



- \$4.5M CA project, funded by the Social Sciences and Humanities Research Council of Canada
- Aims to increase the *quality* and *quantity* of climate change communication and education (CCE) globally
- A global collaboration with 100+ partners and collaborators, with UNFCCC, UNESCO, IPCC, & GEM Report on Advisory Committee
- ‘Strategic methodology,’ with three axes of activity
- Activities include 80 country profiles with the UNESCO GEM Report, 30 funded case studies, and global indicators and databases

# Global Indicator Methodology

1. Define quality ACE for your setting (e.g., regional and cultural considerations, climate justice, research-based)
2. Identify potential indicators (e.g., through brainstorming, document review, stakeholder consultations)
3. Identify potential data to use (e.g., third party data sources, creating new data, adding ACE modules to existing tools)
4. Prioritize highest quality data sources within capacity constraints (e.g., geographic coverage, cost, technical capacity, use for decision-making)
5. Create or access indicators for prioritized data sources for prioritized data sources

## PRIMARY / SECONDARY EDUCATION

### Students' Self-declared Knowledge of Climate Change

60 Countries Covered  
Student Assessment Data  
Outcome Indicator  
Data from PISA OECD, 2018



### Integration of Climate Change in National Curriculum Policy

158 Countries Covered  
Keyword Analysis Data  
Input Indicator  
Data from MECCE Project, 2000-2022



## TRAINING

### Integration of Climate Change in Technical / Vocational Training Policy

102 Countries Covered  
Keyword Analysis Data  
Output Indicator  
Data from MECCE Project, 2000-2022



# Global Indicators of Quality CCE

## HIGHER EDUCATION

### Extent of Climate Change focus in Research Publications

197 Countries Covered  
Research Publications Data  
Output Indicator  
Data from Web of Science, 2000-2020

## PUBLIC AWARENESS

### Perceived Impact of Climate Change on Future Generations

103 Countries Covered  
Survey Data  
Outcome Indicator  
Data from Meta Data for Good, 2022



## PUBLIC ACCESS TO INFORMATION

### Availability of Information on Climate Change Impacts

105 Countries Covered  
Multi-level Desk Research Data  
Outcome Indicator  
Data from Global Data Barometer, 2019-2021



### Perception of Climate Change as a Serious Threat

139 & 118 Countries Covered  
Survey Data  
Outcome Indicator  
Data from World Risk Poll, 2019 & 2021

### Perceived Frequency of Exposure to Climate Change Information

103 Countries Covered  
Survey Data  
Outcome Indicator  
Data from Meta Data for Good, 2022



## PUBLIC PARTICIPATION

### Adult Willingness to Participate in Climate Action

103 Countries Covered  
Survey Data  
Outcome Indicator  
Data from Meta Data for Good, 2022

# Interactive Data Platform

[www.mecce.ca](http://www.mecce.ca)

@SEPNetwork

#MECCE



[Select a country and click here for details](#)

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### The ACE/CCE Elements

EDUCATION

COMMUNICATION

Primary/Secondary Education

Public Awareness

Higher Education

Public Access to Information

Training

Public Participation

### The ACE/CCE Indicators

|  |   |
|--|---|
| Select all   | Perceived impact of climate change on future generatio... |
| Integration of climate change in national curricul...    | Perception of climate change as a serious threat          |
| Students' self-declared knowledge on climate chan...     | Availability of information on climate change impacts     |
| Extent of climate change focus in research publicatio... | Public perception of frequency of exposure to cl...       |
| Integration of climate change in technical/vocatio...    | Adult willingness to participate in climate action        |

### Global View

UNFCCC Negotiating Group: All
UNFCCC Party Type: All
SDG Region: All

#### Countries' Average Indicator Level

|                       |  |
|-----------------------|--|
| Marshall Islands      |  |
| Monaco                |  |
| Andorra               |  |
| Barbados              |  |
| Palau                 |  |
| Saint Kitts and Nevis |  |
| Tonga                 |  |
| Tuvalu                |  |
| Zimbabwe              |  |
| USA                   |  |
| Djibouti              |  |
| Fiji                  |  |
| Gambia                |  |
| United Kingdom        |  |
| Chile                 |  |
| Canada                |  |
| Germany               |  |
| Ghana                 |  |
| Kenya                 |  |
| Spain                 |  |
| Bahamas               |  |
| Bhutan                |  |

| ACE/CCE Indicator  | Level | Value | Year |
|--|-------|-------|------|
| Integration of climate change in national curriculum policy              | 2.5   | 63.9  | 2022 |
| Students' self-declared knowledge on climate change                      | 2.1   | 31.6  | 2018 |
| Extent of climate change focus in research publications                  | 3.1   | 67.5  | 2019 |
| Integration of climate change in technical/vocational training policy    | 1.8   | 47.1  | 2022 |
| Perceived impact of climate change on future generations                 | 3.3   | 55.8  | 2022 |
| Perception of climate change as a serious threat                         | 3.0   | 48.9  | 2021 |
| Availability of information on climate change impacts                    | 2.4   | 26.2  | 2021 |
| Public perception of frequency of exposure to climate change information | 1.8   | 26.1  | 2022 |
| Adult willingness to participate in climate action                       | 2.1   | 33.5  | 2022 |