



Evaluation & Outcome Reporting for Canadian Institutes of Health Research Grants

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Presentation Overview

- About the Canadian Institutes for Health Research (CIHR)
 - CIHR mandate & key activities
- CIHR's Performance & Accountability Branch
 - Key stakeholders that rely on health outcome data
- Reporting on health research outcomes
- What's the benefit for the researchers?

CIHR Mandate & Key Activities

The objective of CIHR is to excel, according to internationally accepted standards of scientific excellence, in the creation of new knowledge and its translation into improved health for Canadians, more effective health services and products and a strengthened Canadian health care system

CIHR responds to evolving research needs and transforms health research by:

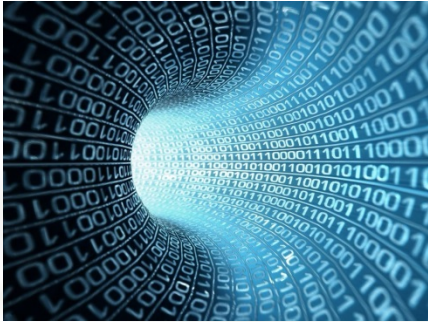
- Funding both investigator-initiated and research in targeted/priority areas;
- Building research capacity in under-developed areas and training health researchers; and
- Facilitating knowledge translation and application of research to transform new policies, practices, procedures, products and services.

Ensuring transparency and accountability to Canadians for the investment of the Government of Canada in health research



CIHRs Performance & Accountability Branch (PAB)

Planning, Reporting, Measurement & Data



- Performance Measurement
- Data production and analytics
- Corporate planning and risk management
- Corporate Reporting
- Parliamentary Reporting

Evaluation Unit



- Evaluation of CIHR's programs, initiatives and Institutes
- CIHR's Five-Year Rolling Evaluation Plan to meet TB Policy
- Coordinate PAB support and services to Institutes
- Monitor status of management response action plans

Internal Audit & Controls



- Internal Audits
- 3 Year Risk-Based Audit Plan
- Annual Internal Controls over Financial Reporting Exercise
- Financial Monitoring of Institutions



Various Stakeholders Rely on Health Research Outcomes

Treasury Board of Canada & the Federal Health Portfolio

- Corporate Performance Measurement Framework (PMF)
- Ministerial requests

CIHR senior management & the Institutes

- Prioritization of investments – identification of research gaps

Researchers & research institutions

Citizens, patients and the general public

- Healthcare practices and behaviours
- Citizen/patient engagement in research

Health research findings are key data sources for evaluative activities

1. Performance Measurement (PM)

- Program monitoring and informing decision-making
- Support effective evaluations

2. Evaluation

- Evaluate the effectiveness, efficiency and economy of programs
- Providing findings to inform program design, planning and decision-making
- Meet requirements set out in the Federal Administration Act and TBs Policy on Evaluation

3. Impact Assessment (IA)

- Highlighting key achievements/impacts of the funded research
- Demonstrate societal advances through health research
- Topic-based, Institute-based, or category-based

Research Reporting System (RRS)

- Researcher-reported survey
- Gauges outcomes in a consistent manner post-funding expiry date
- Mandatory for mostly all CIHR grant holders

Provides data on:

- Amount leveraged \$s the researcher has secured and from what source
- Stakeholder (SH) involvement in the research and extent of impact on these SH
- Lay summary of research findings and impact
- Description of types of impacts that have arisen
- Extent of impact of findings on CIHR mandate areas
- Types of research participants or other research institutions were involved
- Newly developed or advancing outcomes (e.g., vaccines, IP, theories etc..)
- Building capacity (# & type of trainees supported, formal qualifications earned)
- Scientific production (published articles, interviews, presentations given)

Data Collection & Reporting Issues

- In the past, monitoring and reporting of performance across CIHR has been done in silos
 - Redundancies & replication of efforts
 - Inconsistency in reporting
 - Erroneous results stemming from lack of validation
 - Non comparable results
 - Over 1500 indicators being tracked and monitored annually at CIHR
- Reporting of results must be valid and meaningful to inform management decisions
- The Regime allows the reporting of transformational health research impacts across internationally-recognized impact framework categories (i.e., CAHS)

CIHR's PM Regime: A Data Collection & Reporting Toolbox

A corporate-wide, all-encompassing performance measurement toolbox facilitating consistent reporting to our stakeholders across all of CIHR

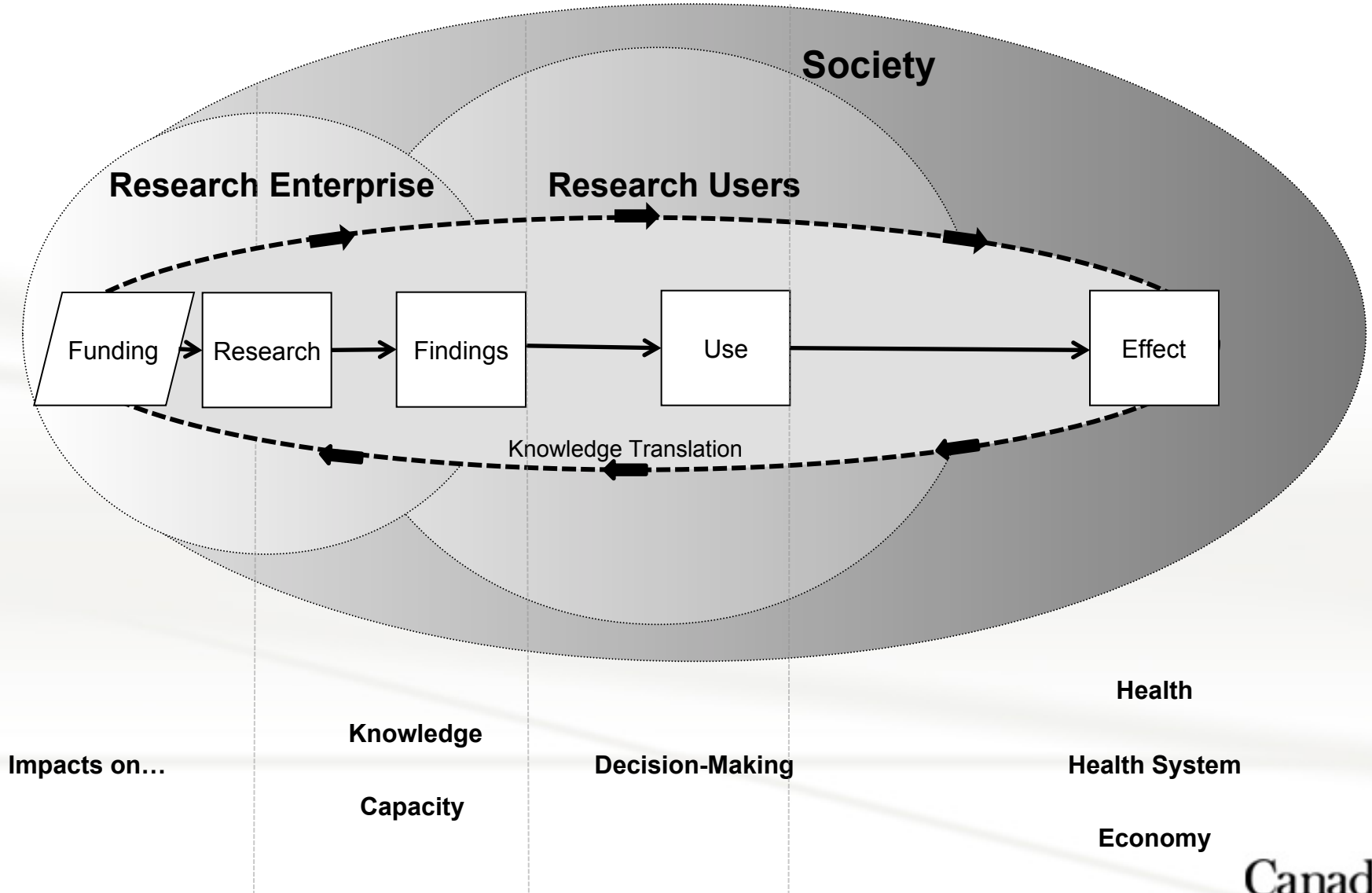
Comprises two performance measurement streams:

1. Health research impact stream
 - Allows for the monitoring and reporting of health research outputs, outcomes and impacts (informed by CAHS impact framework)
2. CIHR operations and accountability stream
 - Allows for the monitoring and reporting of CIHR activities, outputs and outcomes for transparent accountability to stakeholders including parliament (e.g., DPR)

CIHR end-of-grant reports are a significant source of data for reporting against health research impacts



Simplified Conceptual Model of Research Impact





Health Research Impact Category Descriptions

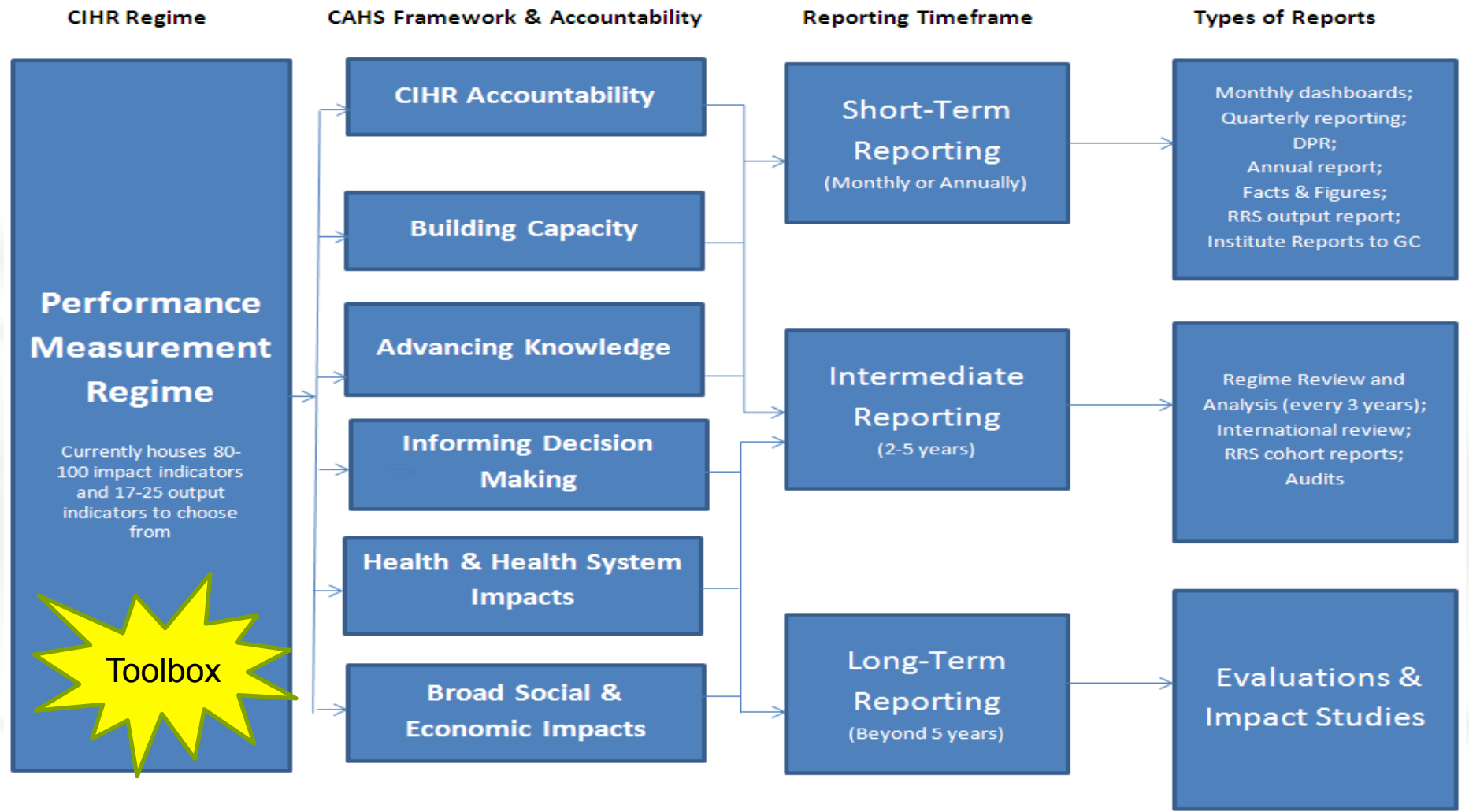
Impact Category	Description	Sample of Indicators
Advancing knowledge	This category includes discoveries/ breakthroughs, contributions to the scientific literature (grey or peer-reviewed) and may include measures of research quality, activity, outreach and structure.	<ul style="list-style-type: none">• Number and type of scientific products produced through CIHR funded research• Number of grants reporting new method, theory or replication of findings• Number of invited presentations/interviews
Building capacity	This category includes the development and enhancement of research skills in individuals and teams, additional research-activity funding (e.g., funding partnerships) as well as the development/ enhancement of platforms.	<ul style="list-style-type: none">• Number of research collaborations among CIHR funded grants and awards• Total number of CIHR grants supporting teams• Number of staff (including trainees) supported on grants
Informing decision-making	This category includes the impacts of health research in the areas of health related decision making (i.e., science/ research, general public, clinical and managerial decision-making, practice and policy and health products decision making).	<ul style="list-style-type: none">• Percentage of CIHR grants reporting citation by others• Field analysis of citations• Citations in best practice guidelines or policies

Health Research Impact Category Descriptions (cont.)

Impact Category	Description	Sample of Indicators
Health impacts	This category includes advances in the prevention, diagnosis, treatment and palliation as well as changing health status and determinants of health.	<ul style="list-style-type: none"> • Potential years of life lost in Canada • Community well-being index
Health system impacts	This category includes advances and efficiencies in the way the health system functions.	<ul style="list-style-type: none"> • Mortality rate from treatable causes in Canada (age-standardized per 100,000 population) • Hospital readmission rates in Canada
Broad economic and social impacts	This category includes commercialization of research discoveries, human capital gains, health benefits (specific costs of implementing research findings in the broad health system), well-being and social benefit indicators.	<ul style="list-style-type: none"> • Total number of staff being paid through CIHR grants • Economic productivity levels of sick people in Canada

The Regime informs all CIHR reporting

CIHR Performance Measurement Regime



Data Needs by Evaluation Activity

CIHR evaluation activities also align with the research process thus will require different research outcome data from the research community

Performance Measurement

- Number & type of scientific products created/disseminated through CIHR funded research
- Number of research collaborations among CIHR funded grants and awards
- Total number of trainees or staff supported

Evaluation

- Extent to which research findings are applied where appropriate
- Evidence that optimal research capacity has been achieved and sustained
- Evidence that Canada is recognized as a hub for international research collaborations

Impact Assessment

- Percent of grants reporting improvements in selected health measures
- Hospital readmission rates in Canada
- Number of new health research start-up companies formed

Health research data collection methods differ across the evaluation activities

Performance Measurement

- Mostly through quantitative methods
- Progress reporting mainly done via surveys (mainly annual)
- Gauges research activity and early output

Evaluation

- Uses mixed-methods approaches
- Assesses whether expected research outcomes are occurring or have occurred

Impact Assessment

- Uses mixed-methods but tends to include more qualitative data
- Demonstrates how research outcomes contributed to the longer-term societal impacts

How can Reporting Benefit Researchers?

Regular data collection facilitates end-of-grant reporting

- CIHR strongly encourages researchers to collect data against the RRS on a regular basis to not only facilitate end-of-grant reporting but to strengthen the accuracy of end-of-grant reporting

Facilitates the timely updating of a researchers CV

Decrease ambiguity around stated outcomes in ones CV

- Strengthens a CV by including research products that align with how CIHR categorizes health outcomes

How can Reporting Benefit Researchers?

CIHR publically disseminates research highlights which raises the profile of a particular research area

- Increased public awareness can lead to pressure on the government to increase funding in a particular research area

Strengthens CIHRs ability to demonstrate to the Federal Government the continued need and relevance of health research funding

- Can influence increased allocation of funds for health research across the board

Helps CIHR identify gaps in research capacity

- Can influence diversion of existing CIHR funds to bridge gaps in research or capacity

Summary of Presentation

Many different stakeholders require health research data for a variety of reasons

CIHR is mandated by the Federal Government to be accountable and transparent in the use of public funds which means we must report research outcomes stemming from our funded research community

CIHR has created a PM toolkit to help ensure consistency in reporting against health research outcomes and this toolkit houses the end-of-grant report data CIHR already requests from the research community

Reporting health research outcomes back to CIHR is a truly mutually beneficial process and the CIHR is working hard on further communicating this to our health research community

Questions & Discussion

