



SUSTAINABLE DEVELOPMENT
TECHNOLOGY CANADA™

Partnering for real results.

Cleantech Funding Seminar

Okanagan Science & Technology Council

May 11, 2009

Mission



**“The Foundation will act as the primary catalyst
in building a sustainable development technology infrastructure
in Canada.”**



SDTC operates two funds:



SD Tech Fund™

SUSTAINABLE DEVELOPMENT
TECHNOLOGY CANADA

\$550 million SD Tech Fund™ was launched on April 4, 2002.



NextGen Biofuels Fund™

SUSTAINABLE DEVELOPMENT
TECHNOLOGY CANADA

\$500 million NextGen Biofuels Fund™ was launched on September 12, 2007.

The funds are complementary and address different gaps in the Innovation Chain

Clean Technology or “cleantech” – Definition



Clean technologies are innovative products or services that simultaneously reduce financial and environmental costs while driving better performance.

- 1. Economy:** Improved operational performance, productivity or efficiency; reduced input costs.
- 2. Environment:** Reduced energy consumption, waste or pollution.
- 3. Society:** Improved quality of air, water and land.

Clean technologies are one of the primary drivers behind the emerging carbon market.

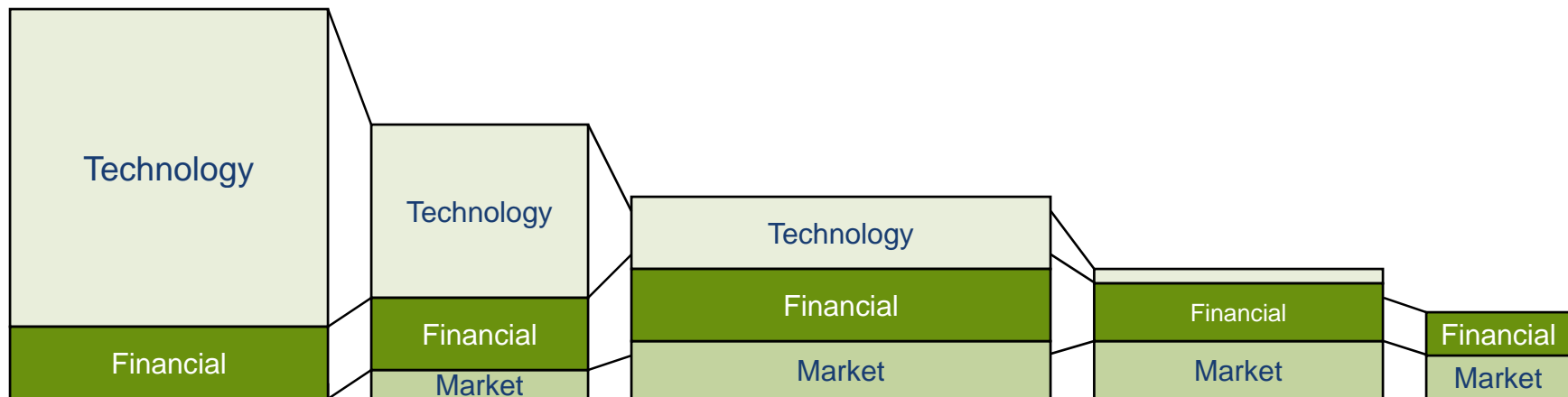
Innovation Chain



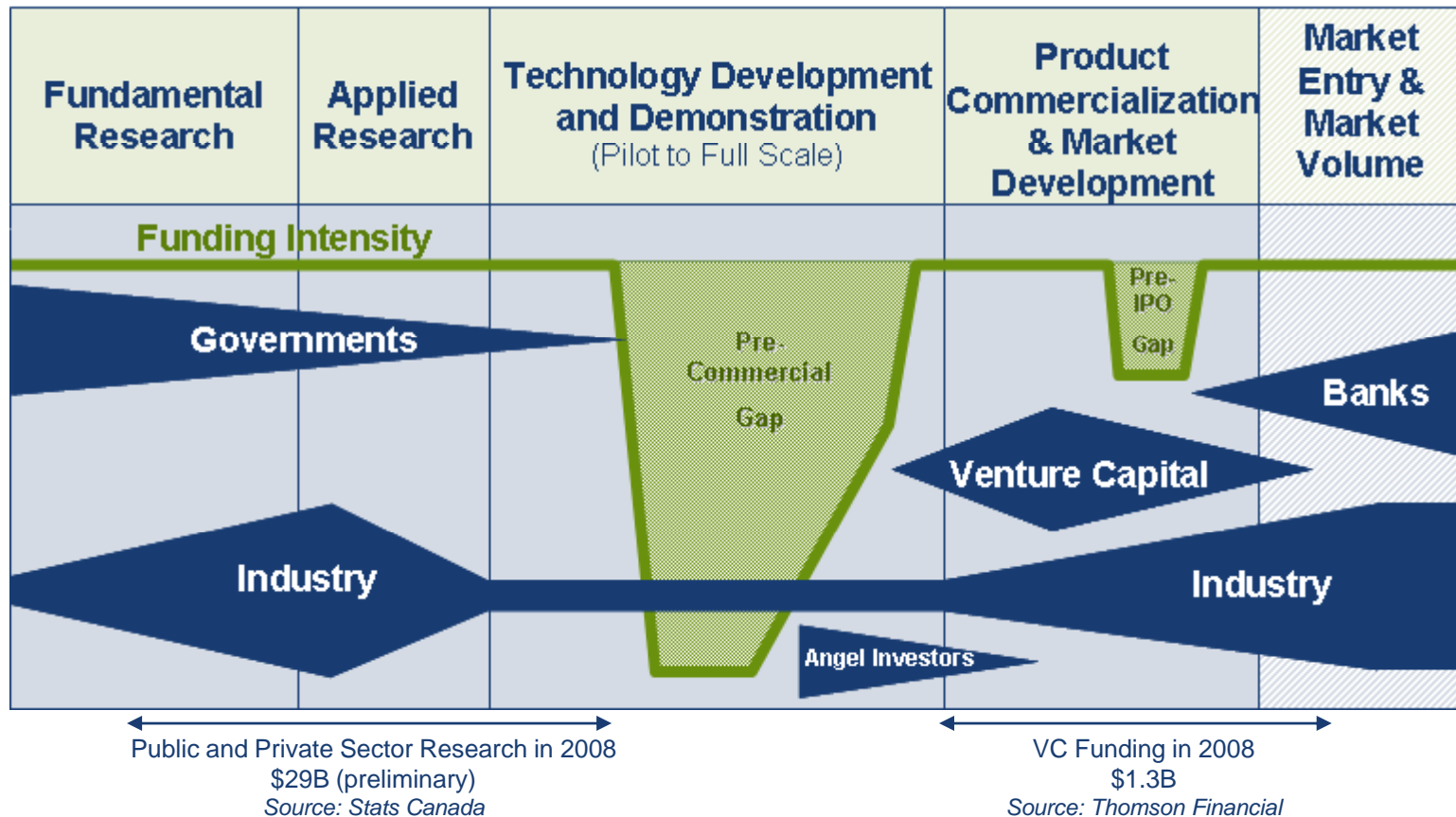
Stages of Technology Development



Risk Profile

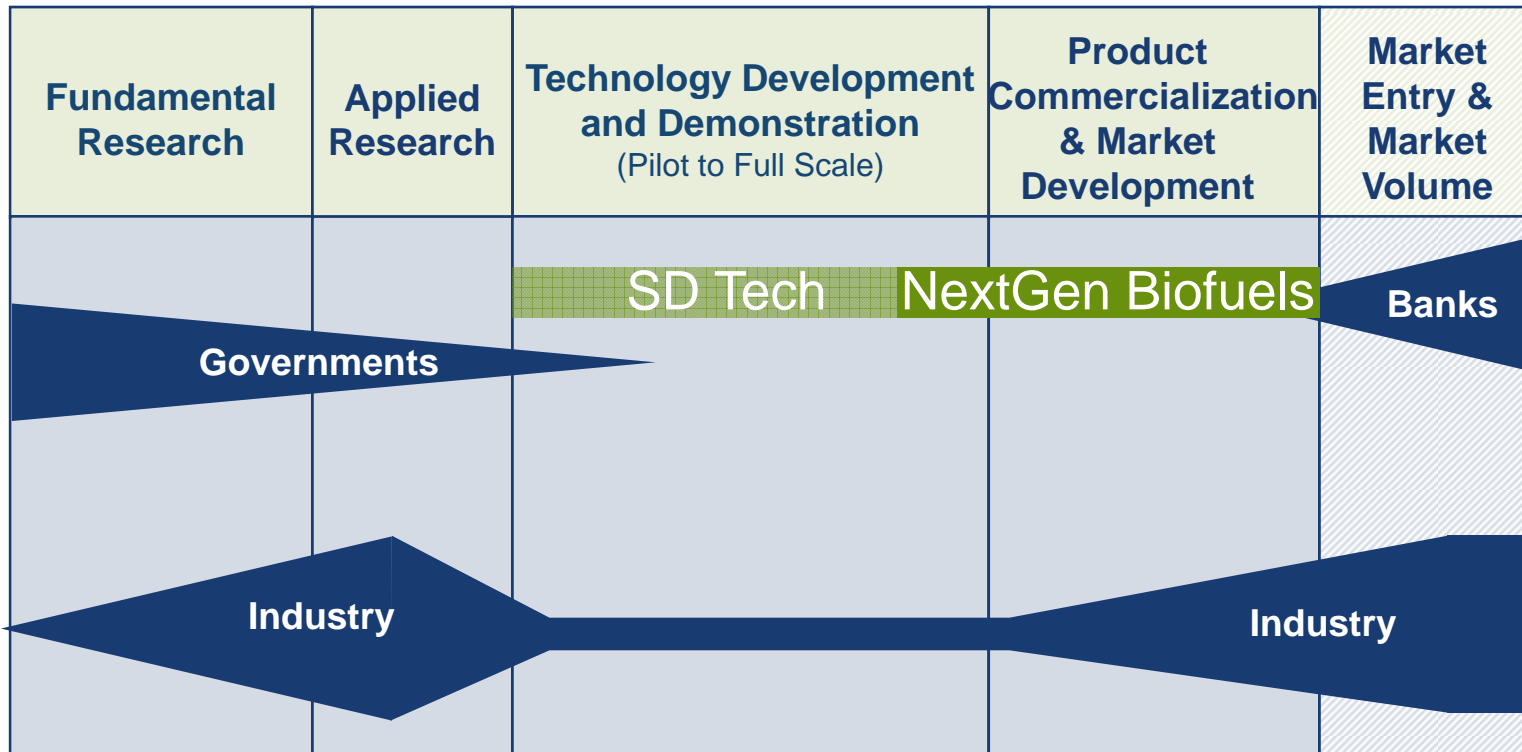


Sources of Funding and Funding Gaps



Lack of funding for technology development and demonstration creates a Pre-Commercial Gap in the Innovation Chain

SDTCs Funds



The NextGen Biofuels Fund is positioned to complement the SD Tech Fund and address the High CAPEX Gap

SD Tech Fund Objectives



- Increase the pool of available sustainable development technologies
- Fast track technologies to market - SDTC fosters the development and demonstration of technological solutions that address:
 - Clean Air;
 - Climate Change;
 - Clean Water;
 - Clean Land.
- Build private sector partnerships / leverage funding
- Reduce development, market, operational and financial risk
- Build critical mass of sustainable development technology developers

BC Portfolio – 36 Projects in 7 Key Sectors



Sector	Lead Consortia Partner	SDTC Investment \$	Total Eligible Costs \$
Energy Exploration and Production	Lignol Innovations Corp.	\$6,240,816	\$18,741,189
	Power Diagnostic Technologies Ltd.	\$1,716,000	\$5,142,401
	Sacré-Davey Innovations Inc.	\$5,879,000	\$17,832,999
Power Generation	Angstrom Power Inc.	\$444,436	\$1,263,271
	Clean Current Power Systems Inc. (2004-B)	\$1,582,000	\$4,795,500
	Clean Current Power Systems Inc. (2007-B)	\$5,099,325	\$15,452,500
	General Fusion Inc.	\$13,897,455	\$42,113,500
	MSR Innovations Inc.	\$381,601	\$1,144,803
	Nexterra Energy Corp. (2008-A)	\$3,983,739	\$12,071,936
	NxtPhase T&D Corp.	\$986,220	\$3,226,542
	SyncWave Systems Inc.	\$2,698,443	\$7,895,330
	Tantalus Systems Corp.	\$2,981,310	\$10,102,523
	West-Lorne Bio-Oil Cogeneration Ltd. Partnership	\$5,000,000	\$12,215,947
	Xantrex Technology Inc.	\$4,445,362	\$13,470,792
Waste Management	Ostara Nutrient Recovery Technologies Inc.	\$375,760	\$1,744,611
	Paradigm Environmental Technologies Inc.	\$250,000	\$1,208,804
	Sonic Environmental Solutions Inc.	\$774,104	\$2,322,313

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BC Portfolio – 36 Projects in 7 Key Sectors (continued)



Sector	Lead Consortia Partner	SDTC Investment \$	Total Eligible Costs \$
Energy Utilization	Carmanah Technologies Inc.	\$466,167	\$2,035,062
	dPoint Technologies Inc.	\$ 1,572,219	\$4,764,300
	EcoSmart Foundation Inc.	\$1,866,630	\$3,828,862
	Fuseforward International Inc.	\$400,000	\$1,523,921
	IBC Technologies Inc.	\$266,000	\$960,000
	Nutri-Loc Ingredients Corp.	\$450,851	\$1,736,772
	Power Measurements Ltd.	\$2,500,000	\$7,558,820
	Radiant Technologies	\$1,000,000	\$5,500,000
	SunCentral Inc.	\$2,100,000	\$6,465,000
	University of British Columbia	\$2,408,702	\$7,299,098
Transportation	Advanced Lithium Power Inc.	\$1,400,000	\$4,374,109
	Plug Power Canada Inc.	\$2,000,000	\$9,026,000
	M.A. Turbo/Engine Ltd.	\$152,844	\$332,604
	NxtGen Emission Controls Inc.	\$2,516,882	\$8,461,685
	Railpower Technologies Corp.	\$584,078	\$1,634,600
	Westport Innovations Inc.	\$1,000,000	\$3,115,376
Forestry, Wood Products and Pulp & Paper Products	Alterna Energy Inc.	\$1,254,317	\$8,257,633
	Nexterra Energy Corp. (2005-A)	\$2,758,263	\$8,357,575
Agriculture	Middle Bay Sustainable Aquaculture Institute	\$2,386,080	\$7,554,313
Total BC Portfolio		84\$ M	264\$ M

SD Tech Fund – Funding Allocation Process



Has two phases for applicants and four decision gates

- Phase I – Statement of Interest (SOI) – not too onerous, it is informative and sufficient to assess
- Phase II – Proposals by Invitation – equivalent to a business plan
- Gate I – SDTC review
- Gate II – technical and business experts
- Gate III – Investment Committee + Project Review Committee
- Gate IV – Board Approval

Screening Criteria

- Technical, Market, Business and Environment

Statements of Interest due (Twice / Year) :

- Feb 25 – Apr 22 / Sep 02 – Oct 21

Sustainable Development...



“Living on nature’s income rather than its capital.”

*** Murray Gell-Mann, Nobel Prize-winning physicist**





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