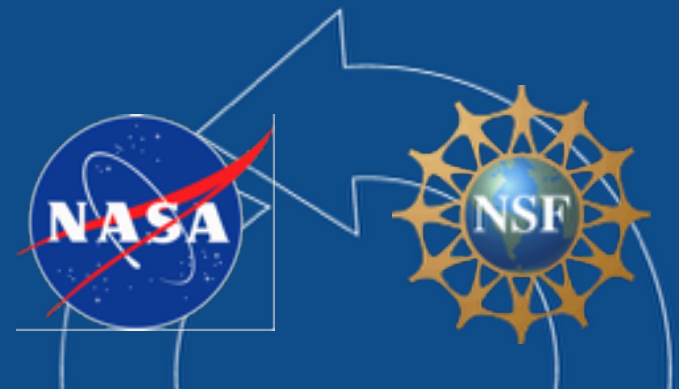
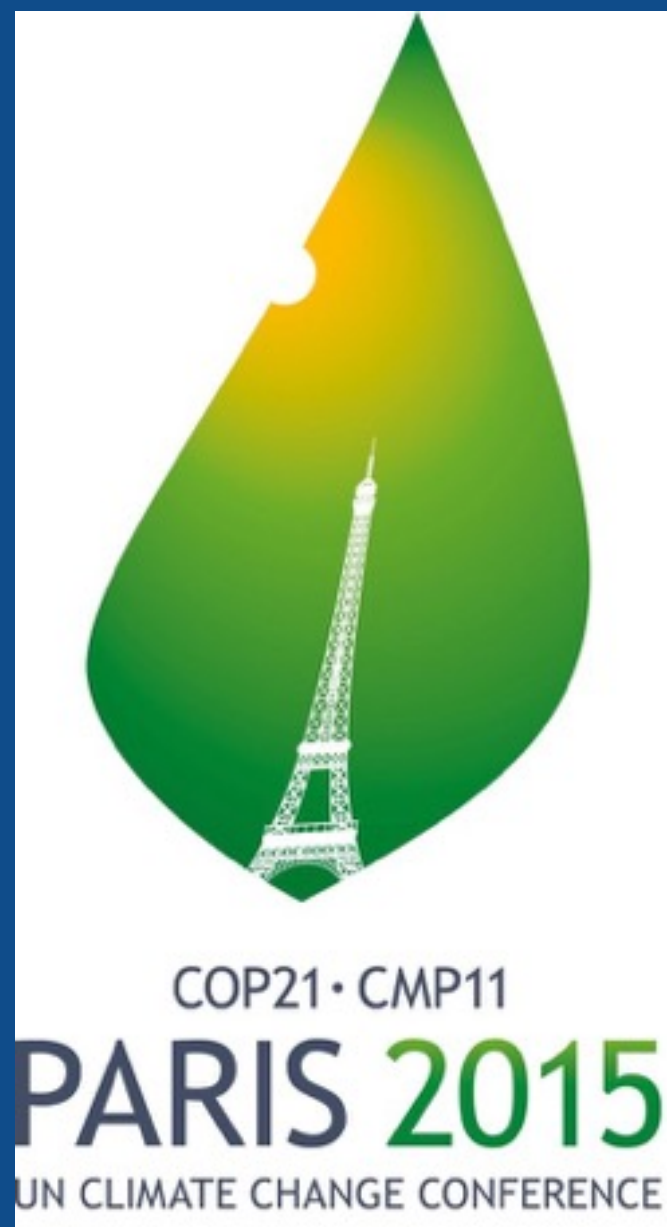


World Climate Project













Senator John Kerry
(Now U.S. Secretary of State)

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







WORLD ENERGY PLAN

ACTIONS

ENERGY SUPPLY

ENERGY EFFICIENCY

LAND-USE AG

COAL: 7A X
OIL: 7A X
GAS: ?
RENEWABLE: SUB
NUCLEAR: SUB
BIOMASS: SUB
NEW TECH: YES
OTHER: 0.5%

MOBILE: >1%
STATIONARY: >1%

LAND USE
FORESTRY:
OTHER SALES

PRICE

\$ FUTURE

\$ Support but TBD

\$

REVENUE TO

80%

>20 %

%

20%

%

%

0%

%

%

ACTIONS

POPULATION CONSUMPTION

POPULATION SCENARIO

GDP/CAP GROWTH

PRICE

\$20 (2040)

REVENUE TO


INDUSTRY

HOUSEHOLD

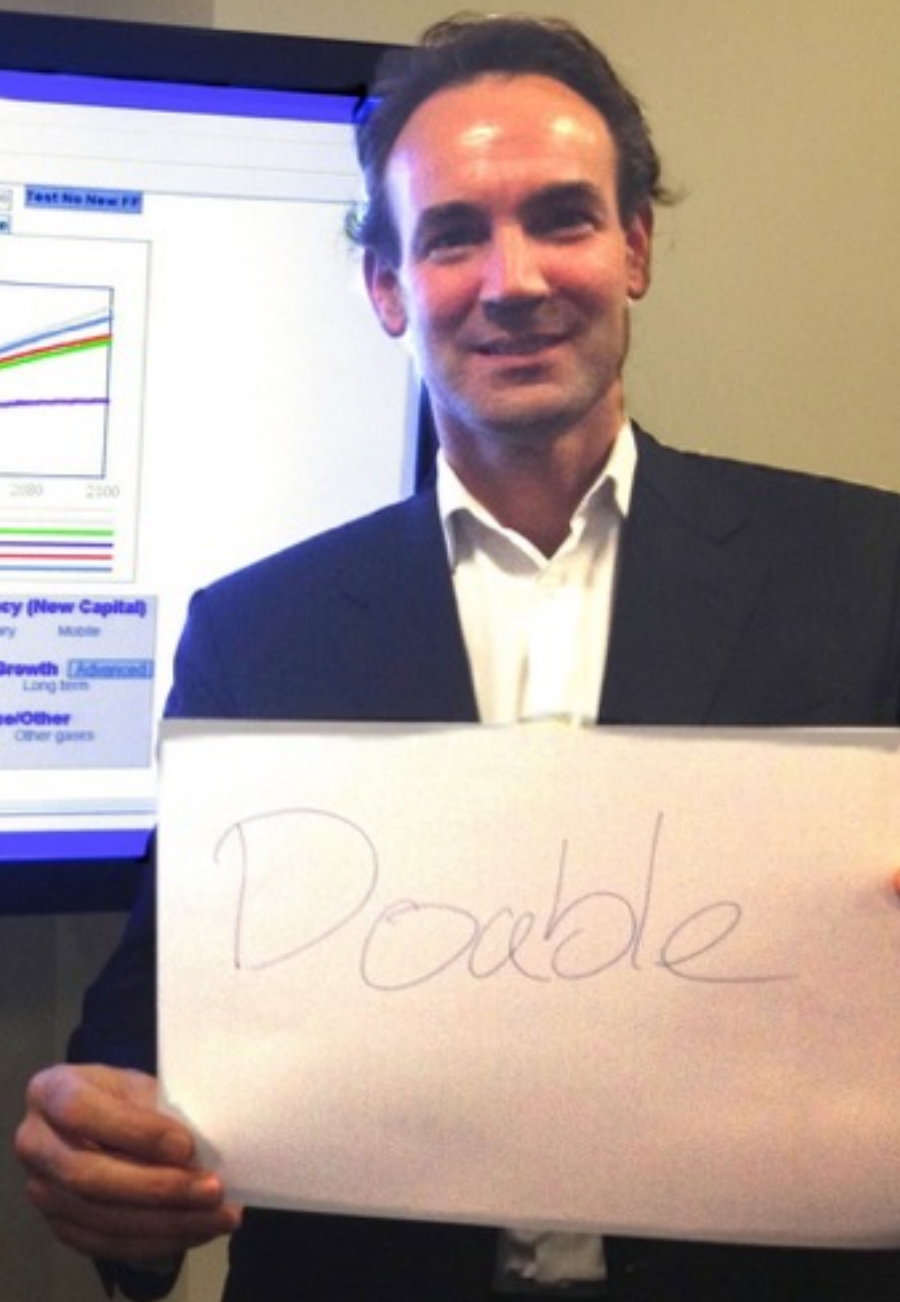
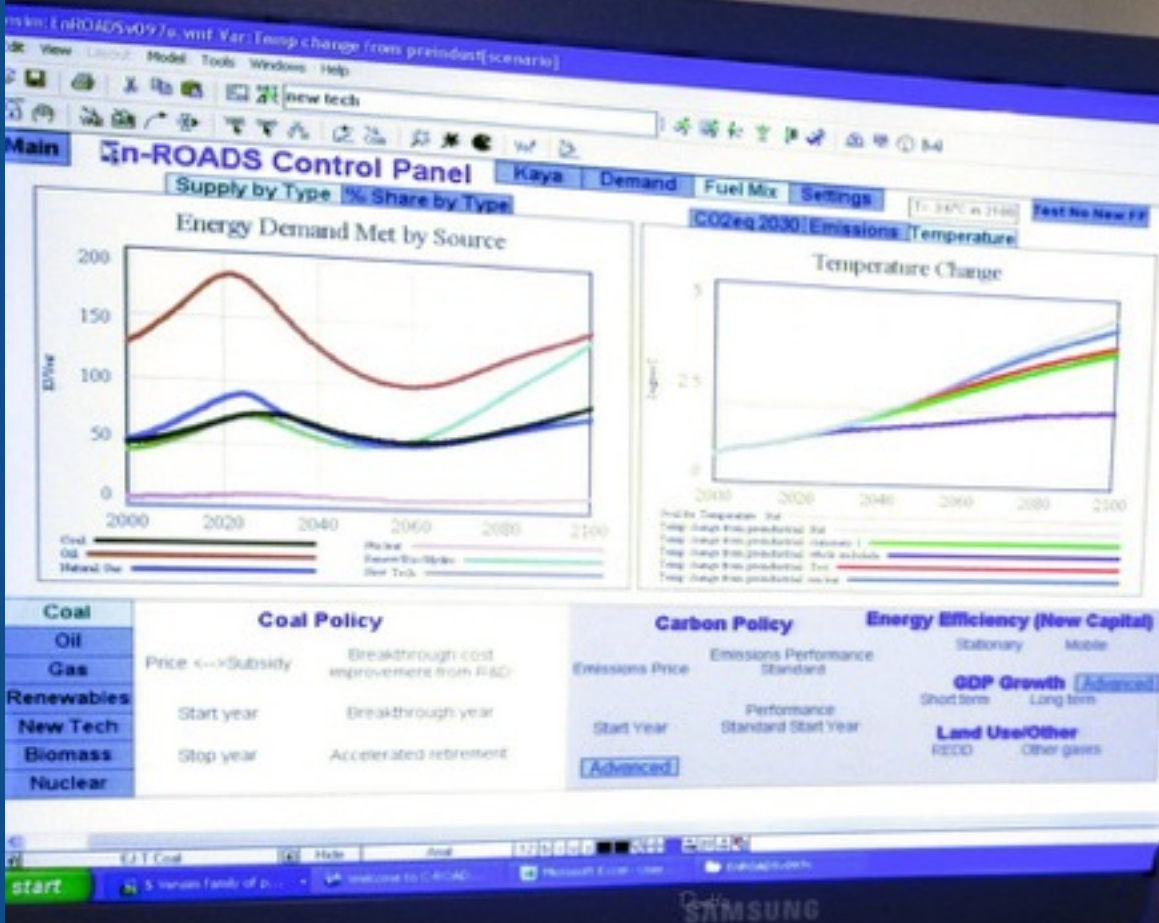
GOVERNMENT

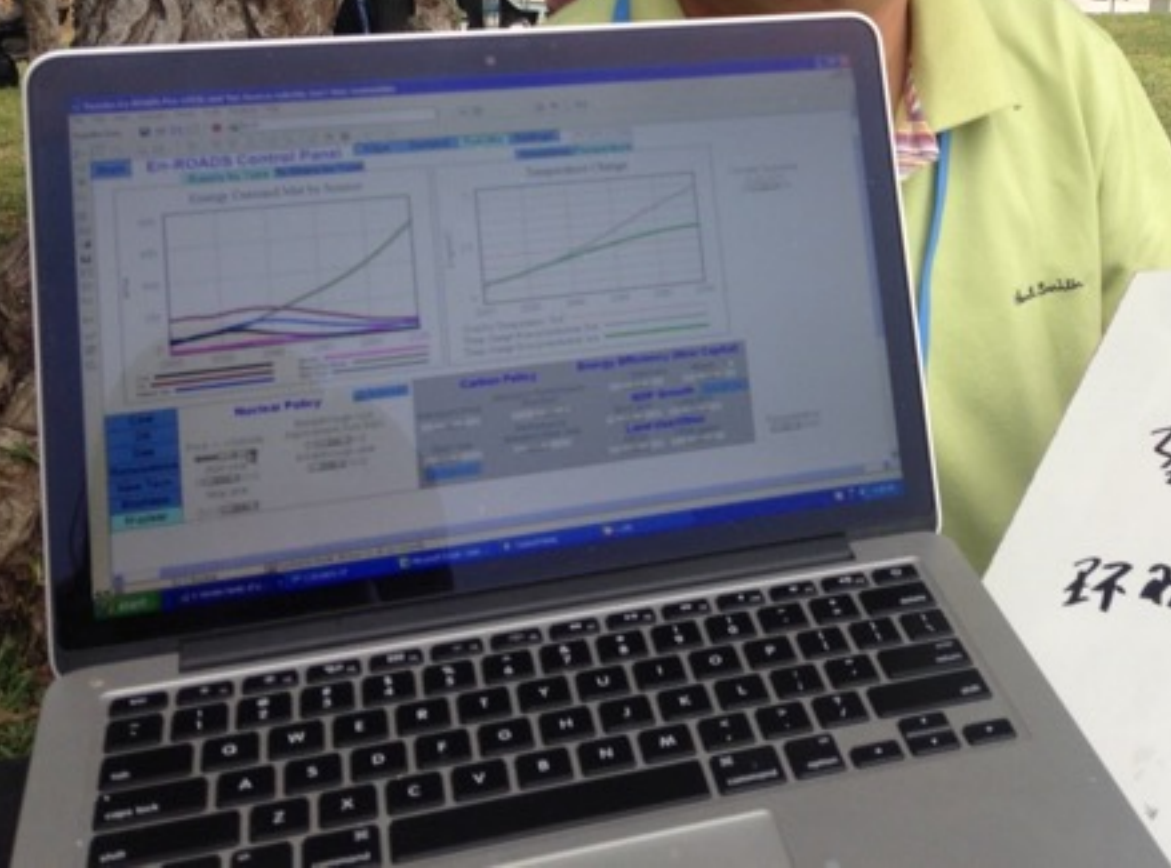
EXPORT REDUCTION



A man with short brown hair, wearing a light pink button-down shirt, is sitting at a desk in an office. He is holding a white rectangular sign with both hands. The sign has the text "GREAT THINGS TAKE HARD WORK. SO BRING IT." printed in black, all-caps, sans-serif font. In the background, there is a computer monitor displaying a website with a colorful area chart. To the right of the monitor, there is a stack of books. On the desk, there is also a computer mouse. The office has a bookshelf with various books in the background.

GREAT THINGS
TAKE HARD
WORK.
SO BRING IT.





努力奋斗
环球同此凉热！





Climate
Hawks

Carbon
Prices

80

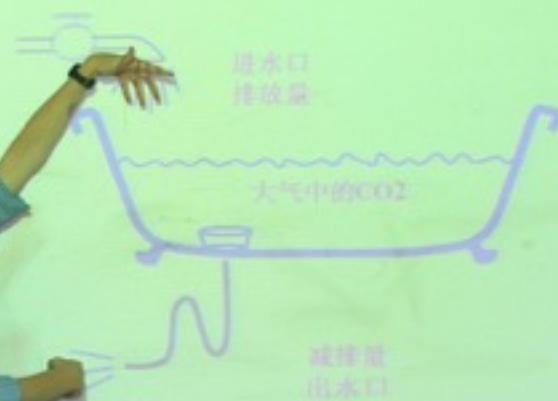
30%

60%

10%



大气中二氧化碳量的变化趋势和
浴缸中的水一样。



Growth per year	Decline start year	Annual % Reduction	Deforest 0-1	Afforest 0-1
US	2030	0	X	0
EU	2035	0	X	0
China	2025	0	X	0
TBD	TBD	TBD	X	TBD
0.30	TBD	TBD	.5	.5
0.20	TBD	TBD	TBD	.1
0.10	TBD	TBD	.8	





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*



$n = 68$; 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





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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.

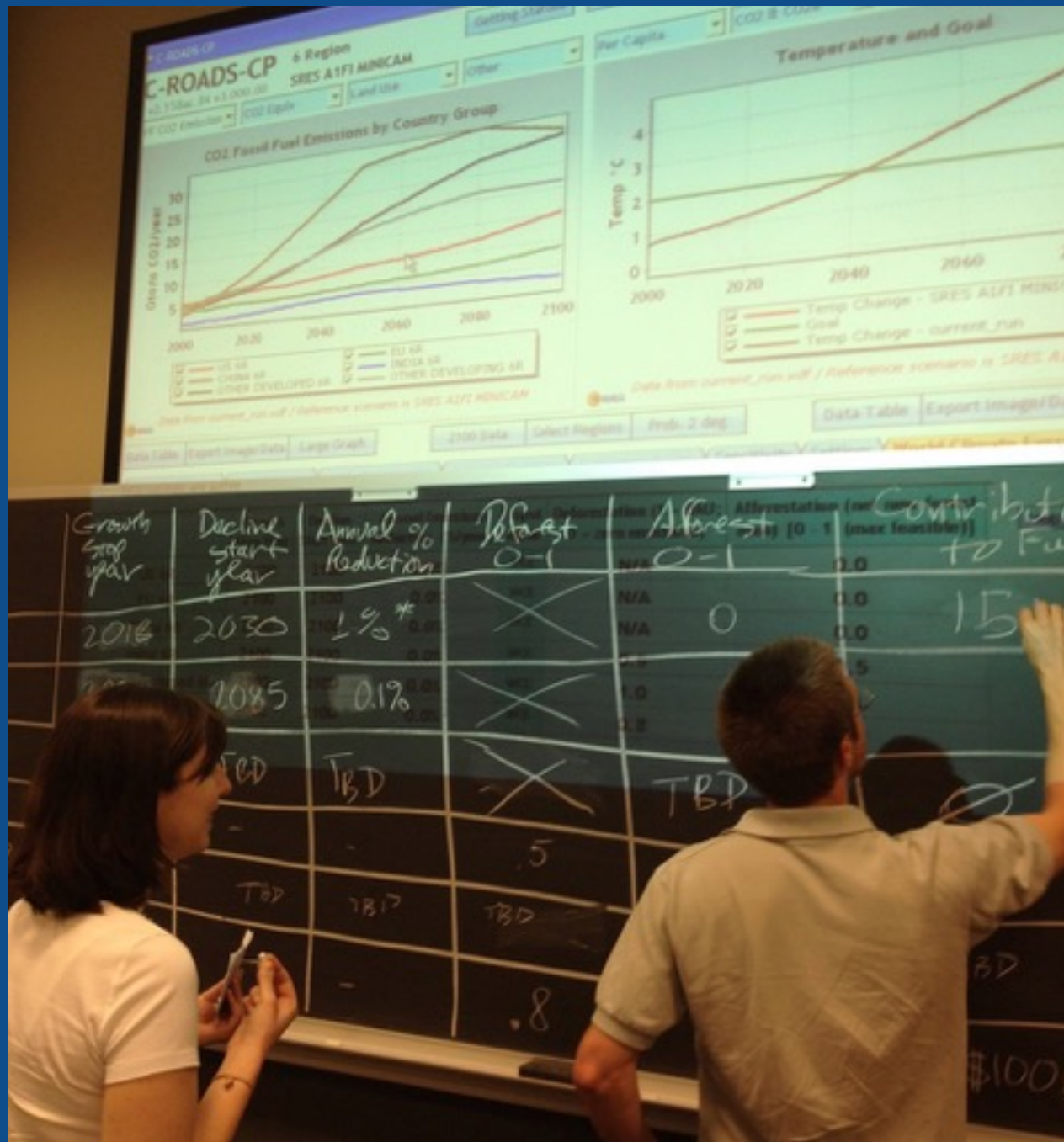
National action: We must defend our right to develop. Nevertheless, we recognize that our reliance on coal, especially, has negative health consequences for our population. While we cannot commit to emissions reductions, Chinese leaders recently announced a goal of peaking our GHG emissions by around 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

WORLD ENERGY PLAN			
ENERGY SUPPLY	ENERGY EFFICIENCY	LAND AG	
COAL: FAX	MOBILE:	LAND USE *	
GAS: FAX	> 10%	FORESTRY: 0	
RENEWABLE: SUB	STATIONARY:	OTHER GASES: \$10	
NUCLEAR: SUB	>		
BIOMASS: SUB			
NEW TECH: YES			
OTHER: 0.5%			
PRICE: \$ FUTURE	\$		
REVENUE TO:	80 %	%	
INDUSTRY:	20 %	%	
PUBLIC:	0 %	%	
DEFICIT REDUCTION:			

ACTIONS:	POPULATION CONSUMPTION
	POPULATION SCENARIO:
	GDP/CAP GROWTH:
C PRICE	\$20 (Developing) = 0
REVENUE TO:	
INDUSTRY:	30
PUBLIC:	60
DEFICIT REDUCTION:	10

Pledges to
the U.N.



Lobbying



Negotiating



Sea Level Rise demo



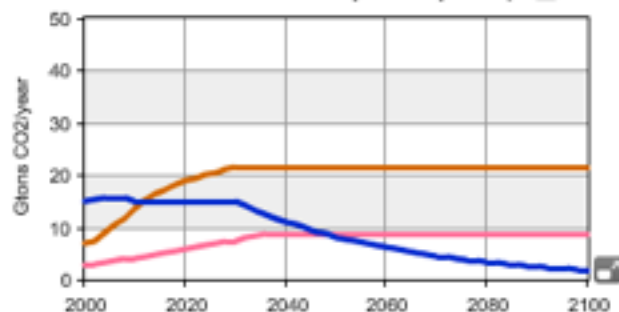
Let's play a short version of World Climate



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

	Stop Growth Year	Reduction Start Year	Percent Annual Reduction	2050 level relative to 2005 level
Developed	2013	2030	3.0 %	-48%
Developing A	2030	2015	0.0 %	118%
Developing B	2035	2015	0.0 %	153%

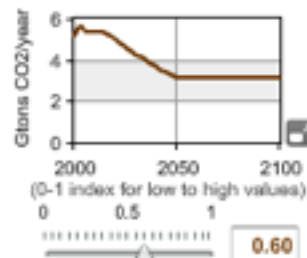
About "BAU" baseline

Run

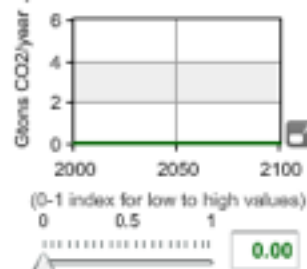
Save Run

Reset to Default

Emissions from Deforestation

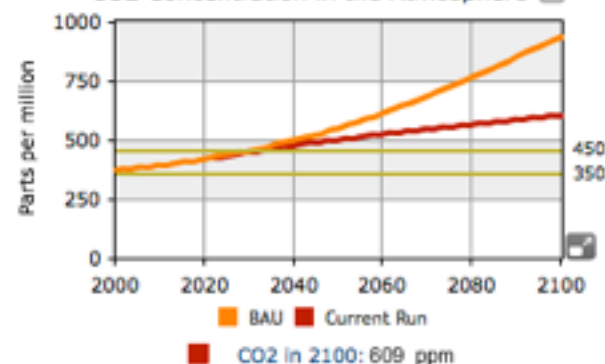


Sequestration from Afforestation

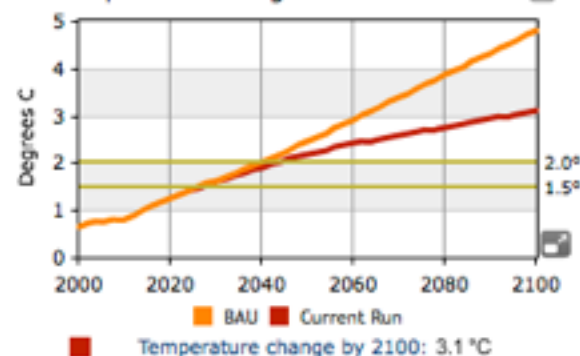


Impacts

CO2 Concentration in the Atmosphere



Temperature Change Over Preindustrial



Comments/Suggestions? C-Learn © 2015 Climate Interactive



VENTANA
systems, inc.



Author:
Climate Interactive



Discuss



Explore



Share



Copy

Powered by
Forio Simulator™

Welcome Delegates

UN Climate Summit

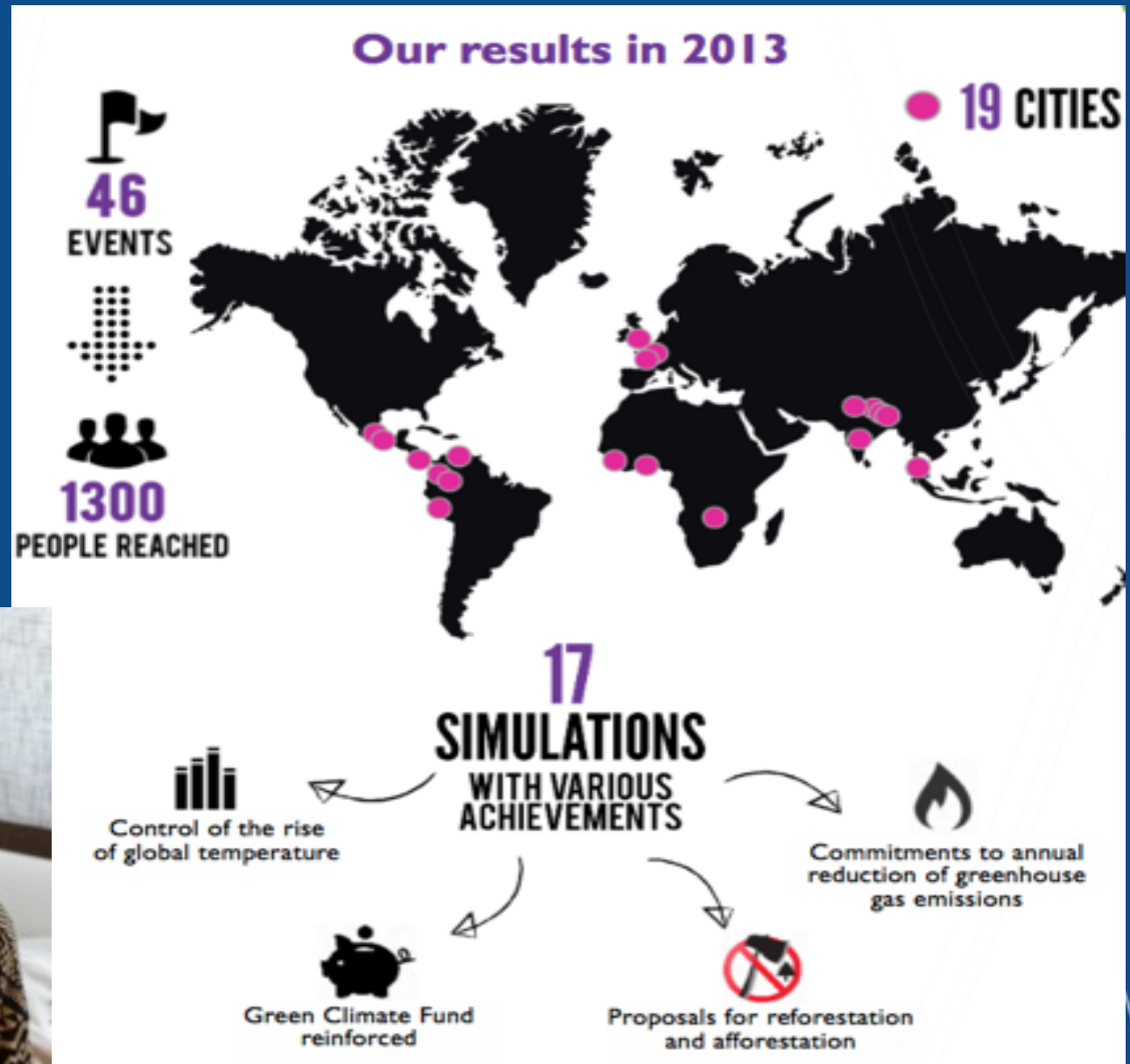




MIT Sloan
MANAGEMENT



COP in my City and Juliette Decq



A world map with a light beige background and green oceans. Sixty red location pins are distributed across the globe. A large cluster of approximately 25 pins is located in North America, primarily in the United States and southern Canada. Another significant group of about 15 pins is concentrated in Europe, covering Western and Central regions. Other individual pins or small groups are scattered across South America (primarily Brazil), Africa (North, West, and East), Asia (East and Southeast), Australia, and the Pacific Islands. The map includes labels for major countries and geographical features. In the bottom left corner, there is a scale bar indicating 3000 km and 2000 mi. In the bottom right corner, the copyright notice reads "© OpenStreetMap contributors | Leaflet | © 2015 Mapline".

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”

Please Contact:

Ellie Johnston, World Climate
Project Manager

ejohnston@climateinteractive.org