Resources for Sustainable Development: Challenges, Opportunities, Outlook

Keynote by Bas de Leeuw, Managing Director, World Resources Forum, Member Club of Rome

EXPERT GROUP ON RESOURCE MANAGEMENT (EGRM) WORKSHOP UNFC AND UNRMS: TOOLS FOR MANAGING RESOURCES FOR SUSTAINABLE DEVELOPMENT, 29 APRIL 2019, PALAIS DES NATIONS, GENEVA

WHAT WE DO

STAKEHOLDER DIALOGUE

- Leading multi-stakeholder processes that strengthen international cooperation and result in concrete action
- Advancing international cooperation primary and secondary materials actors (H2020)
- Turning waste into resources for development (Africa, Latin America, Asia)
- Setting standards: International Workshop Agreement on Secondary Materials Recycling

KNOWLEDGE CENTRE

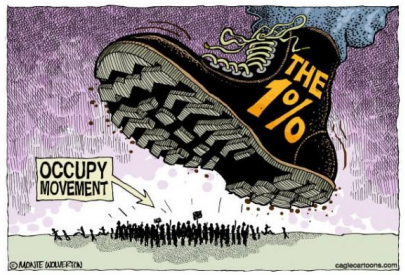
- Bringing knowledge closer to people by sharing research solutions with decision makers
- UN Environment International Resource Panel online library
- Resource Revolution Trainer (MOOC) Coupling sustainability with excellence
- The E-waste Challenge (MOOC) Taking action towards circular economy

FLAGSHIP CONFERENCE

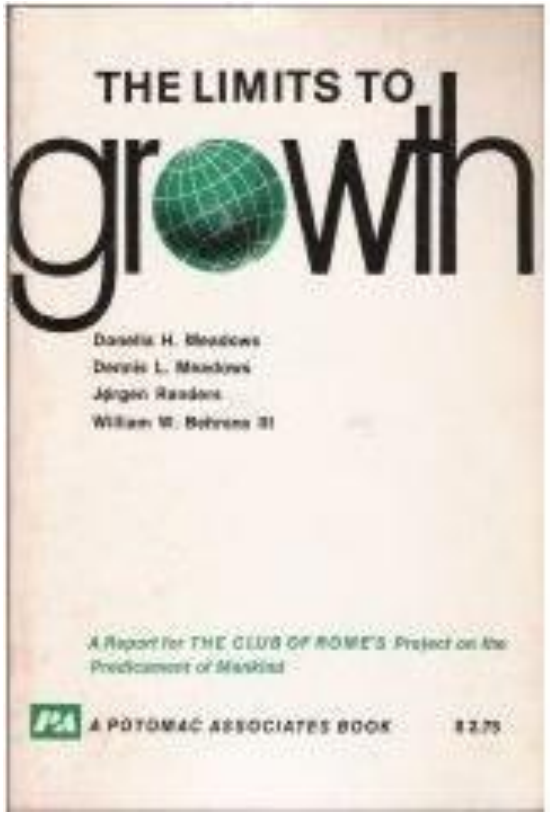
- Global and multidisciplinary
- 5000 – 1000 participants
- Knowledge exchange and debate
- Interactive panels, lively discussions, workshops, side events and scientific sessions
- WRF Cinema and Photo & Art Gallery

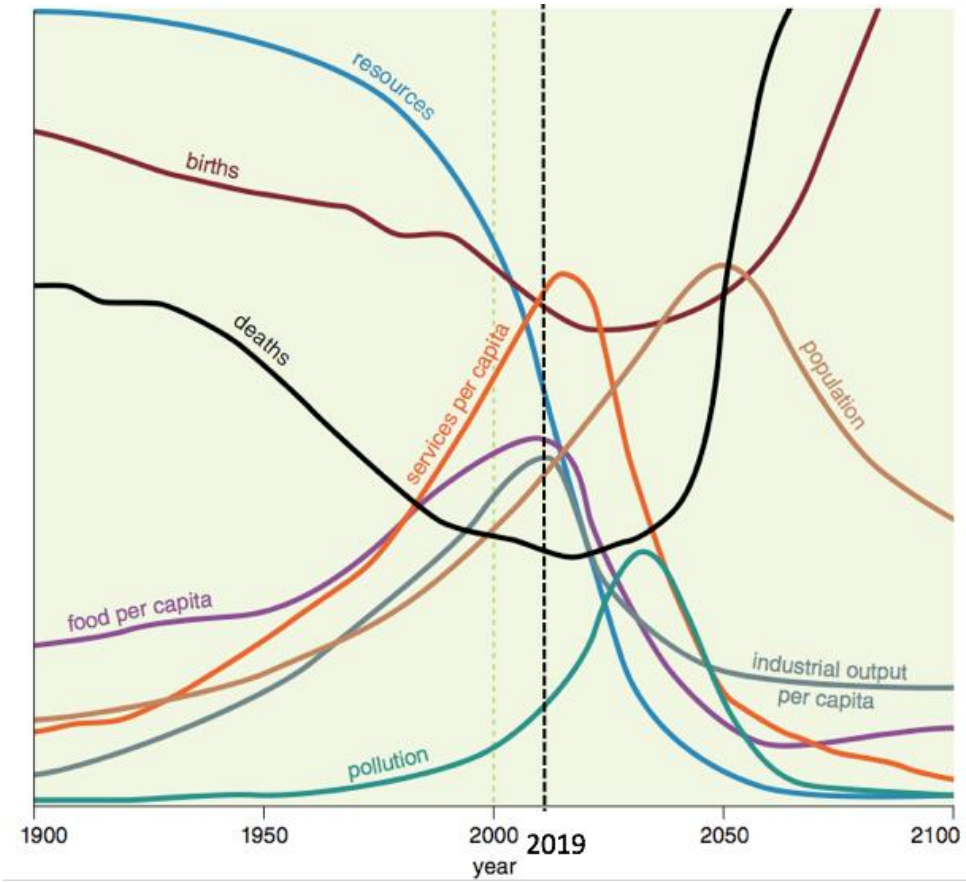
Sign of Hope – 20 Years Ago

"It is becoming more and more evident that consumers are increasingly interested in the "**world that lies behind**" the product they buy. Apart from price and quality, they want to know **how and where and by whom** the product has been produced. This increasing awareness about environmental and social issues is a **sign of hope**. Governments and industry must build on that".



Don’t Panic! – 50 Years Ago





GLOBAL RESOURCES OUTLOOK 2019

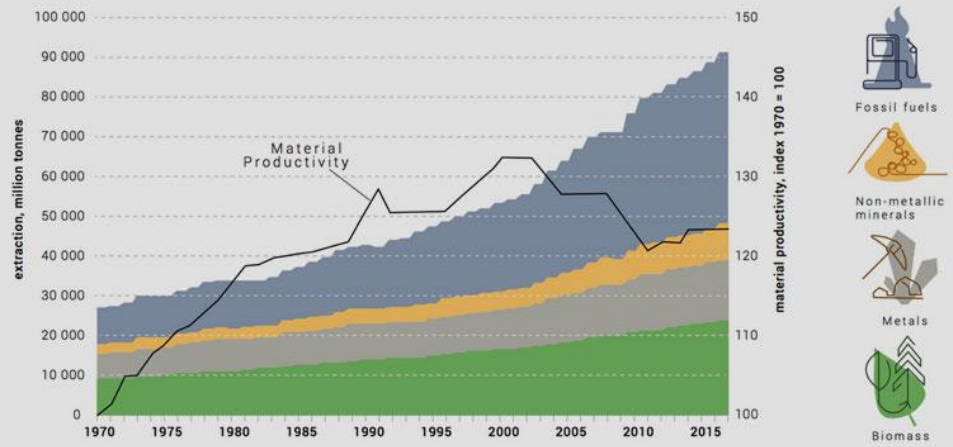
UN environment

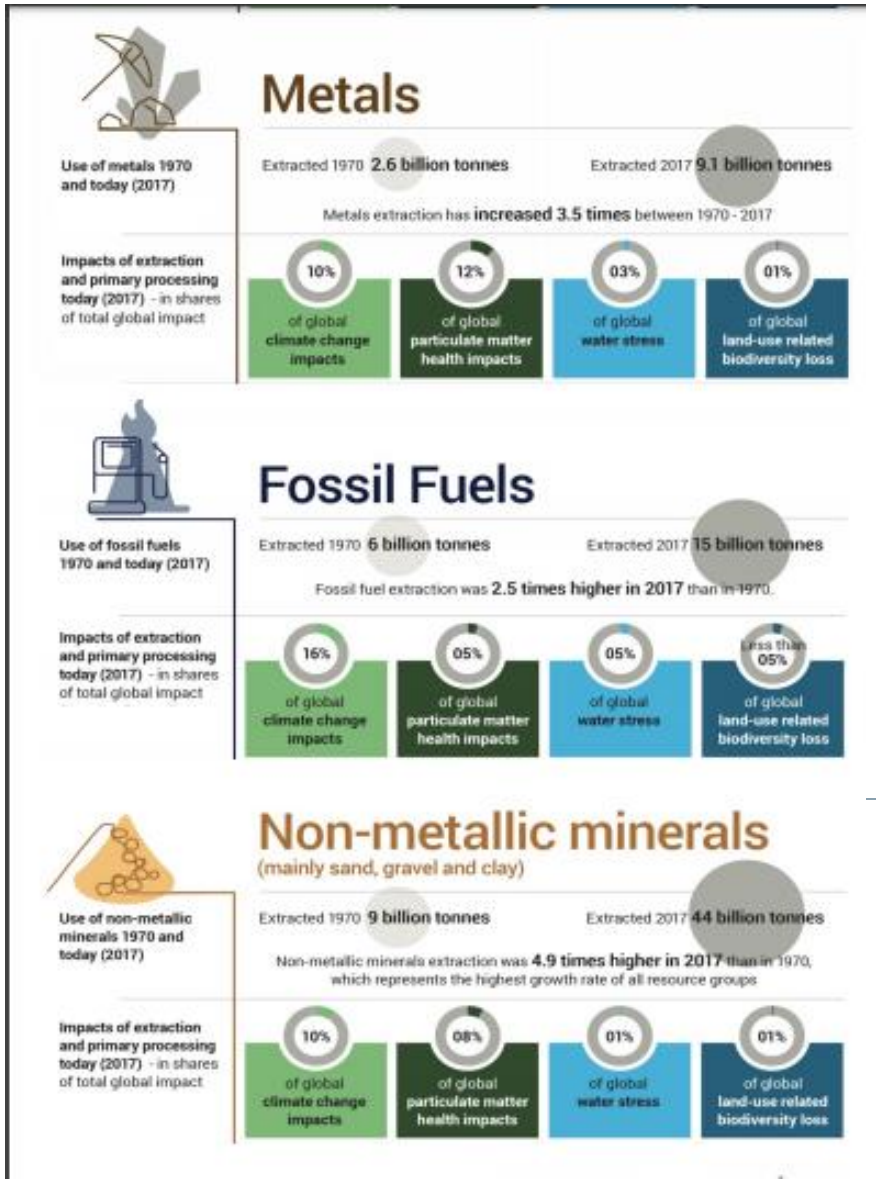
International Resource Panel

Key messages

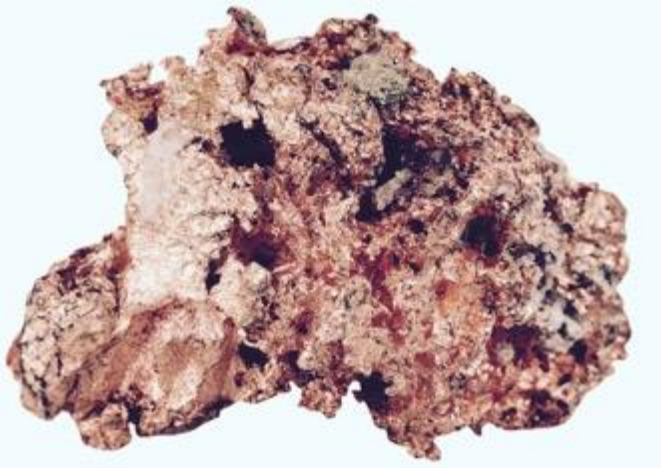
01. The use of natural resources has more than tripled from 1970 and continues to grow.

| Figure 2. Global material extraction, four main material categories, 1970 - 2017, million tons



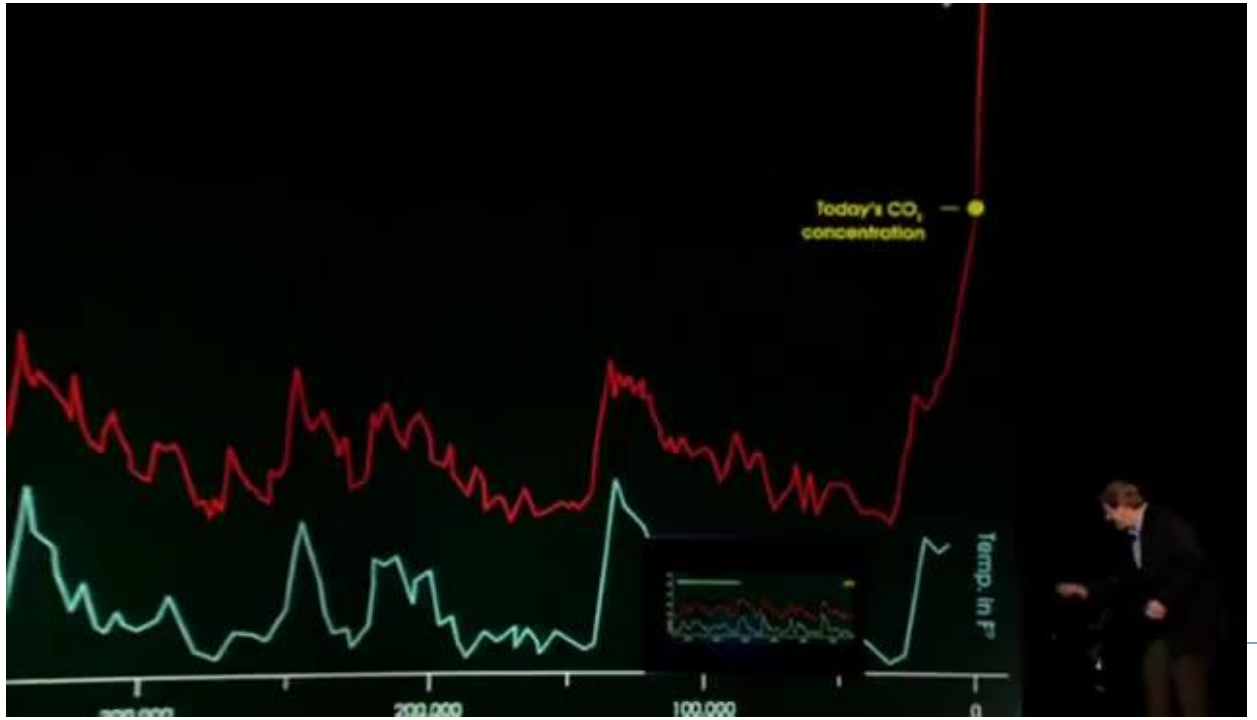


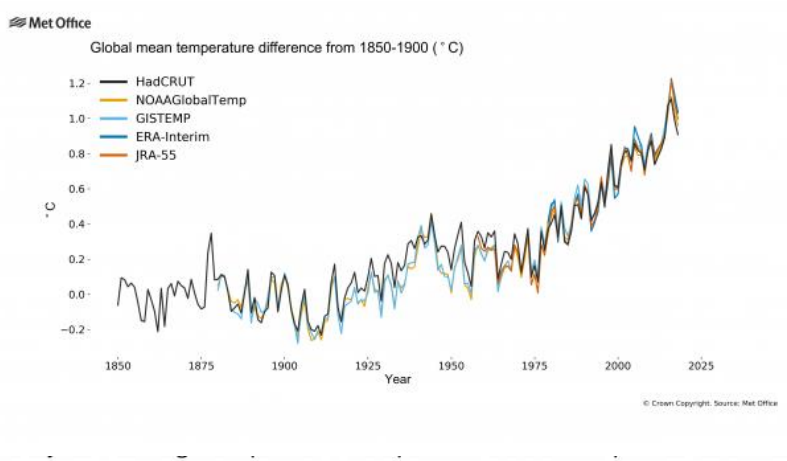
Resources are getting scarce

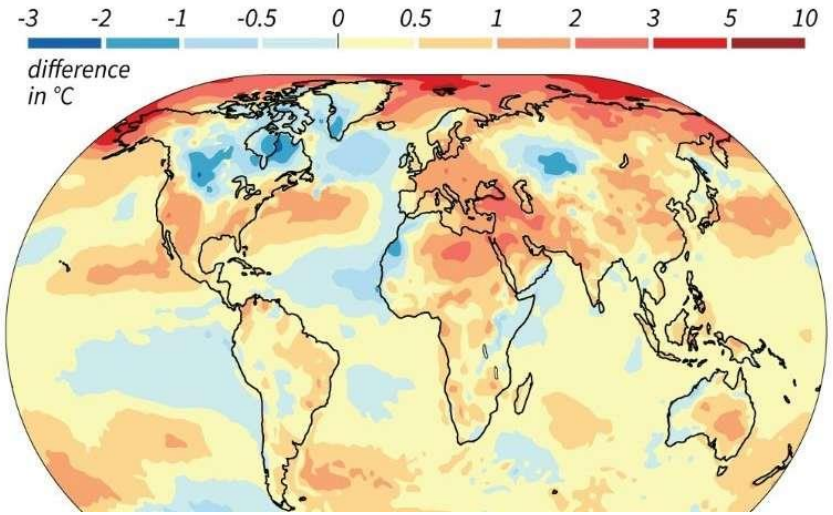


- Physical limits
- Political risks
- Price volatilities
- Environment and health impacts
- Social impacts (poverty, labor conditions)

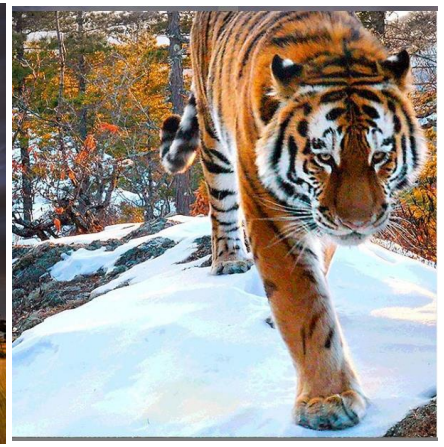
What More Science do we need?







This is (still) Our Planet



Greta in her Own Words

*"And when I say that **I want you to panic** I mean that we need to **treat the crisis as a crisis**.*

*When your house is on fire you don't sit down and talk about how nice you can rebuild it once you put out the fire. **If your house is on fire you run outside** and make sure that everyone is out while you call the fire department. **That requires some level of panic.***

*There is one other argument that I can't do anything about. And that is the fact that I'm "just a child and **we shouldn't be listening to children.**" But that is easily fixed - **just start to listen to the rock solid science instead**. Because if everyone listened to the scientists and the facts that I constantly refer to - then no one would have to listen to me or any of the other hundreds of thousands of school children on strike for the climate across the world. **Then we could all go back to school."***

We should let them go back to school …

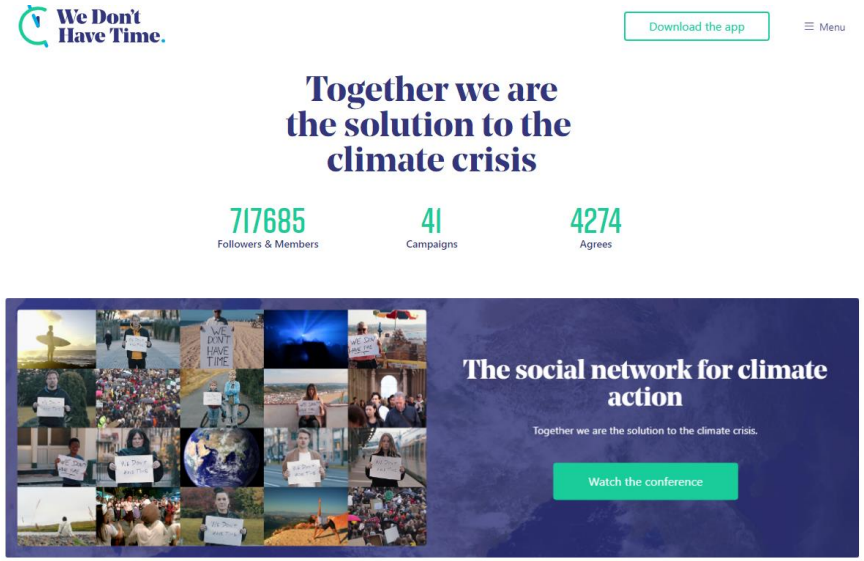
We Love the Earth, it is Our Home

I mean, there's so many people out here who don't think Global Warming's a real thing. You know?

We gotta save this planet.
We're being stupid
Unless we get our shit together now.

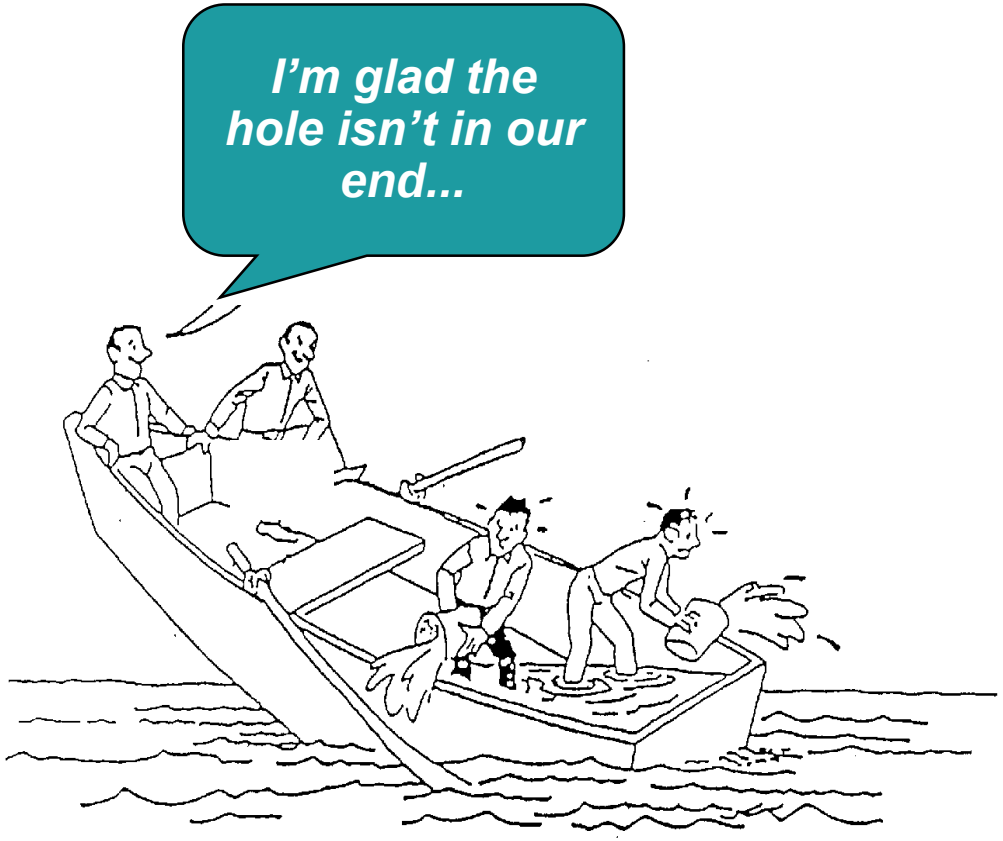
Featuring:
Zac Brown, Brendon Urie, Hailee Steinfeld, Wiz Khalifa, Snoop Dogg, Kevin Hart, Adam Levine, Shawn Mendes, Charlie Puth, Sia, Miley Cyrus, Lil Jon, Rita Ora, Miguel, Katy Perry, Lil Yachty, Meghan Trainor, Joel Embiid, Tory Lanez, John Legend, Psy, Bad Bunny, Kris Wu, Lil Dicky, Backstreet Boys, Leonardo DiCaprio

The Club of Rome Supports Global Student Climate Protests

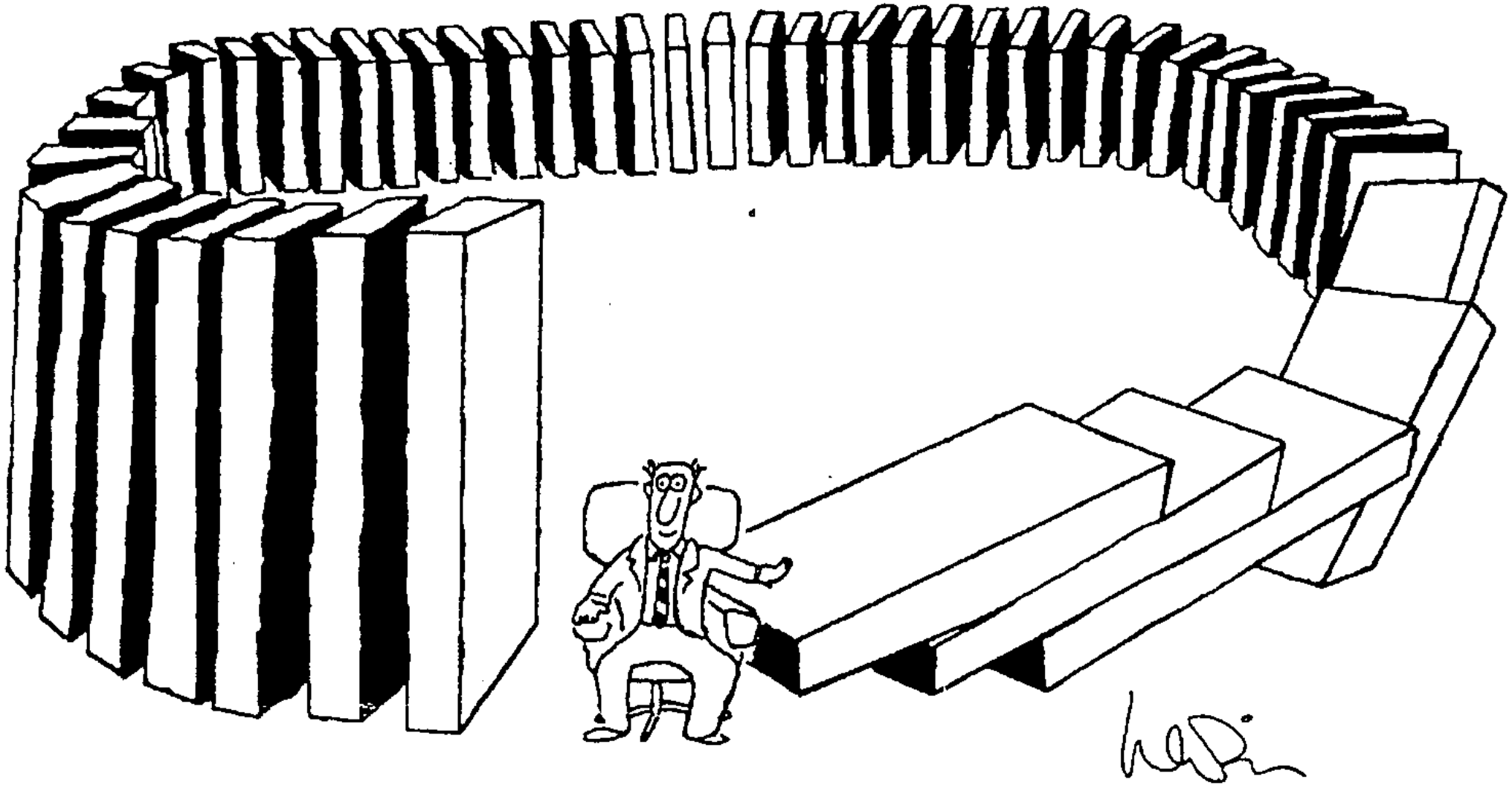


Georg Dallmann | Wolfgang Dallmayer | Isa Dallmer-Zerbe | Lea Irene Dambly | Dr. Juliane Dame | Prof. Dr. Martin Dameris | Christoph Damerius | Dr. Matthias Damert | Dr. Atha Damken, Ph.D. | Dr. Georg Damm | Hannes Damm | Dr. Christian Dammann | Dr. Philip Dammann mmermann | Dr. Barbara Dammers | Jürgen Dammers, Ph.D. | Dr. Melanie Dammhahn ehl | Christopher Danek | Xuan-Thuy Dang | Prof. Dr. Elsbeth Dangel-Pelloquin | Dr. f. Dr. Jens Dangschat | Dr. Christian Daniel | Dr. Claudia Daniel | Michaela Danie min Daniels | Dr. Judith Daniels | Dr. Swintha Danielsen | Dr. Benjamin D | Tobias Dannenberg | Prof. Dr. Peter Dannenmann | Armin Danner | D Prof. Dr. Simone Danz | Jasmin Danzberger | Jens Danzeglocke Karin Danzer | Prof. Dr. Michael Danzer | Dr. Joachim Danzig | M . Dietrich Darr | Christian Darsow-Fromm | Ali Darudi | Abhishek keit | Dr. Markus Daschner | Dr. Annette Dathe | Prof. Dr. Holge Dr. Jens Dauber | Dr. Harald Däubler | Lukas Daubner | Felix atharina Daume | Dr. Sabine Daume | Dr. Stefan Daume | Dr d David | Felix David | Prof. Dr. Eldad Davidov | Dr. Franziska Da | Dr. Thomas Dax | Thomas Day | Dr. Susana de Andrade | Dr. Laura | Gabriela De Carvalho | Alejandro De Castro Mazarro, Ph.D. | Dr. Mar Graaf | Dr. Peter de Haan van der Weg | Dr. Livia de Hoz | Laura de Jo hristian de la Motte | Dr. Ulrike de Langen-Müller | *Bas de Leeuw* | Felipe t de Lussanet | Teresa De Marzo | Guy de Morsier | Dr. Maria Clara de Paula Couto | Tamara de Riese | Ariane De Rocchi | Angela De Rose | Fenja De Silva-Schmidt | Dr. e Souza | Joseph P. De Veaugh-Geiss | Dr. Lukas De Ventura | Dr. Jean-Pierre Paul de Vera | Dr. Dav urriaan Michiel de Vos | Dr. Philipp de Vrese | Nicole de Vries | Farina de Waard | Ubbo de Witt | Isabel Dean | Dr. Nienke Debats | Prof. Stefan Debener | Jörg Debus | Dr. Laure

SCIENTISTS FOR FUTURE



Old-school "leaders"



Old-school politicians: “I throw it away”

Trapped in the System

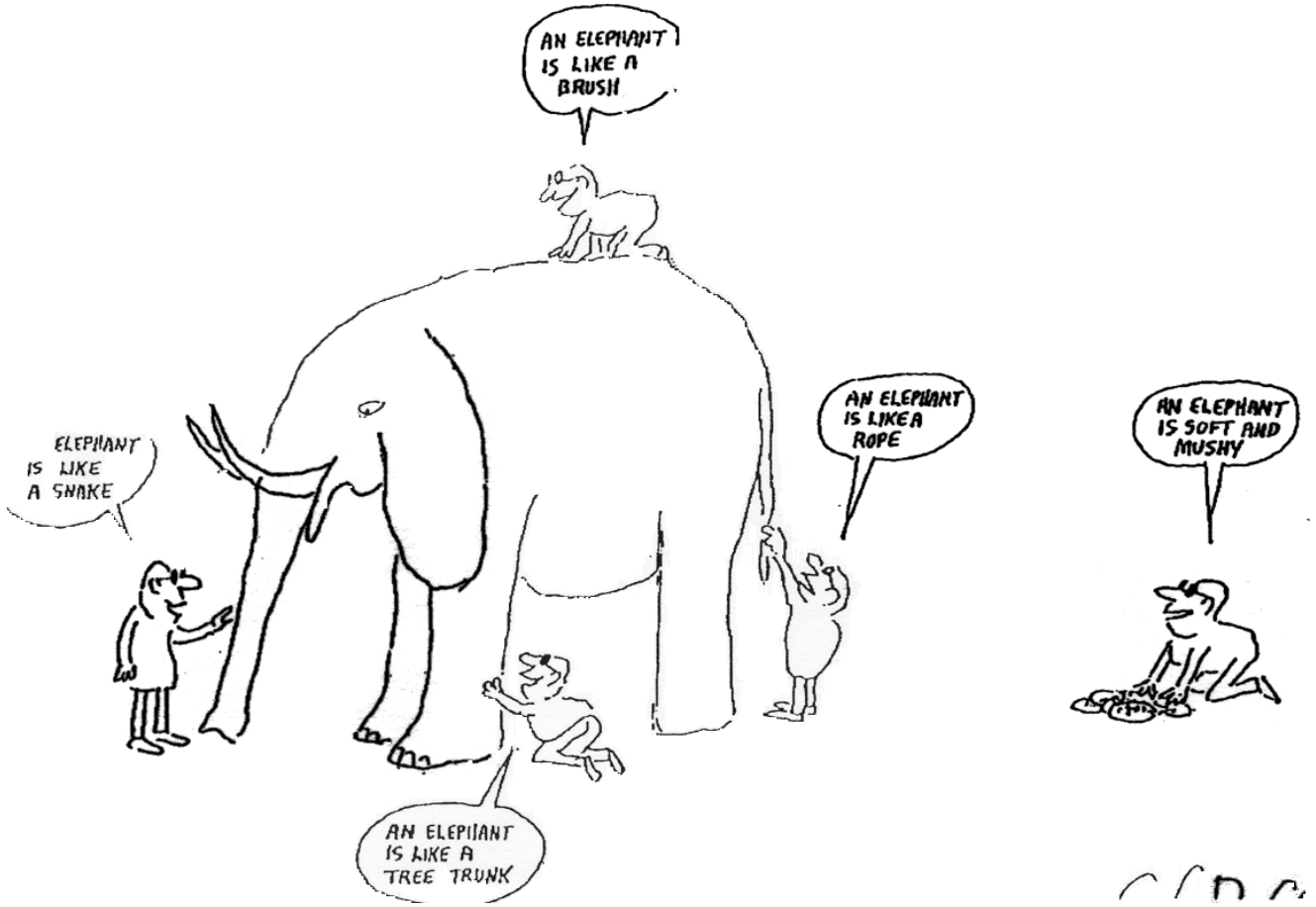
Kids should shut up because they have mobile phones, eat *fastfood* and go on holidays. And there is a movement behind them …

Celebrities should shut up because they fly around in private jets and only do things for the money

Scientists should shut up because they produce #fakenews and visit too many conferences themselves

Business should shut up because they don't do enough and only do things for the money

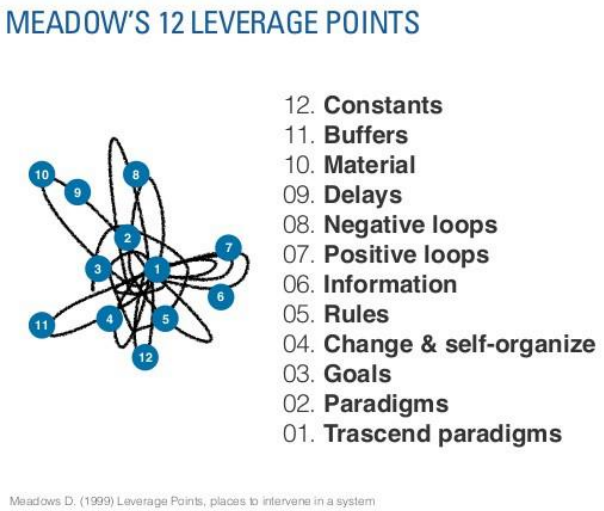
Politicians should shut up because you can't trust them anyway …

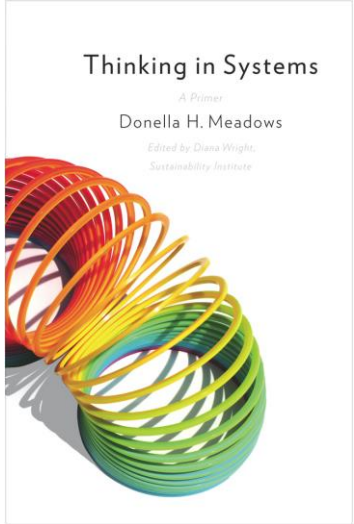


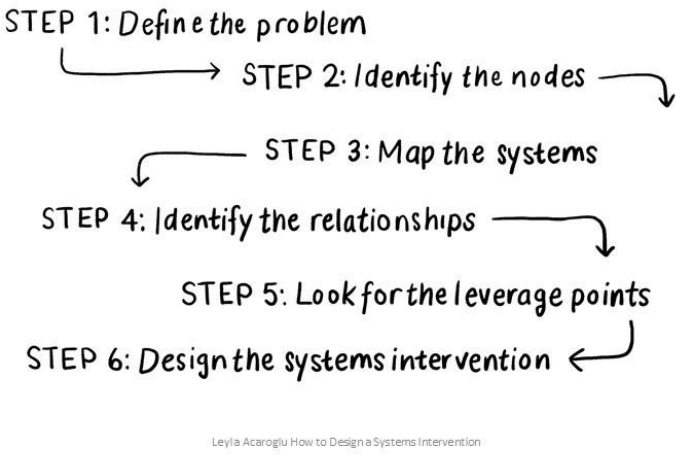
Zoom out

System Thinking

Then zoom in again …







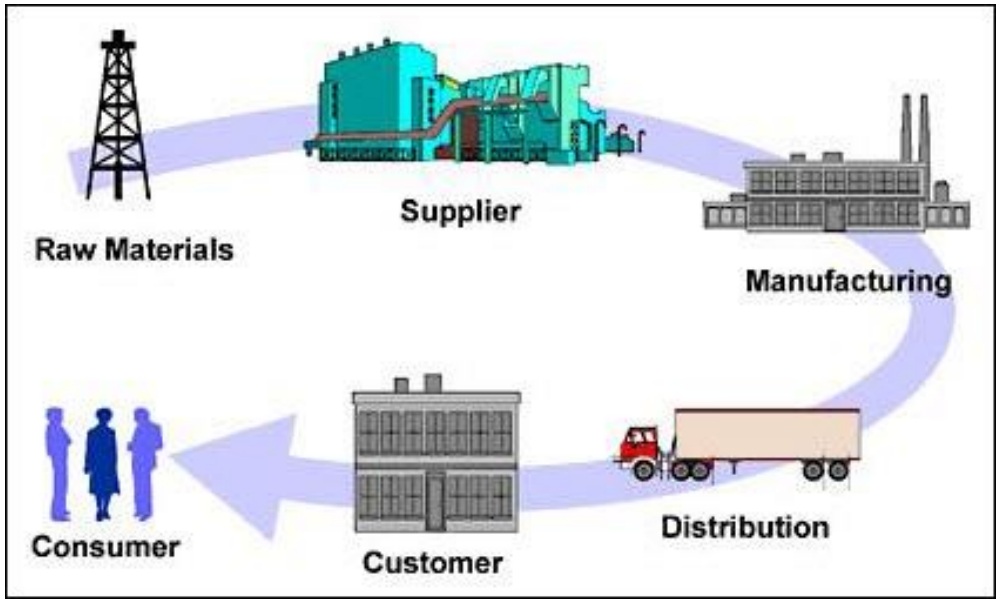
UNSCHOOL

Leverage points
- places to intervene in a system - where **small** changes can lead to **large** shifts of behavior

Make it complex to make it simple

Do you want to influence (convince, inspire, seduce, inspire, force) billions/ millions of actors … or thousands/hundreds/dozens professionals?

- Conventions, Multilateral Agreements, Regulations, Taxes, Standards
- Improve Governance
- But of course also keep talking and reaching out



The Archetypical Supply Chain Diagram © www.theprogressgroup.com

Stepping up International Cooperation

- Steps to improve international cooperation will be discussed at the upcoming **Raw Materials Summit** in Berlin, 21 May 2019, organized by FORAM (WRFA/EGS) with EIT Raw Materials

- *"Anchoring Natural Resources and Raw Materials Management for Achieving Sustainable Consumption and Production*". Leading theme of **WRF 2019, Geneva**, October 23-24, 2019

FORAM
TOWARDS A WORLD FORUM ON RAW MATERIALS

- **UNEA5** (2021): Collect information on sustainable practices, identify knowledge gaps and options for implementation strategies, and undertake an overview of existing assessments of different **governance initiatives** and approaches on **sustainable management of metal and mineral resources**

International Resource Panel

THANK YOU AND LET’S STAY IN TOUCH

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A Personal Note