The Global Adaptation Atlas

Establishing Priorities for Research, Policy and Action on Adaptation

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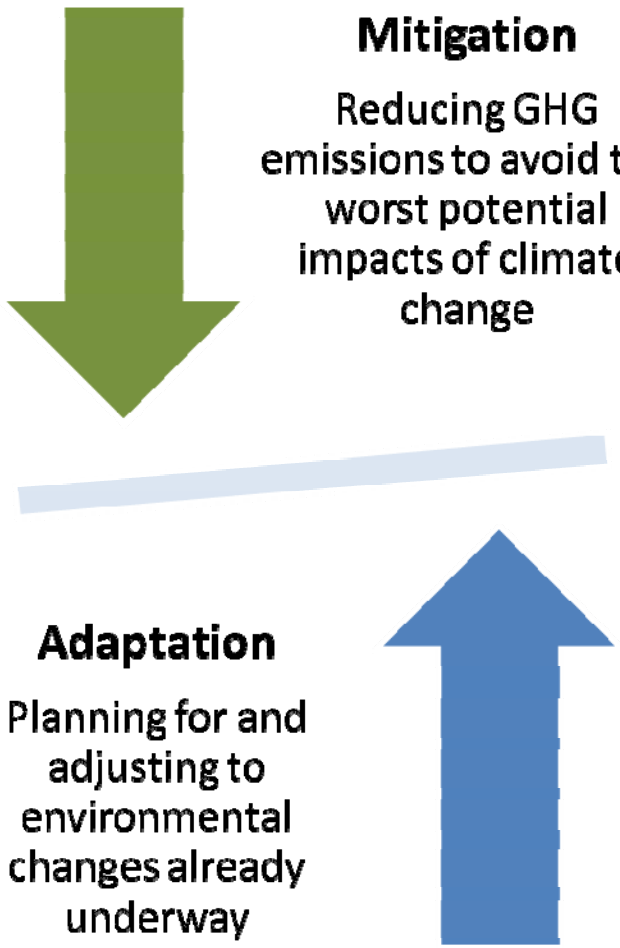
ADAPTATION ATLAS

The Challenge of Adapting Well

- Adaptation is gaining prominence in the research, policy and development fields.
- Emissions reductions anywhere "count" everywhere, but adaptations must be locally relevant *and* broadly coordinated
  - Complementary, not competing objectives
  - Growing push to set priorities for adaptation funding



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Mapping is the Missing Link

- **Geography and spatial information are common threads connecting impact science and policy**
  - Climate impacts are site and population-specific
  - Populations in greatest need are often least able to adapt
- **Need for coordination of scientific research, policy and on-the-ground activity**
  - Maps showing current and projected climate impacts and adaptation activity can help in setting strategy for interventions and investments.
    - This is the aim of the Adaptation Atlas.

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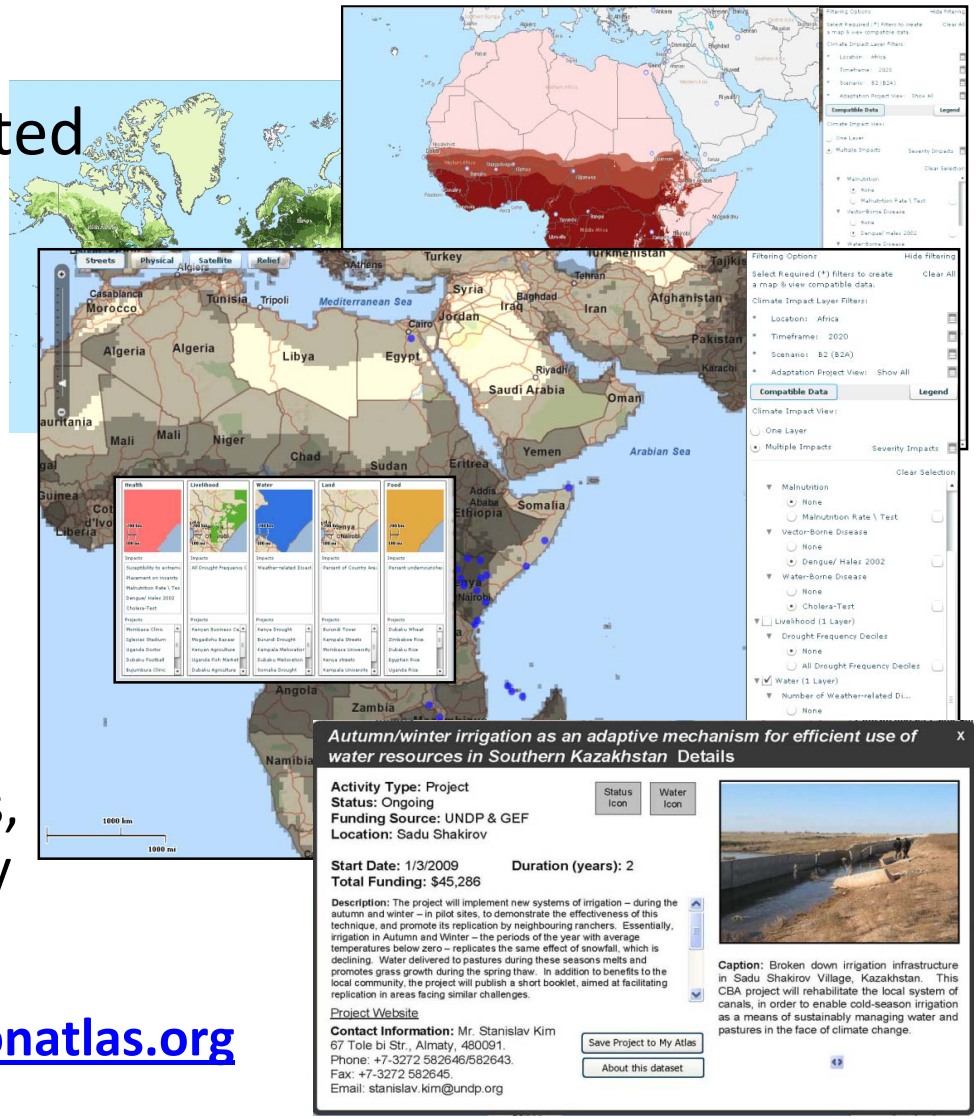
What is the Adaptation Atlas?

- Web-based application enables user driven, dynamically generated maps of climate impacts and adaptation activities:
  - Database of impacts from peer reviewed climate studies
  - Repository of adaptation projects
  - Data available for download and uploads of new data supported
  - User can select different locations, timeframes, scenarios and overlay resulting data across sectors



Beta version is available at www.adaptationatlas.org

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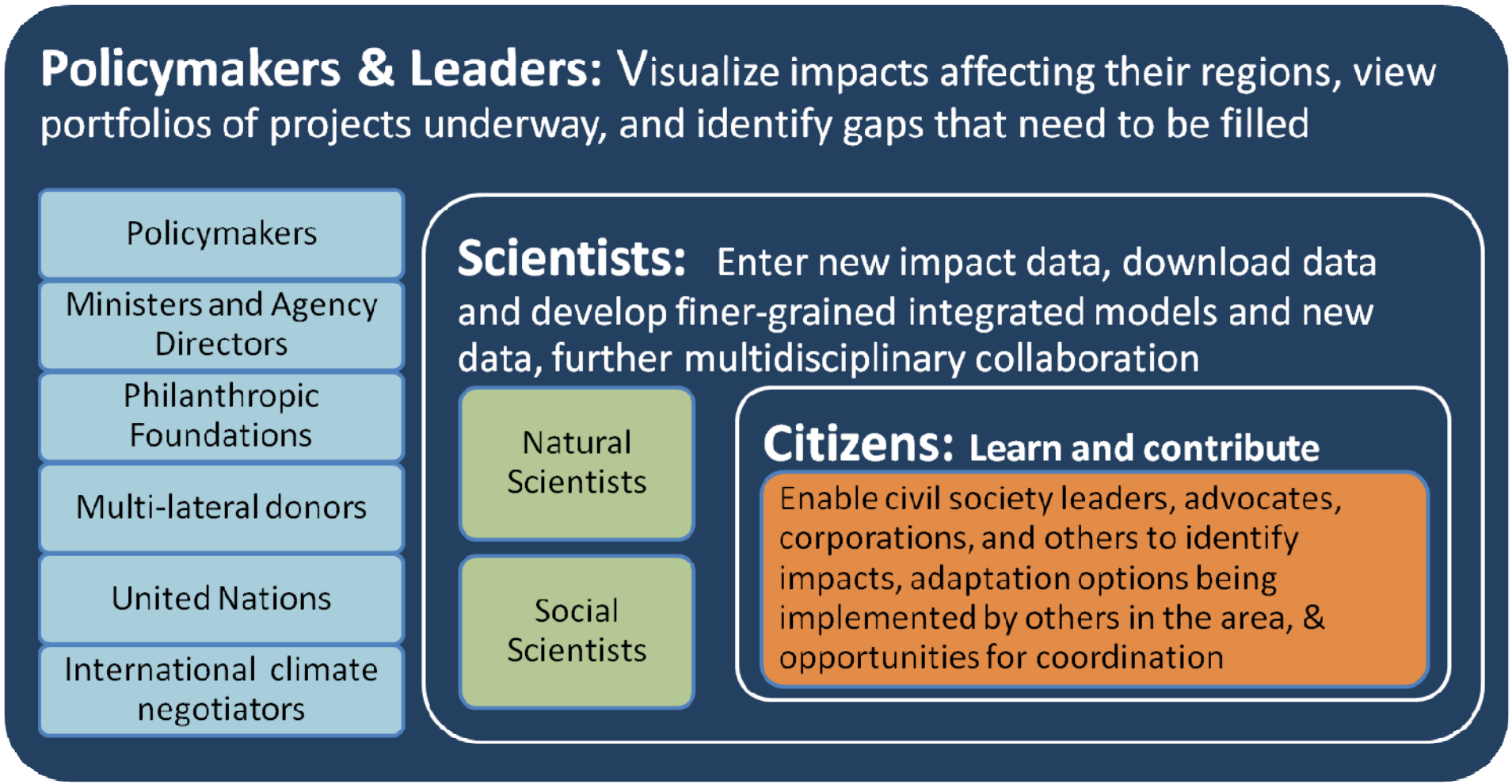
Who Will Use the Atlas and for what purpose?



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Building Blocks

1 Consolidating science on impacts	• Identify gaps in science across disciplines, regions, scales • Highlight areas for new integrated analysis
2 Mapping on-the-ground adaptations	• Facilitate continuous data collection on adaptation funding • Create a comprehensive, searchable project database
3 Creating a tailored outreach vehicle	• Create key user profiles and provide recommendations • Collect and exchange local lessons and global best practices
4 Sustaining long-term evaluation	• Develop a spatial data archive on impacts and activities • Track changes in projected impacts & adaptations over time

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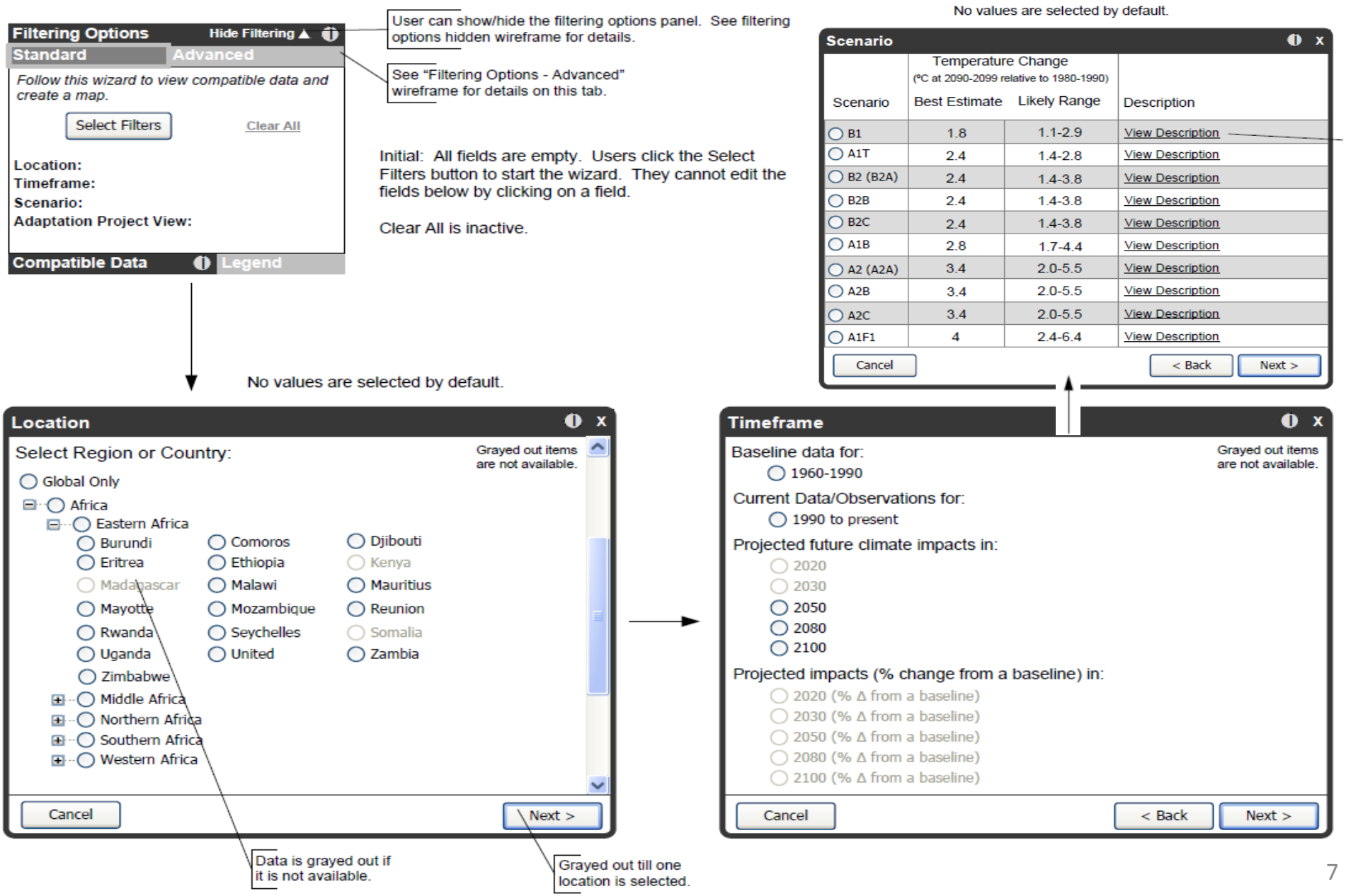
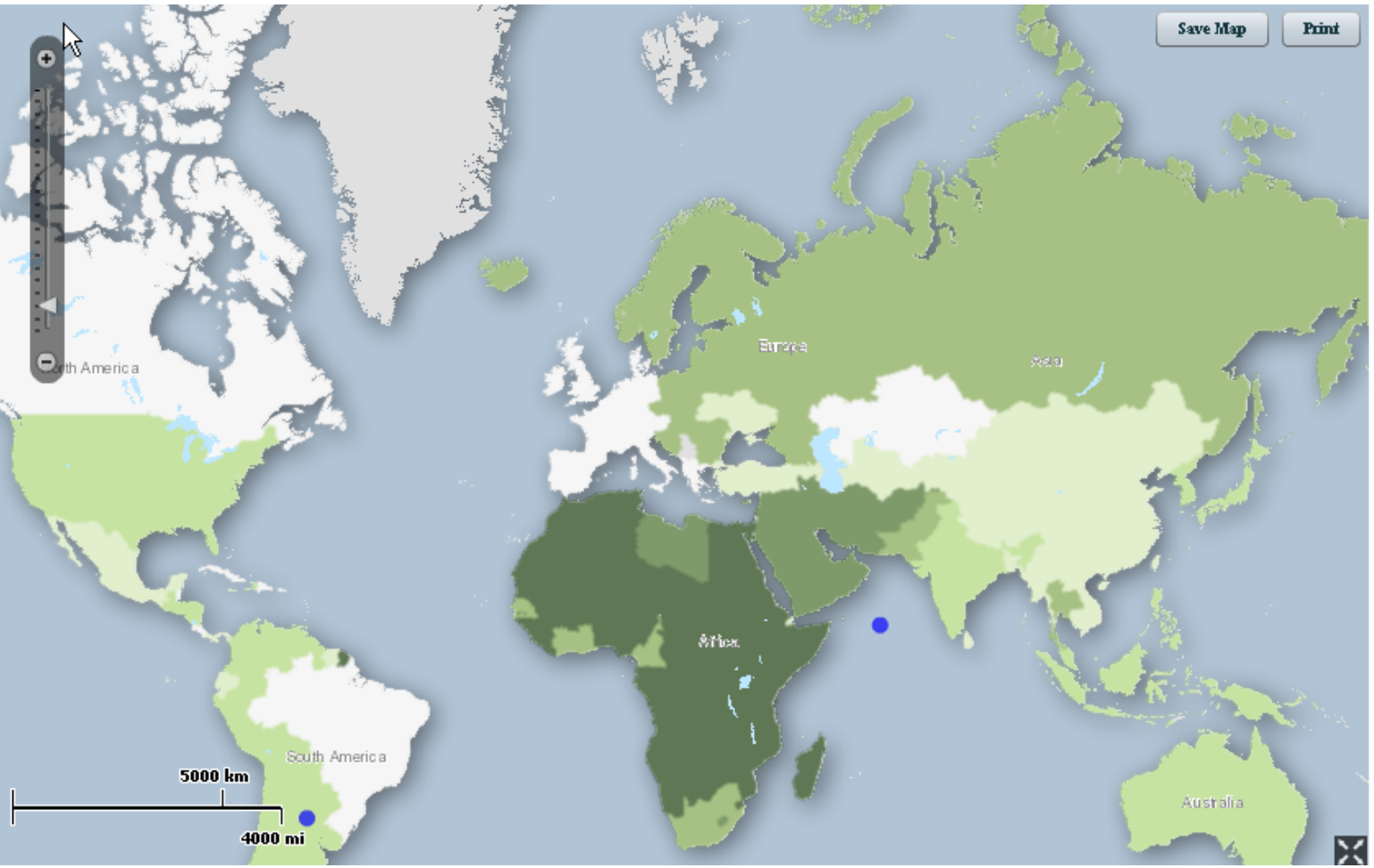
Creating maps: Three mouse clicks to find data!



Projected Change in Maize Production by 2080



Filtering Options — Hide Filtering Options

Climate Impact Filters

Location: Global

Timeframe: 2080 (% change from a basel...

Projection Scenario: A1F1

Adaptation Activity Filters

Activity Type: Development
Population Served: Community
Funding Source: Foundation

Impacts | Activities | Legend

Climate Impact View: Clear Sel

- One Layer
- Multiple Impacts

Filter by Severity

- Food (3 Impacts)
  - Maize/Corn
    - Change from 1970-2000 AVG, T/ha...
  - Rice
    - Change from 1970-2000 AVG, T/ha...
    - Change from 1990 Baseline,T/ha, ...
  - Wheat
    - Change from 1990 Baseline,T/ha, ...
    - Change from 1970-2000 AVG, T/ha...
- Land (1 Layer)

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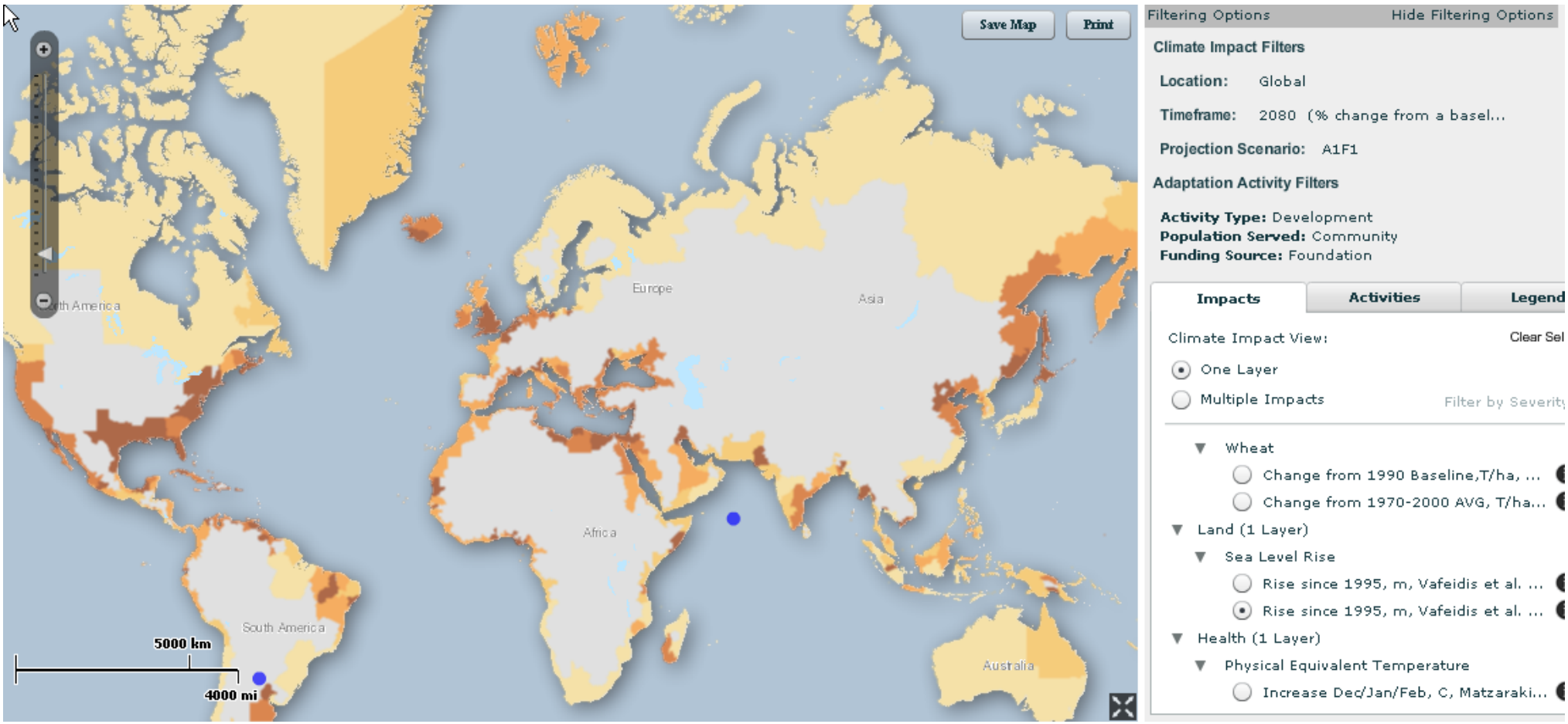
Projected Change in Sea Level Rise by 2080



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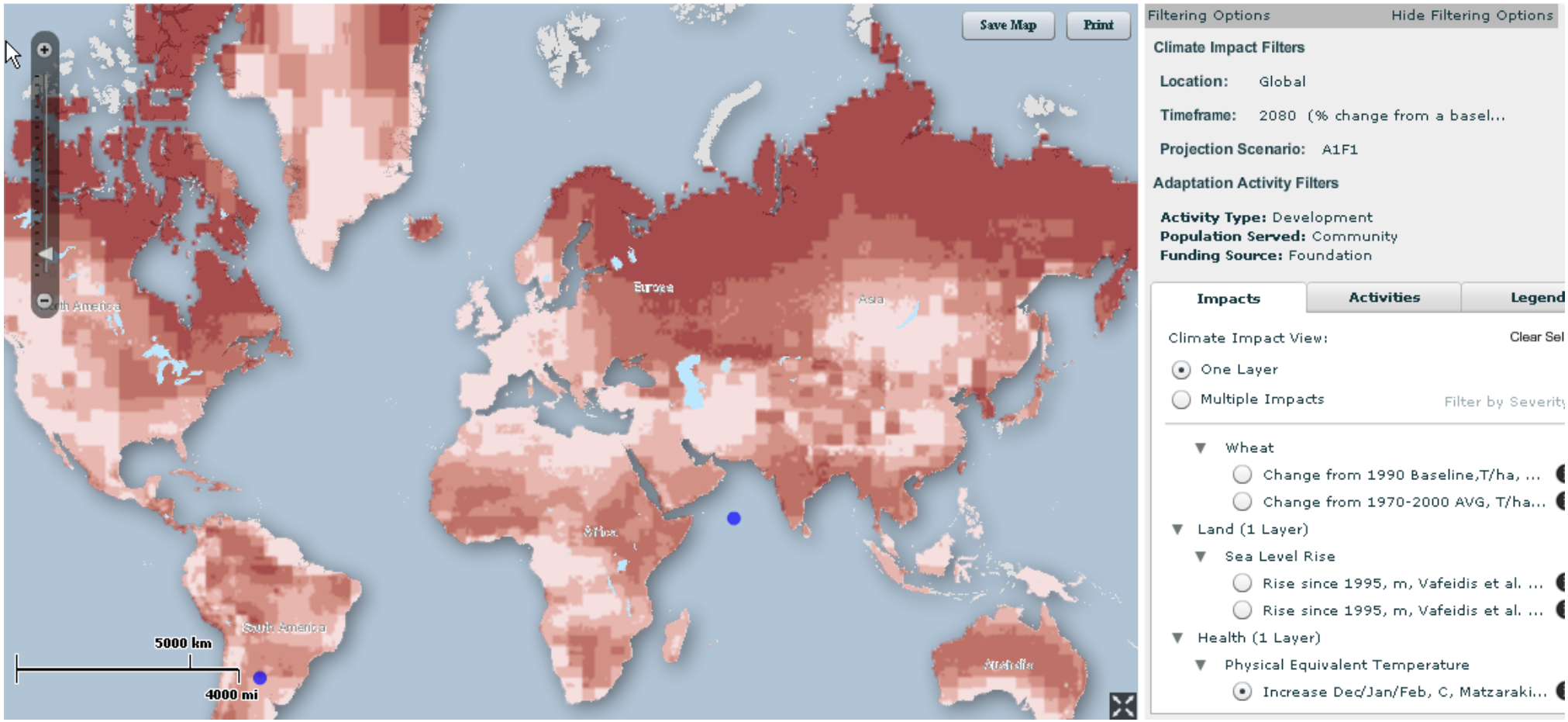
Projected Change in Physical Equivalent Temperature by 2080



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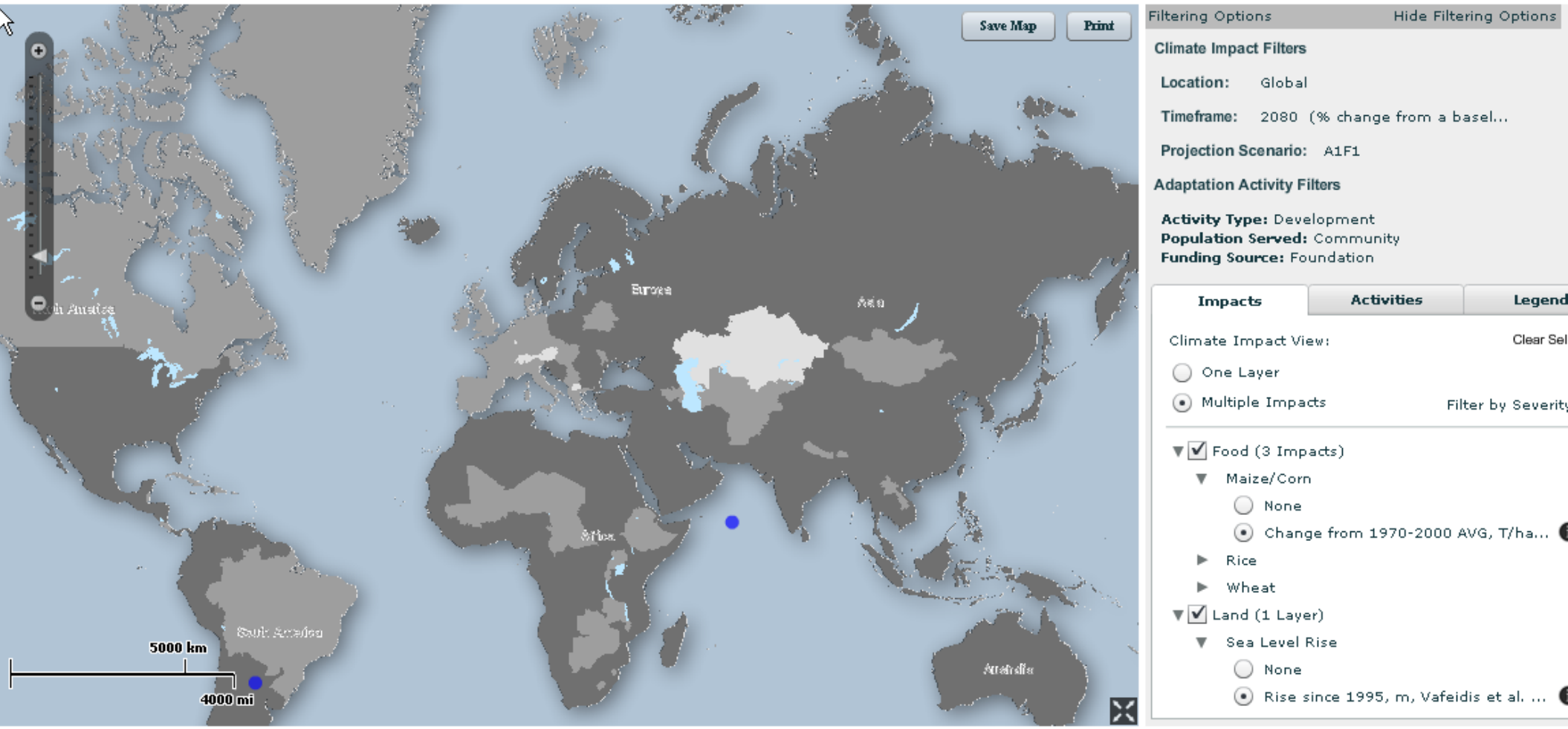
Overlay of Projected Changes in Maize and Sea Level Rise



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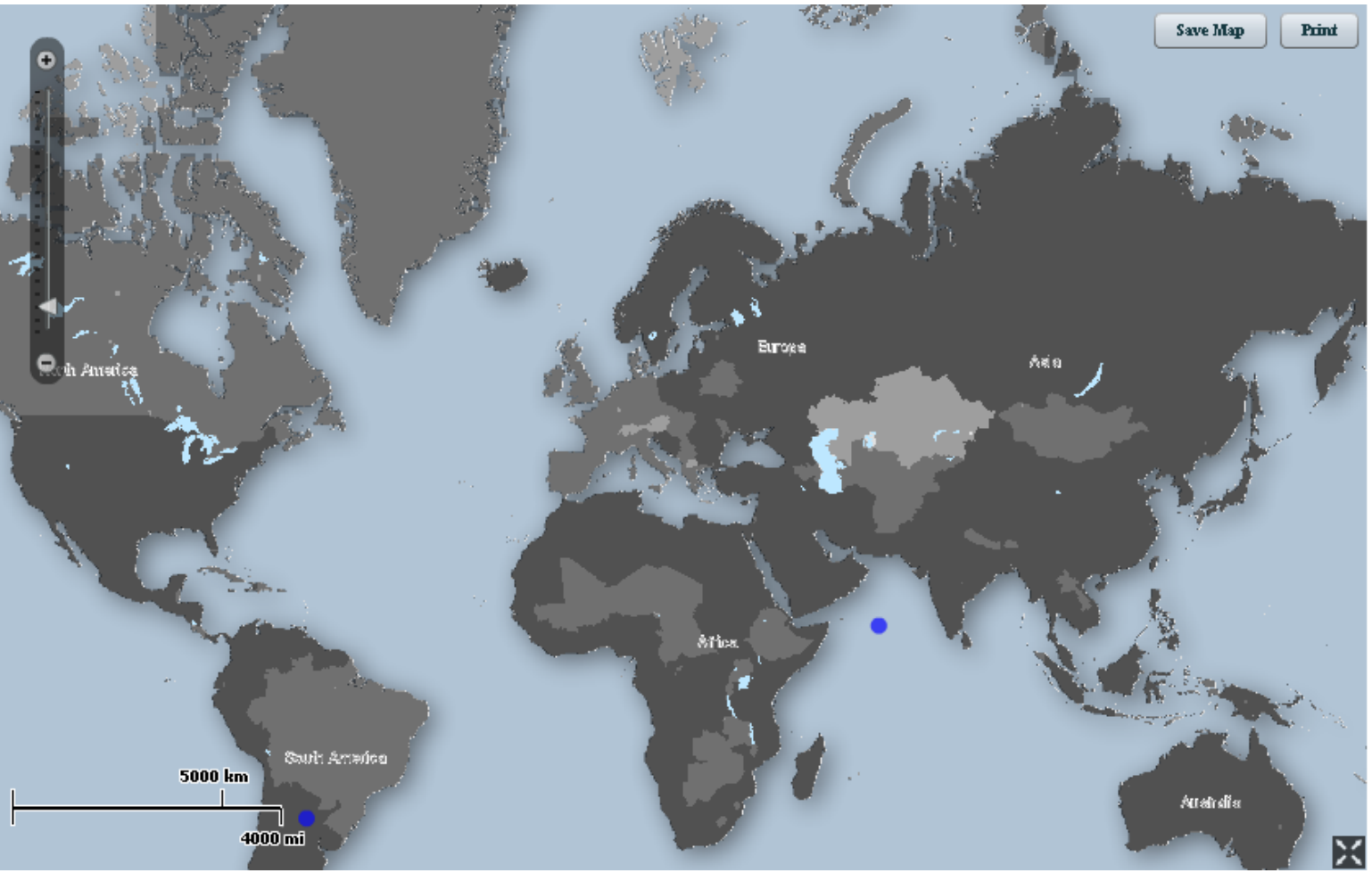
Overlay of Projected Changes in Maize, Sea Level Rise and Physical Equivalent Temperature



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Climate Impact View: Clear Sel

- One Layer
- Multiple Impacts — Filter by Severity

- Land (1 Layer)
  - Sea Level Rise
    - None
    - Rise since 1995, m, Vafeidis et al. ...
    - Rise since 1995, m, Vafeidis et al. ...
- Health (1 Layer)
  - Physical Equivalent Temperature
    - None
    - Increase Dec/Jan/Feb, C, Matzaraki...
    - Increase Jun/Jul/Aug, C, Matzaraki...

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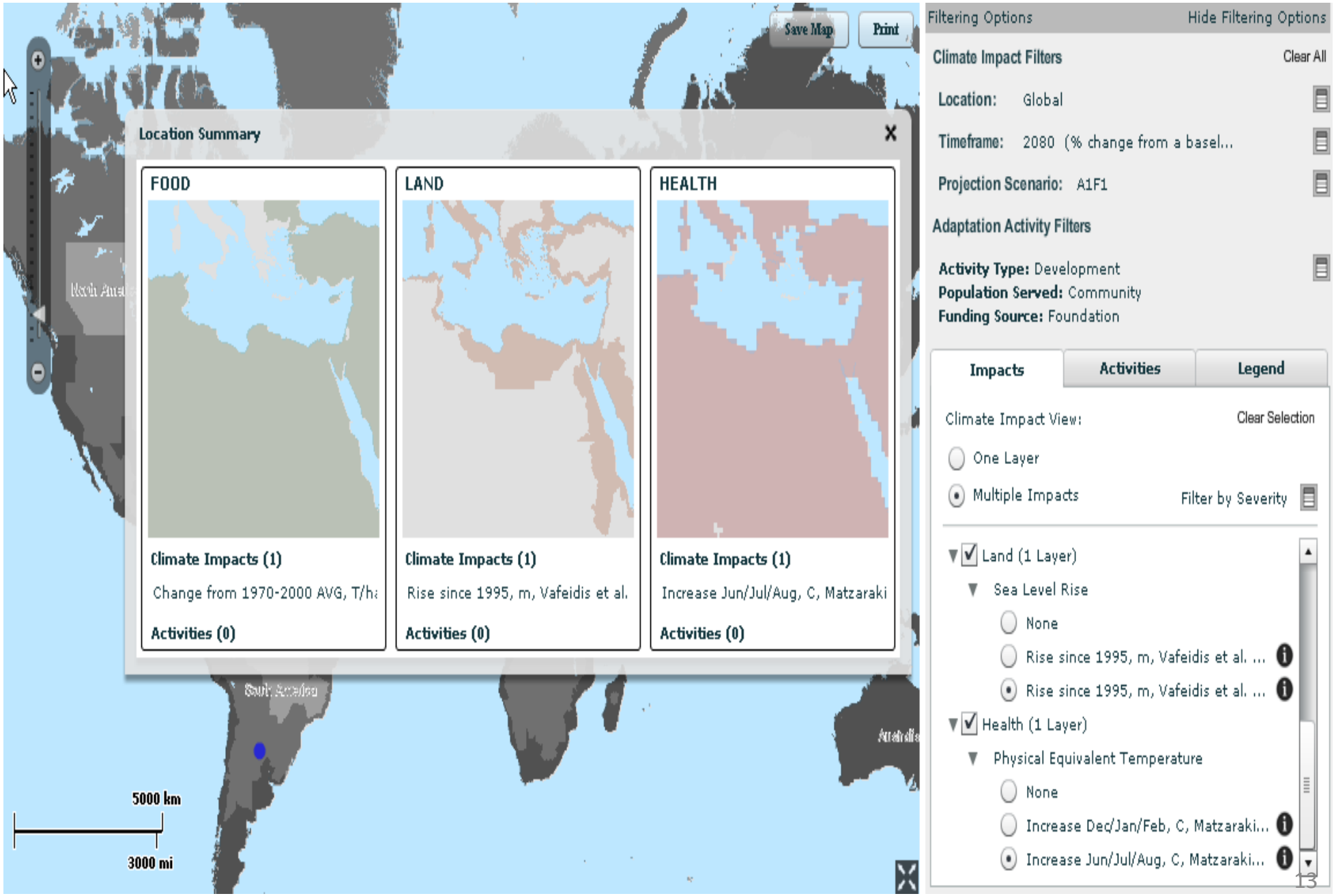
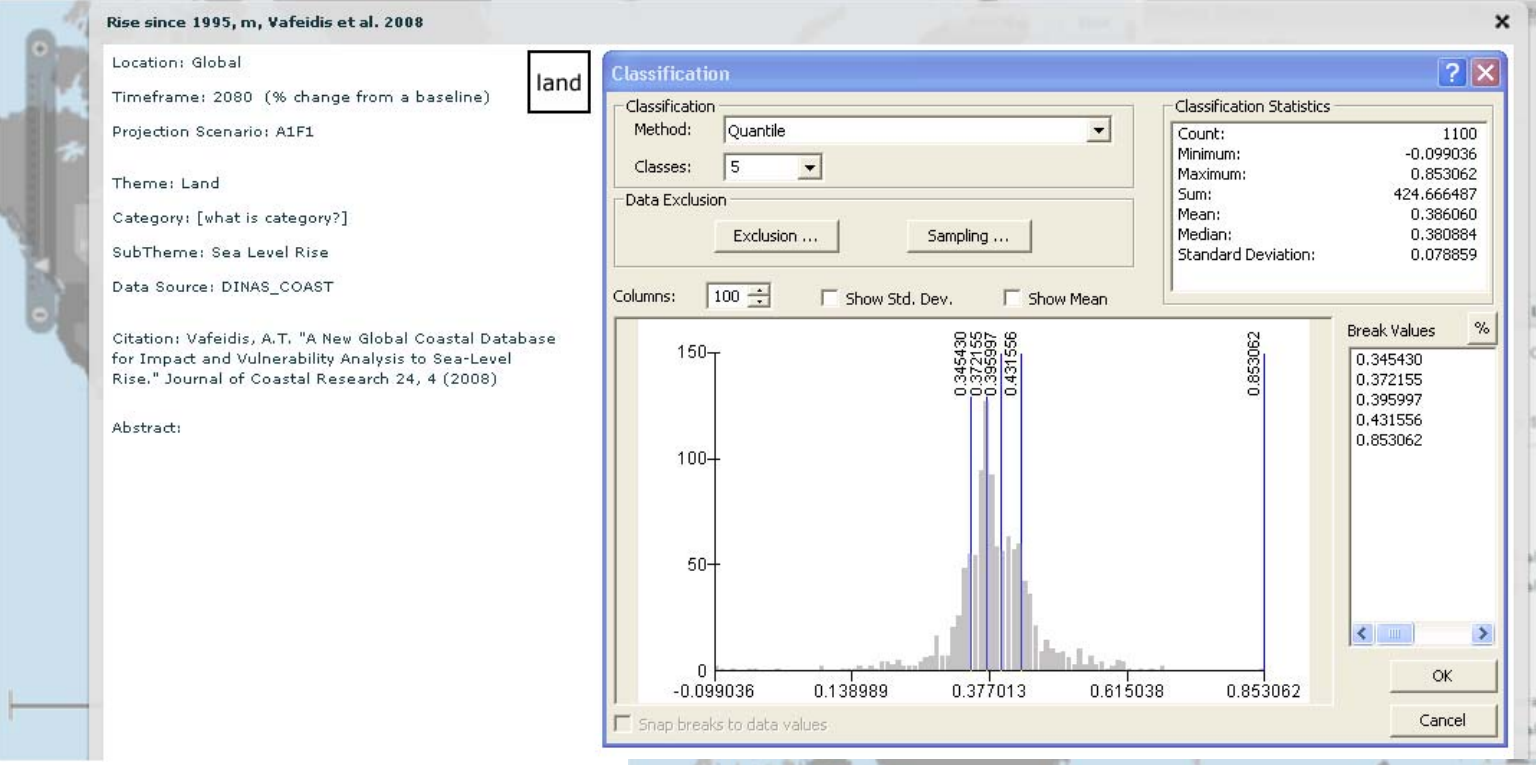
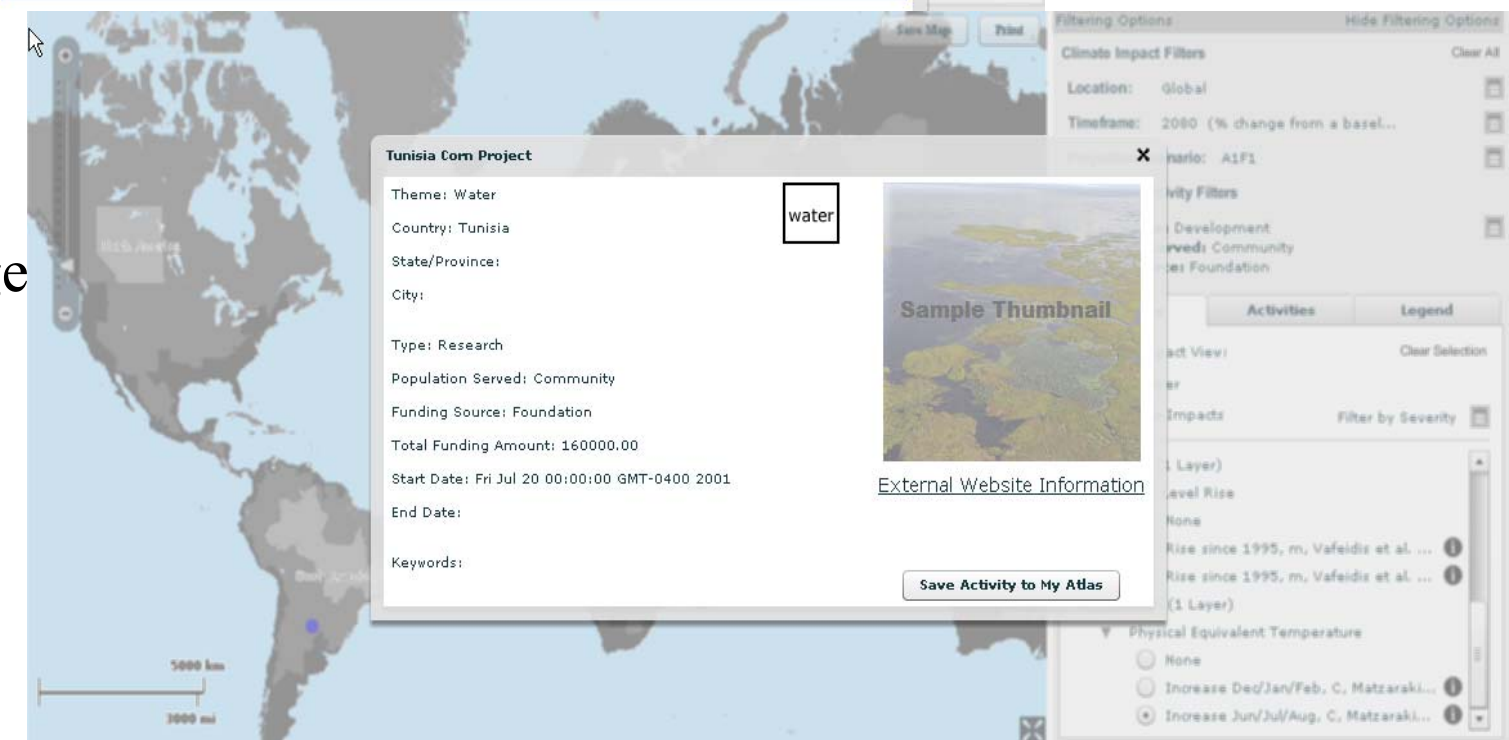
Clicking on a point on the map will display a detailed breakout map





Climate Impact Layer Detail Page



Project Detail Page

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Partners

- **Advisory Board Spanning Science, Policy & Practice**

  - Climate Institute, UNF, WRI, Rockefeller, RFF, ESRI, SEI

- **Collaborative Partners**
  - UNFCCC, UNDP, WRI, College of William & Mary, UNITAR, RMSI

- **Funding Sources**
  - RFF
  - Clipore (MISTRA - Swedish Foundation for Strategic Environmental Research)
  - UN Foundation
  - Goldman Sachs (through seconding of 1 FTE for FY09)
  - ESRI (mapping software)

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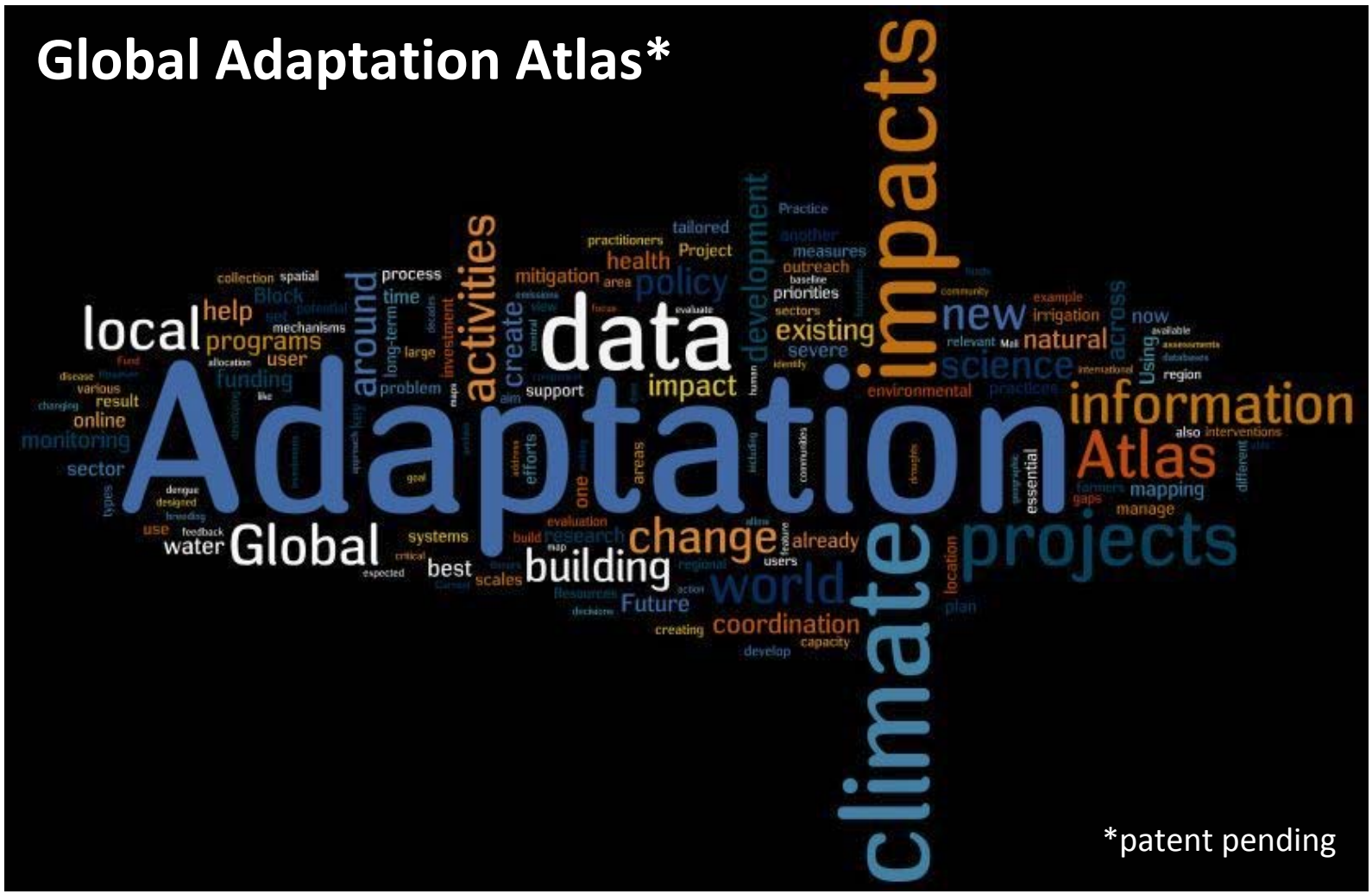
Global Adaptation Atlas*



For more on the Atlas, visit www.adaptationatlas.org or email us at info@adaptationatlas.org

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