

AN OVERVIEW OF

**Montreal Center
of Excellence
in Brownfields Rehabilitation**

FACILITIES AND SERVICES



CENRS
Centre d'excellence de Montréal
en réhabilitation de sites

MCEBR
Montréal Centre of Excellence
in Brownfields Rehabilitation

MCEBR

- ❖ **Mission**
 - ❖ **Board of directors / staff**
 - ❖ **Technical committee & expertise**
 - ❖ **Strategic partners & activities**
 - ❖ **Demonstration projects**
 - ❖ **Why MCEBR?**
-



❖ Mission :

- To stimulate and support technology innovation in soil and groundwater decontamination & remediation
- To countenance Brownfield industry in promoting and developing expertise in these fields
- Being a platform where major landowners struggling with particularly complex contamination problems, their consultants, technology developers and research centers, meet to find pertinent and innovative solutions

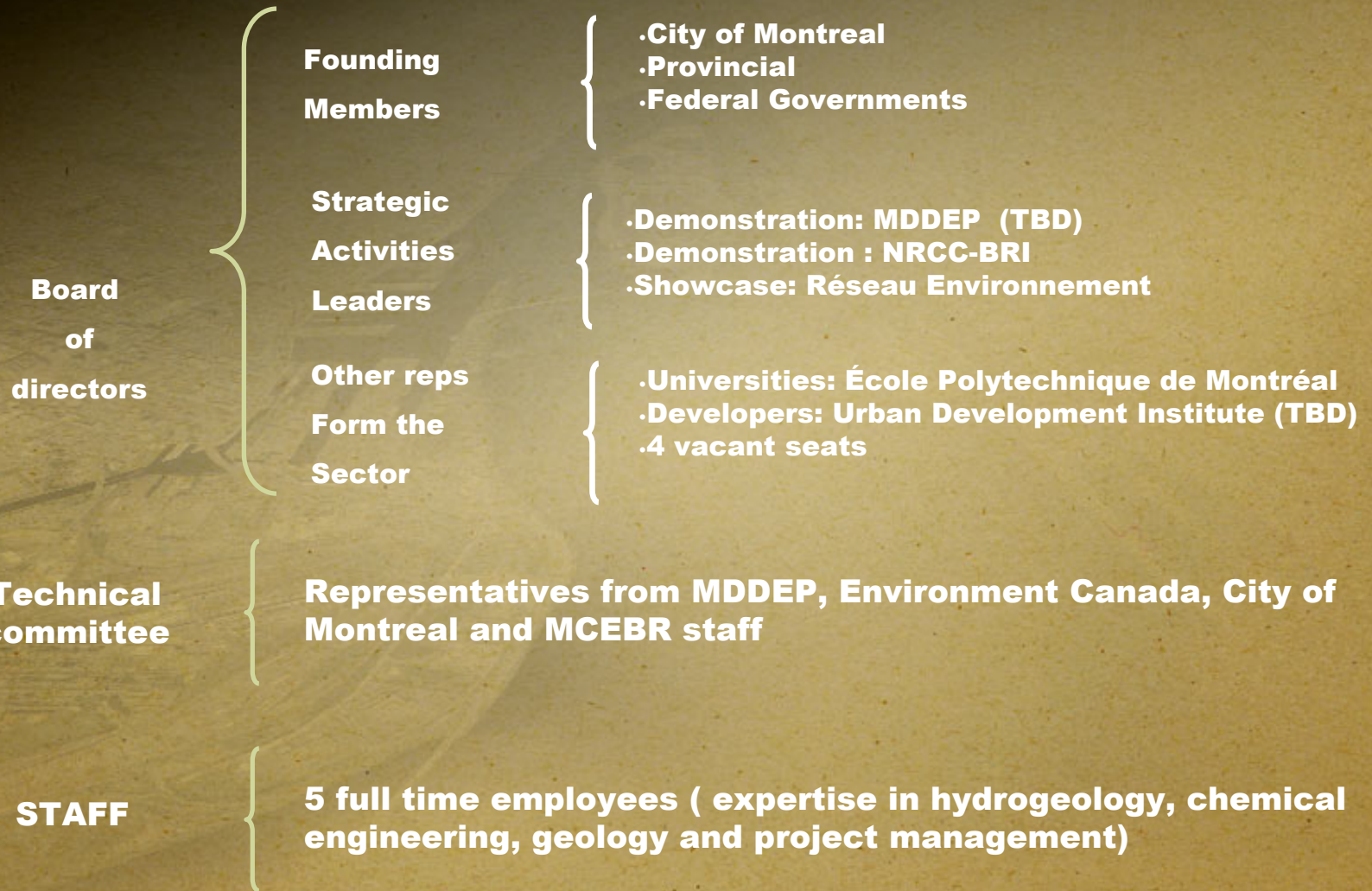
Since 1997



CEMRS
Centre d'excellence de Montréal
en réhabilitation de sites

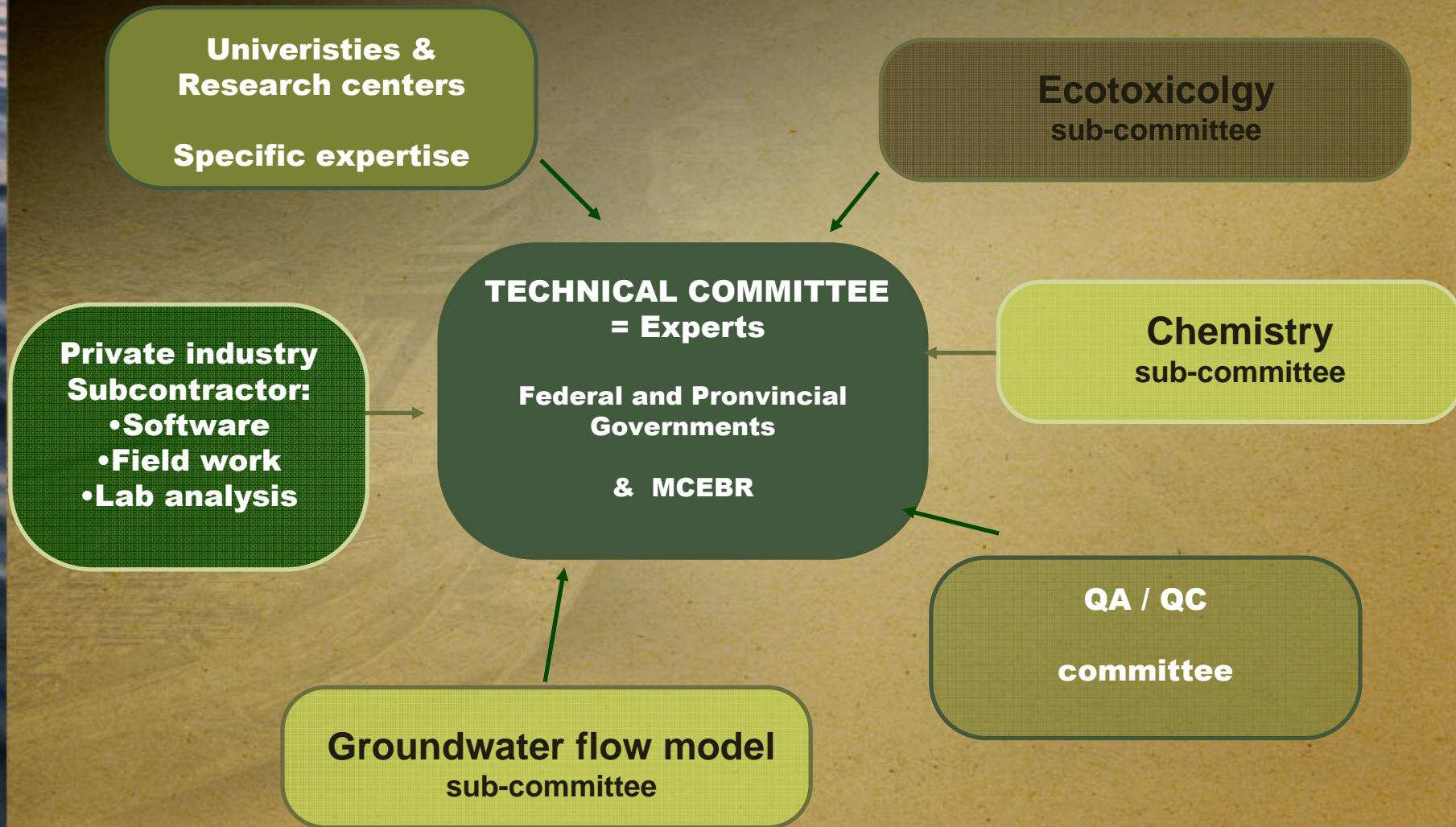
MCEBR
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in Brownfields Rehabilitation

Board of Directors, technical committee & employees





MCEBR TECHNICAL COMMITTEE



❖ Strategic Partners and Activities

ACTIVITIES

PARTNERS

DEPLOYMENT

FUNDINGS



*Technology
Demonstration*

*Showcase
& Promotion*

**NRCC-BRI
and
MDDEP**

**RESEAU
Environment**



CANADA



**CANADA &
INTERNATIONAL**

- Canada Economic Development (CED) Federation of Canadian Municipalities (FCM)
- Ministère Affaires municipales et des Régions
- City of Montreal

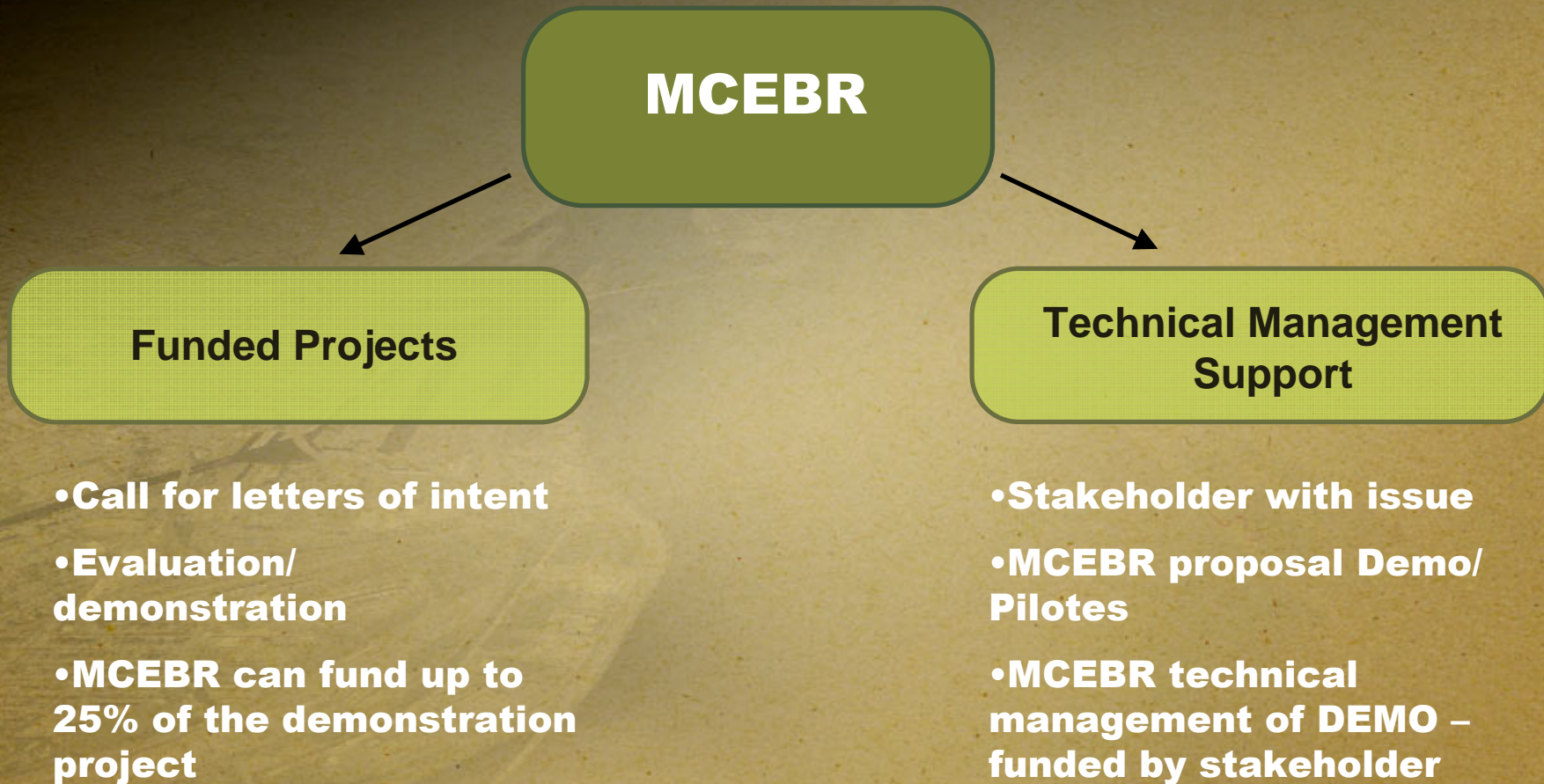


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Demonstration



Demonstration

- Informed decision about the best solution
- Proven results of potential solution through a pilot-scale test
- Adaptation of a solution to specific conditions
- Scientific, technical and financial support
- Lower the risk, uncertainties, and cost

BROWNFIELDS REHABILITATION PROJECTS

Characterization | **Demonstration** | Choice of a solution

A.C.

In situ or ex situ
decontamination treatments

MCEBR involvement with real estate developers, consultants, technology developers and research centers

Private industry experts and companies



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DEMONSTRATION PROJECTS

EVALUATION OF TECHNOLOGIES TO TREAT TOXICITY FROM UNDERGROUND WATER IN THE AREA BETWEEN JACQUES CARTIER AND CHAMPLAIN BRIDGES MONTREAL

Technical Management MCEBR

- 1.56 M\$ project CED funded
- Multi stakeholders
- Municipal and industrial waste for ≈ 100 years
- Review of historical data & new studies:
 - ✓ Modelisation
 - ✓ Toxicity Identification Evaluation phase 1
- Canada wide call for letters of intent
- 8 participants selected (Quebec-Ontario –USA) 60K\$ each



DEMONSTRATION PROJECTS

Cont'd

- **Golder & Associates Ltd**

IN SITU BIOSLURPING EXTRACTION SYSTEM, COUPLED WITH A SOIL HEATING SYSTEM TO RECOVER HYDROCARBONS

MCEBR funded part of project



- **Inspecsol**

DEMONSTRATION OF PHYTO REMEDIATION AS A POTENTIAL TECHNIQUE FOR CONTAMINATED SITE REMEDIATION

MCEBR funded part of project

- **Fiducie des installations pétrochimiques de Montréal-Est (FIPME)**

PRE-QUALIFICATION AND QUALITY ASSURANCE PROGRAM TEST PROTOCOLS

MCEBR Technical management



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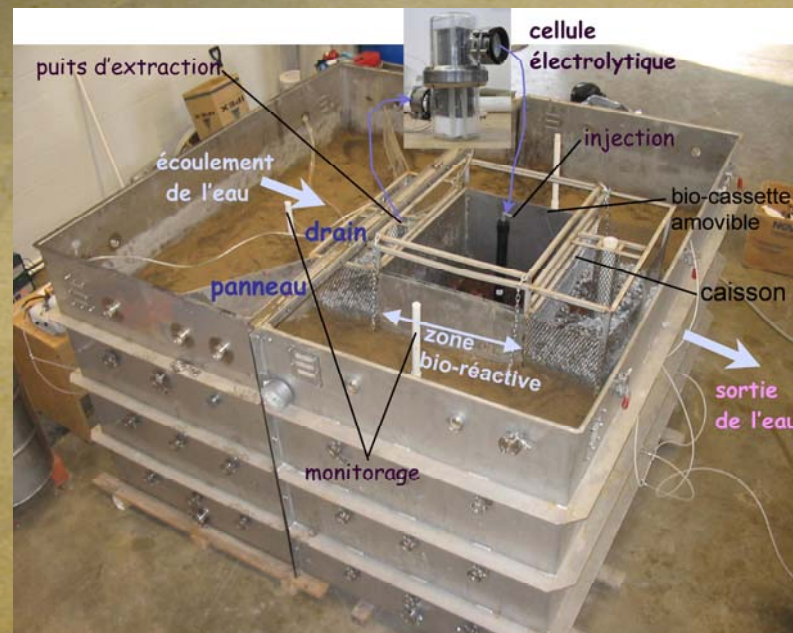
DEMONSTRATION PROJECTS

Cont'd

- NRCC- Biotechnologies Research Institute

SINGLE STATE PROCESS FOR BIOREMEDIATION OF CHLORINATED SOLVENTS

MCEBR partly funded



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WHY MCEBR ?

- **Networking of experts**
from all governments, universities or reserch centers
- **Neutrality and objectivity in evaluating technologies**
- **Facilitate finding the best technico-economic innovative solution suited for stakeholders**
- **KNOW-HOW laboratory scale and pilot scale management**



Thank you to our partners

- **Environnement Canada**
- **Canada Economic Development Agency (CED)**
- **Public Works and Government Services Canada (PWGSC)**
- **National Research Council Canada-Biotechnology Research Institute (NRCC-BRI)**
- **The Jacques Cartier and Champlain Bridges Inc. (JCCBI)**
- **National Defence**
- **Ministère du Développement durable de l'Environnement et des Parcs (MDDEP)**
- **Centre d'expertise en analyse environnementale du Québec (CEAEQ)**
- **Ministère du développement économique de l'Innovation et de l'Exportation (MDEIE)**
- **Fond d'action Québécois pour le développement durable (FAQDD)**
- **Hydro-Québec**
- **Institut National de Recherche Scientifique (INRS)**
- **City of Montréal**
- **Société du Havre de Montréal**
- **Institut de recherche biovégétale**
- **Alex-Sol**
- **Biogénie**
- **Canadien National**
- **COREM**
- **Dessau**
- **Draggagge Verreault**
- **Fiducie des pétrochimiques de Montréal-Est**
- **Golder & associates**
- **Génivar**
- **Hayka**
- **InspecSol / CRA**
- **Jacques Withford**
- **Northex Environnement inc.**
- **Sanexen**
- **Shell Canada**
- **Technorem inc.**
- **Terrapex environnement Ltd**

