

TRANSBOUNDARY CLIMATE RISKS (TBC)

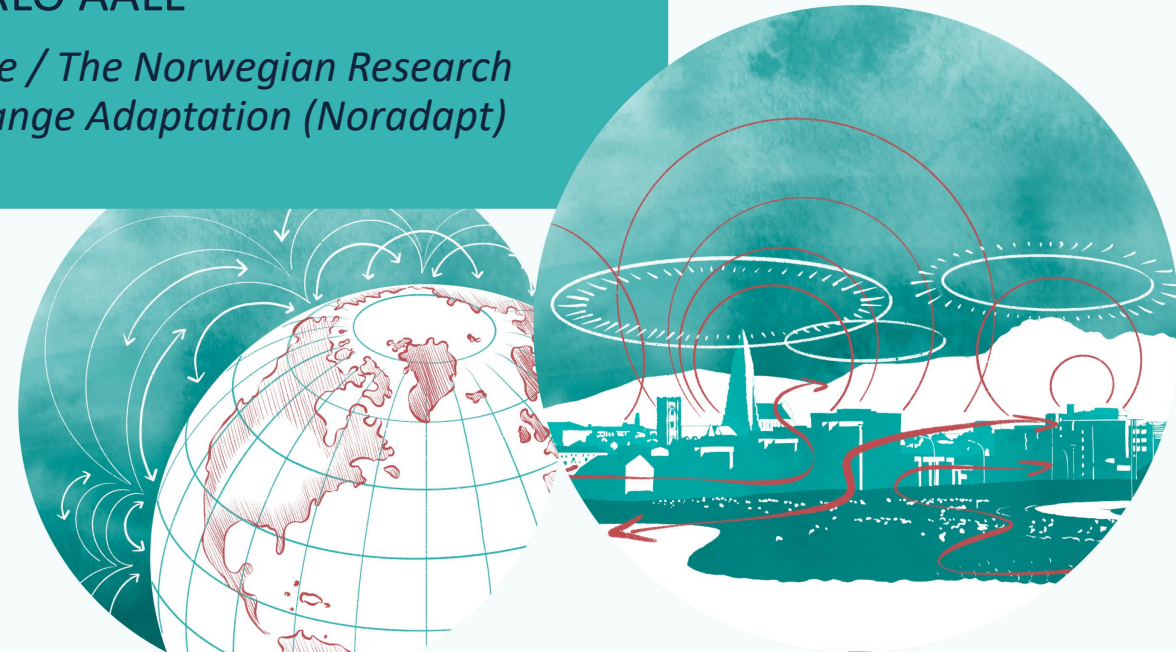
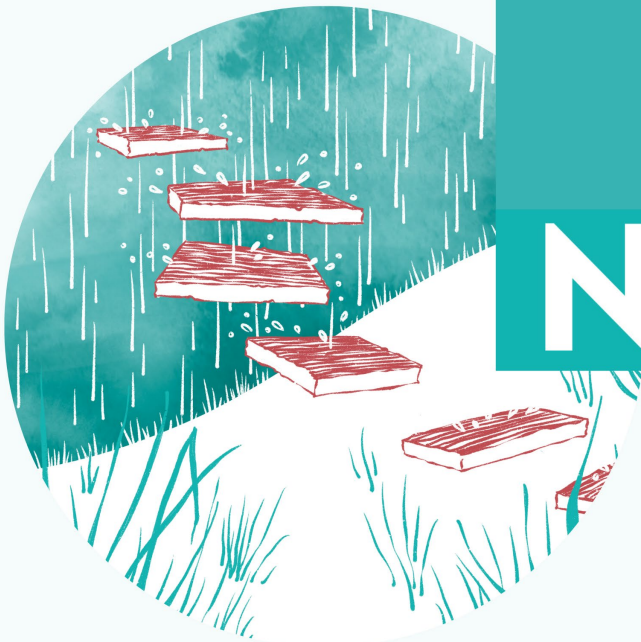
HOW DO TBC AFFECT LOCAL
COMMUNITIES/MUNICIPALITIES

HOW CAN MUNICIPALITIES BE MORE PROACTIVE IN
DECISION MAKING REGARDING TBC

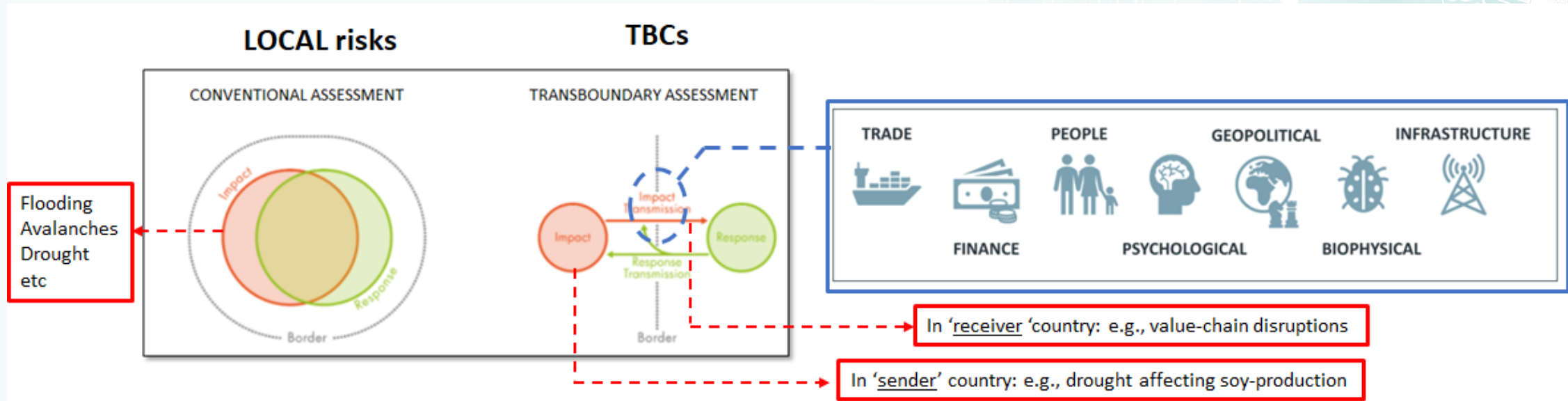
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Centre on Sustainable Climate Change Adaptation (Noradapt)*

NOCCA



WHAT IS TRANSBOUNDARY CLIMATE RISK (TBC)?



TYOLOGY OF ENVIRONMENTAL PROBLEMS

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		Cause	
		Concentrated	Dispersed
Impact	Concentrated	Local pollution from a factory	Acid rain causing fish death in Norwegian salmon rivers
	Dispersed	Radioactive fallout from nuclear power plants, e.g. Chernobyl	'The climate problem'

'Local environmental problem'

'Global environmental problem'

THE DISCONNECTION OF THE ADAPTATION AND MITIGATION CLIMATE DISCOURSES

NOCCA

Much of the responsibility has been assigned to **local** authorities

		Cause	
		Concentrated	Dispersed
Impact	Concentrated	Adaptation to conventional 'local' climate risks	
	Dispersed		Mitigation of GHG emissions

Much of the responsibility has been assigned to **national** authorities

THE RECONNECTION OF THE CLIMATE DISCOURSES

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		Cause	
		Concentrated	Dispersed
Impact	Concentrated	Adaptation to conventional 'local' climate risks	Adaptation to transboundary climate risks Mitigation of GHG emissions
	Dispersed		

Who 'owns' this 'new' type of climate risk?

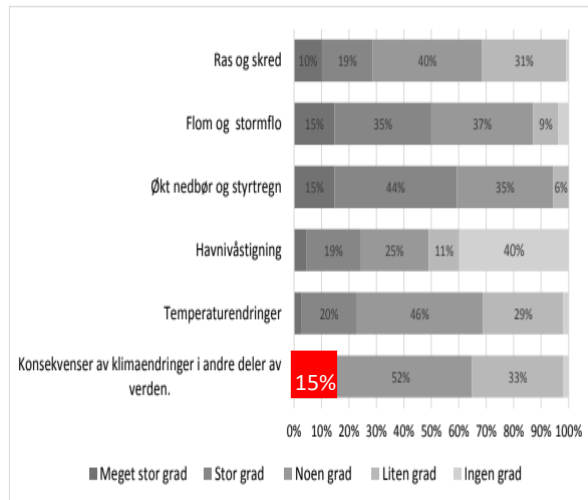
TBCs ARE RISING ON THE CLIMATE AGENDA - EVEN THE LOCAL ONE

EXAMPLE FROM IN NORWAY



Q: TO WHAT EXTENT DO YOU THINK THAT YOUR MUNICIPALITY (COUNTY IN 2022) WILL BE AFFECTED BY VARIOUS ASPECTS AND EFFECTS OF CLIMATE CHANGE?

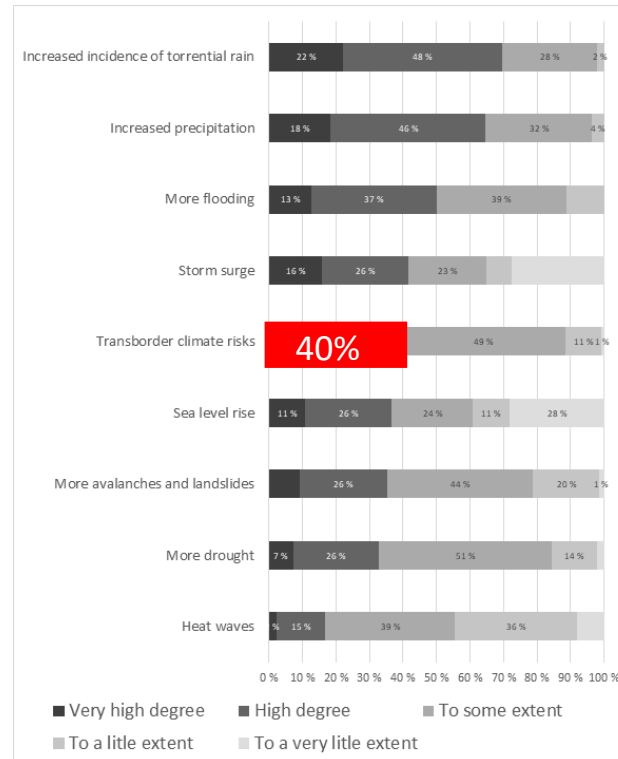
2015



(representatives of local authorities; response rate 27%)

https://www.ks.no/contentassets/87146f43e9f346e18991ceb748236ac9/klimatilpasning_nasjonal_sporreundersokelse_april2018.pdf?fbclid=IwAR2-CIHN-1FF5wW12aQrZLwNriZ0UrsVhVq8Bz1-Tgbe0tol7RWWhkADi8

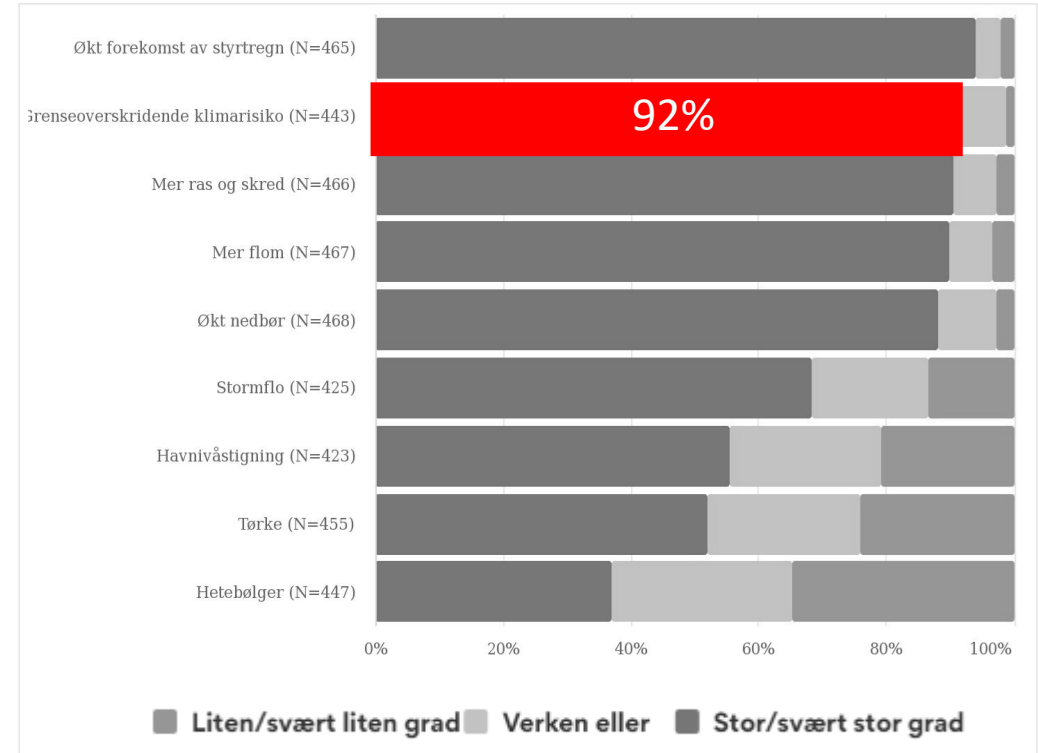
2020



(representatives of local authorities; response rate 42%)

<https://www.vestforsk.no/sites/default/files/2021-12/R-KS-kommuneunders%C3%B8kelsen2021.pdf>

2022



(representatives of all counties and county governors; n=423-468)

<https://klimamonitor.no/publikasjoner/klimakonsekvensar-fra-andre-land-kan-bli-den-storste-trusselen>

INCLUDING TBCs CAN TRANSFORM THE ADAPTATION AGENDA

THE CASE OF CLIMATE RISKS AND THE FOOD SECTOR IN NORWAY

- **Stage 1 (up to 2010): Economic modelling of climate related opportunities**

- “In Norway, a moderate temperature increase is expected, and this could increase production”

Government Green paper on climate change adaptation, 2010, p. 132

- **Stage 2 (after 2010): Inclusion of ecological assessments of climate risks**

- “.. increased temperature and rainfall could cause greater damage caused by existing and new plant pests such as insects, viruses and fungi”

Government White paper on climate change adaptation, 2013, p. 21

- **Stage 3 (2022): Inclusion of TBCs**

- “Climate change combined with other events may in extreme cases require rationing of food, also in Norway”

Press release from the Norwegian Environment Agency in connection with the launch of a report on TBCs, 2022



RECOMMENDATIONS FROM NOCCA

NOCCA



<https://www.norden.org/en/publication/policy-brief-stronger-together-climate-resilient-north-mainstreaming-adaptation-climate>

- Ensure transboundary climate risk assessment at the local level
- Enforce active dialogue between local and national authorities
- Urge that the topic of transboundary climate risks is moved up the agenda at the national level

ON MY PRIVATE TO-DO LIST! ☹️

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2022: Installing solar cells on my roof!



© Stock photo

2023: Planting potatoes in my garden!



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THANK YOU FOR YOUR ATTENTION!



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www.noradapt.info

[@allaboutclimate](https://twitter.com/allaboutclimate)

REFERECES

NOCCA

- Aall, C., Holm, T.B., Jansen, M., Julie Gobert, Florence Rudolf, Katy Jarris, Frida Lager (2023): Think global – act local: The challenge of producing actionable knowledge on transboundary climate risks for the local level of governance, submitted to *Frointers in climate, Climate Risk Management*
- Beringer, K., Lager, F., Holm, T.B., Tynkkynen, O., Klein, R.J.T., Aall, C., Dristig, A-, Määttä, H., Perrels, A. (2022): Nordic Perspectives on Transboundary Climate Risk. Current knowledge and pathways for action. TemaNord 2022:531. Copenhagen, Nordic Council of Ministers.
- Climate Monitor (2022). Survey of regional authorities in Norway (in Norwegian) <https://klimamonitor.no/publikasjoner/klimakonsekvensar-fra-andre-land-kan-bli-den-storste-trusselen>