Policy Simulations to co-create resilient futures in the context of cross-borders climate impacts

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Egypt's Suez Canal blocked by huge container ship

24 March 2021

A giant container ship the length of four football pitches has become wedged across Egypt's Suez Canal, blocking one of the world's busiest trade routes.

In pictures: Container ship blocking the Suez Canal finally on the move

29 March 2021

The huge container ship is four football fields long.
CHALLENGES & RISKS
UNCERTAINTY
I'M SURE GLAD THE HOLE ISN'T IN OUR END
SYSTEMS SCIENCE IS USED TO TACKLE COMPLEXITY...
SYSTEMS SCIENCE IS USED TO TACKLE COMPLEXITY...

...WE ALSO NEED ANOTHER APPROACH
REFLEXIVE
& CONCEPTUAL
ACTIVE & EXPERIENTIAL
PROBLEM-ORIENTED
PEOPLE-ORIENTED

Communication & Collaboration
FUTURE-ORIENTED
Tell me and I forget,
Tell me and I forget,
Show me and I may remember,
Tell me and I forget,
Show me and I may remember,
Engage me and I will understand.

Xunzi
Stakeholder engagement validates and enriches the research
Conceptual framework for cross-border impacts of climate change
Cascading Climate Impacts Simulation: Future of Food
SOCIAL SIMULATIONS

Take on diverse fictional roles

Confront perfect storm scenarios, human stories, and conflicting worldviews

Leave the role behind and bring new insights to the real world

Avidly negotiate, brainstorm, and vote on policy proposals
Cascading Climate Impacts Simulation
EMERGENCY SUMMIT
ON THE FUTURE OF FOOD

BACKSTORY

REPRESENTATIVE OF
A COUNTRY OR ORGANIZATION
(IN THE SIMULATION)

PARTICIPANT

ROLE

THE FUTURE OF FOOD SIMULATION

2026
2022
DROUGHT IN THE HORN OF AFRICA
We need regulations that are adapted to local conditions

Dear Participant,

It is true that there are more and more cars in the streets, which are contributing heavily to air pollution and carbon emissions. In fact, some cities have already imposed car ownership regulations and are already reaping the benefits. But we also have to remember that not everyone is in the same situation or has the same capacities. A strict blanket regulation on car ownership will result in a lot of losers should it be enacted.

We should not be hasty in imposing regulations until we at least have an idea of the potential scope of their impacts in the short and long term, and adopt regulations adapted to local conditions.

We hope that you consider these arguments when making your decision.

Yours sincerely,

Board of Directors
Green Tech Association
Working Group 1: Social & Environmental Standards

Voting Group 01

Critical raw materials demand has been steadily increasing in the past decades and is expected to continue outpacing global production. The high demand for critical raw materials is leading to unsustainable extraction and processing practices, leading to local or national conflicts and disrupting trade. Policies propose below to improve the situation:

Limits on Car Ownership for Each Country and a Global Permit Trading System for These Permits

Mandatory Metals Recycling with "Producer Ownership" Model
Africa-EU food systems partnership
15% of the EU R&I budget should be spent on food systems support in Africa: smallholder farmers, access to markets, green energy, support etc.

Promote local solutions and regenerate our scarce natural resources
The time has come to reduce the use of imported inputs to increase food production. We should systematically encourage local solutions. Imported inputs and seeds all have local substitutes. Reuse, recycle and regenerate.

Pact for food security
a) a significant cut in tariffs and equivalent reduction in non-tariff barriers on food products;
b) a global moratorium on export bans;
c) a new pan-European Agricultural Transformation Facility for support to reform, adaptation, and regeneration of European farming.
“Free markets and international trade are key mechanisms supporting human wellbeing.”
"With good management and innovation bringing eco-technologies, we can decouple economic growth from environmental impacts."
“We need an economic system and social norms that sustain the natural basis of life.”
“The European elites have lost touch with reality and no longer have the best interests of ordinary citizens in mind.”
The CASCADES Policy Simulations

Future of Food
futureoffood.socialsimulations.org

Arctic Future
arcticfuture.socialsimulations.org

Raw Materials Challenge
rawmaterials.socialsimulations.org

The Cascades Game
cascades.socialsimulations.org

Cascades Project website
www.cascades.eu/topic/simulations-and-serious-game/
Policy Simulations in the Cascades project

Web: cascades.eu
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Twitter: @CASCADES_EU

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Working Groups
WG I: Trade, Supply & Value Chains
WG II: Foreign Policy, Security, Development
WG III: Finance and Business
Future of Food

https://engage.socialsimulations.org/future-of-food-stories

Sessions for:

Raw Materials Challenge

https://engage.socialsimulations.org/cop26

Sessions for:
DISCOURSES

I want the best for my COUNTRY.

Don’t blame others. You are RESPONSIBLE for what happens to you.

Climate change? I have to FEED my kids.

The WORLD is going to end soon!

TECHNOLOGY and MARKETS solve our problems.
EXPERIENTIAL LEARNING
David Kolb

Concrete Experience

Active Experimentation

Reflective Observation

Abstract Conceptualization
Decision Making: It’s Not What You Think

Henry Mintzberg and Frances Westley • April 15, 2001

Different Approaches to Decision-making

“Thinking first” features the qualities of science, planning, programming, the verbal facts.

“Seeing first” features the qualities of art, visioning, imagining, the visual ideas.

“Doing first” features the qualities of craft, venturing, learning, the visceral experiences.

1. Real-world problem situation

2. Simulation co-design

3. Simulation performance

4. Debriefing

5. Stakeholders’ dialogue