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TPC

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TPC Boosts Knowledge-based New Economy in Ontario

In just three years, Technology Partnerships Canada (TPC) has become a major player in the Ontario knowledge-based sector, supporting 41 projects with more than $315 million in total investments.

The federal government's primary tool for developing new technologies, TPC was established in 1996 to prepare Canada for the 21st century. Its mandate is to nurture growth in the two areas that will soon become prime determinants of a country's economic health — innovation and research and development (R&D).

To date, TPC's Ontario investments will create or maintain 7837 jobs. Equally important, these investments have leveraged a further $1.67 billion in spending commitments on innovation.



With investments in projects such as **Pasteur Merieux Connaught Canada's** research on therapeutic cancer vaccines, the dividends could go far beyond the economic sphere. Pasteur Merieux Connaught Canada has the worldwide mandate to develop vaccines that could save lives or improve the quality of life for cancer patients.

Similar wide benefits would result from **GFI Control Systems Inc.'s** project, only this time on the environmental front. GFI's work is leading to the "greening" of the car engine. The project will improve compressed natural gas and propane fuel injection systems — and in the process make great strides in the global battle against greenhouse gases.

Also of environmental significance is **Iogen Corporation's** ethanol fuel project. Iogen is perfecting an intricate process that produces ethanol

Canada

using biomass — straw, grasses, corn cobs and stocks. By using these materials, the ethanol-production process becomes more cost-efficient, making the clean-burning fuel more attractive to car owners. If more cars used ethanol, the world's production of greenhouse gases would be greatly reduced.

TPC is also involved in projects at the forefront of information technology's (IT's) expanding universe. **MOSAID Technologies Inc.** is developing three ground-breaking IT products. MOSAID's new products will play a contributing role in the fast developing e-commerce sector.

E-commerce is getting another TPC-supported boost with *Net.Commerce*, currently being developed at an **IBM Canada** laboratory in Toronto. The TPC investment was also an important factor in IBM's decision to build a state-of-the-art research facility in Markham.

And **Research in Motion Limited** (RIM) has developed an innovative two-way interactive pager that provides fingertip access to E-mail, the Internet and other electronic information. Weighing only 5 oz., the pager holds a 386 processor.

For more information on TPC, visit our Website:
http://tpc.ic.gc.ca

Aerospace Firms Tackle Environmental Challenges

Technology Partnerships Canada's aerospace investments are having an immediate impact — in more ways than one.

Some of them not only are building an important part of our economy, but also are preserving and protecting our environment.

While this may not be the first thing that comes to mind when you think of TPC's aerospace investments, it *does* underscore the innovative nature of this vital industry.

Three recent investments are good examples of just how effectively Canada is supporting sustainable development and meeting the challenges of climate change.

A $4 425 300 investment in AlliedSignal Canada Incorporated is helping develop ways to curb the overuse of environmentally hazardous anti-icing and de-icing fluids on airplanes. The project is also expected to create some 218 jobs for Canadians.

TPC also invested $3 397 239 in a Pratt & Whitney Canada project to greatly reduce nitrogen oxide emissions. The ST18 is an industrial gas turbine engine derived from the PW100 series of aviation turboprop power plants. This new, cleaner power plant will be used for the generation of power in remote areas or for flood control, gas and oil pumping, and gas compression.

Another TPC investment — $1 167 000 — with Orenda Aerospace Corporation, will help develop a power generation system that can be operated entirely on biomass-derived liquid pyrolysis fuels.

TPC and the World Trade Organization

On August 2, 1999, an Appellate Body of the World Trade Organization (WTO) announced that it had upheld an earlier ruling that determined Technology Partnerships Canada's support for regional aircraft was inconsistent with WTO rules.

TPC as a program was not challenged. Rather the dispute focussed on how TPC was administered in support of the Canadian regional aircraft industry.

"I am confident that Technology Partnerships Canada can be adjusted to be consistent with the clarification of WTO rules," said Industry Canada's John Manley. "TPC will continue to play an important role in the government's research and development strategy."

Minister Manley also noted that Canada benefits from and has always strongly supported an effective rules-based multilateral trading system, and it will remain a critical factor for all nations as we move toward a global knowledge-based economy.

The federal government is consulting with stakeholders on options for implementing the WTO decision.

The Appellate Body decision was adopted by the WTO on August 20, 1999. Canada has 90 days from that date to implement the ruling.