









- Industrial sites : owned and operated by private companies, mining, petroleum, metal transformation, manufacturing, etc.
- Institutional sites : owned and operated by government departments, e.g. DND, Transports, municipalities, school boards.
- <u>Federal sites</u>: former sites for different use (military, mining, radar, etc.)
 returned to the government as a legacy of the past
- <u>Orphan sites:</u> different kinds of operations returned to the government (municipal, provincial, federal) (no tax payment, bankrupcy,etc.)
- Brownfields: located in a municipality, infrastructures and services, contaminated or suspected to be contaminater, owner may not be the polluter or went bankrupt



























Benefits for the fee	deral gov of Brown	ernment fields	– devel	opmer	
	Assumed activity levels of brownfield redevelopment clust				
	\$50 m	\$100 m	\$150 m	\$200 m	
Federal personal income tax	\$4.55 m	\$9.1 m	\$13.7 m	\$18.2 m	
Federal indirect taxes (e.g. GST, gas tax)	\$1.05 m	\$2.09 m	\$3.14 m	\$4.18 m	
Employer and employee contributions to CPP	\$3.07 m	\$6.14 m	\$9.12 m	\$12.3 m	
Employer and employee contributions to EI	\$2.14 m	\$4.28 m	\$6.43 m	\$8.57 m	
Other transfers from persons to government	\$0.005 m	\$0.009 m	\$0.014 m	\$0.018 n	
Total impact on federal revenues	\$10.8 m	\$21.6 m	\$32.4 m	\$43.2 m	

Indicators – Key sectors of economic activity in Canada							
Brownfield redevelopment cluster	3.8						
Government	3.1						
Construction	3.0						
Transportation and warehousing	3.0						
Forestry and logging	2.9						
Manufacturing	2.8						
Education services	2.7						
Information and cultural industries	2.7						
Mining and oil and gas extraction	2.5						
Health care and social assistance	2.4						
Finance, insurance and real estate	2.2						
Utilities	1.9						
(Source, NRTEE, 2003)	Institut de recherche en biotechnologie						



	CERTIFIC INTEGENT INTEGENT ar strukturtur da Manatali in konsektisten et kalaktisten et etter in konsektiste bedektistene				
Montréal					
•	Revi-sols Program, 1998-2005				
	 Restoration/redevelopment of brownfields 				
	 cover 50% of remediation costs, plus 20% if use of treatment technologies 				
	 Contributions: \$114 M, \$75 M for Montréal 				
	 Total, 192 projects, 131 in Montréal 				
	 2,057,995 sq.m. restored land in Montréal 				
	 ROI estimated over 10 to1 after development, job creation, new housing, municipal taxes, etc. 				
	Source: M.Beaulieu, Ministère du développement durable, de l'environnement et des parcs du Québec				

























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environment industry, government and site owners

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MCEBR - Partnership for Brownfields and Contaminated Sites Remediation



• 1997 MCEBR corporation created

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- three levels of government involved with private sector
- environmental technologies risk evaluation
- interactions with site owners-regulatorsconsultants to understand the issues and solutions

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CERRS Create Providence de Masseal es tiblidizates de etiss	Parellingue Milliophine						
Fractions Metal speciation – Bio-availability							
А	В	С	D+E				
Cupper: 0 %	12 %	27 %	61 %				
Lead : 0 %	22 %	39 %	39 %				
Zinc : 0 %	16 %	47 %	37 %				
Bioav	Bioavailable		Not				
		Bioavailable	Bioavailable				
	<u>lii</u>	miting factor !					
INSPEC-SOL Inc.							
			Institut de recherche en biotechnologi				



























Reuse of a Great Site since 2003

Lachine Canal

South-West Montreal

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