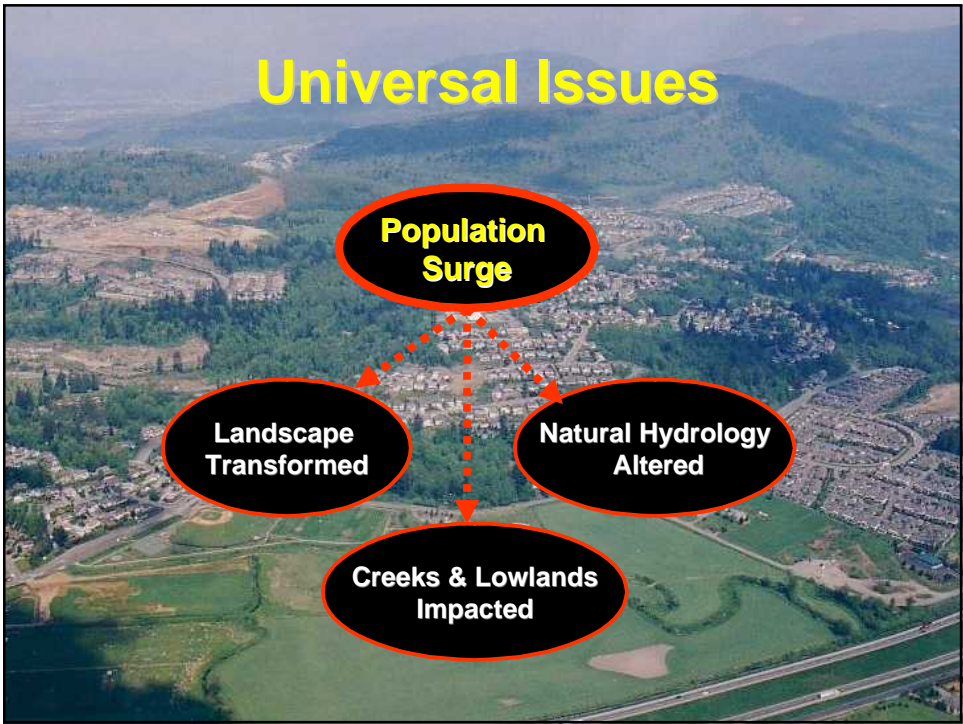


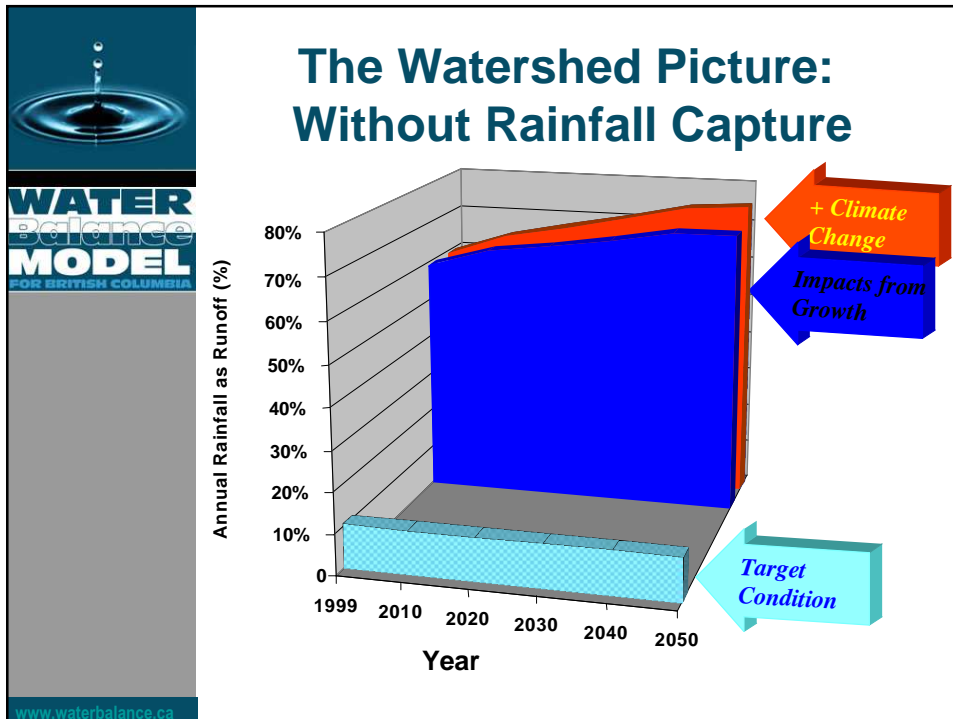


2005 International Water Association Conference
September 14, 2005

The Water Balance Model for Canada: Improving the Urban Landscape through Inter-Provincial Partnerships

Kim Stephens, PEng, Project Coordinator, Inter-Governmental Partnership
&
Bert van Duin, PEng, Alberta Low Impact Development Partnership



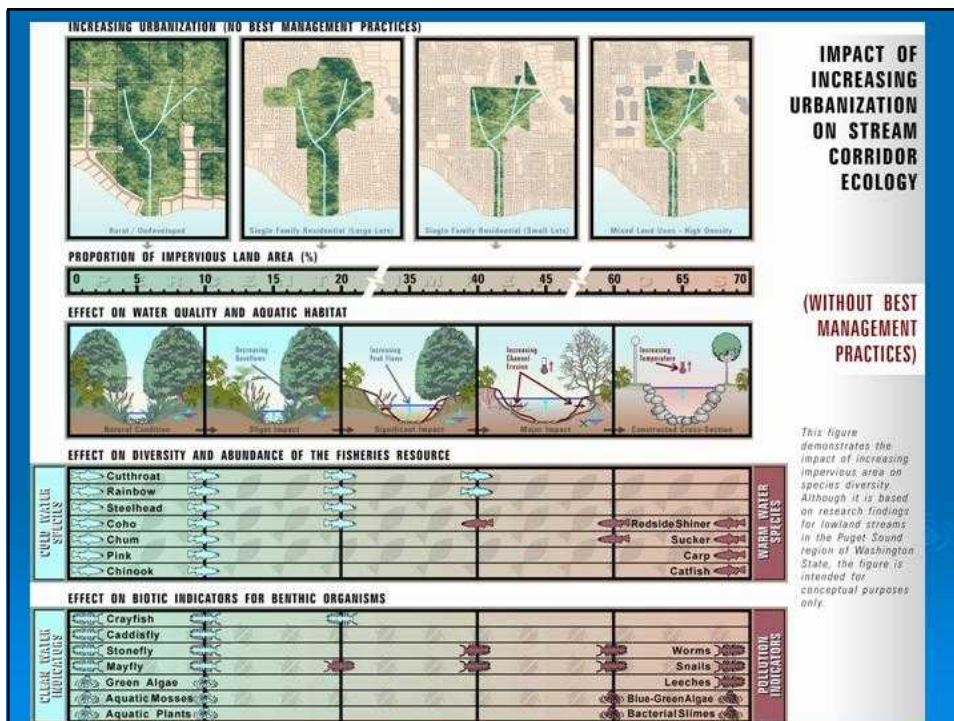


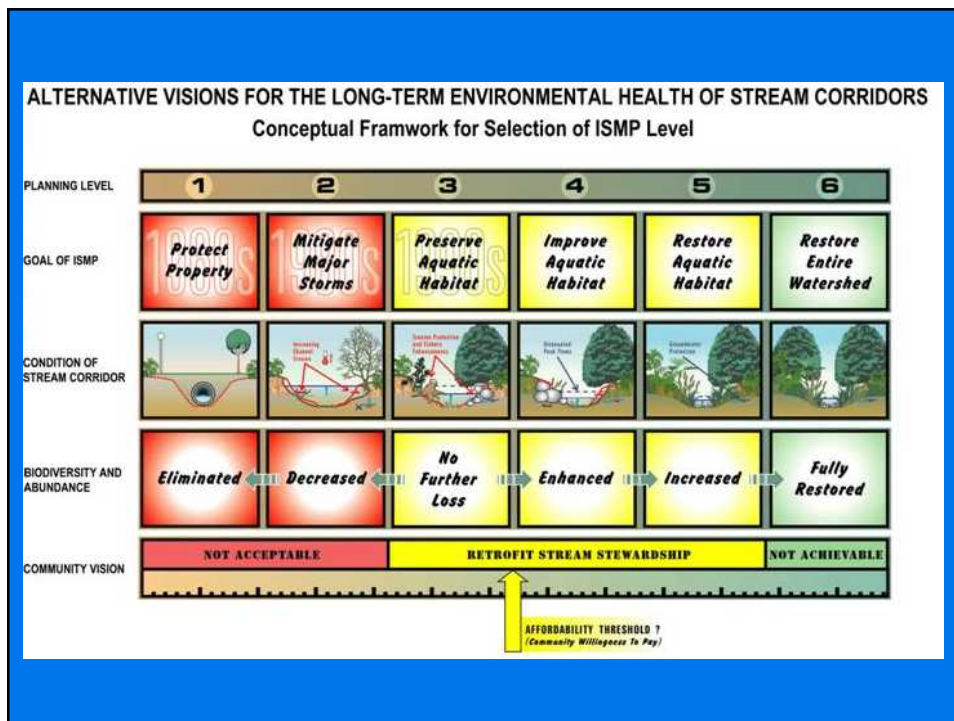
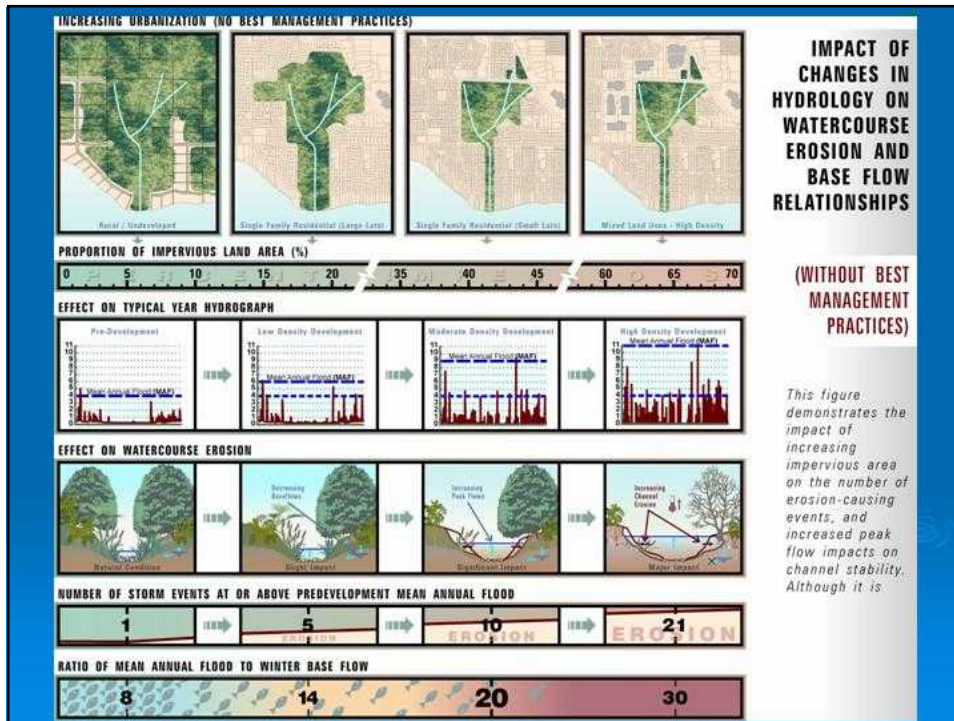
Mind Map

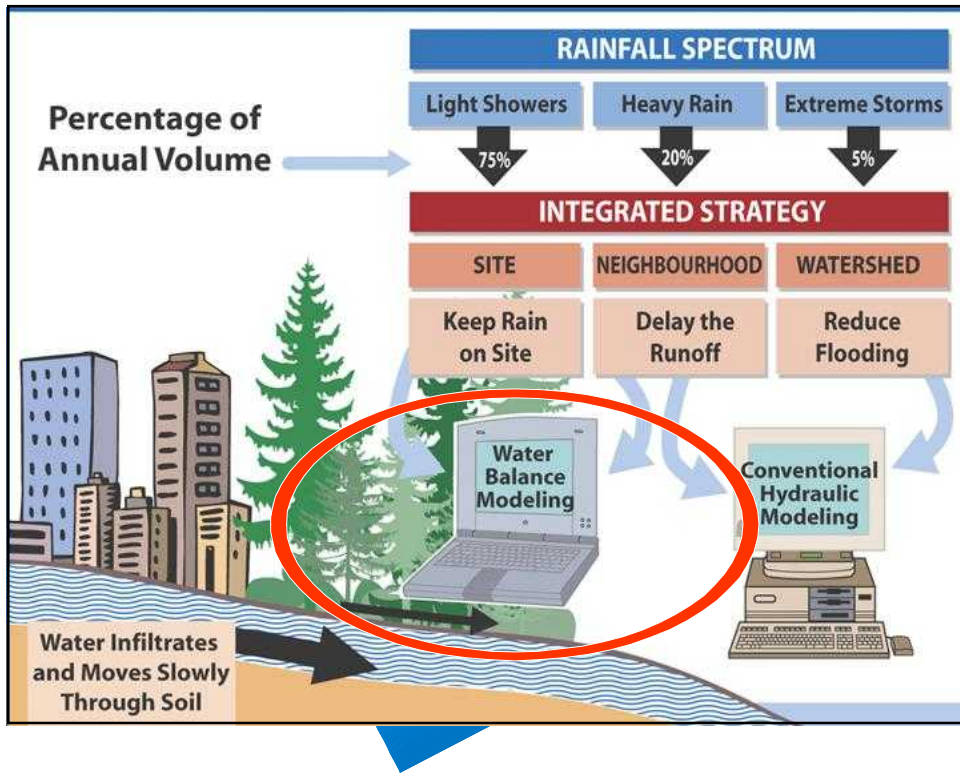
- Looking Back
- Where We Are Now
- Looking Ahead

Drainage Planning in British Columbia Has Been Evolving Over the Decades

- 1960s: Pipe and Remove
- 1970s: Detain Peak Flows
- 1980s: Reactive Mitigation
- 1990s: Stream Stewardship
(Proactive Management)
- 2000s: Rainwater Management
(Sharing a Vision)







Mind Map

- ☑ Looking Back
- ☑ Where We Are Now
- ☑ Looking Ahead



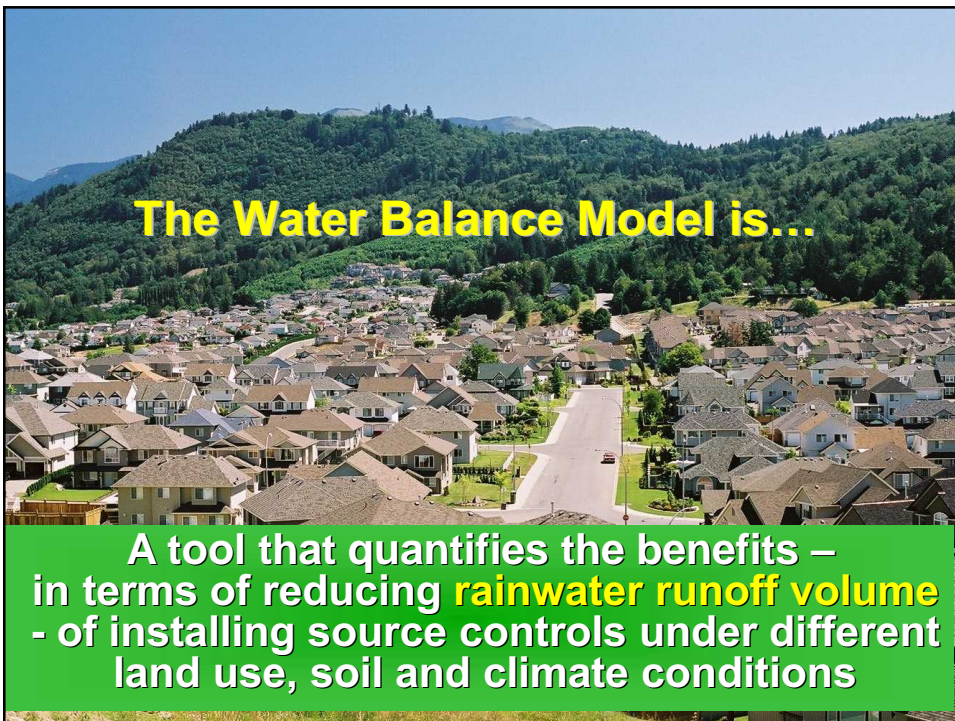
WATER
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www.waterbalance.ca

Inter-Governmental Partnership: Vision

To promote changes in land development practices so that:

- The built environment will preserve and/or restore the natural water balance over time
- Performance targets will be achieved for rainwater runoff volume and flow rate reduction at the source, *where rain falls*



Home About this Site

WATER Balance MODEL

BRITISH COLUMBIA WATER BALANCE MODEL RESOURCES NETWORKING

Partners

City of Chilliwack

Visit City of Chilliwack

Events

Jun 2005

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Add an event

Poll

A poll is not available

Organizations

Recent Additions...

[British Columbia Ground Water Association](#)

[Canadian Water Resources Association](#)

The Canadian Water Resources Association is a national organization of individuals and organizations interested in the management of Canada's water resources. The membership of the Association is composed of private and public sector water resource professionals including managers, administrators, scientists, academics, students and users. It has branch organizations in eight provinces and members throughout Canada and beyond.

[Watershed Report](#)

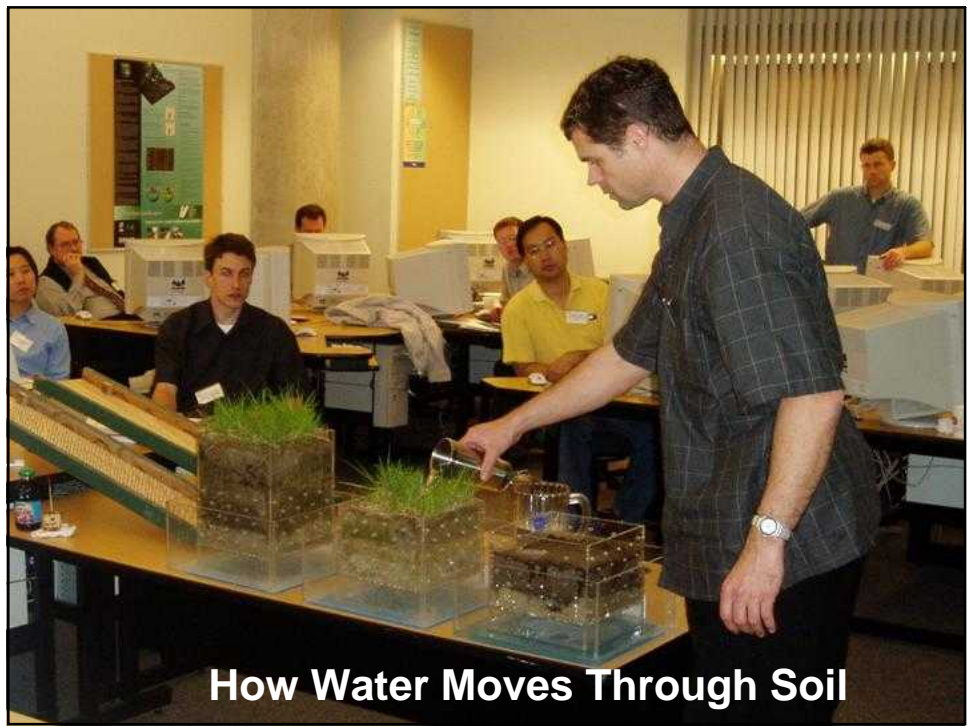
Key Message:
Anybody with a computer and internet connection can access the model

primary purpose is to provide province-wide guidelines for the maintenance of environmental valuesMore

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Adapting the Australian Experience

WSUD: BASIC PROCEDURES FOR SOURCE CONTROL OF STORMWATER



How Water Moves Through Soil



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Simplifying the Technical Language!

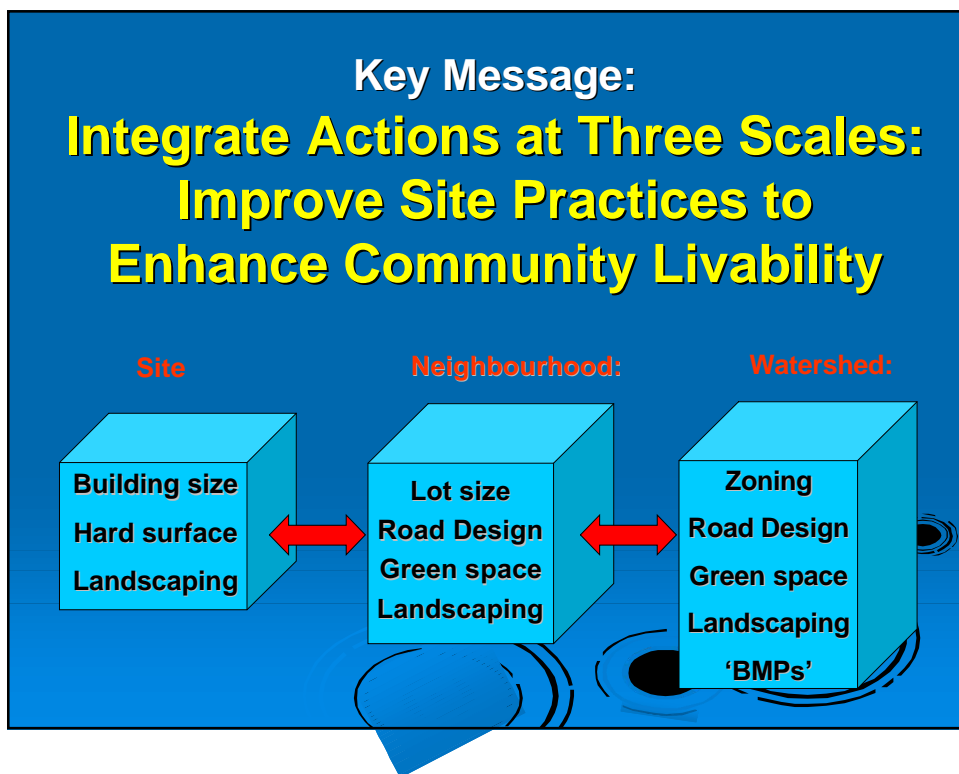
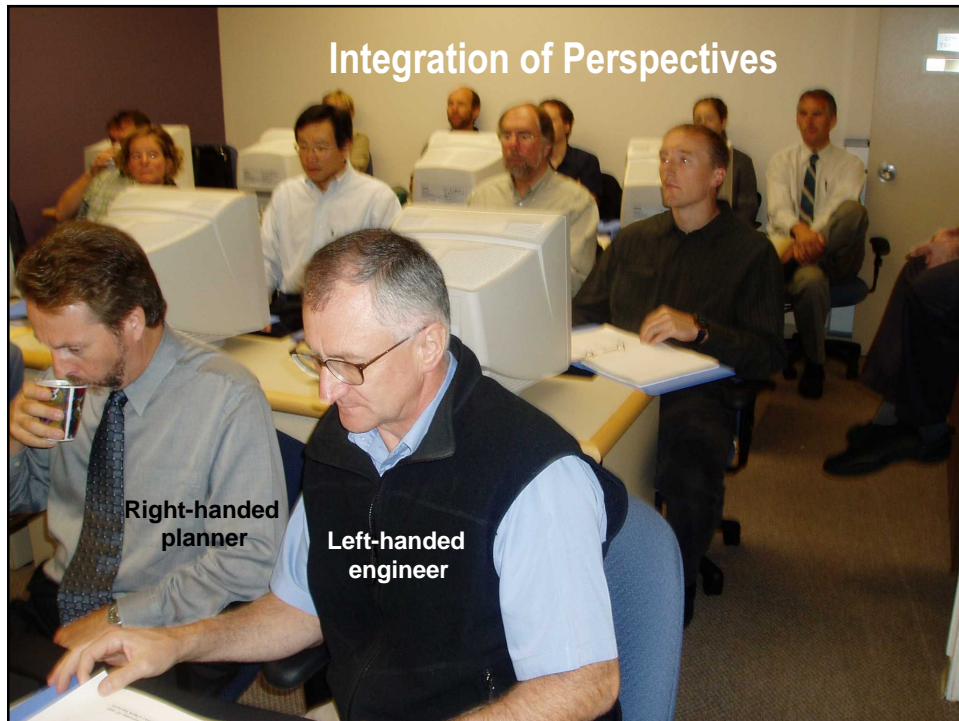
Basic Source Control Types:

- Absorbent Landscape
- Rain Gardens
- Infiltration Swales
- Pervious Paving
- Green Roof

A photograph of a construction site. In the background, there are trees and a partially constructed building with wooden framing. In the foreground, there is a paved area with blue recycling bins and a white car. A red brick wall is visible on the right side. A sign on the wall reads "TREE PROTECTION AREA KEEP OUT".

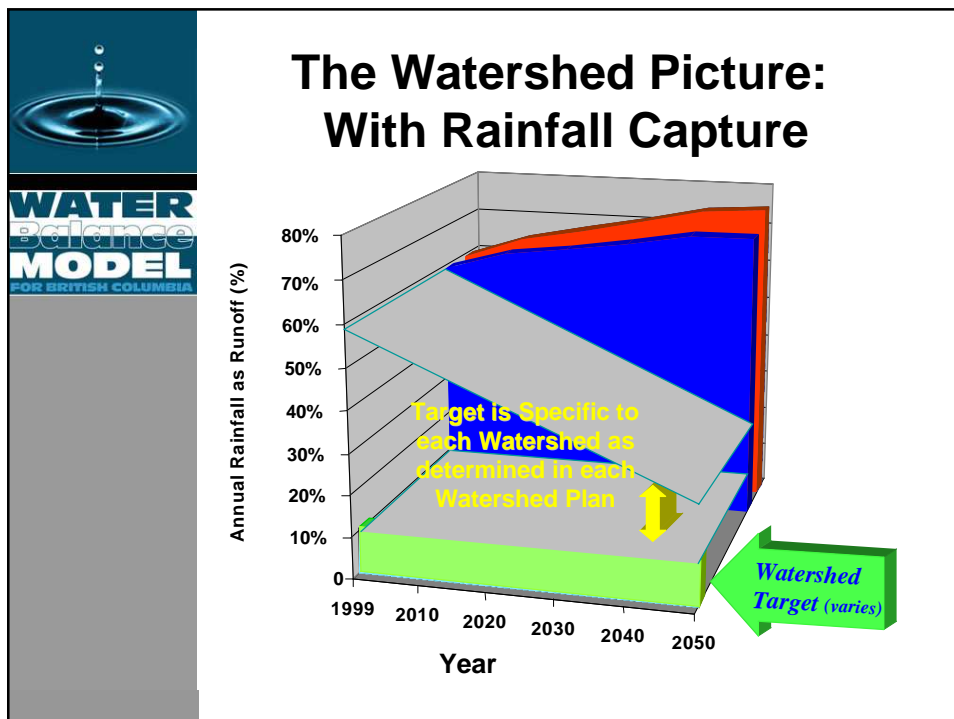
Water Balance Model promotes Integration of Perspectives

- **Planners:** Tool for Better Use of Space
- **Engineers:** Tool for Pre-Design
- **Landscape Architects:** Tool for Green Solutions
- **Ecologists:** Tool for Watershed Function
- **Educators:** Tool for Social Marketing



How the Water Balance Model is being used to make better decisions:

- **Local Governments** - when communicating with the public
- **Planners and Engineers** - when setting performance targets
- **Developers and their Consultants** - when testing scenarios
- **Environmental Agencies** - when monitoring watershed health



Mind Map

- Looking Back
- Where We Are Now
- Looking Ahead

The Alberta Story - 1

Low Impact Development Workshop in Okotoks, Alberta – September 2004

Initial reactions were mixed – planners and architects are open minded (LEED) while engineers are cautious until they realize that they need each other to implement change

Actually, brought people together who shared a common vision



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The Alberta Story - 2

Universality

Exchange of ideas and information

Do not get stuck on particular methods
but look at the entire toolbox available,
and allow it to evolve

Need regulatory framework and why we
would be interested in doing this

There are parallels between the
1998 British Columbia Strategy &
Alberta's Water for Life initiative



water for life



alberta's strategy for sustainability

ALBERTA'S DESIRED OUTCOMES:

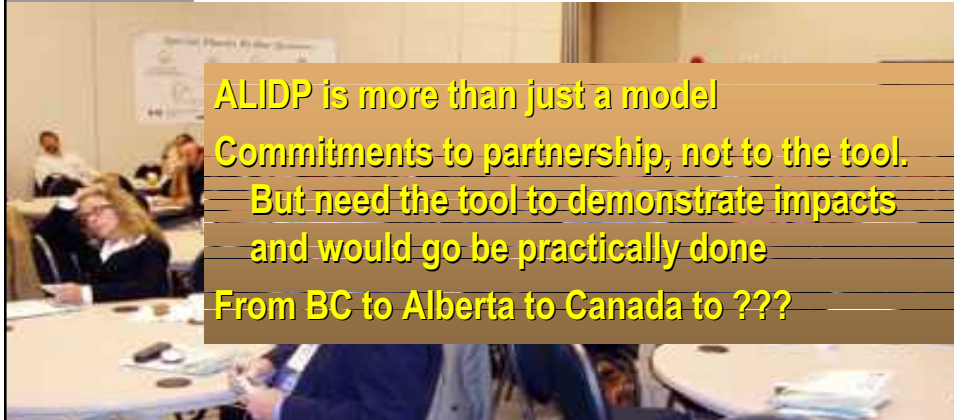
- Safe, secure drinking water supply
- Healthy aquatic ecosystems
- Reliable water quality supplies for
a sustainable economy

Alberta
sustainability



The Alberta Story - 3

Need first of all public education and outreach
Provides impetus for further research, pilot projects, etc. by pooling resources

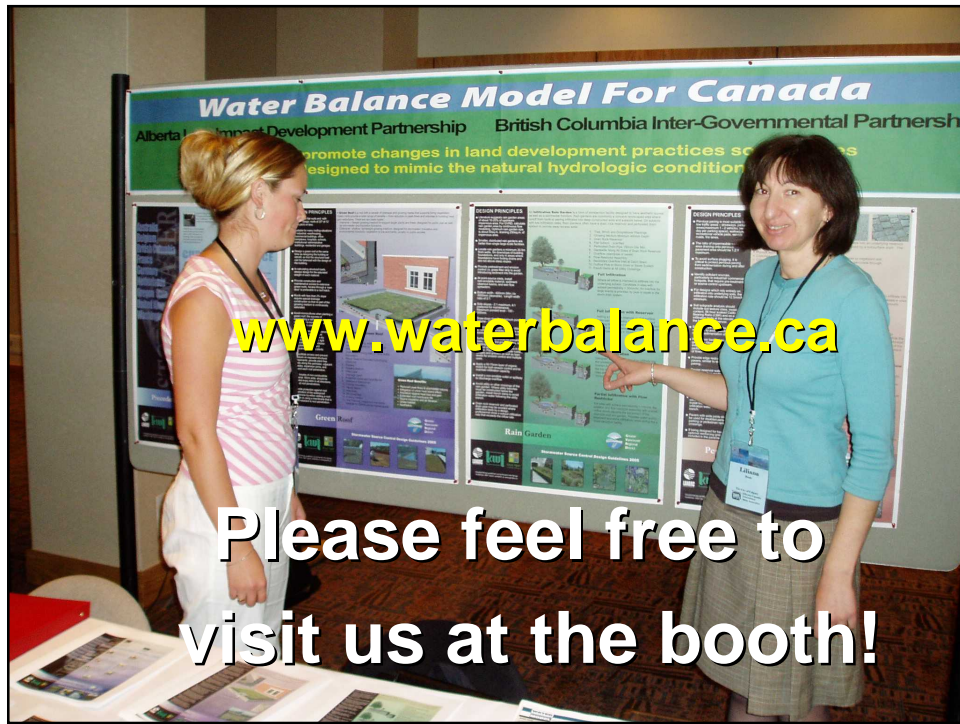


ALIDP is more than just a model
Commitments to partnership, not to the tool.
But need the tool to demonstrate impacts
and would go be practically done
From BC to Alberta to Canada to ???

The Mission is to Create a Legacy



Influence choices by individuals and organizations
Use the term “sustainability” as a lens for
considering approaches that influence choices



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Please feel free to
visit us at the booth!