

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

Piotr Magnuszewski Centre for Systems Solutions





Egypt's Suez Canal blocked by huge container ship

() 24 March 2021





The giant ship is causing a traffic jam in one of the world's busiest waterways

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









I'M SURE GLAD THE HOLE ISN'T IN OUR END •





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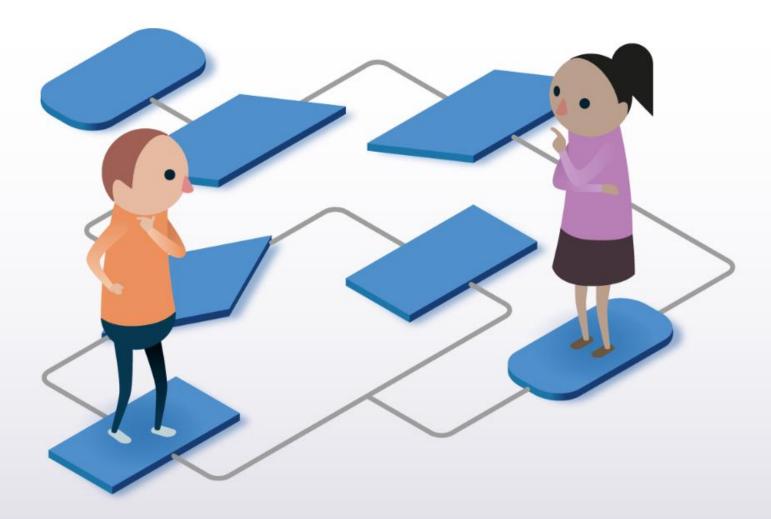
SYSTEMS SCIENCE IS USED TO TACKLE COMPLEXITY...



SYSTEMS SCIENCE IS USED TO TACKLE COMPLEXITY...

...WE ALSO NEED ANOTHER APPROACH





ACTIVE & EXPERIENTIAL



PROBLEM-ORIENTED

PEOPLE-ORIENTED





Tell me and I forget,



Tell me and I forget, Show me and I may remember,

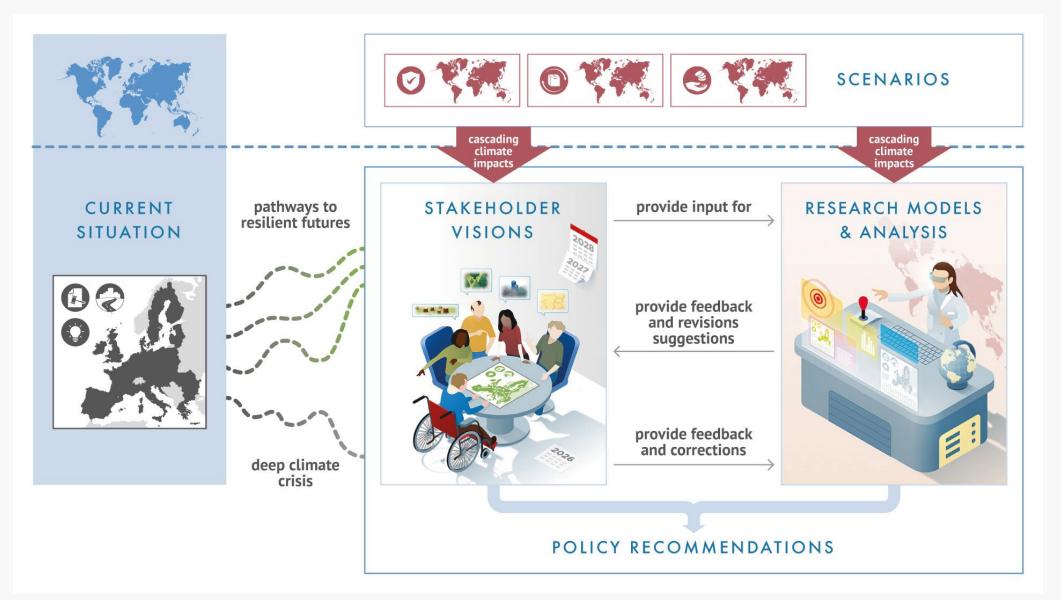


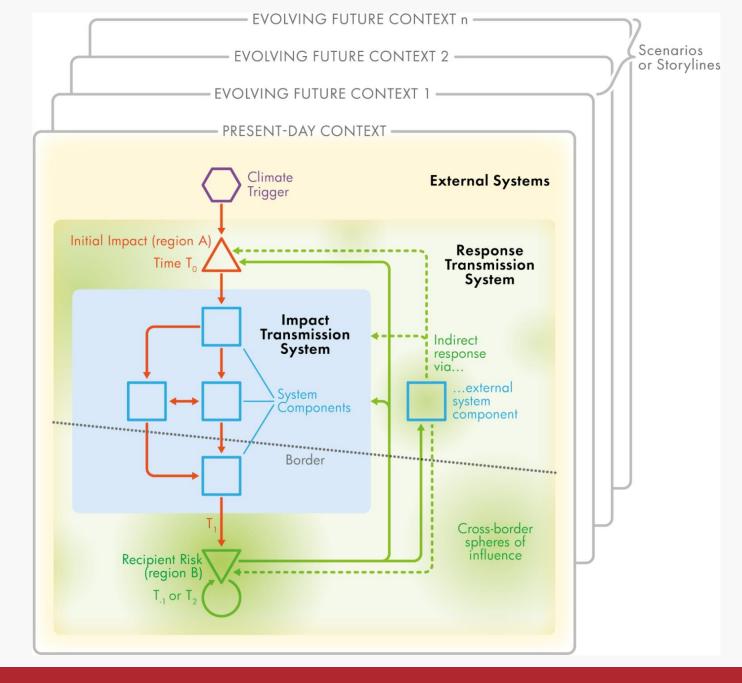
Tell me and I forget, Show me and I may remember, Engage me and I will understand.

Xunzi

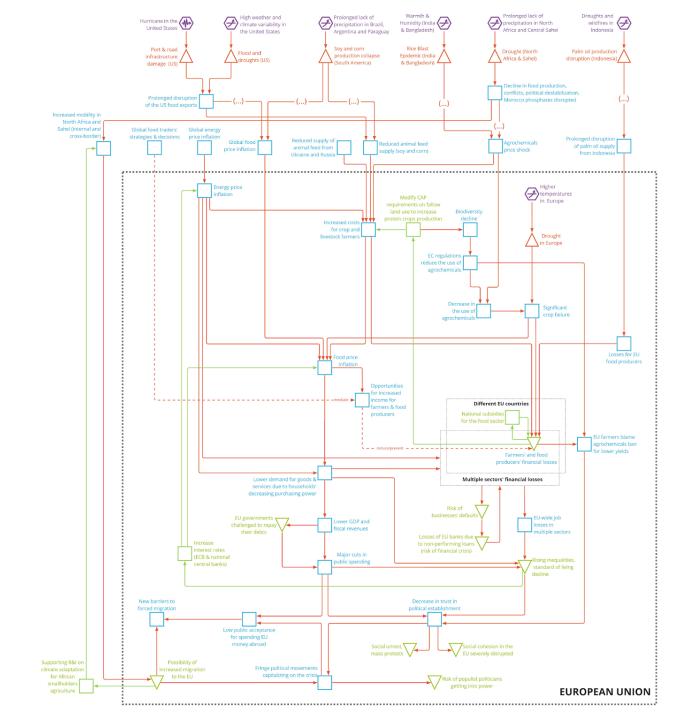


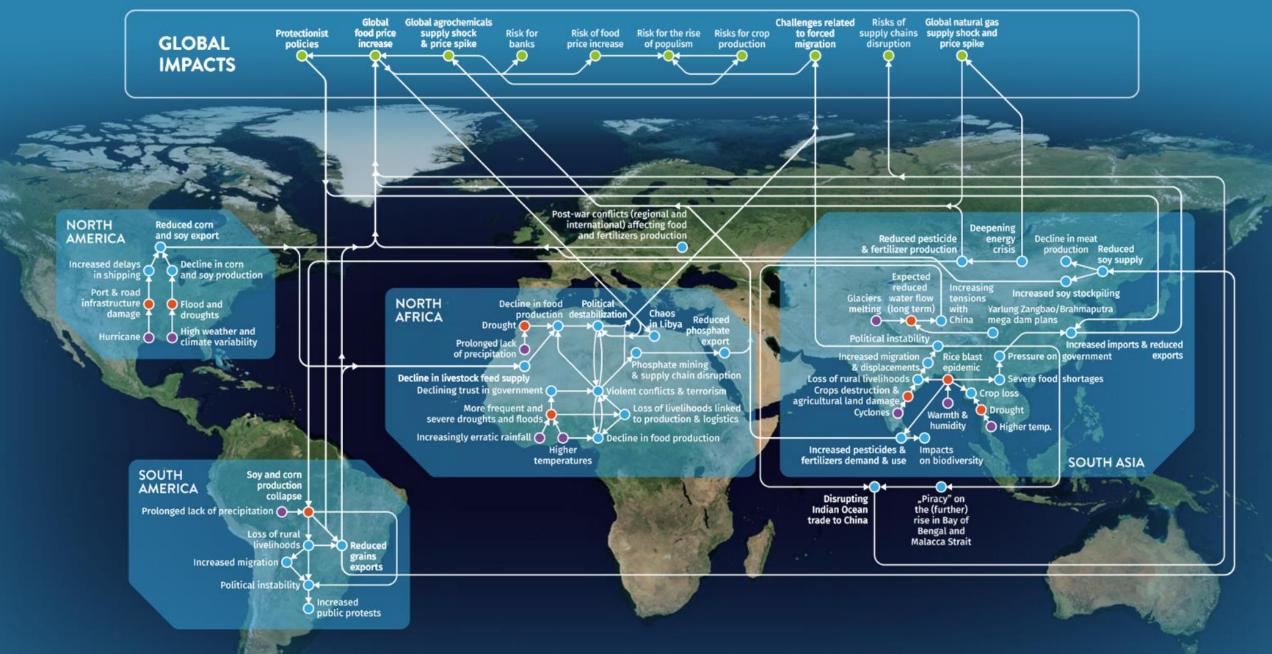
Stakeholder engagement validates and enriches the research





Conceptual framework for cross-border impacts of climate change



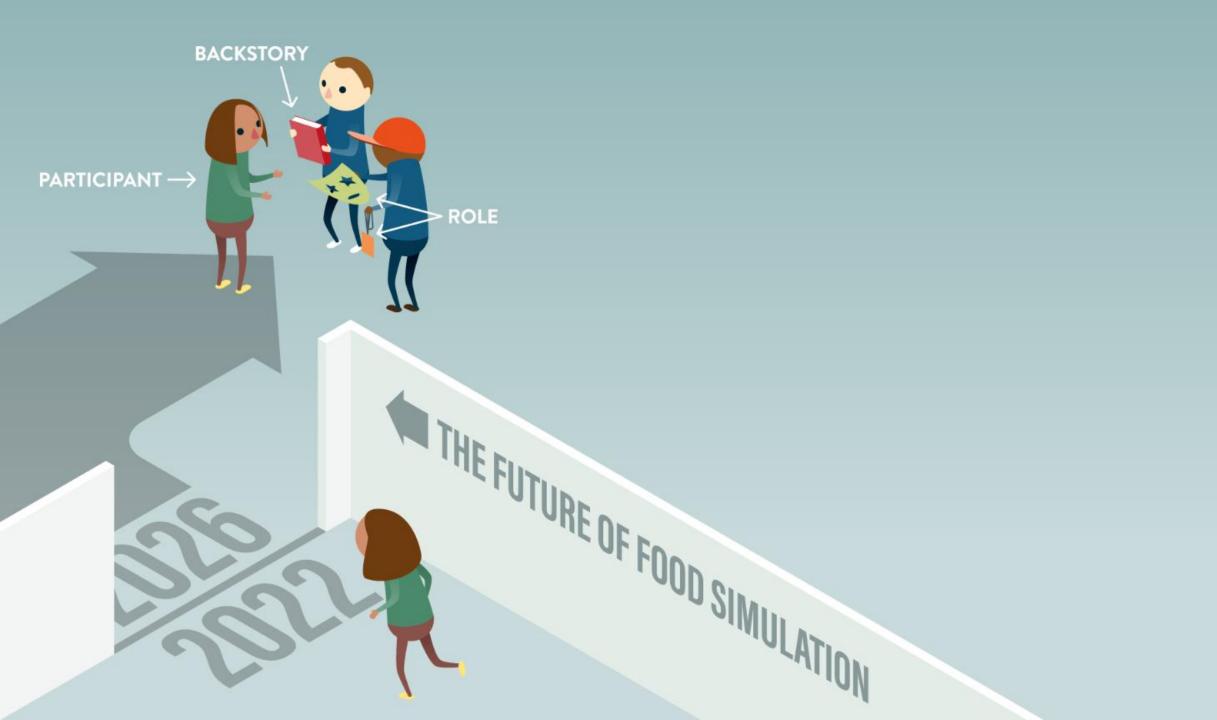


Cascading Climate Impacts Simulation: Future of Food











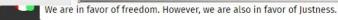


DROUGHT IN THE HORN OF AFRICA





NEW MESSAGES (0)



International Association for Electric Vehicles

International Association for Electric Vehicles

International Association for Electric Vehicles

kill, but - diminish their export.

to introdúce limits...

Reduced number of cars in the streets also have great side effects: more livable cities, with less traffic and congestion, and more public space available.

We have to consume less, so we don,t have to worry about running of metals

Have you seen what is happening in DRC or China? Do we really need so many cars?

Electric cars were supposed to be the remedy for many problems, and now,

Well, DRC is a developing country which needs funds. Limits will - maybe not

when they are more accessible, and people finally become convinced, you want

NG METALS' DEMAND

News coming soon



Kingdom of Denmark -Department of Supply & Value Chains (SVC)



MAP







LATEST NEWS LIVE

GLOBALWIRE

24



CONFERENCE

CENTER

There has to be another path for them, for us, for the sustainable future.. 'A strict blanket regulation on car ownership will result in a lot of losers should Congo Republic - SVC Corruption and mafia control of the primary energy source, charcoal is hampering progress in the DRC write a message ... SEND



. Green Tech Association 4

3

12:07:21

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

RETURN







PRESS

SOCIAL MEDIA



Severe Drought Hits Lithium Triangle



Climate Strategies Spur EV Adoption



Europe Leading The Way In Electric Vehicles Uptake: Asia To Follow



ROOMS

Increase Demand For **Electric Vehicles** Pressures Raw Materials Supply

MAIL / CHAT





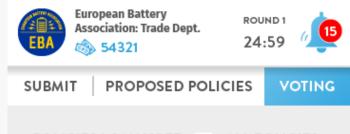
ROUND 1 24:59

PARTICIPANTS DESCRIPTION

DISCUSSION

Working Group 1: Social & Environmental Standards





POLICIES I CAN VOTE ALL POLICIES

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 an international conflicts and disrupting trade. Policies propose below aim 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







ROOMS MAIL / CHAT

NEWS

POLICIES

EXAMPLES OF POLICIES PROPOSED BY PARTICIPAN Cascading Climate Impacts: Future of Food Simulation

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.



SHARED WAYS OF APPREHENDING THE WORLD



ECONOMICSM ECONOMICSM RAIIONALISM

"Free markets and international trade are key mechanisms supporting human wellbeing."

Leave it to markets



"With good management and innovation bringing eco-technologies, we can decouple economic growth from environmental impacts."

Green Growth

ECO-MODERNIEN



Radical System Change

GREENAMAIIS

"We need an economic system and social norms that sustain the natural basis of life."



Stability and security by nation-states

CONSERVATIVE NEO-REALISM

"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

Raw Materials Challenge

rawmaterials.socialsimulations.org

Arctic Future arcticfuture.socialsimulations.org

The Cascades Game

cascades.socialsimulations.org

Cascades Project website

www.cascades.eu/topic/simulations-and-serious-game/



SOCIAL SIMULATIONS

systemssolutions.org

socialsimulations.org

🕑 twitter.com/socsim

youtube.com/user/crspoland





Policy Simulations in the Cascades project

Web: cascades.eu Email: info@cascades.eu Twitter: @CASCADES_EU





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

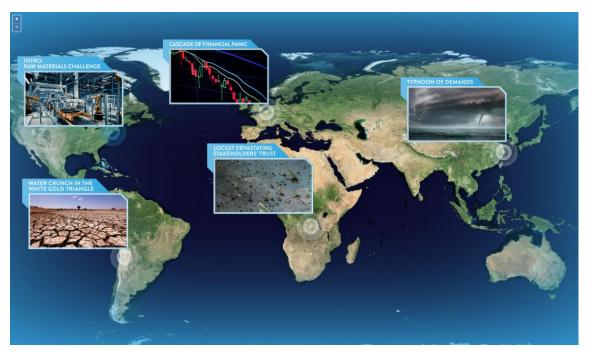


Future of Food

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

Sessions for:

Cascades Consortium, SAPEA, Belmont Forum, AAAS, The World Academy of Science, UN General Assembly Science Summit.

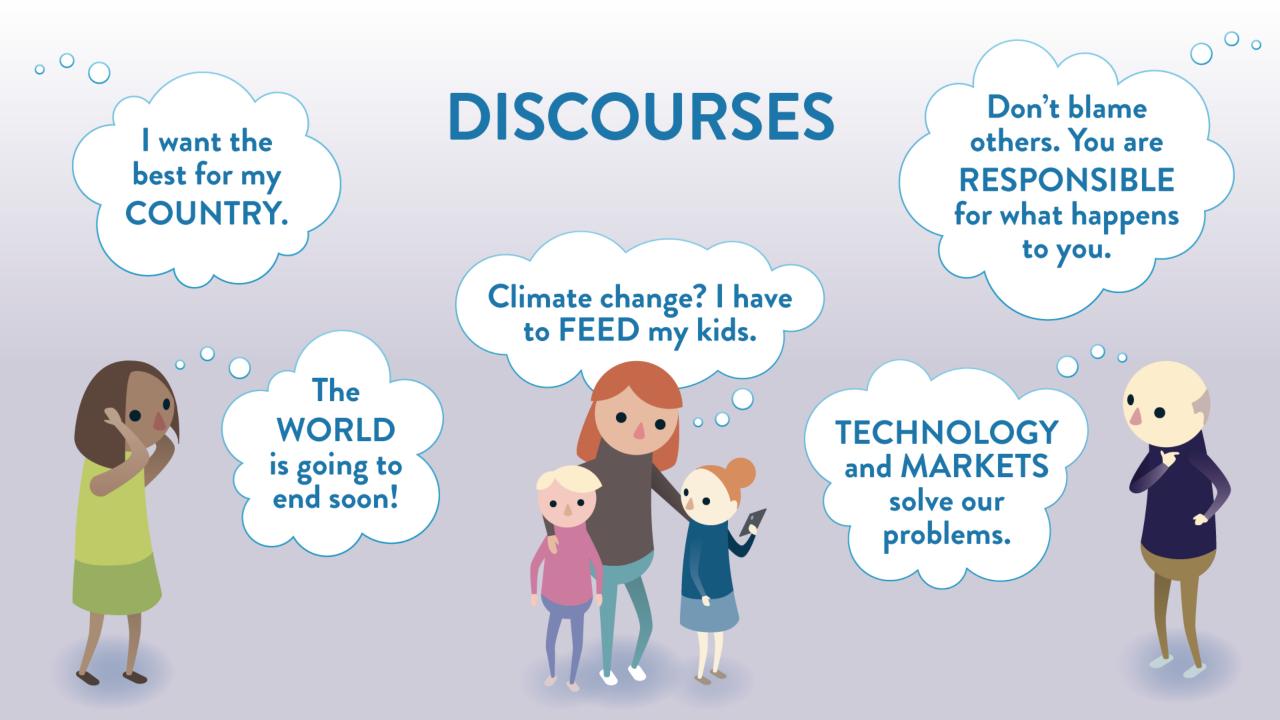


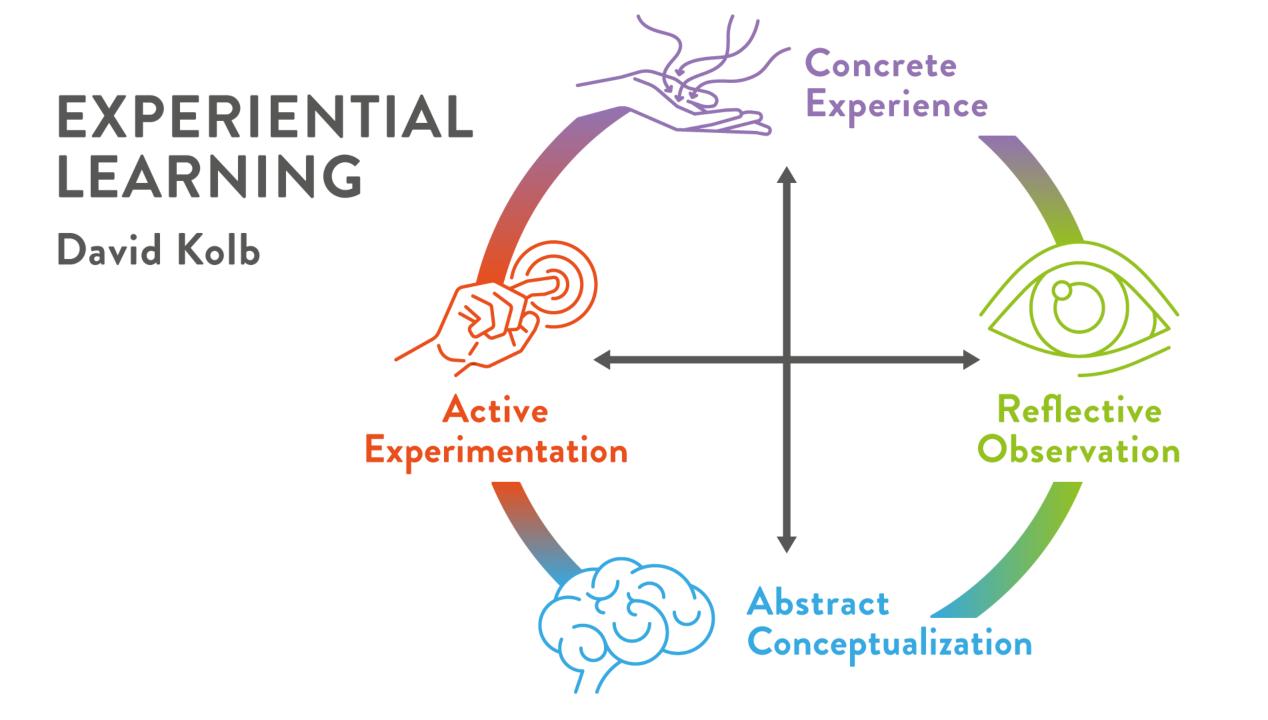
Raw Materials Challenge

https://engage.socialsimulations.org/cop26

Sessions for:

Cascades Consortium, AAAS, The World Academy of Science, Carnegie Europe, International Network for Government Science Advice.







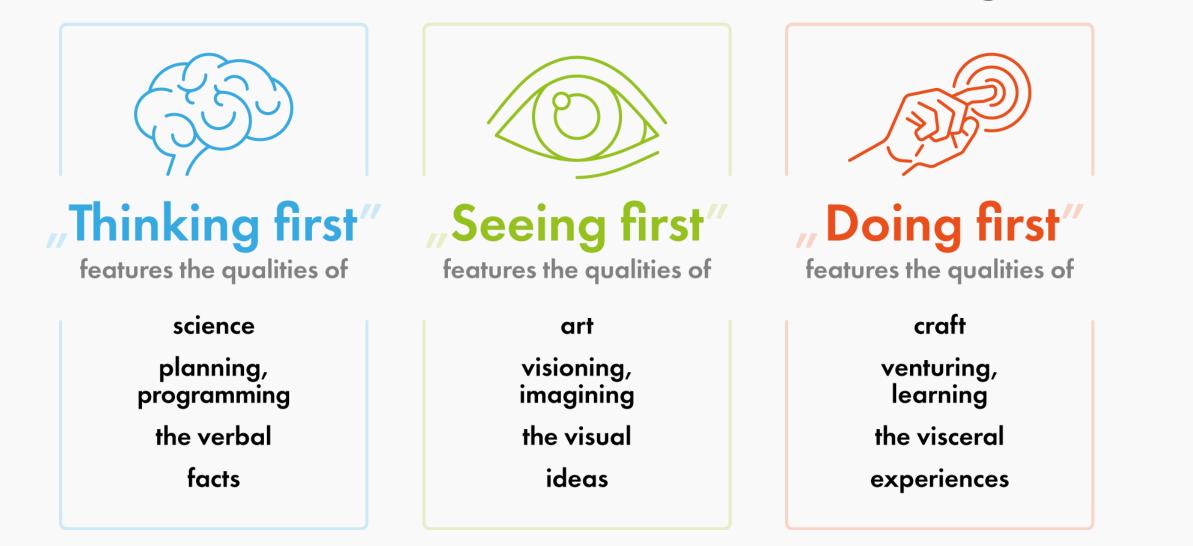
MAGAZINE SPRING 2001

Decision Making: It's Not What You Think

Henry Mintzberg and Frances Westley • April 15, 2001

Mintzberg, H., & Westley, F. (2001). It's not what you think. *MIT Sloan Management Review*, 42(3), 89-93.

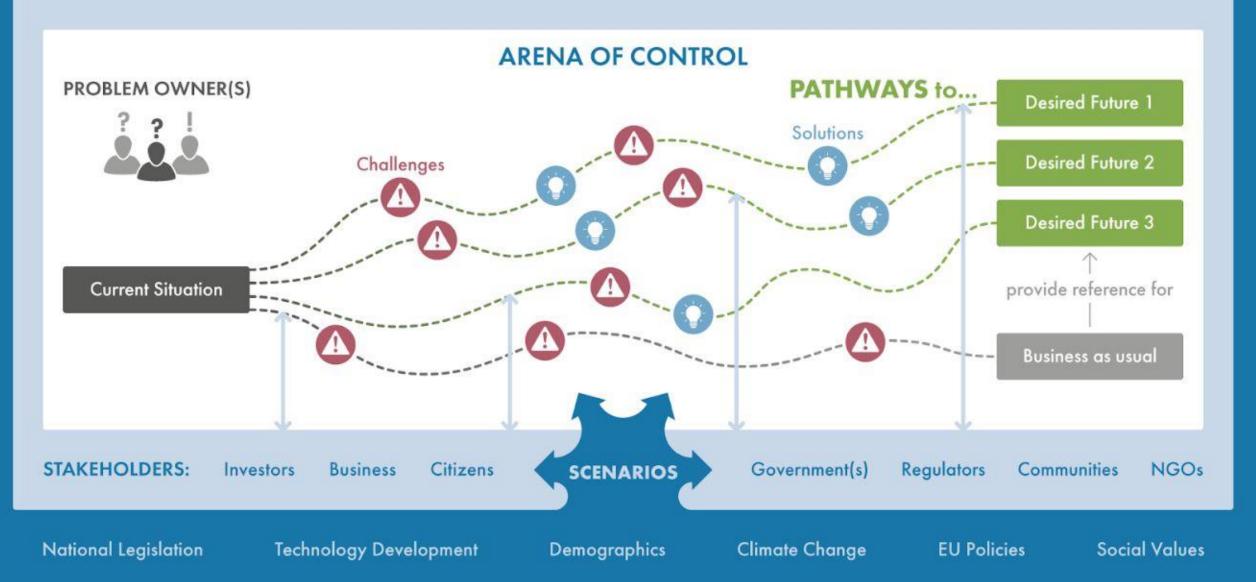
Different Approaches to Decision-making



Mintzberg, H., & Westley, F. (2001). It's not what you think. *MIT Sloan Management Review*, 42(3), 89-93.

UNCERTAINTY SPACE

ARENA OF INFLUENCE



5. STAKEHOLDERS' DIALOGUE

1. REAL-WORLD PROBLEM SITUATION

4. DEBRIEFING

2. SIMULATION CO-DESIGN

3. SIMULATION PERFORMANCE











