince Edward Island. Together, we are one Island community and we will build a strong future.

Honourable Allan Campbell,
Minister, Innovation and Advanced Learning

Executive Summary

Since 2009, the Island Prosperity Strategy has been focused on developing our Strategic Sectors and strengthening the links with our primary industries. As we move forward, it is imperative to maintain strong fiscal management and continue to utilize our peer review process to evaluate projects. It is important that our companies continue to innovate; creating new products and services that can be marketed outside our province. Through new knowledge our economy will continue to expand.

Innovation PEI has now implemented all of the programs outlined within the Island Prosperity Strategy. These programs represent our strategy to invest in People, Innovation and Strategic Infrastructure. To date this marks an investment of over \$7.7 million in support of 111 projects.

Investing in People:

- The Premier's Innovation Speaker Series has assisted in bringing 12 professionals from a range of backgrounds to Prince Edward Island and plans to bring in three more speakers in 2011.
- Innovation PEI has supported two research chairs; Dr. Larry Hammell and Dr. Greg Keefe, located at UPEI and working in the Fisheries and Agriculture sectors respectively.
- The Premier's Medal for Innovation was awarded in 2009 to Dr. Russ Kerr of Nautilus Biosciences and in 2010 to Mr. John Rowe of Island Abbey.
- Through the Innovation PEI Graduate Program, we have supported 21 students at UPEI.
- In 2009, SkillsPEI was launched to implement labour market development programs and training programs. SkillsPEI now has four office and two satellite locations across the province and has supported 4,500 Islanders directly.

Investing in Innovation:

- The Pilot and Discovery fund has supported 40 projects leveraging \$3 million in total project costs.
- The Discovery and Development has supported 21 projects leveraging \$7.4 million in total project costs.
- The Regulatory, Marketing and Management Fund was launched in the summer of 2010 and has supported two projects.
- Innovation PEI continues to support new businesses on Prince Edward Island with competitive tax incentives, including the Innovation and Development Labour Rebate and the Specialized Labour Tax Credit.
- Innovation PEI continues to offer competitive tax rebates through our Bioscience Tax Holiday and Aerospace Tax Rebate.

Investing in Strategic Infrastructure:

- Construction of the BioCommons research park has begun; all underlying infrastructure is complete and a multi-user manufacturing facility is currently under construction.
- The E-Health cluster at Summerside's Holman Building has two tenants and is continuing to expand.
- Our post-secondary facilities are continuing to expand, including the new School of Nursing and the introduction of a Bachelor of Science in Kinesiology at UPEI.
- Government has spent \$975,000 across the Province to modernize our high school IT and science labs, including installation of smart boards in high school classrooms.
- Broadband Internet is now available to virtually every household on Prince Edward Island.
- In conjunction with government, Bell Aliant is constructing a fibre optic network to bring fibre-to-the-home service to 24,000 homes in Charlottetown and Summerside.

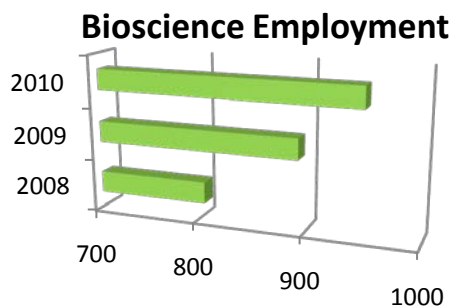
With continued investment in People, Innovation and Strategic Infrastructure, we will enhance the Island economy and continue to work towards our deliverables. We are one Island community, and together, we will build on this Province's resources to create a prosperous economy.

Sector Updates

The Island Prosperity Strategy was built upon evidence that four strategic sectors held strong potential for growth and prosperity within the Province. Two years in, we are moving toward our sector goals:

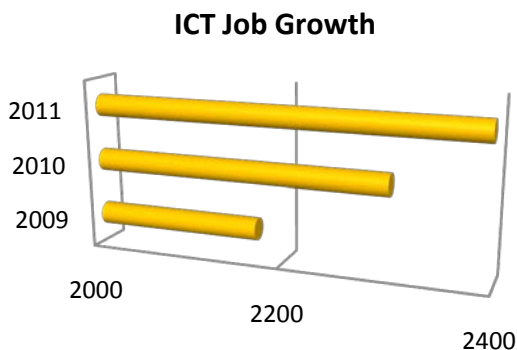
1) Bioscience

This year, UPEI received a Canadian Excellence Research Chair for Aquatic Epidemiology, valued at \$10 million. The private sector is also undergoing growth, Novartis undertook an expansion in the past year and BioVectra is beginning a \$15-\$20 million expansion.. Since the implementation of the Island Prosperity Strategy, the bioscience sector has increased revenues to \$78 million and added 200 full time positions. In 2009, Bioscience made up 2.1% of PEI's GDP.



2) Information Technology

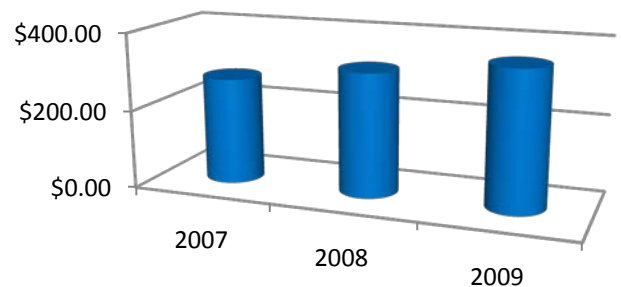
The Information Technology sector in PEI is diverse with companies creating everything from video games to E-health solutions, utility management tools to customized software. The ICT industry boasts over 60 IT and Interactive media companies and an average salary of over \$50,000. The GDP of the ICT industry in PEI totalled \$112 million in 2008, this accounted for 3.0% of the Provincial GDP. During the period between 2004-2009, the number of Canadian IT firms declined 5% while the number of PEI IT firms grew 3%.



3) Aerospace

The Aerospace sector has grown to 10 companies and employs 1,000 people including support services. In the past year, 3 Points Machining and Aerospace has joined the PEI cluster and Tube Fab Ltd. announced that it will be expanding its operations. The aerospace industry now has annual sales of approximately \$355 million. This growth is expected to continue, employing over 1,100 people directly and reaching \$500 million in sales in the next five years. In 2009, Aerospace made up 9.5% of the Province's GDP.

Aerospace Annual Sales (millions)



4) Renewable Energy

Since the inception of the Island Prosperity Strategy, wind energy output in the Province has grown by almost 64 megawatts.

There was a major milestone in renewable energy resource production was reached this year at the PEI Wind-Hydrogen Village in North Cape. Workers were able to produce hydrogen from wind power and subsequently used the hydrogen as a generator fuel to produce electricity.



Pillar 1 - Investing in People

Over the past two years, Innovation PEI has increased its investment in PEI's most valuable natural resource, its people. With four grant programs and the roll out of SkillsPEI and the Population Secretariat, we are continuing to support innovation and provide opportunities for Islanders to learn and grow in our evolving economy. A full list of projects supported under the IPS programs can be found in the appendix.

1) Premier's Innovation Scholarships

Every year, high school students participate in the Shad Valley program to learn about innovation and become leaders in science, technology and entrepreneurship. The Premier's Innovation Scholarship assists students with costs to attend this program at one of 10 universities across Canada. This program has supported 12 students in this four-week enrichment program.

2) Premier's Innovation Speaker Series

The Premier's Innovation Speaker Series allows organizations to bring in a subject matter expert for round-table discussions to promote industry growth. This program has supported nine events and 15 speakers on topics ranging from Intellectual Property to Venture Capital. These speakers are helping our research and business communities establish partnerships off-Island and increase the success of local clusters.

3) Graduate Students and Post-Doctoral Fellowships

Graduate Students are the workhorses of our research labs and are critical to the success of research and development programs. This program offers a student stipend for two and three year terms (the duration of their research project). Innovation PEI has funded two rounds of applicants under this program for a total of 21 students at the Masters, PhD and Post-Doctoral level. These students and fellows are pursuing projects at the University of Prince Edward Island in one of the strategic sectors identified in the Island Prosperity Strategy.

Dr. Catherine Radtke PhD Candidate, Atlantic Veterinary College University of Prince Edward Island

Stem cell research is a rapidly expanding field in both human and veterinary medicine and Dr. Catherine Radtke is leading the way with her research in the area of bone healing.

Equine bone fractures can represent a career-ending, if not life-threatening injury for a racing horse. Due to the poor prognosis for horses which undergo traditional treatments, there is demand by horse owners and veterinarians for new treatment options. Many injuries go unreported as the animal is simply put down following an injury due to the low chance of successful treatment.

"If we can take a small tissue sample from an adult and use it to aid in bone healing, I think it will substantially benefit both veterinary and human medicine."

Before moving to Prince Edward Island, Dr. Radtke obtained her Bachelor's at the University of Wisconsin - River Falls. She then obtained her Doctorate of Veterinary Medicine at the University of Wisconsin - Madison where she was presented with a Large Animal Surgery award for her commitment to large animal health. Dr. Radtke has recently converted her Masters into a PhD and will start a Large Animal Surgical Residency at the Atlantic Veterinary College in July.

"While looking for a surgical residency, I contacted the AVC and was immediately impressed at the high level of scientific research that they conduct. I was inspired to apply to the AVC graduate program and my husband to the veterinary school. Upon our first visit to PEI, and the AVC, we were embraced as a family and felt so welcomed that we were excited to stay. It has been one of the best decisions we ever made for our family and our careers."

Dr. Radtke received a Graduate Student and Post-Doctoral Fellowships award in 2010 to continue her work into the use of postnatal stem cells to promote equine bone healing. The beauty of postnatal stem cells is the fact that they come from a healthy site of the animal that is injured. There is no relation to embryonic stem cells. Stems cells have the ability to differentiate into other cells such as fat, bone and muscle. While bone grafts are the most common treatment option to promote bone healing, limitations of quantity and morbidity issues with harvesting are making this treatment method unviable on a large scale. Therefore, it is beneficial to the veterinary patients to identify other sources of graft substitutes, such as stem cells.



4) Premier's Medal for Innovation

It is important to recognize local innovators who are driving the growth of our strategic sectors. Two recipients have been given this award since the inception of the Island Prosperity Strategy. In 2009, the medal was awarded to Dr. Russ Kerr of Nautilus Biosciences Canada. Dr. Kerr boasts one of the largest research groups on UPEI's campus and is continuing to pursue his research into desmethyleleutherobin, a naturally-derived marine product which shows promise as a cancer therapeutic.

The 2010 award was presented to John Rowe of Island Abbey Foods. The award recognizes his work to develop an innovative technology to dehydrate honey. John is continuing to research novel applications for this technology, including its use as a natural product for drug delivery. He has already made significant progress into this aspect with the introduction of the Honey Lozenge.

5) Innovation PEI Industry Research Chairs

In order to grow our knowledge-based industries, the Province needs to encourage research collaborations with private sector enterprises. The Industry Research Chair program is designed to meet this need by supporting the activities of a highly qualified individual and their research team. Innovation PEI has supported the activities of two chairs under this program.

Dr. Larry Hammell leads the research efforts of the AVC Centre for Aquatic Health Sciences Centre. During his term as Research Chair, Dr. Hammell has recruited a Canadian Excellence Research Chair, Dr. Ian Gardner, in Aquatic Epidemiology and established an International Collaborative Centre for Aquatic Epidemiology and Risk Assessment. Dr. Hammell's research group is conducting treatment and resistance monitoring of sea lice, a parasite that can be extremely damaging to the salmon farming industry.

Dr. Greg Keefe is the Director and Principal Investigator with Maritime Quality Milk, a research and service centre at the Atlantic Veterinary College. Dr. Keefe has developed an on-farm milk based diagnostic test to detect the presence of Mastitis pathogens and led the development of the Atlantic Johne's Disease Initiative. Johne's disease is a production limiting disease, it negatively impacts milk production and has been associated with Crohn's disease in humans.



6) SkillsPEI Initiative

SkillsPEI was launched on October 5, 2009 with the mandate to deliver skills and training development programs funded by the Canada-PEI Labour Market Development Agreement, Labour Market Agreement, Strategic Training and Transition Fund and other Provincial programs. SkillsPEI has four offices and two satellite locations in Souris, Montague, Charlottetown, Summerside, Wellington, and O'Leary.



Programs administered by SkillsPEI are aligned to meet the economic and labour market development priorities of the province. This will enable the government to coordinate the demand for a skilled workforce with innovative opportunities for all Islanders. To date, more than 4,500 Islanders have received direct support to enhance their education and skills. In order to meet future labour demands, SkillsPEI has invested in various programs to support the growth of our traditional industries as well as our innovative sectors, resulting in an increase in our skilled labour force.

Blair Smith
Co-owner,
50/50 Central Ltd.



50/50 Central is a business venture started by George Roberts and Blair Smith. The company received a Pilot Fund grant to increase efficiency and expand their business. The 50/50 system is a wireless ticketing system for 50/50 draws at sporting events.

As each sale is made, the system displays a running total on an electronic display board at the sporting venue. Sellers use hand-held devices to accept cash, credit and debit payments. The winning number can be selected electronically or using a drum draw system.

With the support of the Pilot Fund, 50/50 was able to meet the market forces and regulatory requirements demanded by the marketplace. The system now includes a scientifically approved and certified random number generator, barrel printing and back office interface.

50/50 is located in Summerside and has nine full-time employees and with the support of the Innovation and Development Labour Rebate, the company plans to add an addition four people within the next year.

"As everyone knows there are struggles in starting new projects, the least of which being able to market your product and staff your operation out of cash flow. The PEI Pilot fund has enabled us through financial assistance, to develop and implement a strategy to assist with these hurdles. We will continue to utilize the assistance available to small business through Innovation PEI."

To date, the 50/50 system is in place at over 37 sporting venues including the Calgary Flames, Boston Bruins and the PEI Rocket. Over the past year, the company has grown from under \$200,000 in sales to over \$1 million. 50/50 is one of many entrepreneurial success stories in the Province and holds great potential for continued growth.

One of the new initiatives unveiled by SkillsPEI this year was the Community Internship Program. This program focused on stemming the out-migration of youth by providing internships with community partners and meaningful work experience related to their post secondary training. This initiative was unveiled in March of 2010 and has assisted 138 graduates.

7) Population Secretariat

In 2008, the Population Secretariat was given the mandate to increase population growth and recruitment of skilled professionals. The Secretariat released the PEI Settlement Strategy in December 2010. This strategy outlines the Government's commitment to better serve and integrate newcomers to the Province. The Secretariat is currently working on an online employment tool. This comprehensive resource will provide the necessary information for retraining opportunities for Islanders, settlement services for newcomers and a profile of recent developments for expatriates.

8) Youth IT Programs and IT Bootcamps

In November 2006, Innovation PEI launched the Game Force Designer's Bootcamp as a means of introducing junior high school students to the process of video game development. Since its inception, the Game Force program has offered one-week sessions to junior high schools all over the Island. In the 2009/2010 school year, the Game Force program offered 16 after-school sessions delivered to 136 students across Prince Edward Island. In 2010, the two week Game Force 3D pilot program was delivered in Kensington, Charlottetown and Summerside. As a result of its success, the two-week 3D after-school program has been incorporated into the 2010/11 school year to be offered in conjunction with the one-week 2D program.



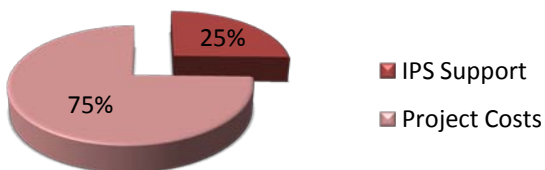
Pillar 2 - Investing in Innovation

A prosperous Prince Edward Island must foster innovation and creativity. Funding for early stage research is challenging to acquire and the private sector is hesitant to invest in projects until they are near the commercialization stage. To address this gap, Innovation PEI has launched a series of programs to support the discovery and development stages of the product cycle. A full list of projects supported under the IPS programs can be found in the appendix.

1) Pilot and Discovery Fund

The Innovation PEI Pilot and Discovery Fund is designed to support early stage proof-of-concept projects that will lead to the development of new products, services or processes in the strategic sectors. Applicants must demonstrate the ability to meet project timelines, budget, milestones and display a high level of innovation within project activities. The Pilot and Discovery Fund provides grants to cover eligible operating expenses associated with testing an innovation-based idea. Innovation PEI has supported a total of 40 projects in the Province, in areas from solenoid repair to mussel health management.

P&D and D&D Project Costs Leveraged



2) Discovery and Development Fund

The Discovery and Development Fund supports Island-based businesses and researchers who have moved beyond the prototype and pilot stage, have tested and developed a product and wish to move toward manufacturing or commercial scale production. It is the intent of Innovation PEI to support projects that will be commercialized in the near term. To date, Innovation PEI has supported 21 innovative projects from companies such as Cavendish Farms, Diversified Metal Engineering and Halibut PEI.

Dr. Tarek Saleh Professor and Chair, Biomedical Sciences, AVC CSO, Atlantic Centre for Bioactive Valuation

Dr. Tarek Saleh moved to Prince Edward Island from Calgary in 1996 and became an Assistant Professor with the Department of Biomedical Sciences. Since that time, Dr. Saleh has been granted tenure with the Atlantic Veterinary College, became Chair of the Biomedical Sciences Department and has supervised 10 graduate students and three post-doctoral fellows.



Dr. Saleh specializes in neuroscience, more specifically, evaluating natural products for their potential use as a neuroprotective against diseases such as stroke, Alzheimer's disease and spinal cord injury.

Dr. Saleh has received funding from Innovation PEI's Pilot and Discovery Fund. Together with a partnership involving Dr. Bobby Khan, CEO of Carmel Biosciences, the proponents are studying a new chemical entity created from two nutraceuticals. This chemical has been shown to decrease brain cell death following the onset of a stroke.

Dr. Saleh is also the Chief Scientific Officer of the Atlantic Centre for Bioactive Valuation. This federally and provincially supported centre now employs 13 high qualified personnel and has generated over \$450,000 in revenue since its inception.

"As the Chief Scientific Officer of ACBV, I will attest to the fact that none of this success could have been possible without the help and support from the province's business development and Innovation PEI funding. These provincial programs provided the key funding upfront that allowed ACBV to "hit the ground running", as this leveraged funds from other federal funding programs."

The Atlantic Centre for Bioactive Valuation is a contract research organization with clients in the pharmaceutical industry. ACBV commercializes novel models to allow pharmaceutical companies to test their potential drug developments. ACBV received funding under Innovation PEI's Regulatory, Marketing and Management program to assist in the spin-out of a non-profit company in 2011.

**Patrick O'Neil
Bluefin Consultant,
PEI Fishermen's Association**



The abundance of Atlantic Bluefin tuna has been severely reduced since the advent of industrial fishing. A recreational catch-and-release fishery is currently being developed to target Bluefin tuna off the coast of Prince Edward Island. To evaluate the sustainability of this fishery, it is necessary to quantify post-release mortality for use in management models.

The PEI Fishermen's Association was granted funding under the Discovery and Development fund to assess the feasibility of a live release fishery for Bluefin tuna. This development could bring badly-needed new revenue to PEI tuna fishers.

"The fish pictured above was caught in the commercial fishery season on Oct. 1 and 2, 2010 a bears a tag attached in the Bluefin catch-and-release trial fishery conducted by the PEI Fishermen's Association. The returned tag helps to verify that the fish return to normal feeding behavior after catch and release. Returned tags also provide an extra volume of data since the tag can store more data than can be transmitted via satellite"

Atlantic Bluefin tuna are highly migratory marine pelagic fishes that can grow to a mass in excess of 650 kg. In order to establish a catch-and-release fishery, the PEIFA needed to determine the impact on the stock of Bluefin.

"The 20 fishers who caught and angled the fish for the taggers were randomly selected in a draw organized by the P.E.I. Fishermen's Association. The association did not pre-qualify the draw entrants. This random selection from among the commercial fishers of P.E.I. verifies that these fishers using their traditional rod-and-reel catching methods can conduct a catch-and-release fishery that does not impact the viability of the Bluefin stock"

Tuna were caught using standard methods including kite, chumming and trolling. The fishermen tagged the tuna at the side of the boat so the fish would not be removed from the water. These tags were programmed to release from the tuna after pre-defined time intervals and transmitted their data through the ARGOS satellite system.

Based on the results of this study, the PEIFA determined the post-release mortality rate of Bluefin tuna captured and released. Two of the 59 Bluefin tuna died after catch-and-release yielding a mortality rate of 3.4%

3) Prototype Fund

The Prototype Fund was implemented as a Memorandum of Understanding between Innovation PEI and NRC-IRAP (National Research Council-Industrial Research Assistance Program). The MOU agreement acts as bridge funding for Island-based projects. These projects have passed all due diligence requirements and are approved for funding but had been delayed due to budgetary issues with the IRAP program. Through our support, eight projects from seven different companies were undertaken over the past two years.

4) Regulatory, Marketing and Management Fund

Innovation based companies ready to bring a product to market need access to expertise to effectively promote their product(s) and brand, manage commercial activities, and meet regulatory requirements. The level of investment required for product development and lack of targeted funding programs, can leave a company with few resources to finance the cost of these activities. Innovation PEI issued the first call for applications in July 2010. To date, the Province has supported two companies.

5) Tax Incentives & Labour Rebates

Innovation PEI continues to offers strong tax rebates and credits for our local companies and expansions to PEI. The Innovation and Development Labour Rebate applies to projects that support the development and/or commercialization of new products, services or processes. The Specialized Labour Tax Credit is intended to help kick-start new business growth by providing an incentive for workers with specialized expertise or skills to accept employment on Prince Edward Island.

The Aerospace Tax Rebate and the Bioscience Tax Holiday were implemented by Innovation PEI to allow our companies to remain globally competitive and promote PEI as a strong, competitive location to do business.

In 2011, Tax Incentives and Labour Rebates of roughly \$14 million were provided to companies in strategic sectors.

Pillar 3 – Investing in Strategic Infrastructure

Providing high tech, state-of-the-art strategic infrastructure makes our province an attractive place to establish a business or conduct research. When moving to a knowledge-based economy, we have to ensure that our public facilities continue to grow and give Islanders the tools for a successful future.

1) The PEI BioCommons Research Park

The PEI BioCommons Research Park represents the major piece of strategic infrastructure outlined in the Island Prosperity Strategy. Innovation PEI has acquired the Upton Farm Property and dedicated 65 acres to the BioCommons Research Park. The construction of all underlying infrastructure (water and sewer) has been completed and a multi-user manufacturing facility is currently under construction. Additional facilities are scheduled to begin construction during the summer of 2011. Innovation PEI has recruited two tenants for the multi-user facility; Island Abbey Foods and TetragenX Agro.

2) The Summerside E-Health Centre of Excellence

The Holman Centre is a well-established landmark in the heart of Summerside. The 100,000 square foot building has been renovated to provide a state-of-the-art environment to house our evolving e-health industry with office spaces ranging from 1000 – 30,000 square feet. Summerside is now home to three companies specializing in e-health solutions, two of which are located at the Holman Centre:

- Radnet Inc. builds internal software tools and applications exclusively for diagnostic imaging.
- RMDDx Corporation is a medical device company using wireless monitoring technology for remote medical data collection.
- Enable Healthcare Inc. has developed a web-based Electronic Health Records product.

3) Accelerated Rural Broadband Strategy

In December of 2009, the Province and Bell Aliant announced the completion of an Island-wide broadband network that delivers high-speed internet to virtually all areas of the Island. Access to broadband internet is enabling business growth in rural areas of PEI.

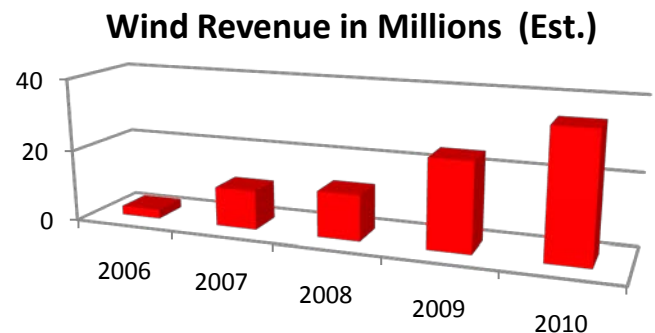
For example Virtual Agent, an international leader in the contact centre industry, has expanded to Bedeque and Bloomfield, adding 100 new positions over the past two years. Innovation PEI and Bell Aliant launched the Rural Broadband Fund a five year commitment to support information technology projects that impact rural economic development. To date, this program has supported six projects for a total commitment of \$331,000.

4) Primary Education Modernization of Research Laboratories

The Department of Innovation and Advanced Learning and the Department of Education and Early Childhood Development are co-contributing to modernize our Island high school science lab and IT facilities. To date \$975,000 has been committed to this initiative, supporting the purchase and installation of smart boards in all senior high schools across PEI, motion and force sensors for physics labs, and physiological sensors, related software and accessories for the life sciences.

5) Renewable Energy Infrastructure

Renewable energy infrastructure will provide our Province more energy self-sufficiency and make our Island a major energy exporter. Drawing on the inherent strength of our wind regimes, while capturing the benefits for Islanders, is a key part of this strategy. Since the inception of the Island Prosperity Strategy, PEI has increased its energy output by over 50 per cent, for a total of 164 MW. Wind power provides almost 20 per cent of our energy needs. Wind power also provides Maritime Electric with reasonably priced electricity. During the last power outage, the company was able to use 30 MW of power from the East Point Wind Farm to restore electricity, rather than relying on more expensive power from its oil-fired generating plant.



IPS Project Distribution

Program	Priority Sector						Total Input (\$)	Estimated FTE's	Total Project Cost (\$)
	<i>Fisheries</i>	<i>Agriculture</i>	<i>Bioscience</i>	<i>Renewable</i>	<i>IT</i>	<i>Aerospace</i>			
Pilot Fund (R1)		2	9	3	5	1	493,482	22	925,000
Pilot Fund (R2)	2		5	1	5		324,598	16	2,056,301
Pilot and Discovery (R3)	1	2	4				175,000	8	1,239,186
Grad/ Post-Doc (R1)	1	2	7				620,000	10	620,000
Grad/Post Doc (R2)	3		7		1		640,000	11	640,000
Industry Research Chairs	1	1					1,942,000	4	3,884,000
Premier's Medal (R1)			1				400,000	3	400,000
Premier's Medal (R2)			1				400,000	4	842,500
Discovery & Development (R1)	1	1	6	2	1		1,034,760	14	2,700,000
Discovery & Development (R2)	1	1	6	1	1		936,960	12	4,751,066
Speaker Series (R1)		1	3		1		24,995	N/A	47,570
Speaker Series (R2)			3	1			18,282	N/A	32,552
Prototype Fund (R1)			3	1	3		159,670	7	1,274,717
Prototype (R2)					1		200,000	7	955,732
Regulatory, Marketing and Management			2				\$36,500	N/A	\$96,080
Rural Broadband Fund (R1)					1		50,000	1	78,000
Rural Broadband Fund (R2)					5		281,562	5	629,246
Total	10	10	57	9	24	1	\$7,737,809	117	\$21,371,868

IPS Programs Supported Projects

Premier's Medal for Innovation

John Rowe, President of Island Abbey Foods Ltd.:

Pure dried honey form factors as a release agent for natural therapeutic and active pharmaceutical ingredients.

Innovation PEI Pilot and Discovery Fund

Atlantic Veterinary College: Innovative diagnostic tool for mussel health management.

iWave Information Systems Inc.: An industry-specific relational philanthropic database for online service delivery.

Malpeque Bay Area Developments Inc.: Enhancements and improvements to the 50/50 software system.

Moving Ideas Group Inc.: Smart phone medical tracking system.

NRC-Institute for Nutrisciences and Health: Characterization of the bioCEPTA formulation for its immunomodulatory and antifungal activity against Trichophyton species.

NRC-Institute for Nutrisciences and Health: Early stage development of novel acetylcholinesterase (AChE) inhibitor lead compounds from a PEI-grown plant.

NRC-Institute for Nutrisciences and Health: Evaluation of tunicate extracts/fractions for their ability to modulate allergy/asthma, wound-healing and obesity-related disorders.

Prince Edward Aqua Farms Inc.: Shell fish waste: its transformation into an organic soil amendment.

PEI Organic Fruit and Berries Ltd.: High value berry purees and oil products.

Shared Solution Inc.: NetLegal Index

Telos International Inc.: Empirically validated prototype rating system for determining and communicating the cognitive benefits of video games.

University of Prince Edward Island: New design for advanced battery technology.

University of Prince Edward Island: Accelerated cancer drug discovery from marine microbes.

University of Prince Edward Island: Biodegradable drug delivery systems: The tunable release of bioactives.

NRC-Institute for Nutrisciences and Health: Development of a cell-based bioassay for testing the inhibition of cholesterol absorption.

PEI Bag Company: Developing an automatic bagging solution.

University of Prince Edward Island: development of molecular assays for early detection of high risk tunicate propagules in environmental water samples.

ViTrak Systems Inc.: Gait analysis sensor floor development & demonstration project.

International Genetics PEI Ltd.: On-farm rapid diagnostic test for PRRS virus in swine.

University of Prince Edward Island: Combining nutraceuticals to magnify clinical benefit in humans and animals.

Innovation PEI Discovery and Development Fund

Eco-blaze Corporation: Eco-blaze straw burner.

PEI Fishermen's Association: Assessment of post-release mortality in an Atlantic Bluefin tuna catch-and-release sport fishery in the Gulf of St. Lawrence.

Chemaphor Inc.: Use of 13-carbon to determine bio-availability of OxB

Cavendish Farms: Nutritious potato alternative.

Diversified Metal Engineering: Development, commercialization and proprietary protection of a fully automated beer brewing system.

Marine Exhaust Solutions Inc.: Ecosilencer SO2 exhaust cleaning system for commercial marine vessels; design, enhancement and performance optimization.

University of Prince Edward Island: Development of a marine natural products bank from Canadian Arctic Waters.

University of Prince Edward Island: Development of a high-throughput diagnostic assay for simultaneous detection of salmonid viruses using fluidic bead-based molecular assay technology.

Lisi Atlantic Development Inc.: Completion of proof-of-concept for an MRI-based cancer bio-diagnostic tool.

Solarvest PEI Inc.: To genetically modify hydrogen producing algal strains to co-produce recombinant proteins.

Graduate Student and Post-Doctoral Fellowship

Michael Ciarmella: Detection of biochemical markers for the assessment of quality and the nutritional status of the American Lobster.

Edward Cross: New catalysts for the stereocontrolled synthesis of tunable drug discovery systems.

Jessica Willis: Molecular diagnostics of protozoal parasites: keeping our oysters' premium.

Gayan Tennekone: Recruited by Drs Shaver & Wagner, the students will develop a drug delivery system that will indicate the end of a treatment cycle through fluorescence.

Michelle Patterson: Evaluation of optoacoustic imaging as a monitoring tool for prostate cancer therapy.

Dr. Priyanka Pundir: Evaluation of the anti-allergic and anti-inflammatory properties of oat extracts on human skin cells.

Dr. Catherine Radtke: An in-vitro comparison of the stem cell harvested from equine muscle, fat, periosteum, and bone marrow for use in clinical therapy.

K. Fraser Clark: Development of molecular tools to assess health, immunity and quality in commercial crustacean species.

Dr. Dante Mateo: Novel diagnostic tool for detection of selected salmonid viruses using fluidic bead-based molecular assay technology.

Dr. Jie Cheng: Tele-health system based on wireless sensor networks which automatically monitors patient vital signs and reports to nurses and doctors if an issue arises.

Recruitment: Dr. McClure & Dr. Riley have been granted conditional funding to recruit a post-doctoral fellow who will assess immunity and antibody production using biomedical technology.

Premier's Innovation Speaker Series

Centre for Health and Biotech Management Research: Biotech savvy students – an industry perspective.

Three Oaks Innovations Inc.: Addressing the commercialization gap – the Centre for Drug Research and Development.

Three Oaks Innovations Inc.: Academia to business & Emerging biotechnology clusters – characteristics and requirements.

City of Charlottetown: Sustainable City Speaker Series: Investing in our Future.

Rural Broadband Fund

Thinking Big Information Technology Inc.: Electronic reporting for tracking and traceability enablement of local lobster fishery.

Gorman Controls Ltd: Micro Vent Vision server and client-side software development and input/output circuit board development.

Discovery Garden: Telling Island stories, an Islandora community portal.

Holland College: Holland College Telepresent – remote classroom: enabling rural Islander's through distance education.

SiteValet: Helping PEI's tourism industry one small business website at a time.

PEI Monitoring Inc.: Security monitoring centre.

Regulatory, Marketing and Management Fund

Zengo Inc.: Early stage commercialization of the Rupture S.E.A.L. device.

Three Oaks Innovations Inc.: Delivering commercial value through the creation and launch of the Atlantic Centre for Bioactive Valuation Inc.