



Science and risk mitigation: It's more than advice

Dr. John Leggat

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Council of Canadian Academies
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Science Advice in the Public Interest
Le savoir au service du public

Introduction

1. Risk management is an essential component of public policy development.
2. How does science support risk management?
3. How can decision makers access unbiased science advice that will support policy development?
4. How do we best merge science advice, as it exists both inside and outside of government?
5. How do we integrate Canada's science and technology base *with* public policy to ensure the best decisions are taken?

DELIVERY OF SCIENCE ADVICE

**Outside
Government**

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**Inside
Government**

Impartial Assessments

ADVOCACY

- Influence
- Interests at play

ADVICE

- Informed
- Fact-based
- Balanced
- Trusted

RISK MANAGEMENT

Multi-Factor Input and Assessment

INTEGRATION OF SCIENCE ADVICE

*Science
Advice*

Policy and Decision Making

THE ELEMENT OF TIME

Lots of Time

Minimal Time

Environment
Pesticide testing
Health & Prevention

← Enriching the knowledge base

Using the knowledge base →

H1N1
Olympics
BSE
Y2K



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LESSONS LEARNED

Business Innovation
Pesticide testing
Animal Health Risk Assessment
State of Biodiversity

SUMMARY

- 1) To develop effective public-policies efficient access to the national knowledge base is essential
- 2) Urgency should not limit the access to quality science advice
- 3) Science advice is a key component of risk management for both decision and policy making
- 4) Federal science departments need to work together on integrated approaches to building evidence-based policies