

# *Brownfields 101 Workshop*

## **Tools and Resources: What Works for Brownfields –Technical Perspective**

Canadian Brownfields Network Conference

October 22, 2008





- 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

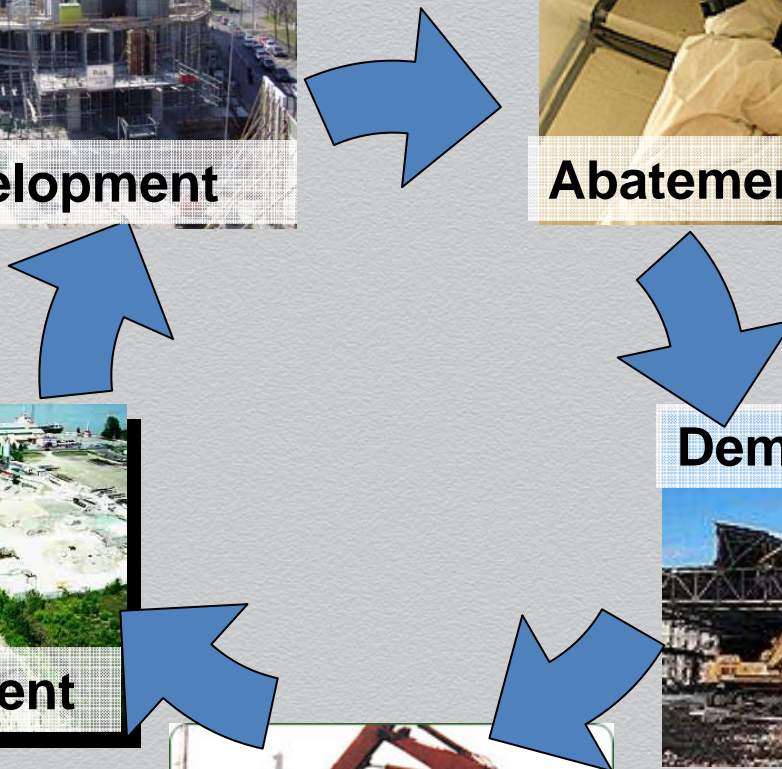


## Review of NRTEE Recommendations

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

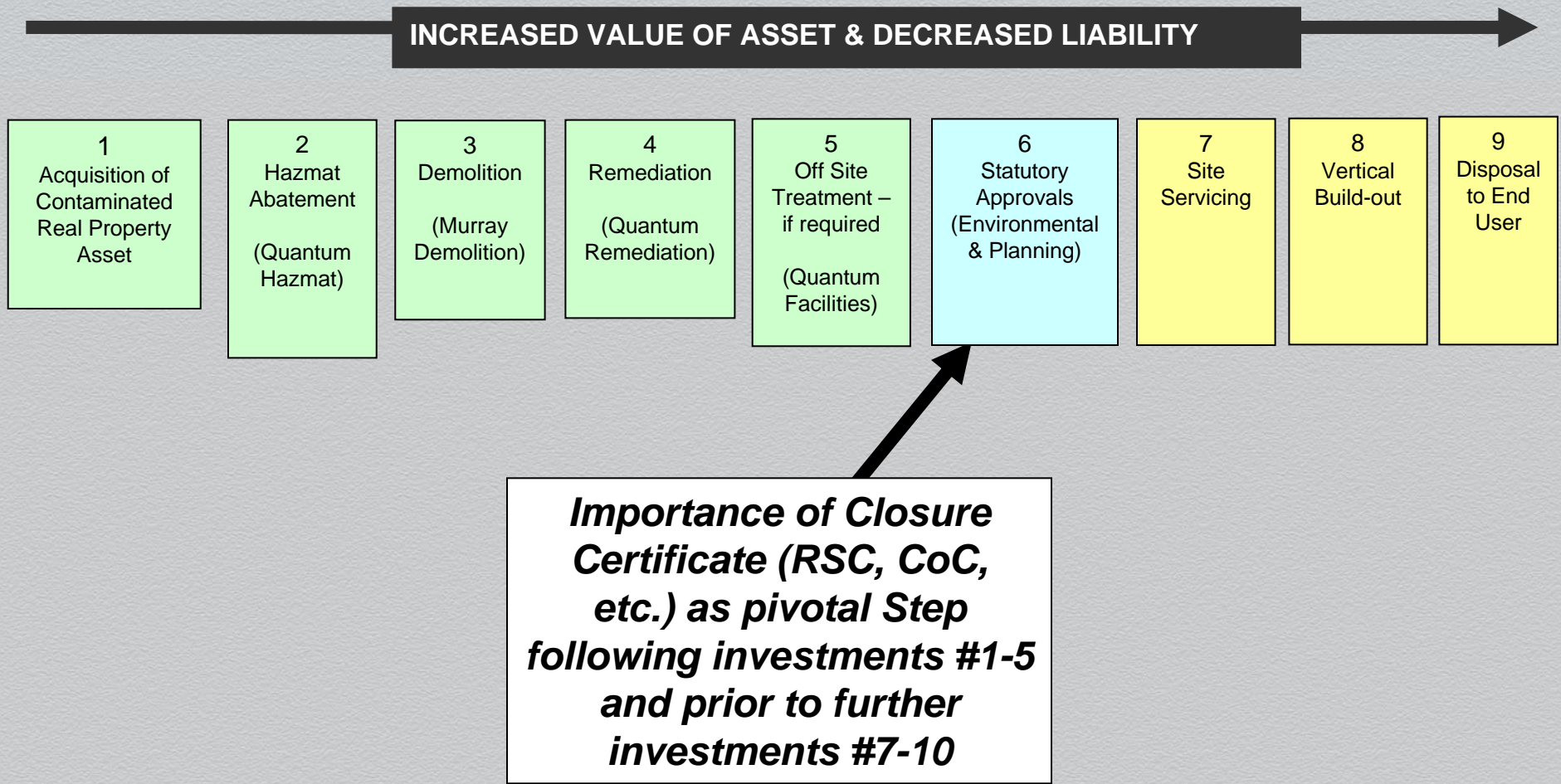
- 2.2 and 2.6 related to *Closure Certificates*
- 2.5 related to *Site-Specific Approvals*
- 3.1 related to *Training and Capacity Building*
- 3.2 related to *Innovative Technologies*

# Context – The Brownfields Project Life-cycle





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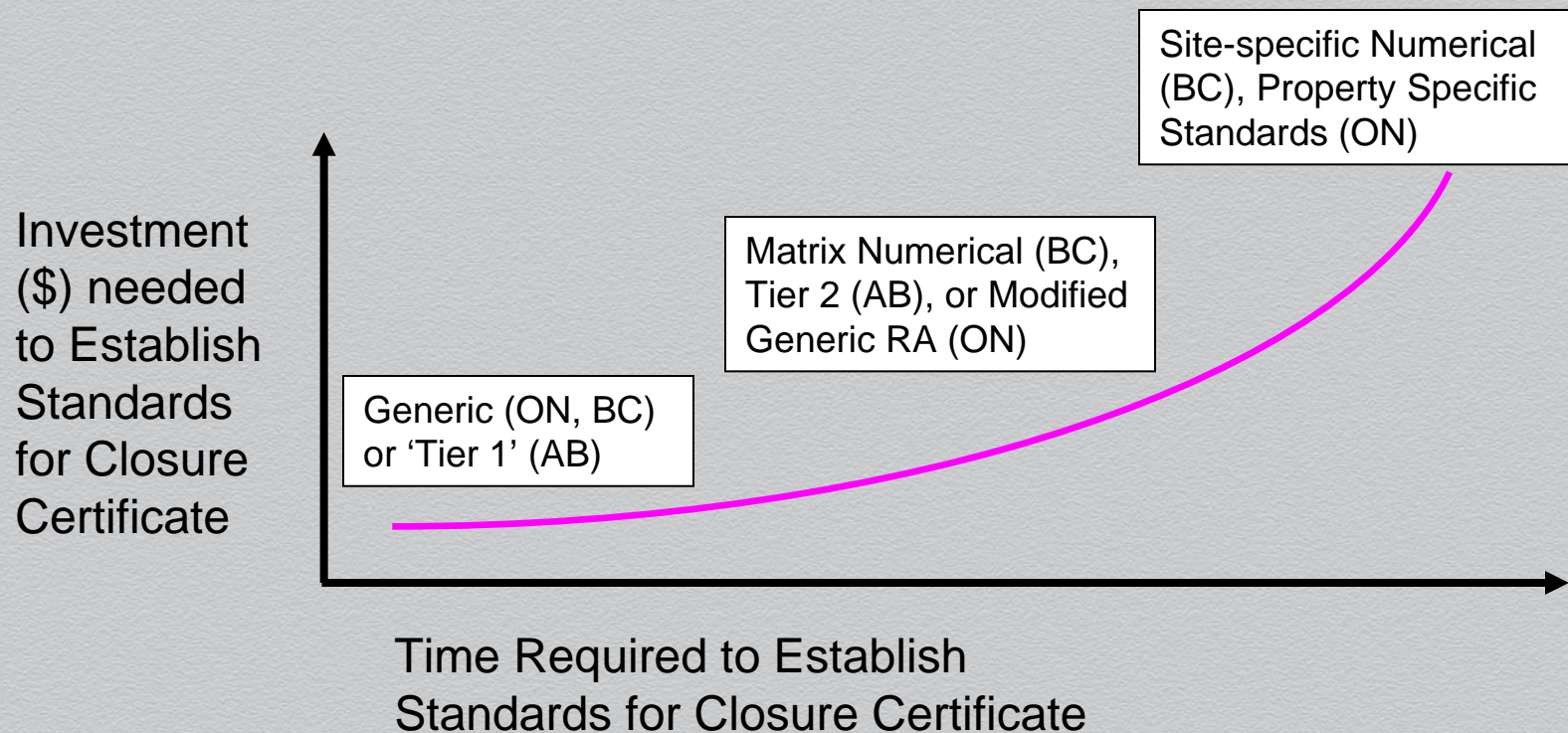
## Jurisdictional Progress on Closure Certificates

- 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

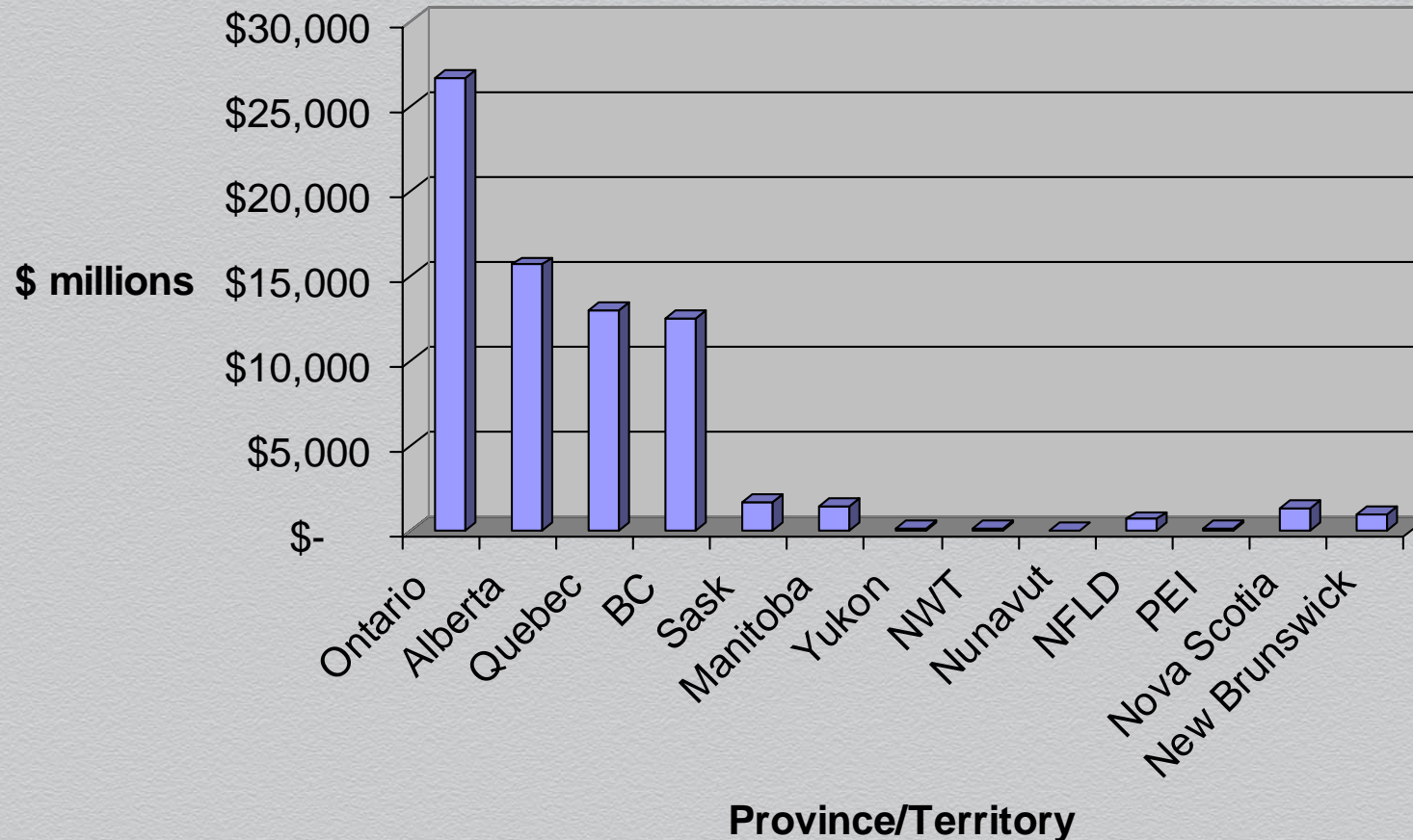
Evolution of the Building Code...





# 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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