



AARHUS UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL SCIENCE

TRANSECT og Klimatjenester på Aarhus Universitet (iCSC)

Hans Sanderson



iClimate Service Center (iCSC)

Climate Services - klimatjenester- handler grundlæggende om at tilføre værdi fra klimadata til information med brugerne og deres behov i centrum.

Støtte klimatilpasning og grøn omstilling

iClimate Service Center

Denmark has to reduce its total emissions by 70% by 2030. How can you participate to achieve that goal?

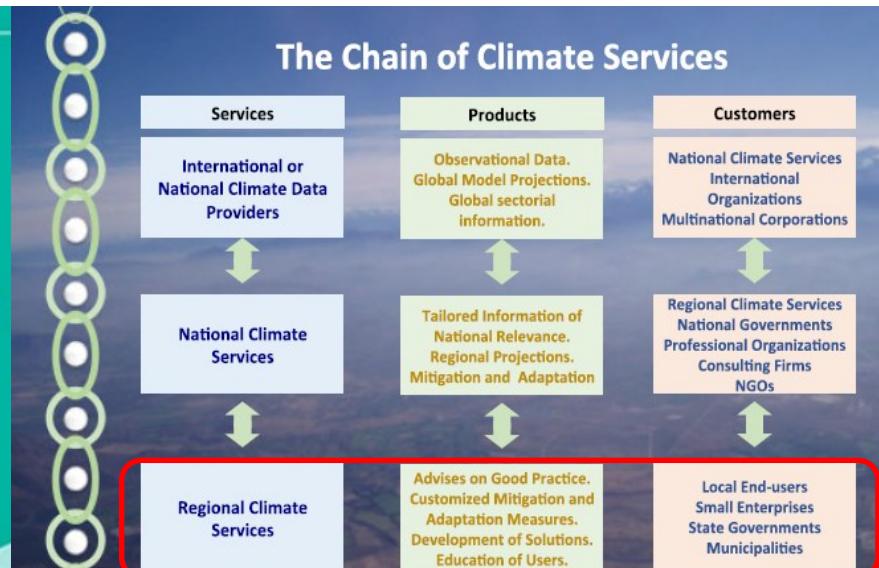


This is a huge societal challenge for all of us. Therefore, we from Aarhus University support companies, the state, regions and municipalities by providing our knowledge and targeting the research-based advice to the individual's needs, so we can accomplish the goal together.

Transfer knowledge with Climate Services to help:

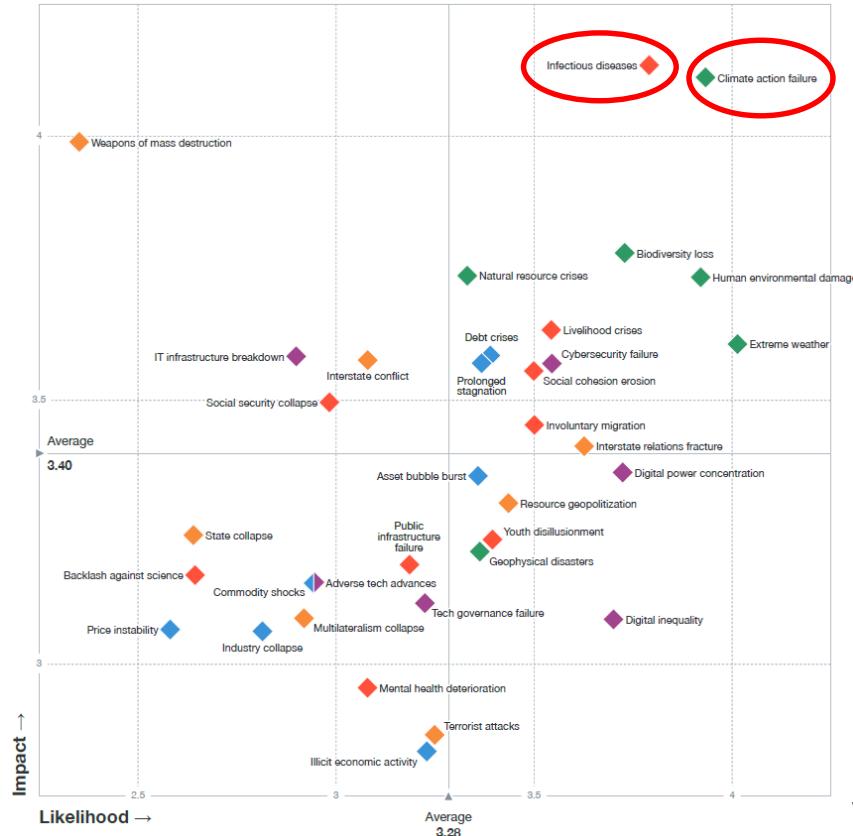
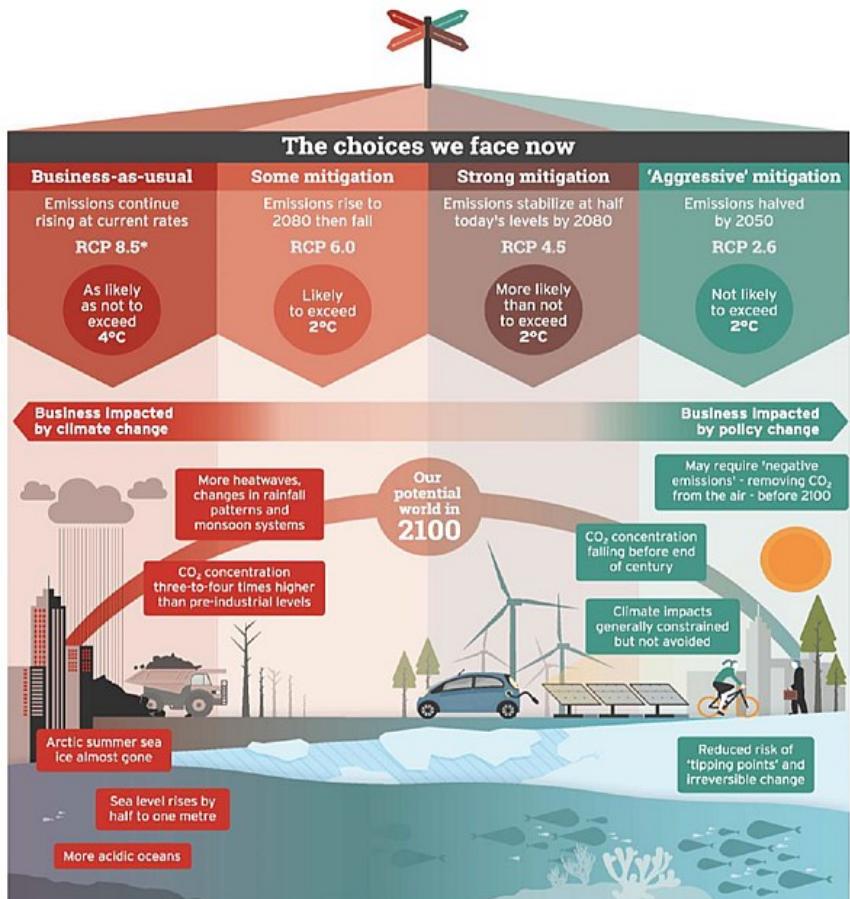


The Chain of Climate Services





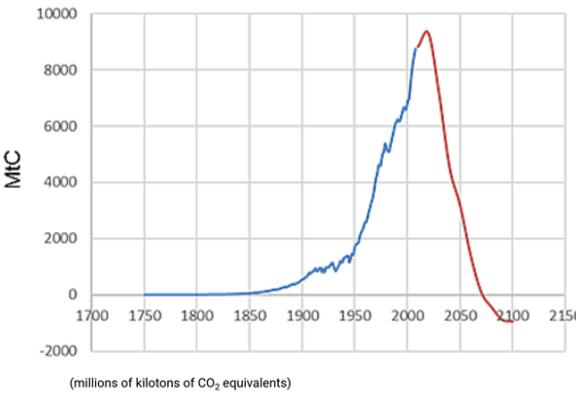
Klima risici – omstilling og fysiske



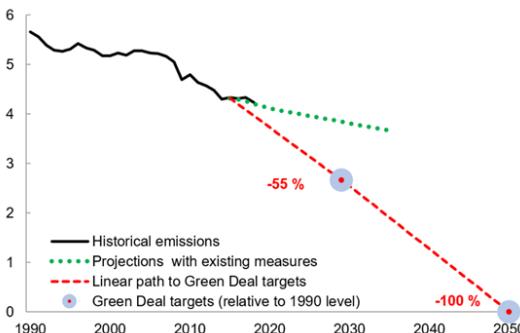
Klima handling



Past and future of Carbon emissions
(RCP 2.6)

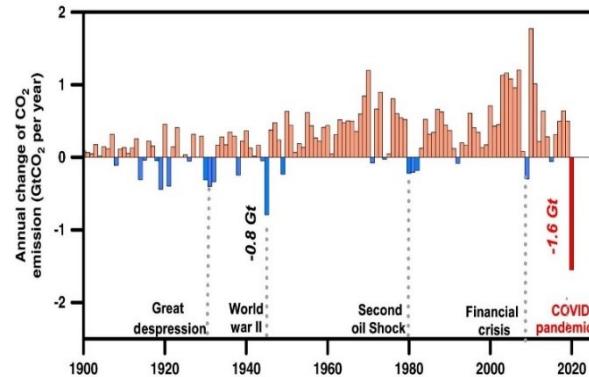
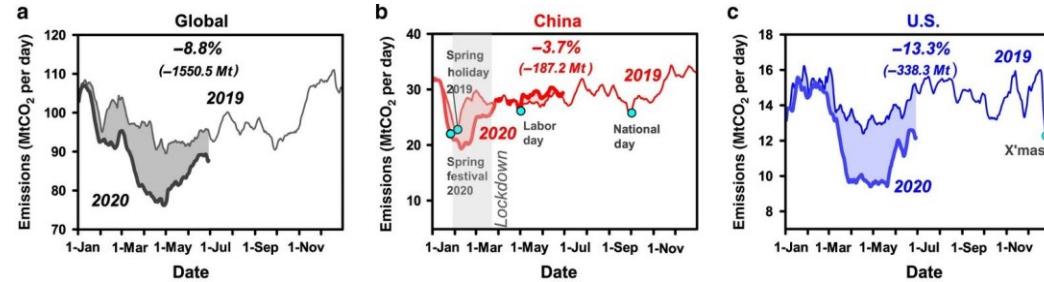


(millions of kilotonnes of CO₂ equivalents)



2020-2030 RCP1.5C =

**- 7.6% global annual
GHG emissions (UNFCCC,
2019)**



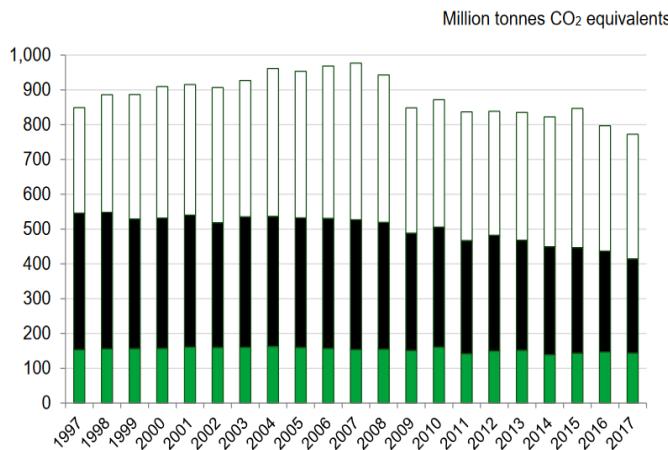
Liu et al. Nature Comm. 2020

Bæredygtige CO₂ opgørelser

Direkte udledninger (Scope 1)

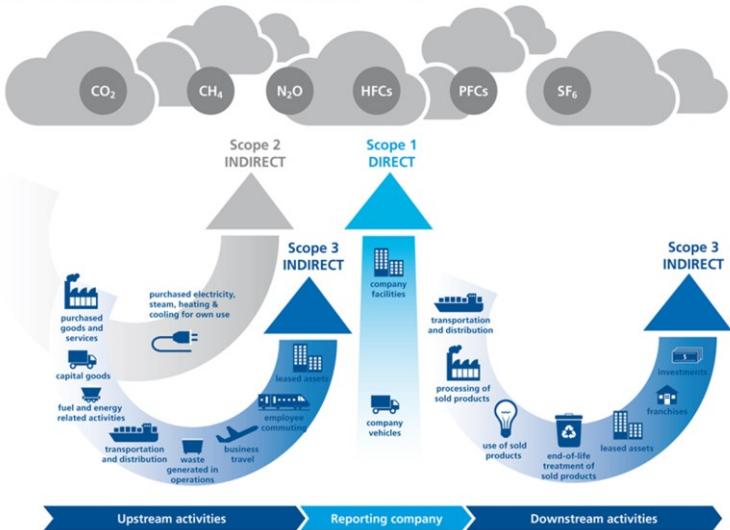
Indirekte udledninger (Scope 2)

Værdikæde/forbrug udledninger (Scope 3)

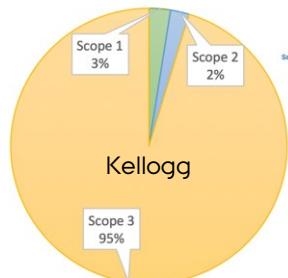


- GHG embedded in imported goods and services
- GHG from UK produced goods and services consumed by UK residents
- GHG generated directly by UK households

Overview of GHG Protocol scopes and emissions across the value chain



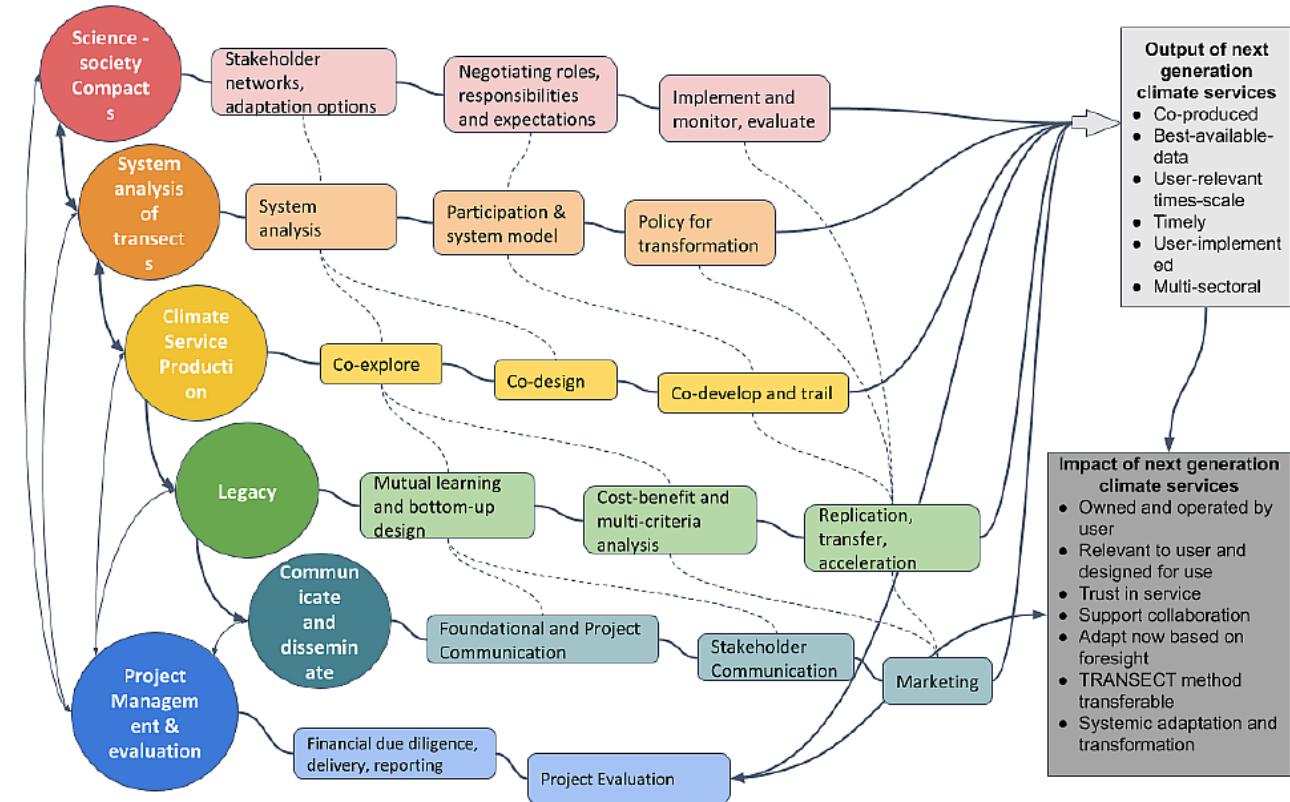
Source: myclimate.org - World Resources Institute & World Business Council for Sustainable Development, 2011.



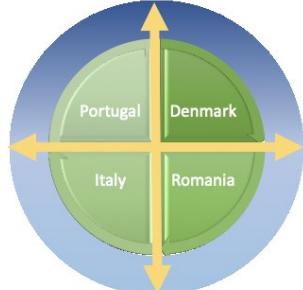
If you can't
MEASURE it
you can't **MANAGE** it.



Transect Horizon European projekt ansøgning

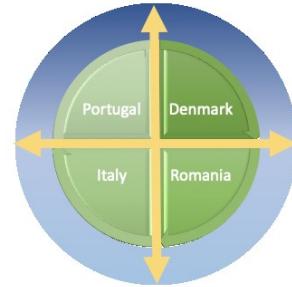


- Transekt case studie og deltagelse
- Parvis cases DK & RO – lavliggende og multifunktionel kyst
- Tilpasningsbehov → analysebehov
- Metodeudvikling og klimatjenester



Dansk case i Transect

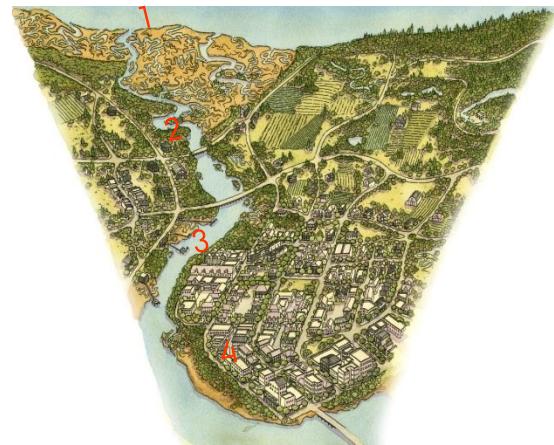
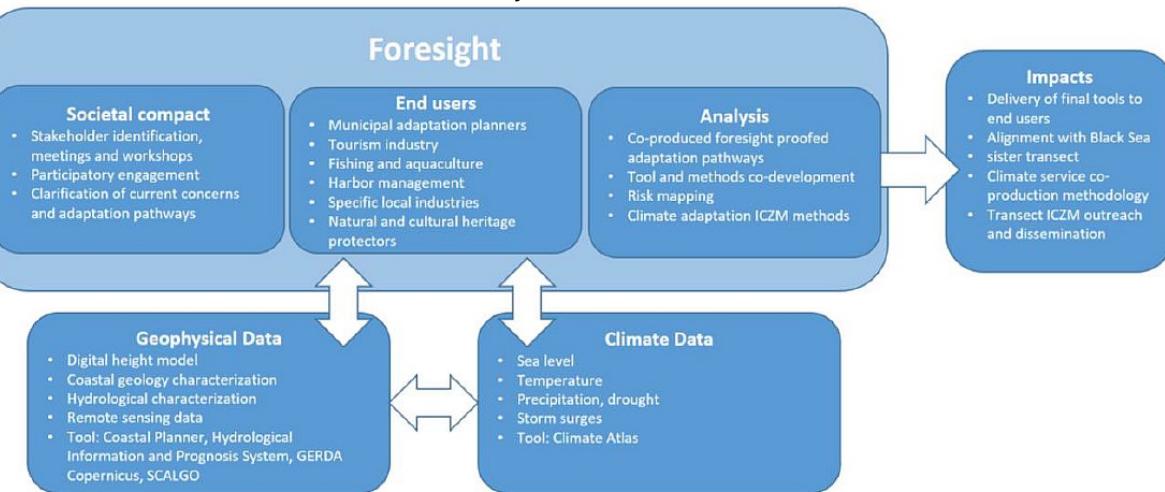
Co-creation – workshops i Klimatoriet – tilpasningsbehov på kort og **langt** sigt i hele regionen (C2C transek) ICZM co-benefits



Definer data-og klimatjenest analysebehov – oversæt fra data → relevant information

Impact og ejerskab

Partnerskab med ICZM Sorte Havs kyst rumænsk case



iClimate Service Center på AU

- › Samarbejder omkring både fysiske og omstillingsmæssige effekter af klimaforandringer – bæredygtig og løsningsorienteret fx indenfor:
 - Risikovurdering
 - Vand
 - CO2 regnskaber
 - Teknologier og løsninger
- › Få adgang til AU ekspertise på tværs af hele universitet via centeret
 - Få hjælp til at identificere risici, muligheder og løsninger klima og den grønne omstilling indebærer
 - Fra økonomi over geologi og ingeniørvidenskab
 - Støtte til at gå fra data til information og handling.



The screenshot shows the homepage of the iClimate Aarhus University Interdisciplinary Centre for Climate Change. The header includes the university logo, the center's name, and links for About, Research, Details, New Members, News and Events, Publications, and Contact. The main content area features a sidebar with navigation links for iClimate.aau.dk, Research, Services, New Members, News and Events, Publications, and Contact. The main content area displays a banner titled 'iClimate Service Center' with the subtext 'Denmark has to reduce its total emissions by 15% by 2020. How can you participate to achieve that goal?' Below the banner is a small image of a globe and a magnifying glass on an open book, with the caption 'This is a huge exciting challenge for all of us. Therefore, we have launched iClimate's important competence, the tools, resources and methodology for providing our knowledge and inspiring the researches found, and how to use individual's talents, or we can accomplish the goal together.'



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Tak

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