

Institutional Perspective on the SEEA

UNSD SEEA Training of Trainers Seminar

July 7-10, 2014, New York

Joe St. Lawrence

Statistics Canada



Canada

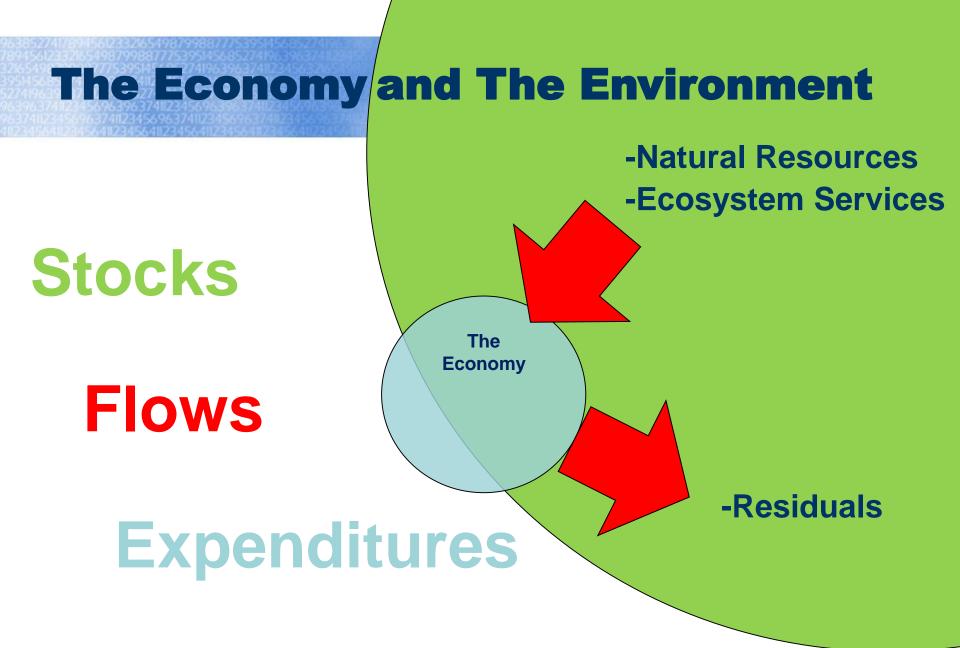
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"...we often draw inferences about what are good policies by looking at what policies have promoted economic growth; but if our metrics of performance are flawed, so too may be the inferences that we draw."

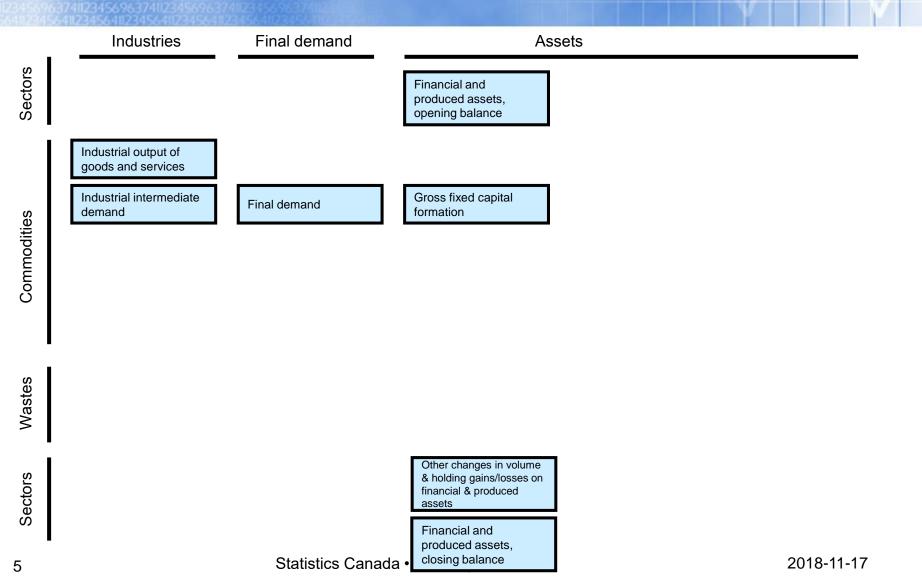
Stiglitz, J.E., A. Sen, and J-P. Fitoussi, (2009), Report by the Commission on the Measurement of Economic Performance and Social Progress, p.7 <u>www.stiglitz-sen-fitoussi.fr/documents/rapport_anglais.pdf</u>



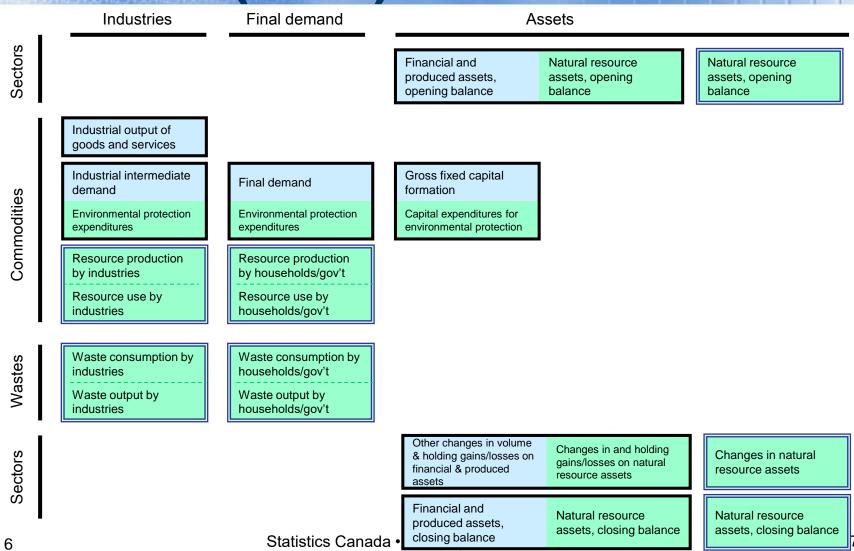
Integrating the Environment and the Economy at Statistics Canada

- **1970s** Structural Analysis Division
- **1978** First edition of *Human Activity and the Environment*
- 1989 Waste Management Industry Survey
- **1994** Survey of Environmental Protection Expenditures
- 1995 Environment Industry Survey
- **1997** Canadian System of Environment and Resource Accounts (CSERA)
- 2003 Environment and Sustainable Development Indicators
- 2005 Agricultural Water Use Survey
- 2007 Survey of Industrial Water Use
- 2009 Survey of Drinking water Treatment Plants
- 2013 *Measuring Ecosystem Goods and Services project results published in Human Activity and the Environment*

SNA view



System of Environmental-Economic Accounts (SEEA) view



Physical Flow Accounting

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Home > CANSIM Table 153-0032 ^{1, 2, 3}					
Energy use, by sector annual (terajoules)					
Data table Add/Remove data Manipulate Download Related inform The data below is a part of CANSIM table 153-0032. Use the Add/Remove data Selected items [Add/Remove data] Geography = Canada Geography = Canada					
Sector	2004	2005	2006	2007	2008
Total, all sectors	10,498,	742 10,470,	903 10,226,701	10,840,945	10,612,484
Business sector	7,658,	424 7,632,	322 7,442,237	7,851,631	7,649,385
Crop and animal production	177,	363 169,	162,585	177,368	174,849
Forestry and logging	41,	144 44,	339 38,362	31,051	30,369
Fishing, hunting and trapping	16,	950 13,	11,351	11,196	11,118
Support activities for agriculture and forestry	13,	468 15,	955 14,049	15,295	15,837
Oil and gas extraction	1,074,	476 1,112,	942 1,052,099	1,104,403	1,096,012
Coal mining	17,	916 14,	919 12,498	14,162	17,921
Metal ore mining	70,	269 74,	533 74,584	70,172	82,056
Non-metallic mineral mining and quarrying	55,	270 53,	58,387	58,604	58,858
Support activities for mining and oil and gas extraction	54,	195 61,	68,896	63,791	61,170
Electric power generation, transmission and distribution	1,611,	069 1,623,	420 1,515,911	1,666,580	1,657,178

Asset Accounting

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Categories	2008	2009	2010	2011	2012
Non-financial assets	7,416,200	6,629,425	7,313,829	7,960,934	8,041,096
Produced non-financial assets	4,187,815	4,246,166	4,408,493	4,639,292	4,895,157
Residential structures	1,654,058	1,687,356	1,778,316	1,871,006	1,980,938
Non-residential structures	1,319,709	1,328,319	1,393,163	1,489,886	1,588,777
Machinery and equipment	311,551	324,913	304,853	307,726	325,358
Consumer durable goods	465,860	476,435	495,912	513,720	525,196
Inventories	244,505	233,382	236,050	249,915	259,899
Non-produced non-financial assets	3,228,385	2,383,259	2,905,336	3,321,642	3,145,939
Land	1,805,153	1,931,790	2,037,456	2,202,114	2,360,816
Timber	131,789	71,567	122,276	120,499	113,133
Subsoil resource stocks	1,291,443	379,902	745,604	999,029	671,990
Selected energy resources [±]	987,017	256,900	516,642	679,642	441,628

Accounting for Environmental Transactions (Expenditures)

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Table 153-0052^{1,2}

Capital and operating expenditures on environmental protection, by North American Industry Classification System (NAICS) and type of activity, Canada

every 2 years (dollars x 1,000,000)

Data table Add/Remove data Manipulate Download Related information Help

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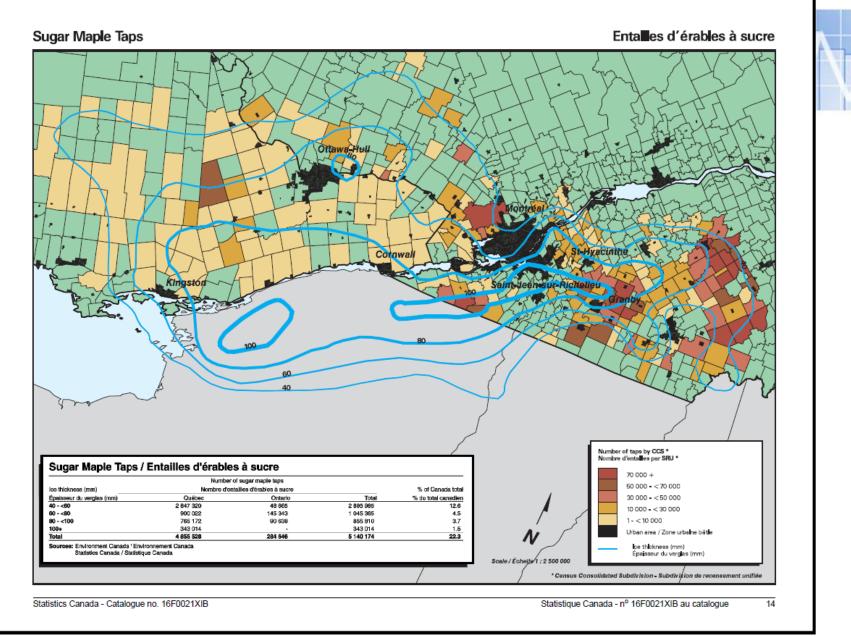
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Geography = Canada³

North American Industry Classification System (NAICS) = Total, all industries

Expenditures	Type of activity	2006	2008	2010
	Total, all activities	3,909.5 ^r	3,789.9 ^r	4,175.4
	Environmental monitoring	174.2 ^r	44.2 ^r	55.4
	Environmental assessments and audits	142.3 ^r	105.5 ^r	198.8
	Reclamation and decommissioning	429.1 ^r	496.6 ^r	608.3
Capital expenditures 4	Wildlife and habitat protection	156.8 ^r	90.3 ^r	178.8
	Waste management and sewerage services	523.6 ^r	396.4 ^r	534.9
	Pollution abatement and control processes (end-of-pipe)	916.5 ^r	1,640.2 ^r	1,464.3
	Pollution prevention processes	1,566.9 ^r	964.7 ^r	1,070.9
	Other types of environmental protection ⁴		52.1 ^r	63.9
	Total, all activities	4,851.2 ^r	4,943.0 ^r	5,346.8
	Environmental monitorina	245.8 ^r	213.5 ^r	249.1

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Environment Accounts Product Catalogue

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The Green Plan

Initiation 1990 Federal Budget

Objectives

To initiate development of a system of environmental and resource accounts that would quantify the links between the environment and the economy.

Outcome

Canadian System of Environmental and Resource Accounts Accounts: Physical Flows (water, energy, GHG) Assets (minerals, energy, timber), Land Related indicators Surveys: Environmental Protection Expenditures, Environmental Goods and Services

Environment and Sustainable Development Indicators

Initiation 2000 Federal Budget

Objectives

To find ways to track the impact of current economic practices on the natural and human assets that will be needed by future generations of Canadians.

Outcome

Reports: 2003 State of the Debate Report, 2006-08 Canadian Environmental Sustainability Indicators Indicators: Air Quality, Water Quality, GHG Emissions Surveys: Households and the Environment, Industrial Water Use, Agricultural Water Use, Drinking Water Treatment Plants Links: Ongoing contribution to Federal Sustainable Development Strategy indicators

Measuring Ecosystem Goods and Services

Initiation 2011 Interdepartmental funding request

Objectives

To develop experimental ecosystem accounts with the specific objective of supporting policy needs related to the valuation of ecosystem goods and services.

Outcome

Reports: Human Activity and the Environment 2013: Measuring ecosystem goods and services in Canada

Infrastructure: MEGS geospatial database, MEGS community of practice



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