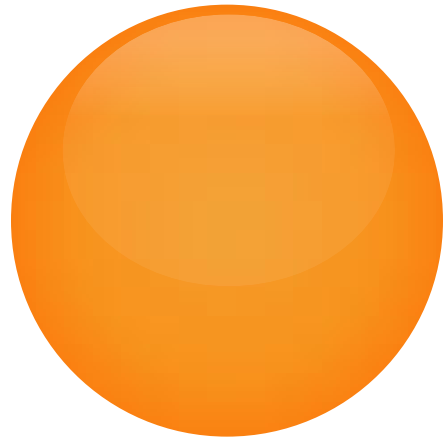


Advancing adaptation : Testing a portal of adaptation options





OUR PROJECT



Project Overview - Objectives

1. Define a practical and comprehensive set of criteria for successful adaptation
2. Construct a flexible, searchable database of adaptation options
3. Test the functionality and usefulness of the tool with practitioner, academic, and broader audiences
4. Synthesize findings regarding the characteristics of adaptation options for publication

TARGET AUDIENCE

- Local government staff and officials (planners, engineers, elected officials, etc.)
- Researchers
- Other donor agencies

Project Overview - Team

ICLEI Canada

Ewa Jackson*

Megan Meaney

Leya Barry

Holly Vaughan

Hana Lapp

Christina Schwantes

University of Waterloo

Dr. Sarah Burch**

Dr. Daniel Scott**

Dr. Marta Berbes (Post Doc)

Dr. Carrie Mitchell

Sarah Brown

Dr. Johanna Wandel

Dr. Derek Armitage

Dr. Nandita Basu

Marina Jozipovic (MA student)

Paulina Rodriguez (MA student)

Julie Belanger (MA student)

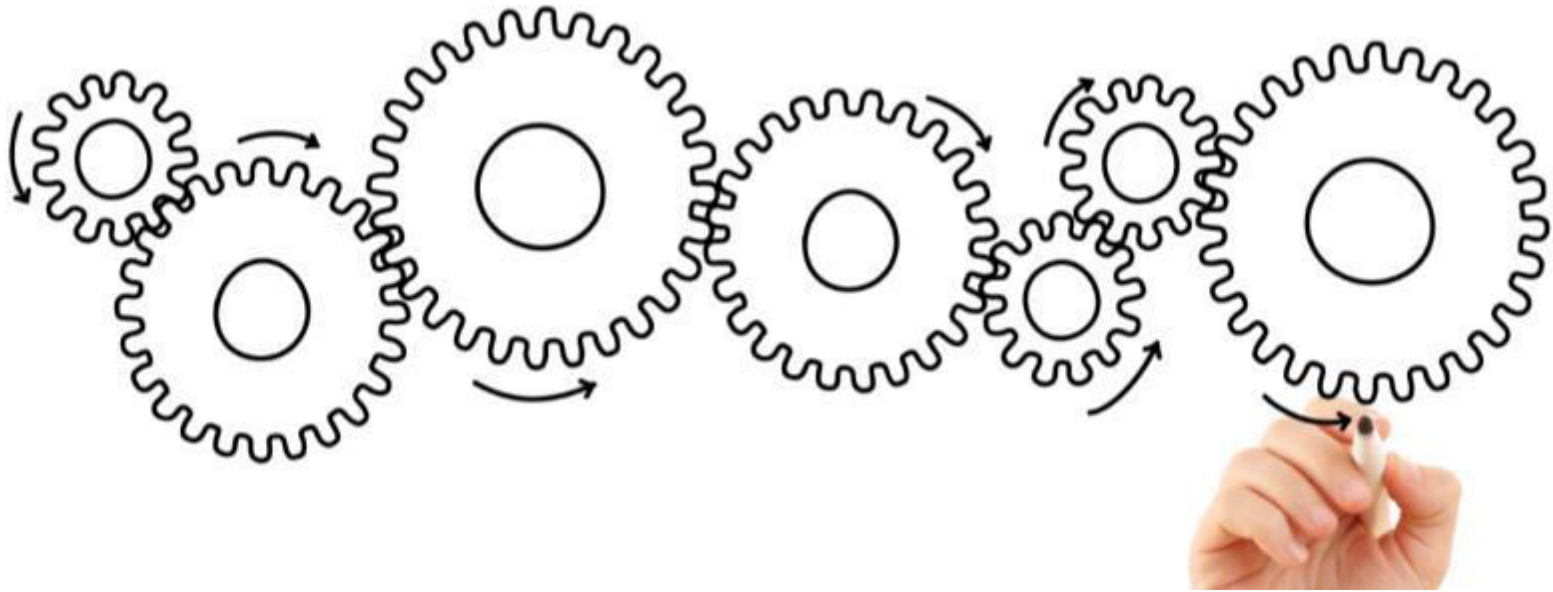
Maxwell Hartt (PhD candidate)

Consultants

Link Digital

Patrick Driscoll
(Aalborg University)

Our Approach



**Phase 1:
Conceptual
& theoretical
framework**

**Phase 2: Data
collection**

**Phase 3: Data
analysis**

**Phase 4:
User
participation**

**Phase 5:
Platform
developmen
t**

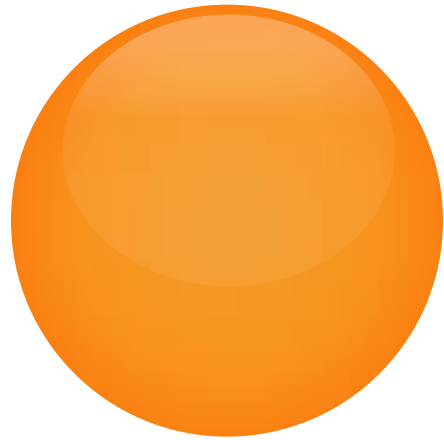
**Phase 6:
User testing**

**Phase 7:
Research &
synthesis**

Ongoing Collaboration and Consultation with IDRC

Review of existing climate change related databases

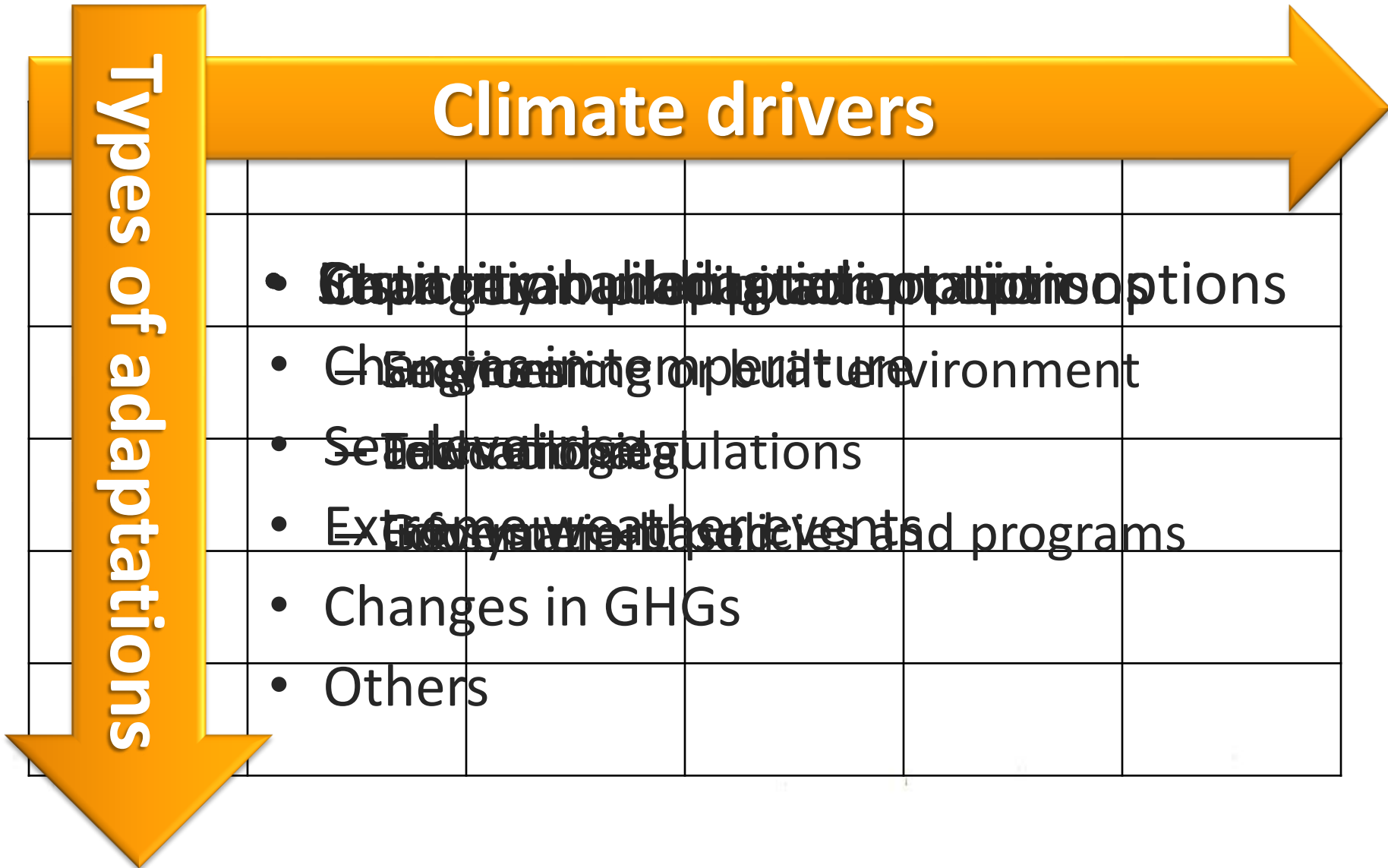
Adaptation Clearinghouse
Adaptation Community
Adaptation Learning Mechanism
Adaptation Scotland
Adaptation tools for public officials
Africa Adapt
Africa Climate Exchange
African Climate Portal
Applied Geoscience and Technology Division
Asia Pacific Adaptation Network
Asian Cities Climate Change Resilience Network
AURIN
CABE
Caribbean Community Climate Change Centre
CASES
Ci:grasp (PIK)
Circle 2 Climate Adaptation Infobase
Climate Adaptation Knowledge Exchange
Climate Adaptation Navigator
Climate Change Adaptation
Climate Change Adaptation Database: Integrating Biodiversity into Climate Change Adaptation Planning
Climate Change Knowledge Navigator
Climate Change Knowledge Portal
Climate Compatible Development Tools
Climate Information Platform
Climate Prep
Climate Smart Planning Platform
Climate.gov
Coastal Climate Adaptation
Eldis Community Based Adaptation Exchange
European Climate Adaptation Platform
Evidence and Lessons from Latin America
Global Climate Change
Green and blue space
Green Growth Knowledge Platform
IDRC Digital Library
India Climate Portal
Latin American Platform on Climate
Low Emission Development Strategies
National Compendium of Water Adaptation Knowledge
Natural Resources Canada Adaptation Library
Nepal Climate Change and Development Portal
Networks of Risk Management and CCA
Pacific Climate Futures
Pacific Islands Climate Change Virtual Library
Private Sector Initiative- database of adaptation actions
Regional CCA Knowledge Platform for Asia
Regional Gateway for Technology Transfer and CCA in LACS
Regional Integrated Sciences and Assessments
SEA Change
Secretariat of the Pacific Regional Environmental Program
SIC Adapt!
Small Islands Developing States Network
Socio-economic Data and Applications Center
Surging Seas
The Adaptation Knowledge Platform
The REDD desk
Transboundary Waters Assessment Programme
UN Economic Commission for Latin America
UNFCCC Database on Local Coping Strategies
United Kingdom Climate Impacts Programme
We-Adapt
WRI Vulnerability & Adaptation Database



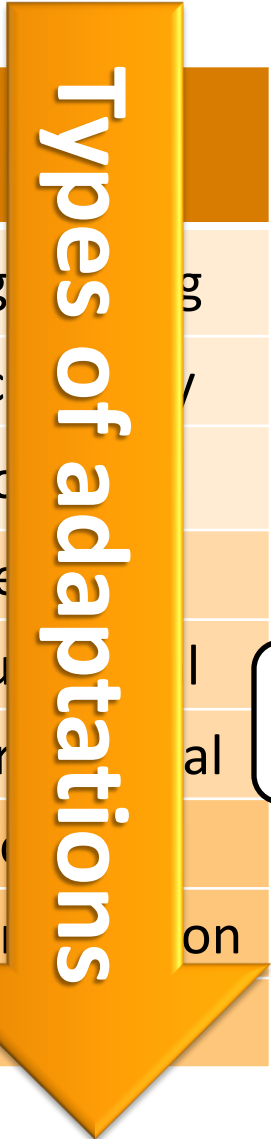
CONCEPTUAL FRAMEWORK



First Stage: The Matrix



First Round: The Matrix



| | | Ppt. | Temp. | Sea-level rise | Extreme | Other |
|-------------|----|------------------|-------|----------------|---------------------|-------|
| Engineering | g | | | Sea-wall | | |
| Technology | / | | | | | |
| Economics | | | | | Wetland restoration | |
| Sea level | | | | | | |
| Education | l | Research network | | | | |
| Information | al | | | | | |
| Economics | | | | | | |
| Law/policy | on | | | | | |
| Government | | | | | | |

Data collection

Identified adaptation option: *name of option*



Project level data

Project number
Region
Country
Responsible PO
Start/End date
- Authoring organization

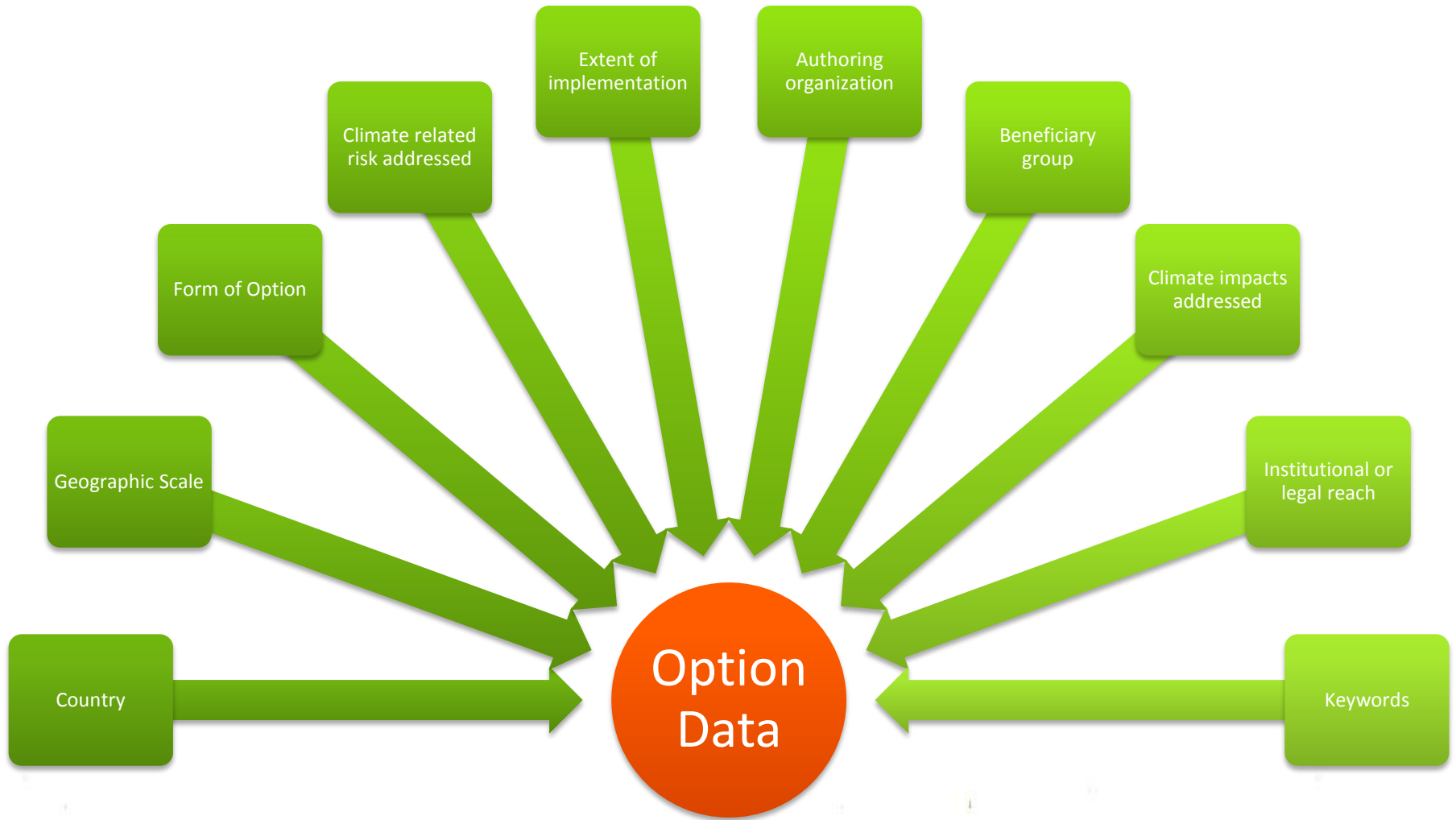
Matrix

Climate hazard addressed
Form of option

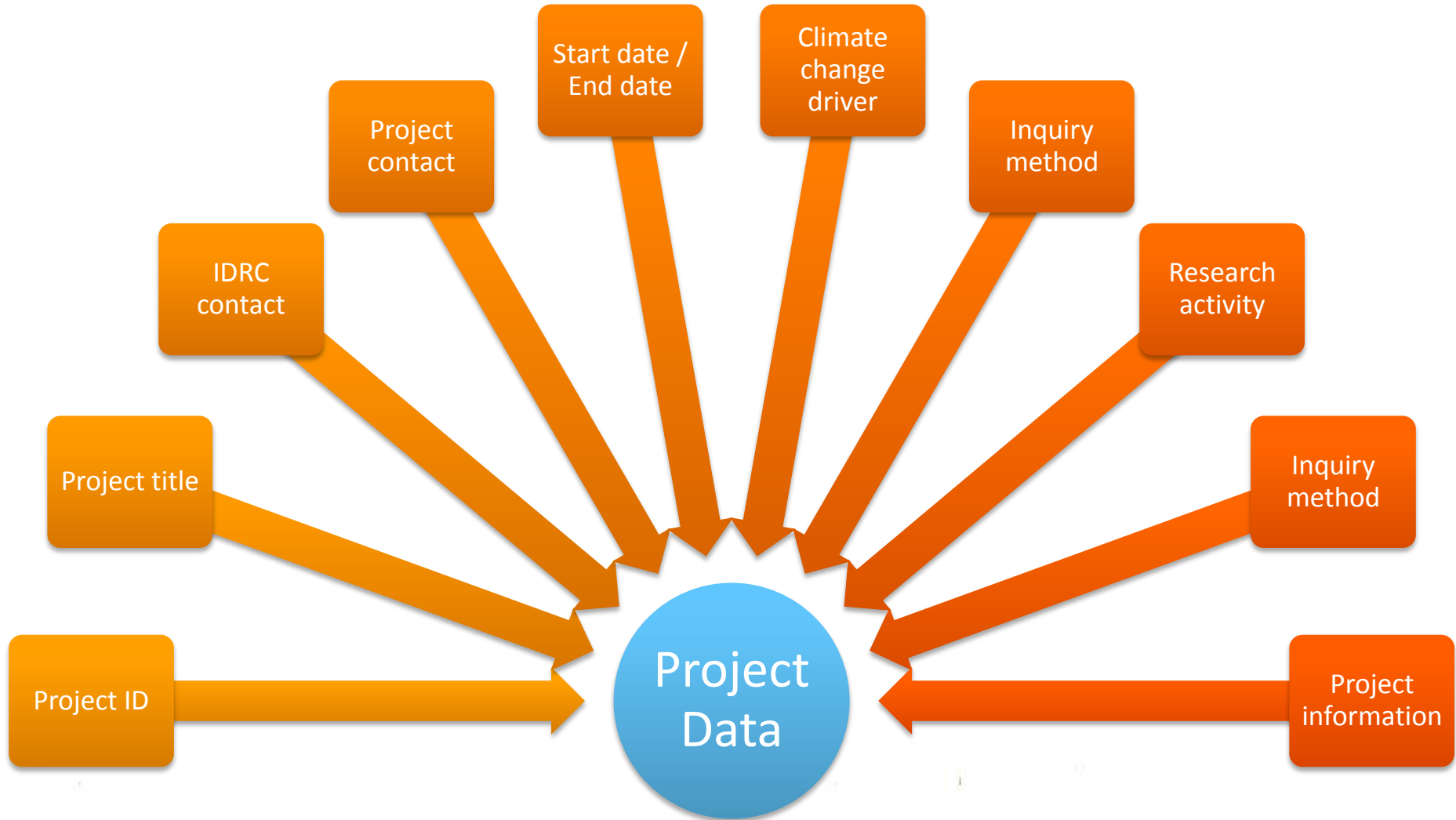
Option level data

Timing of option
Intent of option
Spatial scope
Intended beneficiary

Adaptation option



Project related data



Results from Ongoing Analysis

| | |
|---|------------|
| Total projects reviewed | 106 |
| Adaptation options identified | 493 |
| Options that had direct mention of climate change (or a changing climate) | 400 |
| Options that had sufficient data to be named | 330 |
| Adaptation options included in portal | 270 |

Adaptation Options:

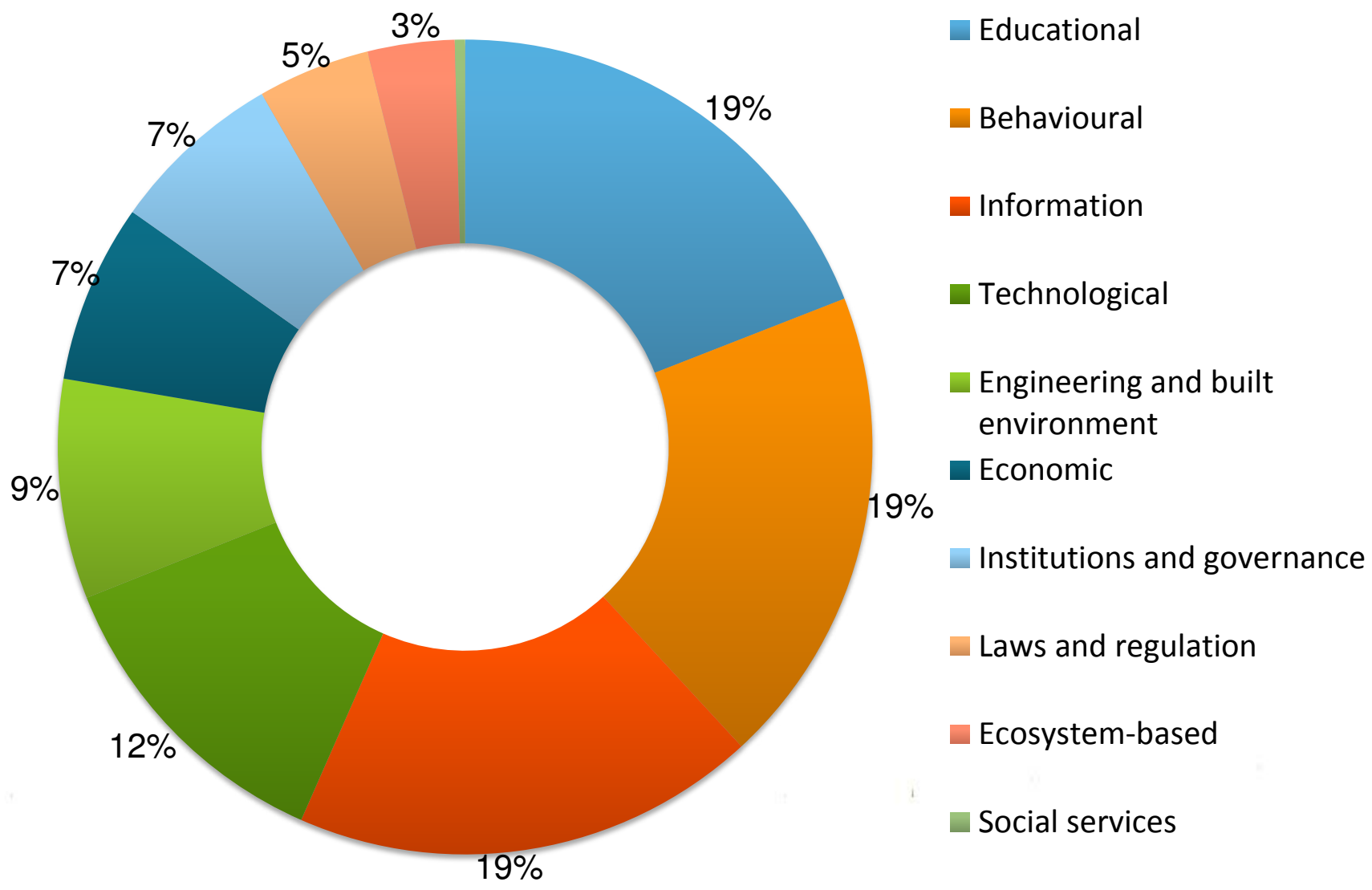


What countries do the options come from?

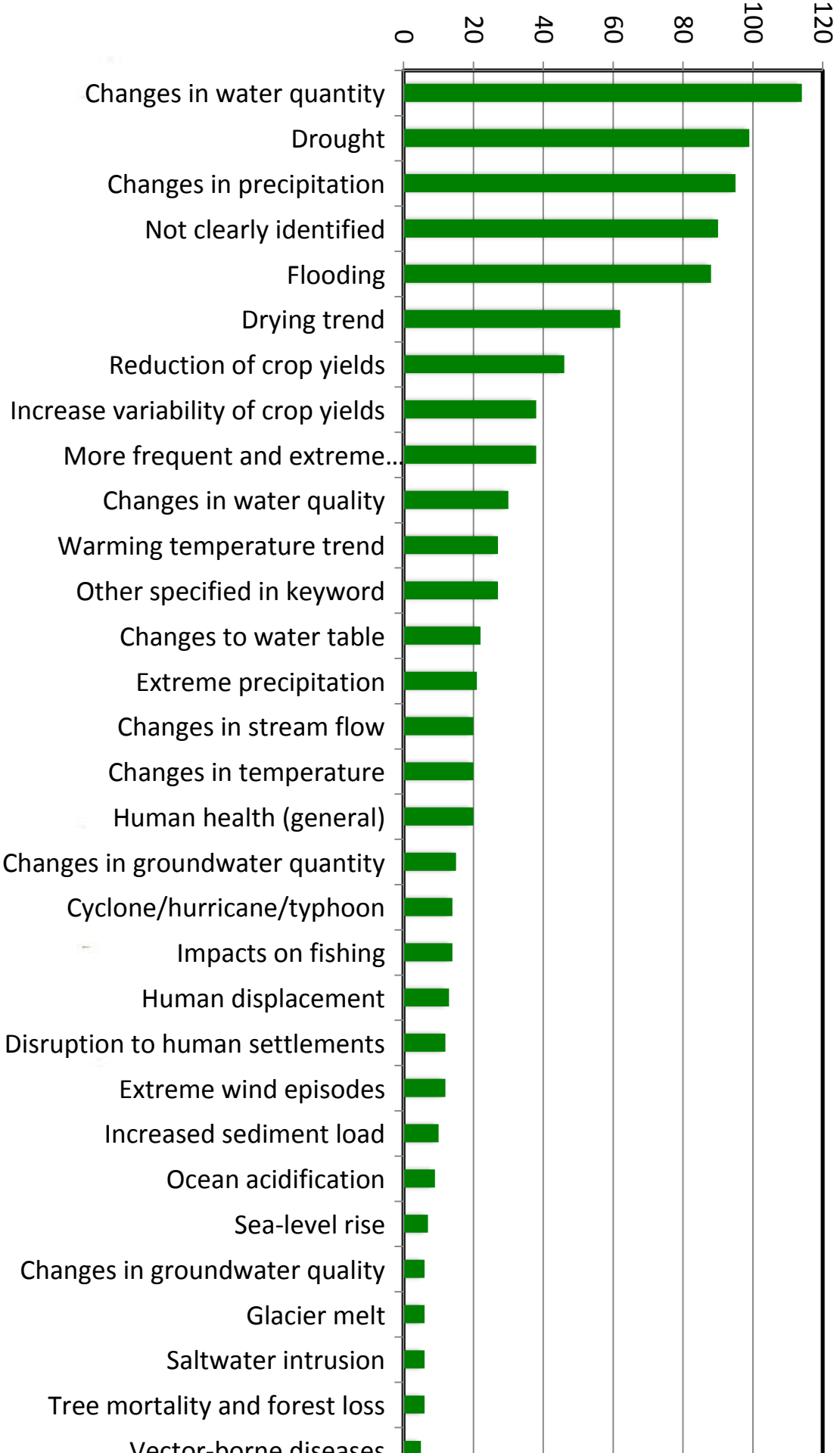


| | | | |
|---------------|----------------------|----------------|-----------------------|
| India 48 | Burkina Faso 10 | Namibia 2 | Lebanon 1 |
| Chile 38 | Peru 10 | Philippines 2 | Madagascar 1 |
| Colombia 31 | Dominican Republic 9 | South Africa 2 | Mongolia 1 |
| Argentina 28 | Ethiopia 7 | Sri Lanka 2 | Mozambique 1 |
| Bolivia 23 | Bangladesh 6 | Swaziland 2 | Palau 1 |
| Guatemala 22 | Ghana 6 | Tunisia 2 | Panama 1 |
| China 19 | Malawi 6 | Zimbabwe 2 | Spain 1 |
| Costa Rica 16 | Vietnam 6 | Bahamas 1 | Sudan 1 |
| Nepal 15 | Uganda 5 | Barbados 1 | Syria 1 |
| Uruguay 15 | Canada 4 | Bhutan 1 | Tonga 1 |
| Nicaragua 13 | Tanzania 4 | Cape Verde 1 | Trinidad and Tobago 1 |
| Mexico 12 | Angola 3 | Egypt 1 | United Kingdom 1 |
| Thailand 12 | Cambodia 3 | El Salvador 1 | Zambia 1 |
| Kenya 11 | Malaysia 3 | Eritrea 1 | Not identified 1 |
| Pakistan 11 | Mali 3 | Fiji 1 | |
| Senegal 11 | Indonesia 2 | Honduras 1 | |
| Benin 10 | Lesotho 2 | Jamaica 1 | |
| Brazil 10 | Morocco 2 | Laos 1 | |

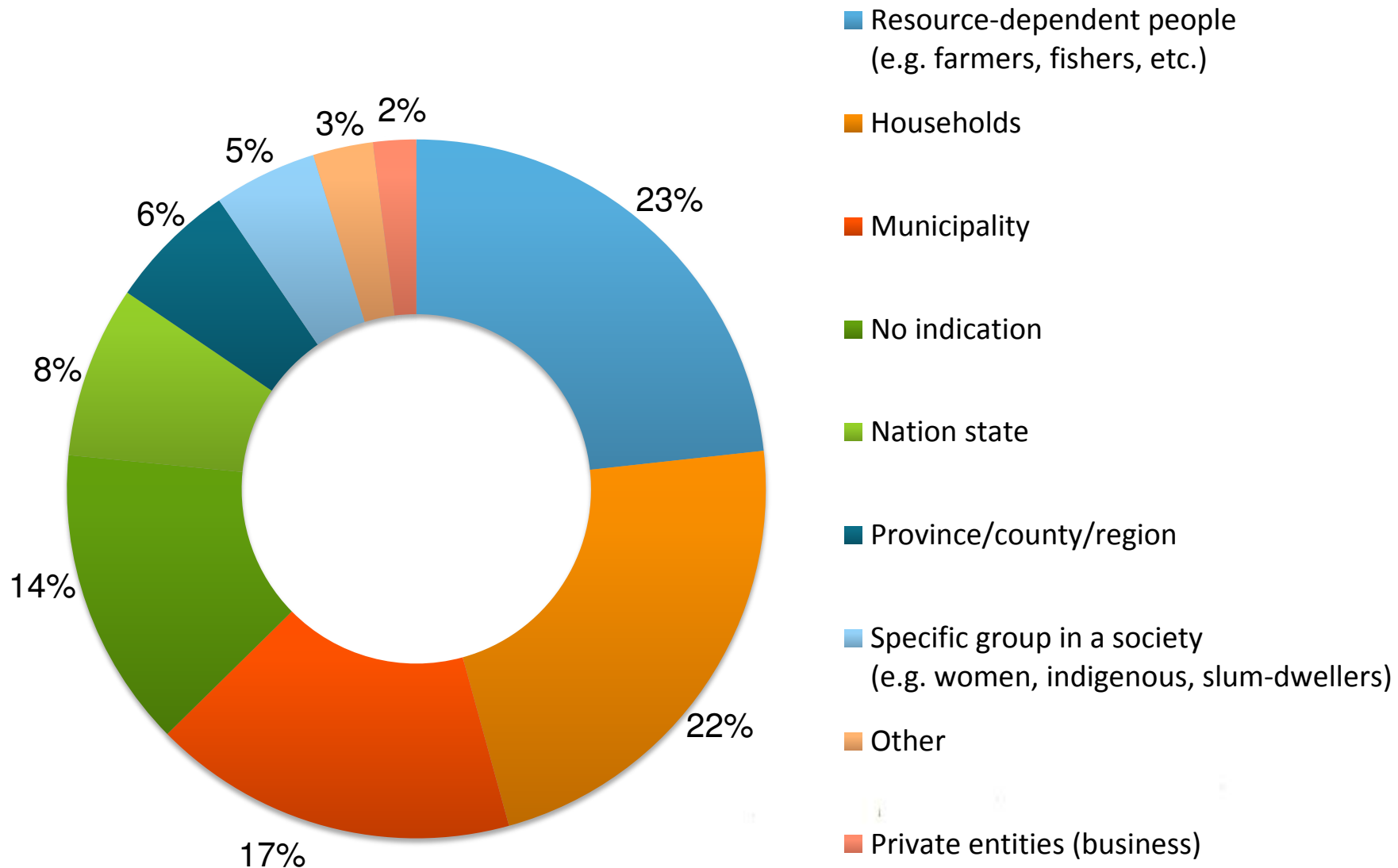
What types of adaptation options are included?



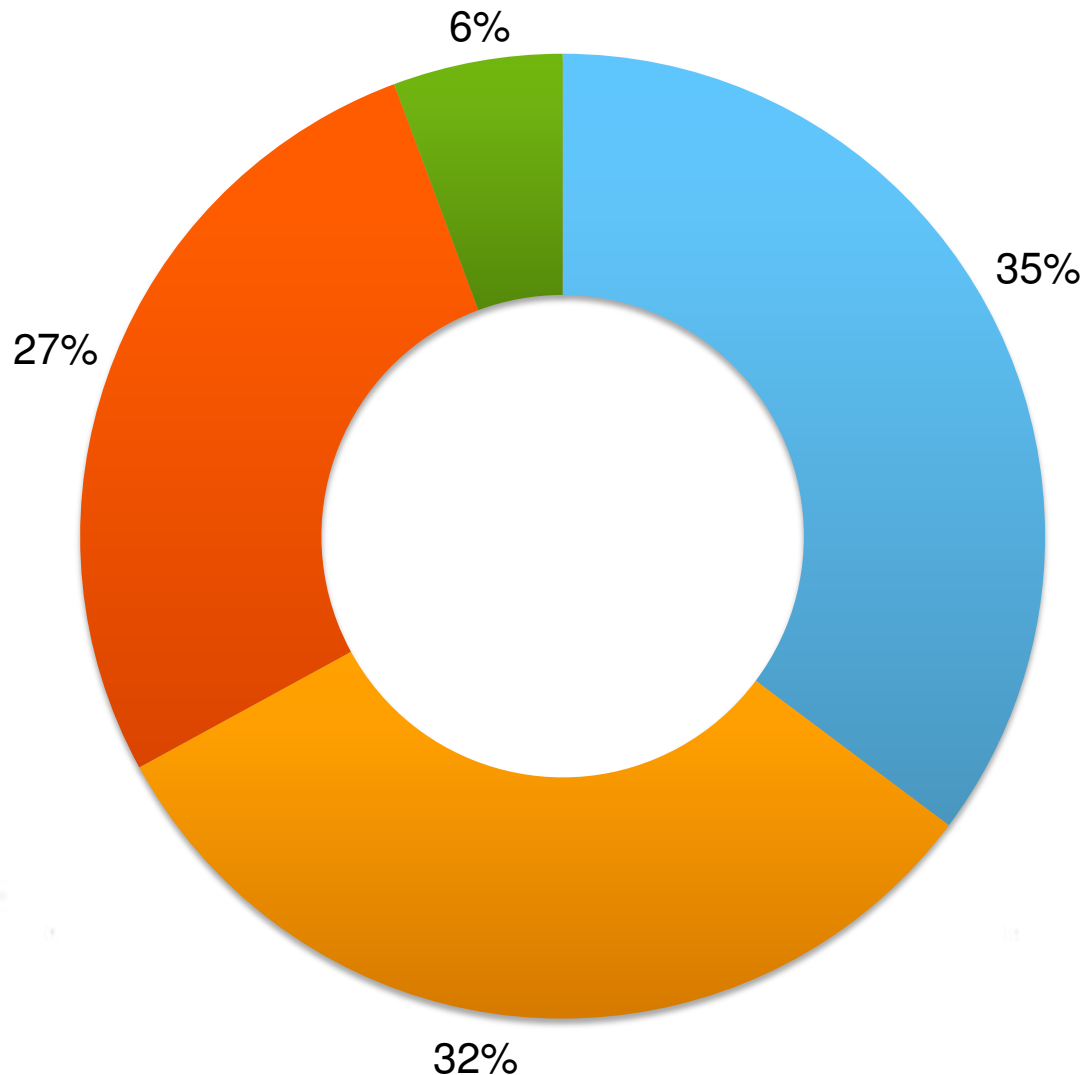
What climate related risks do the options address ?



Who are the intended beneficiaries of the options?



Extent of implementation

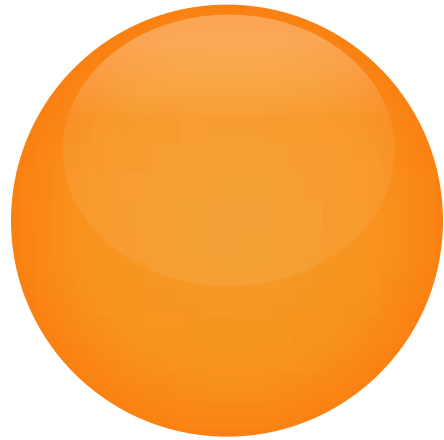


■ The option has been identified and implemented with no indication that it will continue beyond the context of the project

■ The option exists in a real setting and was not created as part of the project

■ The option has been recommended within the project report but has not been implemented

■ The option has been identified and implemented with indication that it will continue beyond the context of the project



PORTAL DEMONSTRATION



Today's Activity: User Scenarios

Scenario One - I am located in Argentina and am looking for adaptation options from this region. I am particularly interested in options to address flooding or the increased frequency of rain.

Scenario Two - I'm looking for strategies that help to address drought. I would like examples from around the world, but would prefer options that benefit households. I am interested in both technological and economic options when researching these solutions.

Scenario Three - I am a municipal planner in Hanoi and I am interested in learning about adaptation options that are targeted at a community scale. I am more interested in the types of options that are being implemented than the specific impacts that they address.

Scenario Four - I am conducting research – focusing on extreme weather events - into how resource dependent communities (as the intended beneficiaries) can be complimented by efforts that address climate change adaptation.

Scenario Five - I am an academic researcher located in the eastern region of India. Recently, my region has experienced an increase in the frequency of cyclones. Therefore, I am searching for adaptation options identified by other academic authors that can be implemented on a community scale.

Scenario Six - My community is experiencing changes in streamflow as a result of climate change-related impacts. I want the option to incorporate the natural environment when addressing this challenge, and therefore I would prefer an eco-system based approach.

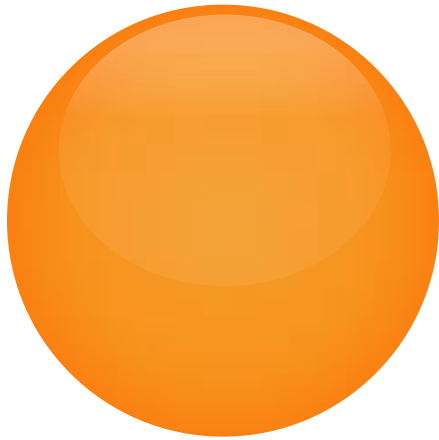
Next steps and key dates

- Continue beta testing
 - Resilient Cities Conference (Bonn, Germany)
 - IDRC staff and grantees
 - Two local workshops in India and Philippines
- Continue to refine and add to option data (with assistance of project grantees)
- Retest data with key stakeholders (late-Fall 2015)
- Launch at Local Government Day, COP 21 Paris (December 2015)

Call for Names for Portal!

- If you have a suggested name for the portal (be creative!) please write it on your business card and submit. Prize to be won!

THANK YOU!



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