

Brownfields 101 Workshop

Tools and Resources: What Works for Brownfields –Technical Perspective

Canadian Brownfields Network Conference

October 22, 2008





Overview

- Setting the Stage: NRTEE
Recommendations of Technical Nature
- Closure Certificates and the Brownfields
Project Life Cycle
- Responses to the need for Site Specific
Approvals
- Advances in Capacity Building and
Innovative Technologies
- Moving Forward..the next five years

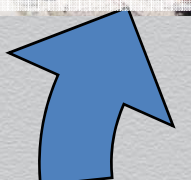
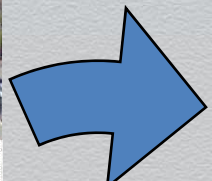


Review of NRTEE Recommendations

How have we progressed in implementing the following recommendations of a technical nature?

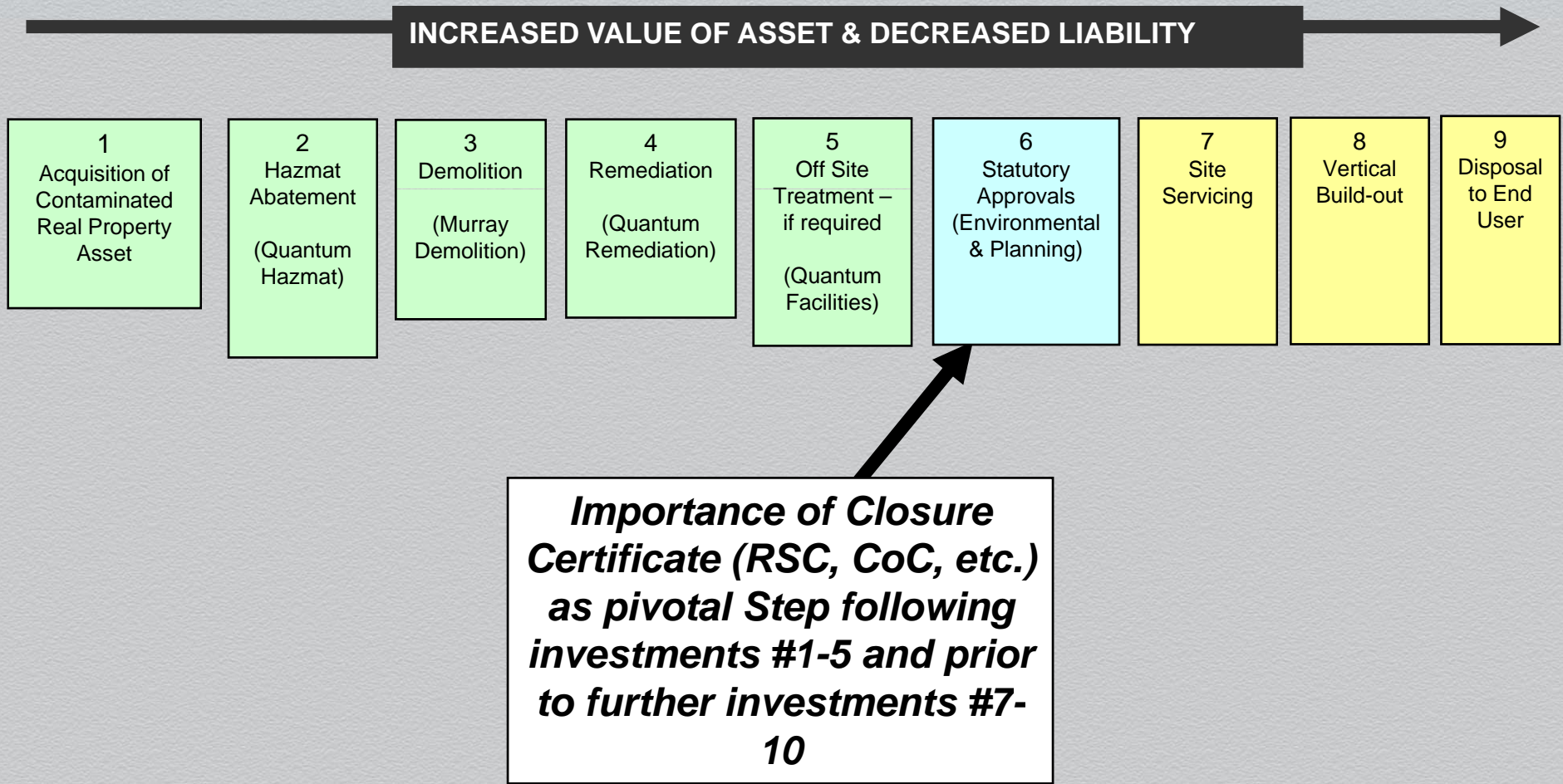
- 2.2 and 2.6 related to *Closure Certificates*
- 2.5 related to *Site-Specific Approvals*
- 3.1 related to *Training and Capacity Building*
- 3.2 related to *Innovative Technologies*

Context – The Brownfields Project Life-cycle





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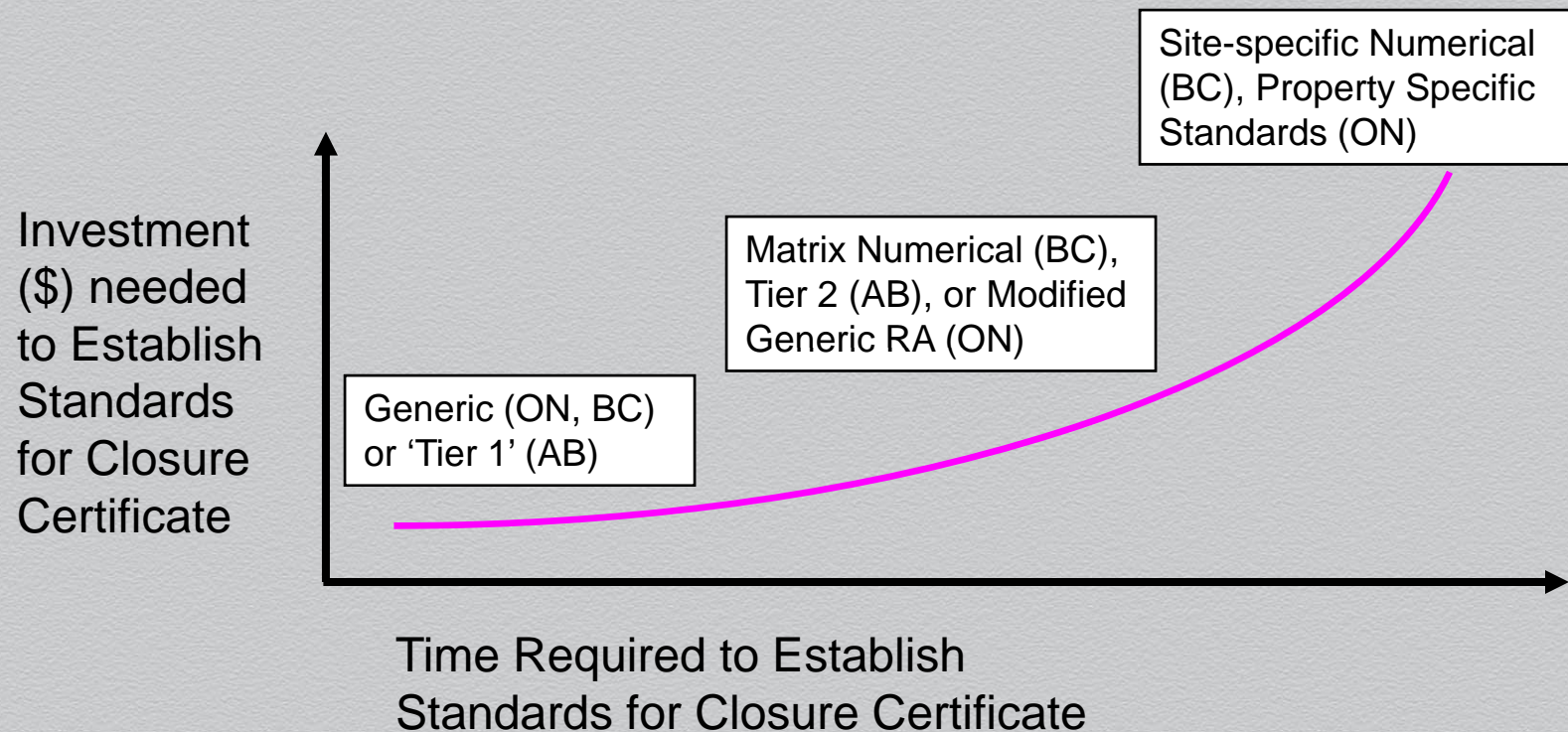
Jurisdictional Progress on Closure Certificates

- Jurisdictions that have closure process *and* provide for regulatory liability protection:
 - ✓ British Columbia's Certificate of Compliance (2004)
 - ✓ Ontario's Record of Site Condition (2005)
 - ✓ Alberta's Remediation Certificate (coming in 2009)
 - ✓ Manitoba (1996) affords protection to *municipalities* that take responsibility of sites through a failed tax sale process



Jurisdictional Progress on Site-Specific Approvals Regime

- All standards are based on exposure scenarios and jurisdictions have created a “spectrum of site-specificity”
- Standards adopted depends on Owner’s investment and schedule tolerance:





Advances in Capacity Building

Capacity Building:

- FCM has developed webinars and guidance documents
- Canadian Real Estate Association published information for realtors on brownfields (2008)
- Industry Canada and PWGSC have delivered regional workshops on innovative technologies
- OCETA and partners developed the *Brownfield Knowledge Workshop* (2006) and the *Brownfield Redevelopment Toolbox* (2004) and *Ontario Service Station Redevelopment Framework* (2008)
- BC has developed a number of technical guidance documents and established the Land Remediation Office to increase capacity
- Ontario created the Brownfields Coordinator Office to help the province and municipalities in capacity building
- Atlantic PIRI has developed a number of guidance documents and on-line training for Atlantic RBCA



Advances in the Enabling of Innovative Technologies

Demonstration of Innovative Technologies:

- Industry Canada and PWGSC have delivered regional workshops on innovative technologies in 2007-08
- Various funding stimuli to promote innovative remediation methods:
 - ✓ SDTC funds demonstration of new soil technologies
 - ✓ Quebec's Revi-Sol (1998-2006) provided additional funding to encourage treatment over landfill disposal
- MCEBR provides facilities for industry to develop innovative remediation expertise



The Way Forward – The Next 5 Years

- Challenges to overcome:
 - How will the regulatory processes and technical tools enable the revitalization of the 30,000 brownfields in Canada?
 - How will the regulatory processes enable the use of cost effective, innovative technologies?



Making the right choices for site-specific and appropriate design

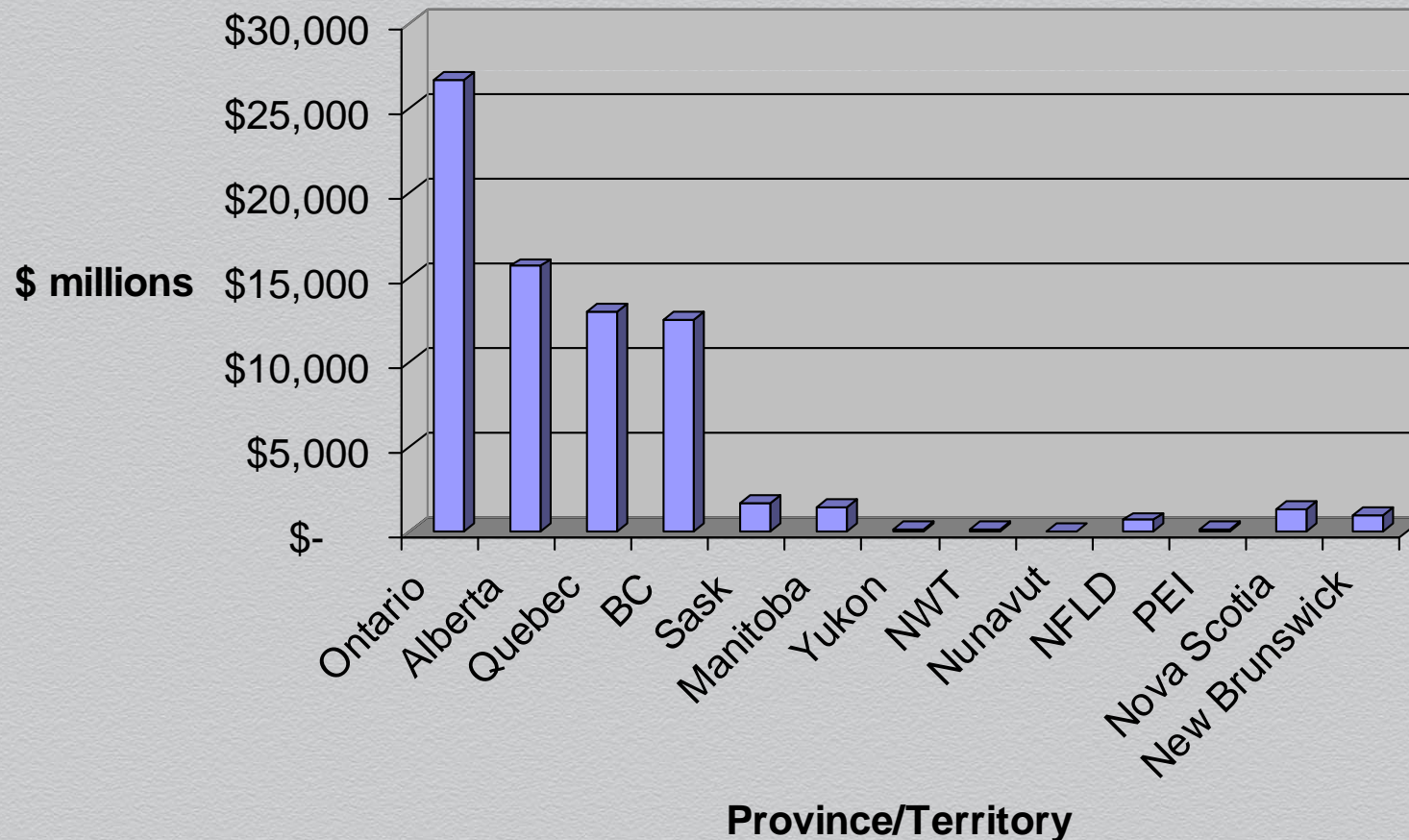
Evolution of the Building Code...





Is the Regulatory Process realistic given the Market Demand?

Value of Building Permits issued in various Provinces and Territories in 2007 (\$)





Options to respond to these challenges over the next 5 years

- Develop, and standardize between jurisdictions, a simplified process that can be efficiently applied at the site-specific level (AB Tier 2? ON Modified Generic RA?)
- Create a more efficient SSRA and C of A process that relies upon professionals for acceptance of standards or application of innovative remediation technology within guaranteed timeframe (<90d)



Thank-you

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