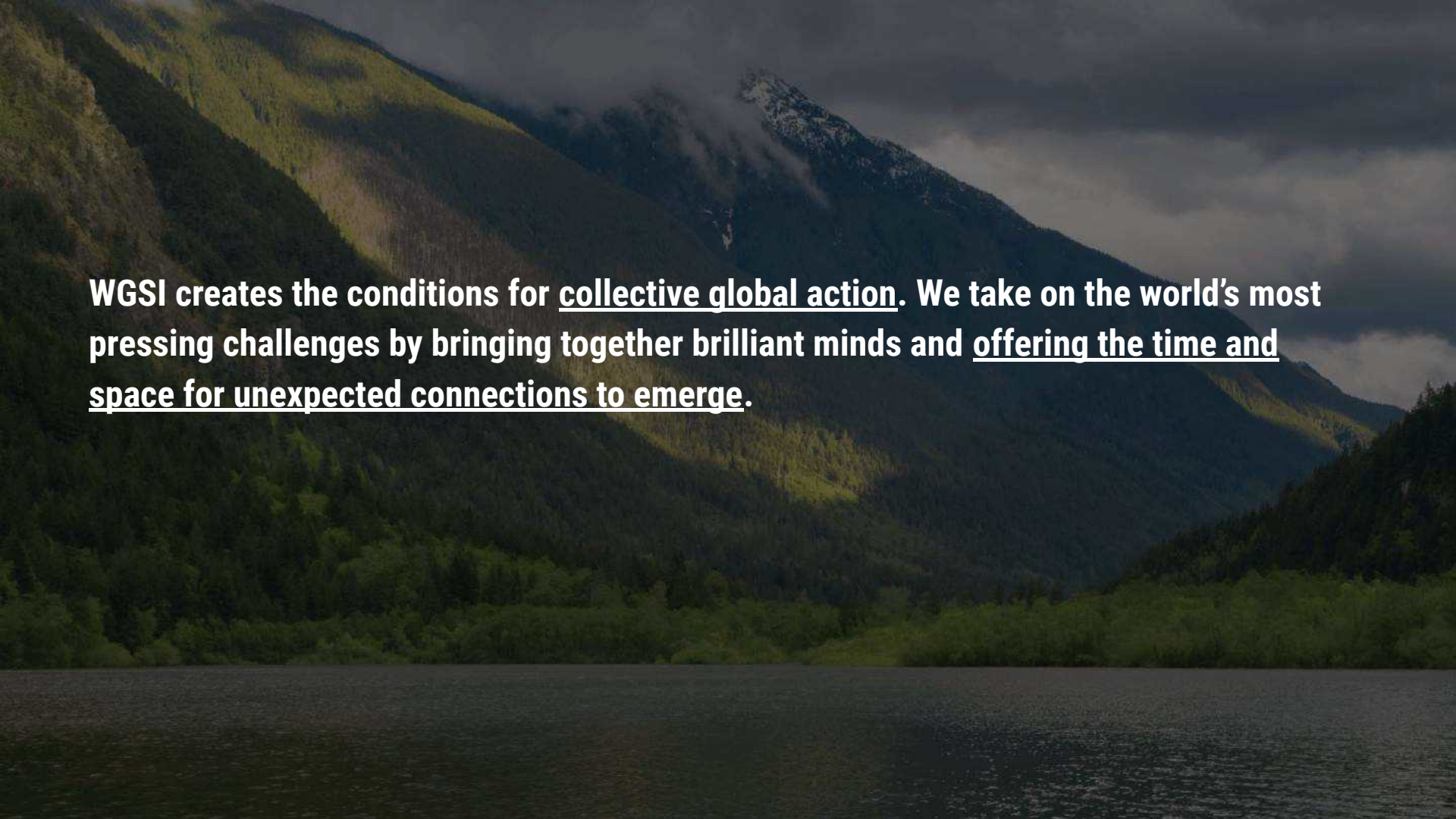# WGSI

Waterloo Global Science Initiative

Agenda

1.0 Introductions
2.0 The SDGs
3.0 What is the Voluntary Local Review (VLR)
4.0 The pilot opportunity
5.0 Q&A

WGSI sits at the intersection of two global thought leaders: the <u>University of Waterloo</u> and <u>Perimeter Institute for Theoretical Physics</u>. WGSI was founded through a partnership between the two institutions, and while WGSI operates independently, they remain key collaborators in our mission.
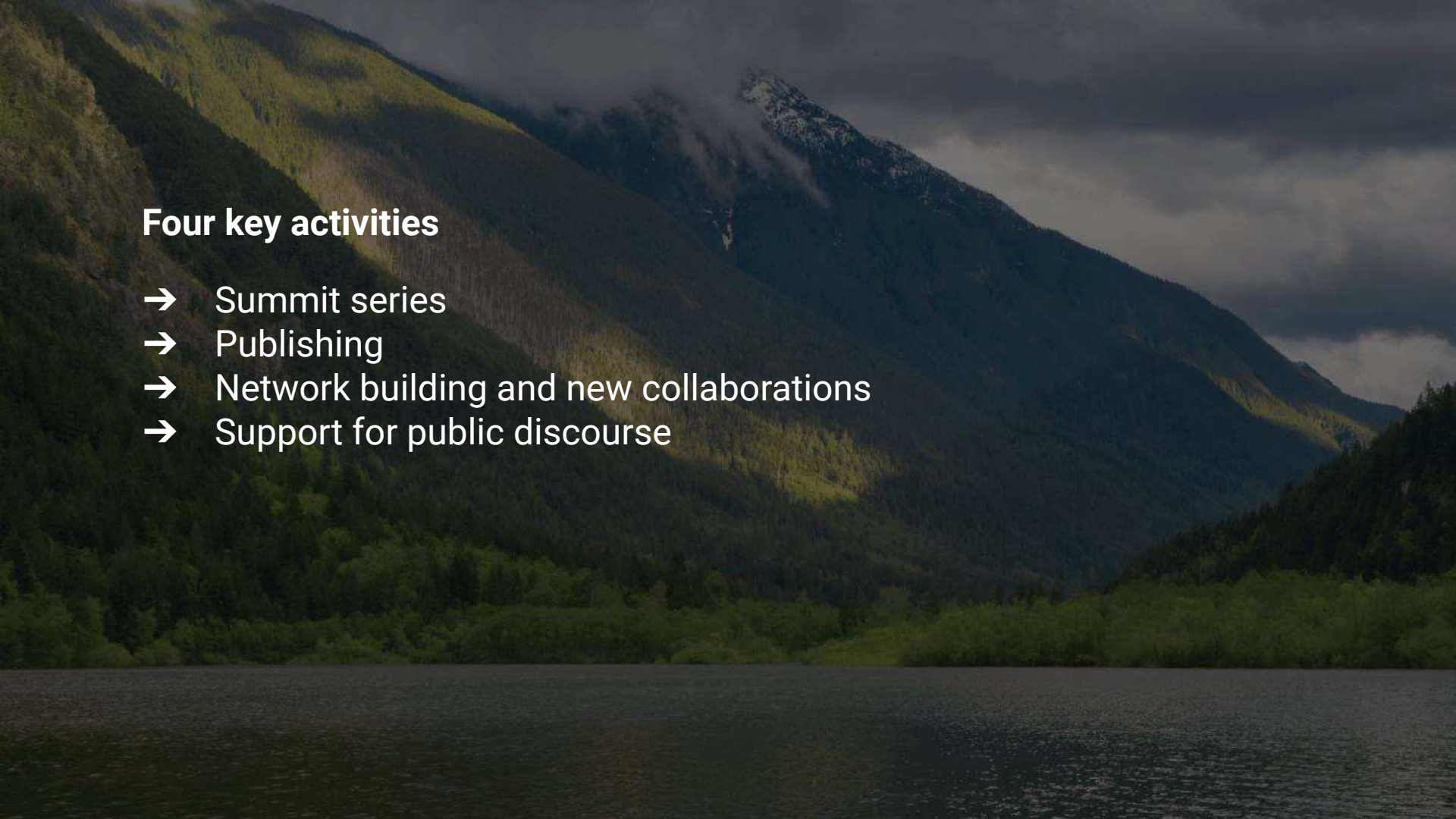
PERIMETER **PI** INSTITUTE FOR THEORETICAL PHYSICS

UNIVERSITY OF
WATERLOO

WGSI creates the conditions for <u>collective global action</u>. We take on the world's most pressing challenges by bringing together brilliant minds and <u>offering the time and space for unexpected connections to emerge</u>.

CATALYSTS FOR COLLECTIVE ACTION

Four key activities

➜ Summit series
➜ Publishing
➜ Network building and new collaborations
➜ Support for public discourse

Generation SDG

A vision for a community-driven approach to the SDGs.

1. Ecosystem mapping and community planning
2. Partnerships
3. Accountability
4. Funding, finance and innovation

Goal 17: Partnership

SDSN Canada is part of a global SDSN movement to build a network of universities, colleges, research centers, and knowledge institutions to promote practical solutions for sustainable development.

With over 850 participating institutions worldwide, SDSN members work together to support action-oriented research to address some of the world's most pressing problems, including the implementation of the United Nations Sustainable Development Goals (SDGs) and the Paris Climate Agreement.

1 NO POVERTY	2 NO HUNGER	3 GOOD HEALTH	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION
7 RENEWABLE ENERGY	8 GOOD JOBS AND ECONOMIC GROWTH	9 INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION
13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE AND JUSTICE	17 PARTNERSHIPS FOR THE GOALS	THE GLOBAL GOALS For Sustainable Development

17 Goals

169 Targets

232 Indicators

78 Canadian targets

↓

20 have UN data, 41 require proxy data,
17 have no identified data source

Table 1: Summary of Canada's domestic status on 73 SDG indicators[7]

Sustainable Development Goal	Moving backwards	Breakthrough needed	Acceleration needed	On track
1 Poverty		•	•	•••
2 Hunger and food systems	•••			
3 Good health and well-being	•	••	••••••	•••
4 Quality education	••	•		•••
5 Gender equality	•	•••••		
6 Clean water and sanitation	••	••	•	
7 Affordable and clean energy	•	•	•	•
8 Decent work and economic growth		••	•	•
9 Industry, innovation and infrastructure	•	••		
10 Reduced inequalities	•	•		
11 Sustainable cities and communities	•••			•
12 Responsible consumption and production		•••		
13 Climate action		•		
14 Life below water	•		•	••
15 Life on land		•••		•
16 Peace, justice and strong institutions	••	••	•	••
	18	26	12	17

Each dot represents a SDG target identified by McArthur & Rasmussen as an assessable domestic target for Canada.

Canadian Indicator Framework - Statcan

30 "ambitions", 16 targets, 82 indicators

THE GLOBAL GOALS
For Sustainable Development

Targets include

SDG 1:
- 50% Reduction in the poverty rate for 2015 by 2030

SDG 2:
- By 2030, support improvement in the environmental performance of the agricultural sector by achieving a score of 71 or higher for the Index of Agri-Environmental Sustainability

SDG 3:
- Percentage of Canadians aged 15 years and over who consume tobacco is less than 5% by 2035
- Early years (1–4) 180 minutes per day, children and youth (5–17) 60 minutes per day, adults (18–64) 21 minutes per day, seniors (65+) 21 minutes per day
- By 2025, 95% coverage all childhood vaccines; 90% coverage all adolescent vaccines, 80% coverage flu vaccine; 80% coverage 65+ years pneumococcal vaccine

SDG 6:
- By March 31, 2021, all of the long-term drinking water advisories on public systems on reserve are to be resolved
- Promote the conservation and wise use of water to achieve a 30% reduction or increased efficiency in water use in various sectors by 2025

SDG 7:
- By 2030, 600 petajoules of total annual energy savings will be achieved as a result of adoption of energy efficiency codes, standards and practices from a baseline savings of 27.4 petajoules in 2017 to 2018
- By 2030, 90% and in the long term, 100% of Canada's electricity is generated from renewable and non-emitting sources

Targets include

SDG: 9
- By 2021, 90% Canadian homes and small businesses have access to speeds 50+ Mbps download, 10 Mbps upload and unlimited data

SDG 11:
- Reduce chronic homelessness by 50% by fiscal year 2027-2028

SDG 12:
- Zero-emission vehicles represent 10% of new light duty vehicle sales by 2025, 30% by 2030 and 100% by 2040

SDG 13:
- By 2030, reduce Canada's total greenhouse gas emissions by 30%, relative to 2005 emission levels; greenhouse gases in PSPC Crown-owned building portfolio, excluding housing, by March 31, 2030

SDG 14:
- By 2020, 10% of coastal and marine areas are conserved through networks of protected areas and other effective area-based conservation measures
- All major fish and invertebrate stocks are managed and harvested at levels considered to be sustainable, starting at 96% in 2016, by 2020

SDG 15:
- By 2020, at least 17% of terrestrial areas and inland water are conserved through networks of protected areas and other effective area-based conservation measures

Voluntary Local Review

Voluntary Local Reviews (VLR), a regional parallel to the Voluntary National Review (VNR), are an emerging process by which sub-national governments can report on their progress on Agenda 2030 and the Sustainable Development Goals (SDGs). Like the VNR, the goal of the VLR is to share strategies, successes and failures to assist other communities in their pursuit of the SDGs.

Voluntary Local Review

As of August 2019, the UN SDG Knowledge platform hosts [15 reports from local authorities](). While VNRs focus on a specific subset of Goals each year (e.g. 2019's focus goals are 4, 8, 10, 13, 16 and 17), VLRs tend to focus on the Goals that map to existing community priorities.

VLR Pilot

Working with London Poverty Research Council, [SDSN Canada's emerging SDG Cities Index](#), the International Institute for Sustainable Development's (IISD) [Tracking Progress](#) tool, and Impact Bridges, Waterloo Global Science Initiative is aiming to support a small group of Ontario communities (Cambridge, Kitchener & Waterloo, London, and Peterborough) in piloting VLRs that use localized indicators.

VLR Pilot

Project benefits:

- Investment in data ecosystem for public good
- Leverages existing plans & theories of change to build more effective, action-based plans
- Capacity building for local stakeholders in using data for evidence-based actions
- Robust knowledge sharing opportunity with built-in tools
- Support system of invested partners from academia, civil society

VLR Pilot

Project benefits:

- Committed community and institutional stakeholders: United Way, Community Foundations of Canada, Federation of Canadian Municipalities, University of Waterloo, Western University, International Institute for Sustainable Development, etc.
- Committed and interested funding partners: Employment & Social Development Canada, MITACS, Ontario Trillium Foundation, etc.

Next Steps

1. Engage in further conversation with WGSI & SDSN Canada
2. Determine preparedness to be involved
3. Stay tuned for a pilot project google "portal"

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