

# 2 Disciplines / Key Terminology

#### Lesson 02: Science Communication / Risk Communication

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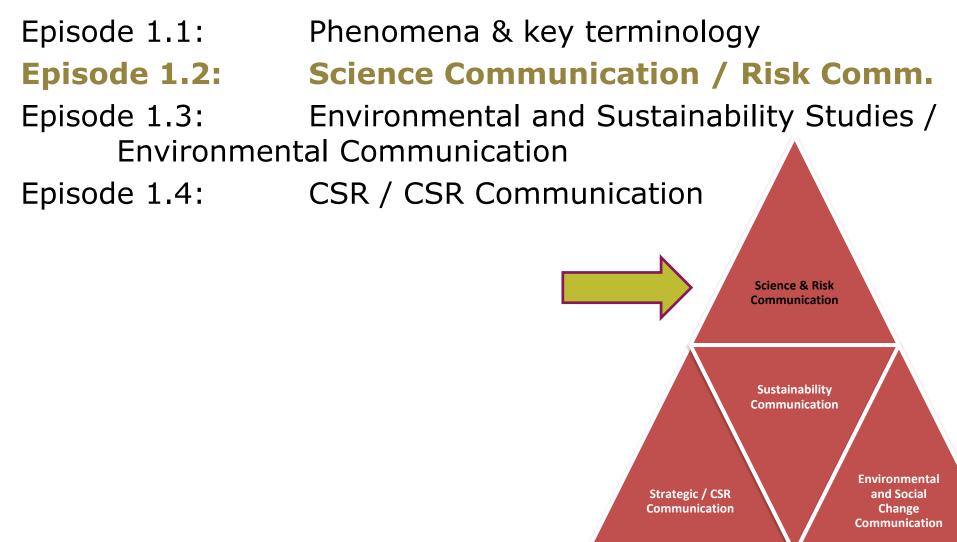
ZMML Zentrum für Multimedia in Lehre



Course: Sustainability Communication



#### Where are we?







#### Learning outcomes

#### **Learning outcome 1:**

**Describe** the diverse nature of contemporary practices of sustainability communication on an individual, organizational and societal level, the relationship of strategic communication practices to other public communication practices, the role of stakeholders and publics and the communication practitioners in and outside of organizations (corporate, NGO, political and educational institutions etc.)

#### **Learning outcome 2:**

**Develop** comprehensive and well-founded knowledge in sustainability communication as field of study, an understanding of how other disciplines relate to the field and an international perspective on the field.

#### **Learning outcome 3:**

**Understand** the key elements of communication theories, strategies and tactics, and, thus, the character and operationalization of best practice sustainability communication planning frameworks.

#### Learning outcome 4:

**Advance** your understanding of social and civic responsibility and develop an appreciation of the philosophical and social context of sustainability communication. Advance your knowledge and respect of ethics and ethical standards in relation to communication of, about and for sustainability.

#### **Learning outcome 5:**

Anticipate and Interpret current issues and challenges of a world in transformation and social change. Develop a deep understanding of and skills to create change, develop advocacy, leadership and authorship in and for sustainability communication.





#### Overview

- A. Changing Climate
- B. Science Communication
- C. Climate Change Communication





## A. A changing climate







# A. A changing climate





Source: private



### A. A changing climate







## A. A changing climate



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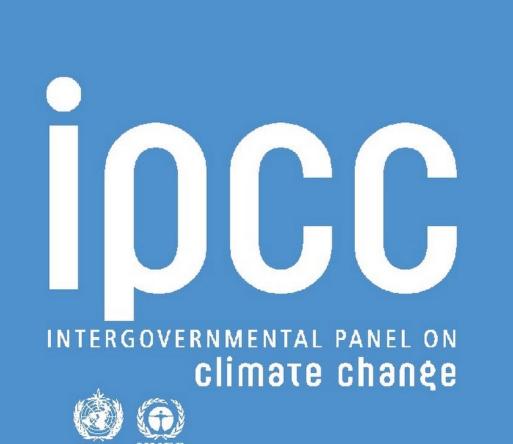
### A. A changing climate







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#### Scientific facts:

#### **Observed warming of the Earth's surface**

# Attribution of observed warming to human activities

In detail:

- Projected increases in future global mean temperature,
- rising sea levels, and
- increased frequency of heat waves.





#### A. A changing climate

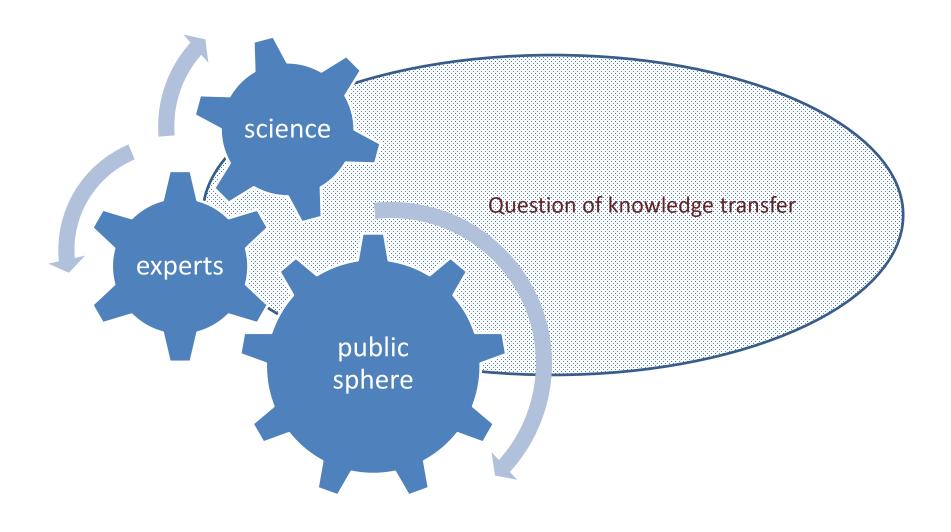


Do we (want to) understand this?





#### B. Science Communication





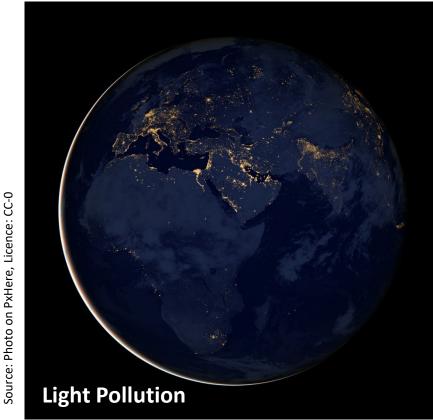


#### B. Science Communication

#### **Developments**

Formats and actors of science communication are diversifying (Bucchi &

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Presence of science in public conversations (Bauer, 2009)





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Presence of science in public conversations (Bauer, 2009)

Social conversations around science (sense / meaning making) (Bucchi & Trench, 2021)





#### B. Science Communication

Base model	Dissemination	Dialogue	Participation
Sci-comm applications	Deficit Defence Promotion Popularisation Outrea	h Engagement Consultation Interactivity Deliberation	on Chat Play Co-creation Film & Art-science fiction
Aspects of science	Findings: finished knowledge	lssues: applications and implications of knowledge	Processes: interpreting and (re-) constructing knowledge
Public uses	Information, awareness, learning	Questioning, opinion, discussion	Sharing, creating, enjoyment, critique
Social perspectives	Science literacy: scientism, technocracy	Science in society: Mode-2, post-normal, post-academic	Society in science: civic science, citizen science
Orientation	Purpo Hierard Form Close	nical Particip al Infor	batory mal
	Figure 1. Framework	of the social conversation arou	and science.



#### C. Climate Change Communication



Source: Photo by Jonathan Borba on Unsplash





### C. Climate Change Communication





Source: Photo by Jonathan Borda on Unsplash



# C. Climate Change Communication





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#### C. Climate Change Communication







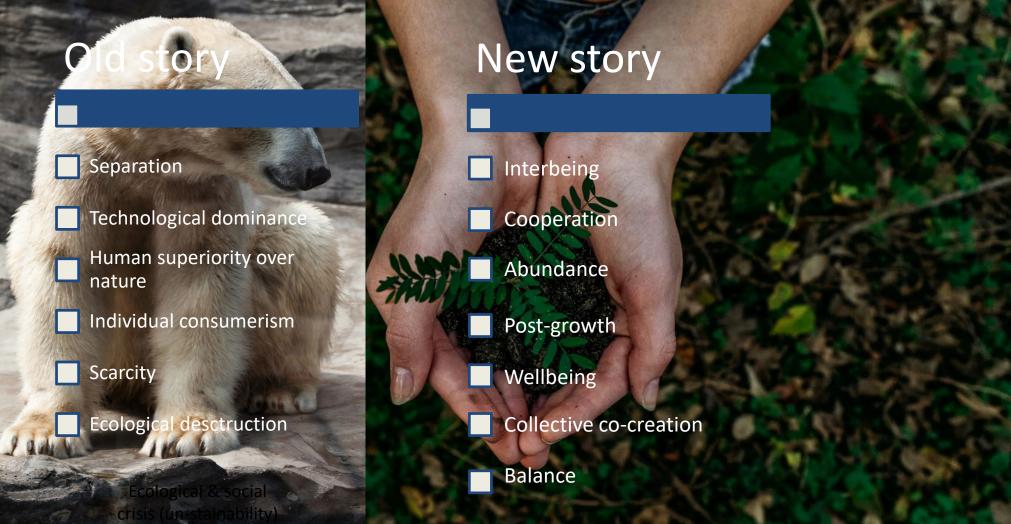
#### C. Climate Change Communication







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#### C. Climate Change Communication

#### **Perspective on Sustainability:**

Sustainability as counter narrative (solution?) to climate change







#### Challenge!



Science / CC Comm: Communication about & of climate change



Communication for change?





#### Reflection

- 1. Try to identify risk and climate change communication in the media
  - 1. Where is it communicated?
  - 2. How is it communicated?
- 2. What are the barrieres in communicating about climate change?
  - Why is iteasy to communicate about the crisis but not so easy to communicate about "change" and long term developments?
  - $_{\odot}\,$  Who are the dominant voices in the climate change discourse?
- 3. Try to define "expertise".
  - 1. Who are the "experts" always quoted / referred to in the media?
  - 2. What makes them an "expert"?
  - 3. Try to differentiate between expert and "public authority".

