World Climate Project

CLIMATE INTERACTIVE
Tools for a thriving future

MIT Sloan Management

CLIMATE CHANGE INITIATIVE
University Massachusetts Lowell

NASA

NSF
"I have to tell you — C-ROADS works, it is important, and it is already getting broad dissemination, ... I used it!"

Senator John Kerry
(Now U.S. Secretary of State)
GREAT THINGS TAKE HARD WORK. SO BRING IT.
努力奋斗
环球同此凉热！
<table>
<thead>
<tr>
<th>Climate Hawks</th>
<th>Carbon Prices</th>
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<td></td>
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<td>80</td>
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<td>30%</td>
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大气中二氧化碳量的变化趋势和浴缸中的水一样。
President Obama Briefed with C-ROADS 48 Hours Before Copenhagen Summit
What does research show is the impact of *World Climate*?

- People remember their World Climate experience for a long time
- World Climate delivers key systems thinking insights
- World Climate is education for action
Some initial results from *World Climate/Energy*

\[ n = 68; \text{ undergraduate students} \]

*From among students who were not already highly motivated (n=35)*
Let’s discuss how a World Climate Exercise goes...
Secretary General of the UN
Executive Secretary of the UNFCCC
Teams representing blocs
Role Descriptions

Confidential: China

TO: China negotiators at UN summit on climate change
SUBJECT: Briefing on negotiating goals

You lead the China delegation at the upcoming negotiations on climate change.

Goals:
China seeks to negotiate a global agreement to reduce greenhouse gas (GHG) emissions that can limit those risks, but seeks the best outcome for our economy and vital national interests.

Context: The best available science shows the risks of climate change are real and serious. Besides environmental benefits, reaching an agreement to limit climate change would cut air pollution, which is killing our people and creating political unrest. Our economy is growing rapidly and we are emerging as a global superpower. However, our average standard of living is still far lower than that in the US, Europe, Japan, and other developed nations. Our people, like people everywhere, want to live in a healthy environment, but also want to increase their standard of living: a healthy environment includes having the means to provide for decent jobs, housing, food, healthcare, mobility and national security.

Public opinion: Many people in our country believe climate change is real, though fewer support agreements to address the risks of climate change.

National action: We must defend our right to develop. Nevertheless, we recognize that our reliance on coal, especially, has negative health consequences for our population. While we cannot commit to emissions reductions, Chinese leaders recently announced a goal of peaking our GHG emissions by around 2030, despite the continued rapid growth of our economy. Meeting this goal would require deploying zero-emissions electricity generation capacity equivalent to the entire coal-fired capacity in China today, or roughly all current US electricity generation capacity.
Advocating
Pledges to the U.N.
We the people
Our opinions matter
we want a big
# Carbon Price $
$1000

Peace
Eat Vegan!
Negotiating
Sea Level Rise demo
Let’s play a short version of World Climate
Main Control Panel

Change the values and click "Run". See the graphical representations of your decisions below, and explore climate impacts in the graphs to the right and using the menu options above.

Fossil Fuel Emissions by Country Group

- Developed
- Developing A
- Developing B

Emissions from Deforestation

Sequestration from Afforestation

Impacts

CO2 Concentration in the Atmosphere

- BAU
- Current Run

CO2 in 2100: 609 ppm

Temperature Change Over Preindustrial

Temperature change by 2100: 3.1 °C

About "BAU" baseline

- Developed
  - 2013
  - Reduction Start Year: 2030
  - Percent Annual Reduction: 3.0%
  - 2050 level relative to 2005 level: -48%

- Developing A
  - 2030
  - Reduction Start Year: 2015
  - Percent Annual Reduction: 0.0%
  - 2050 level relative to 2005 level: 118%

- Developing B
  - 2035
  - Reduction Start Year: 2015
  - Percent Annual Reduction: 0.0%
  - 2050 level relative to 2005 level: 153%

Run
Save Run
Reset to Default
Welcome Delegates

UN Climate Summit
COP in my City and Juliette Decq
World Climate Events in 2015:
Our Proposed Next Steps

1. Read facilitator guide and materials, watch facilitator video and example videos
2. Create a team, register your event with us and plan a game
   – Draw on our community as needed
3. Practice with friends
4. Engage participants, take pictures, and share with us all
5. Enroll one or two to share it with others
When?

Anytime before UN talks in Paris this December
Invite your friends and colleagues to join us.

Webinars scheduled every week.

Go to our website to register. ClimateInteractive.org

“World Climate Project”

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