



**BE THE
CHANGE
YOU
WANT
TO SEE
IN THE
WORLD**



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KLIMAFORSK-Stort program klima

Nature-based solutions along rivers to safeguard biodiversity and improve climate adaptation in catchment areas under pressure

Benjamin Kupilas, Line Barkved (NIVA) Nikolai Friberg (NINA), and the SABICAS team

WORLD WATER DAY 2023
ACCELERATING CHANGE

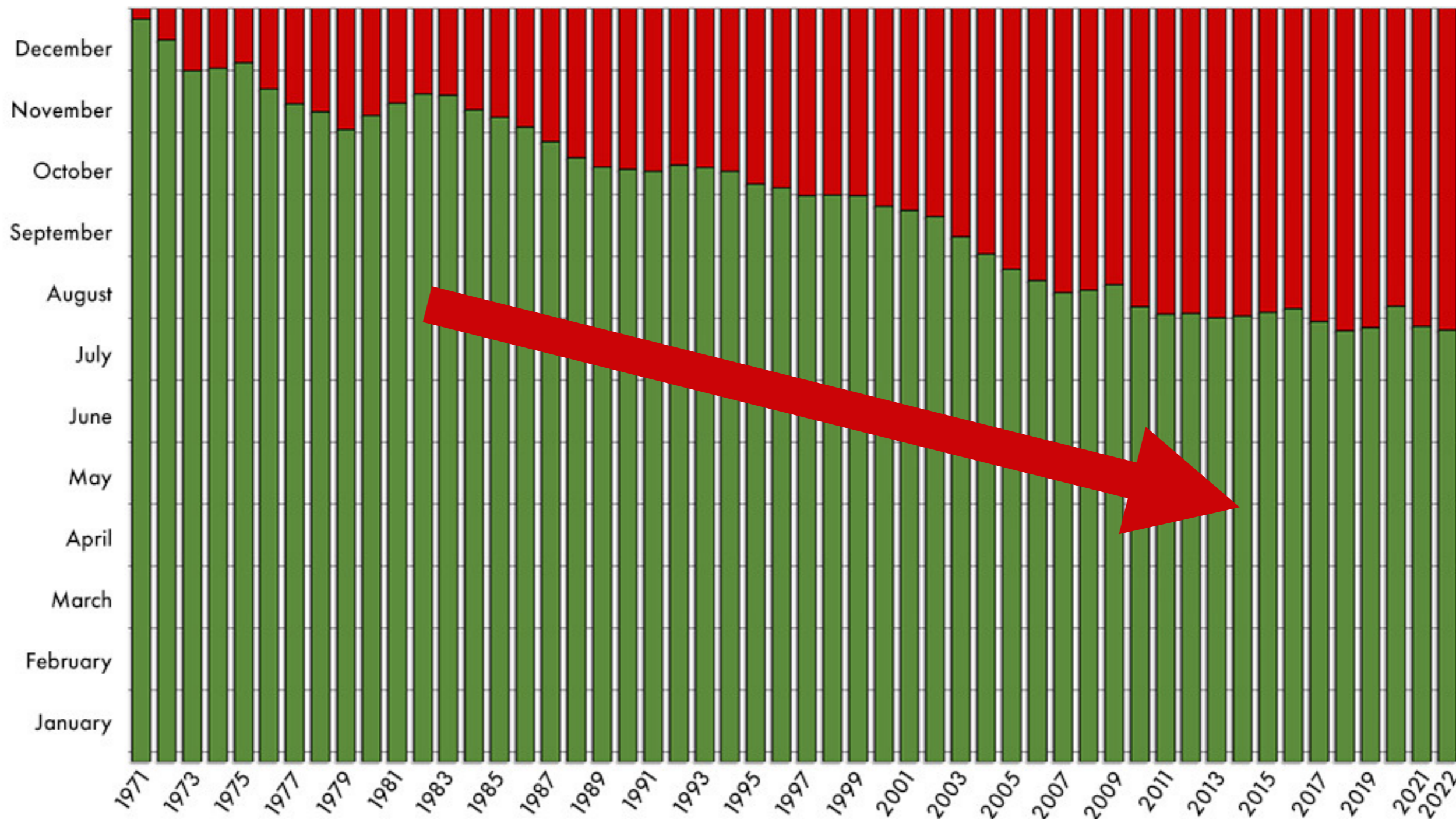


1 Earth

Earth Overshoot Day 1971 - 2022



1.75 Earths



Source: National Footprint and Biocapacity Accounts 2022 Edition
data.footprintnetwork.org



The Biosphere provides life support systems upon which prosperity and development ultimately rest.

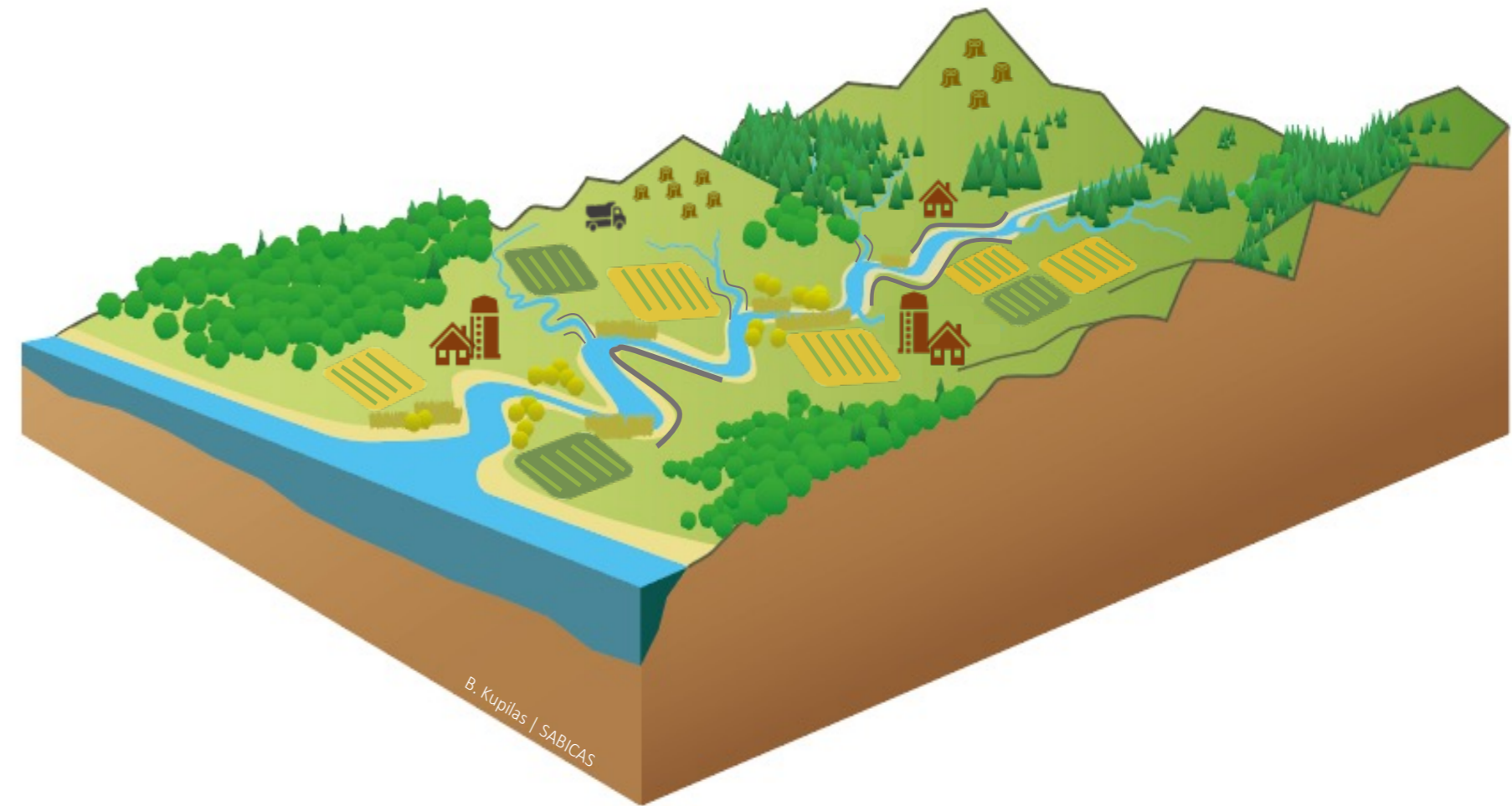


Source: Stockholm Resilience Centre

Freshwaters

Sentinels for truly transformative change

- Water 'flows' through all sectors
→ integrative element
- Aquatic systems as sinks
→ Sentinels for activities on land



Connect Land and Sea within river catchments



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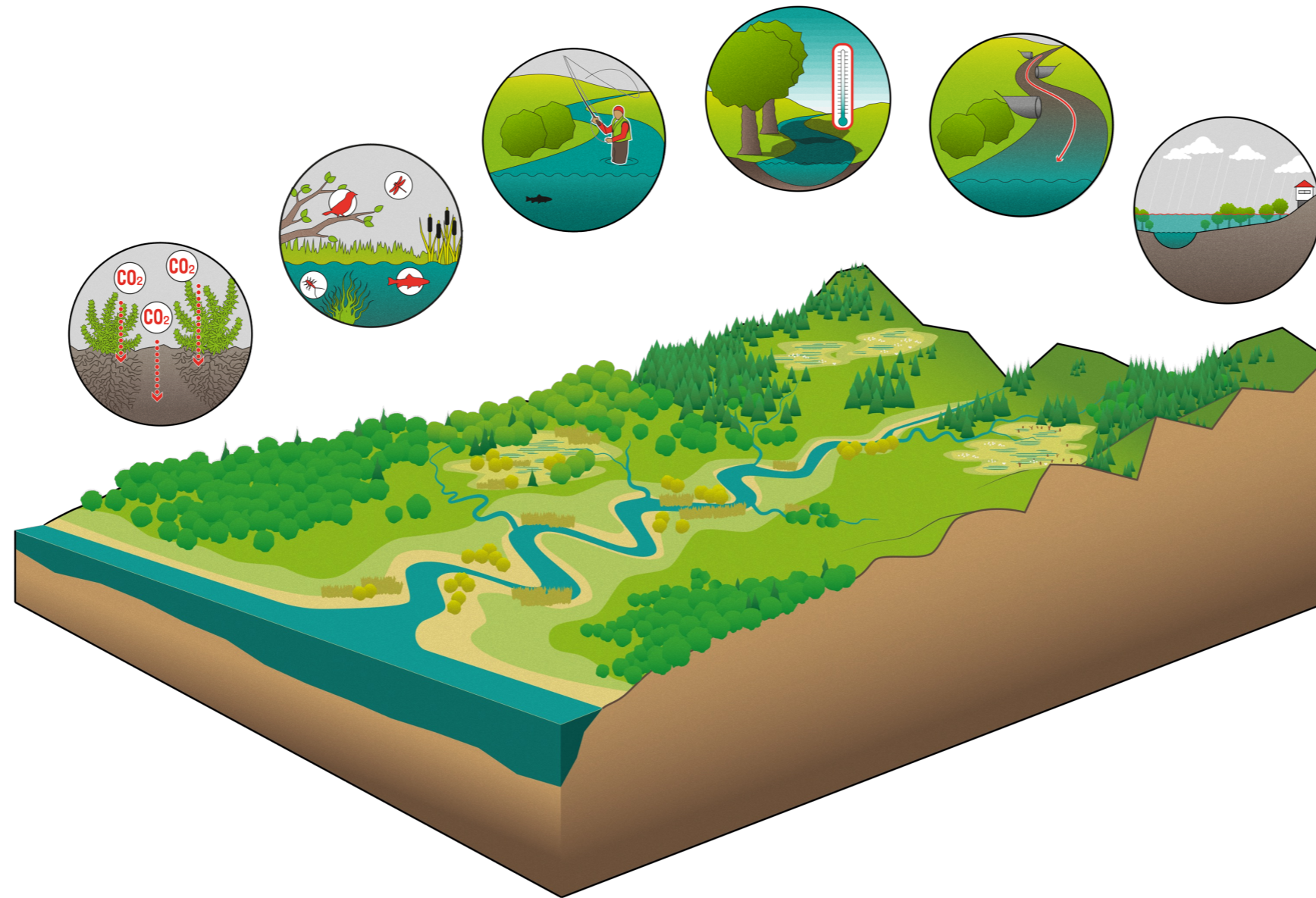
Why nature-based solutions (NbS)?

Actions to protect, conserve, restore, sustainably use and manage natural or modified terrestrial, freshwater, coastal and marine ecosystems, which address social, economic and environmental challenges effectively and adaptively, while simultaneously providing human well-being, ecosystem services and resilience and biodiversity benefits.



NbS are ways to adapt to climate change, for example heavy rainfall and flooding, by mimicking or restoring natural features along rivers. At the same time they safeguard biodiversity.

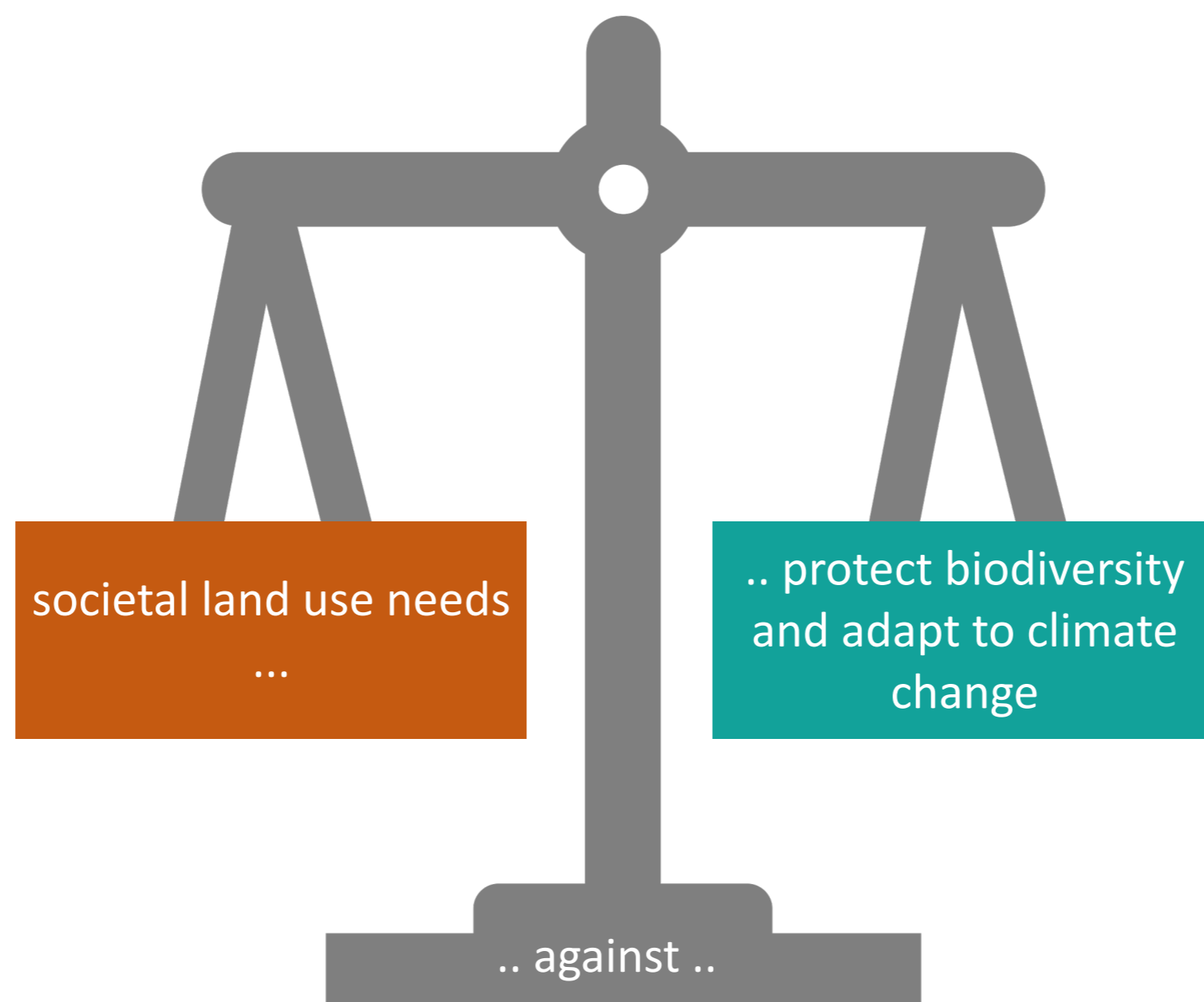
Nature-based solutions along rivers to safeguard biodiversity and improve climate adaptation in catchment areas under pressure (2021-2025)



www.sabicas.no
sabicas@niva.no
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SABICAS investigates:



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What are we working on?

Nature-based solutions (NbS)

Kantsoner | Riparian buffer



Flomsletter | Floodplain



Våtmark | Wetland



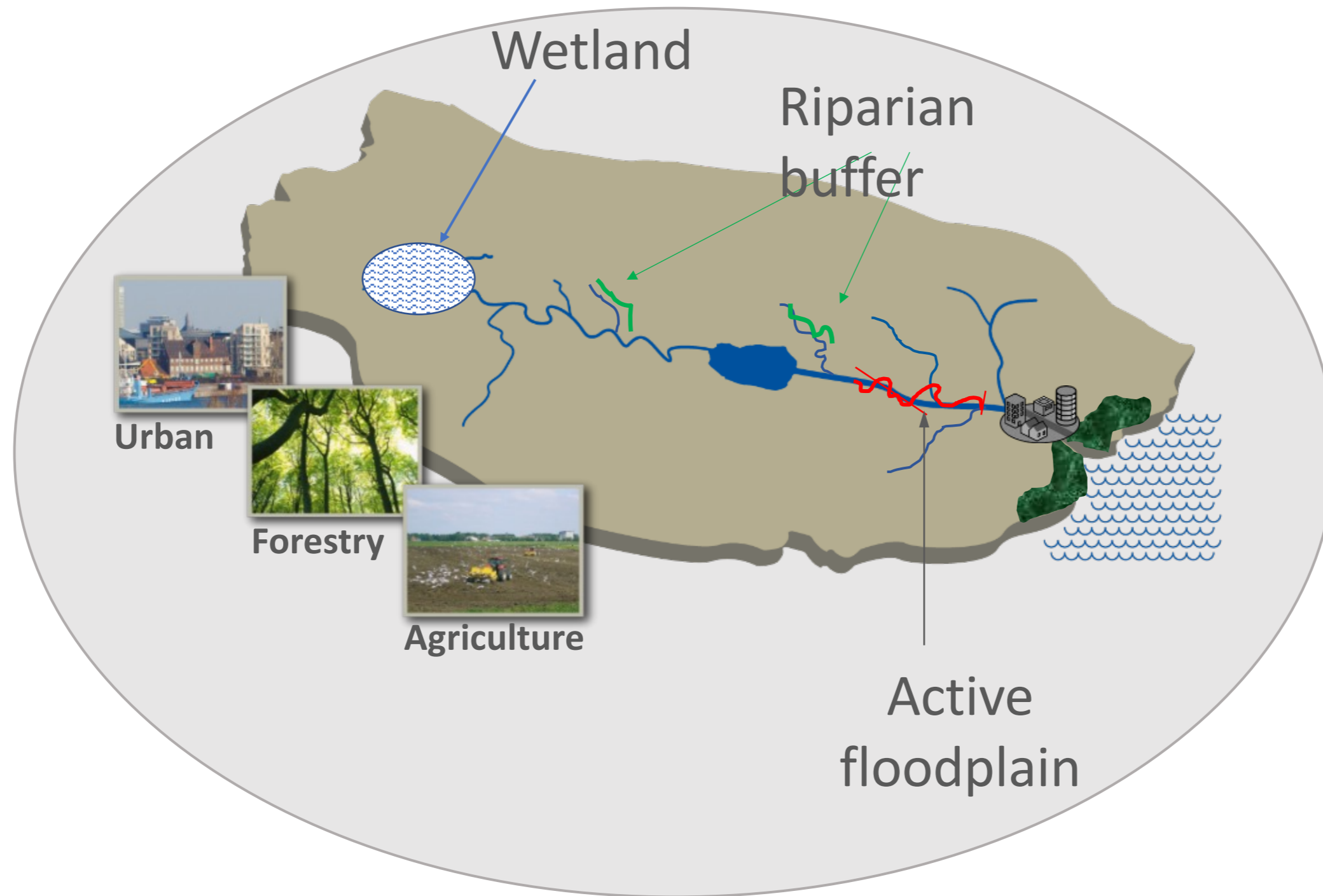
SABICAS will provide knowledge **which types and properties of NbS are most effective** in achieving the goals, and will create a tool that can help in the future management of Norwegian rivers.



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Foto: SABICAS

Operational unit – The river catchment: *Where to place the NbS to have optimal effects?*



Accelerate transformative change through NbS upscaling



How do we work?

- Build knowledge from **two case catchments**
- Use knowledge from other projects/parts of the country, and international collaborations
- Transdisciplinary work– different discipline **scientists and practitioners collaborating**
- **Co-creation** with stakeholders, through a **wide range of activities** such as workshops and field visits



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Need for more knowledge (*kunnskap*)



Fra SABICAS nasjonal workshop, 20.05.22



Fra workshop på nasjonal vannområdesamling 15.09.22



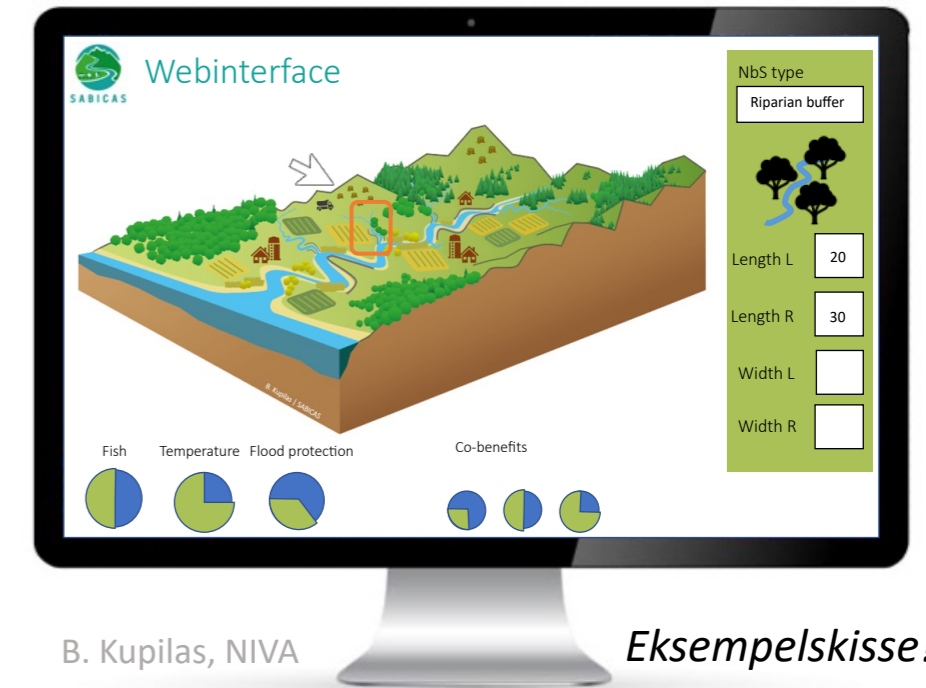
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Specifying the need for knowledge through **User stories**

En brukerhistorie er en *kort* setning som sier noe om *hvem* som ønsker å bruke *hva og på hvilke måte* i verktøyet og *hvorfor*.

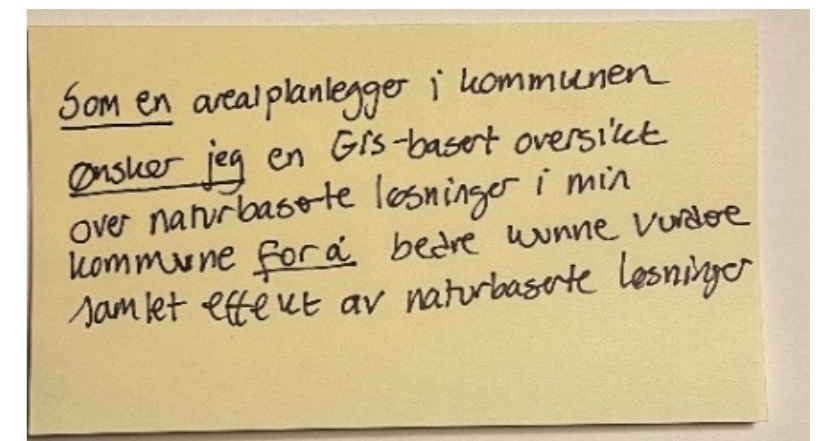
"Som en ønsker jegfor å....."

"Som en vannområdekoordinator ønsker jeg et verktøy for å velge ut strekninger der etablering / forbedring av kantsoner vil ha best effekt, inkl. skjøtselsråd for å målrette innsatsen best mulig"



B. Kupilas, NIVA

Eksempelskisse!



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A toolbox to optimize the use of NbS



Sabicas har mål om å utvikle en **praksisrelevant og brukervennlig** digital verktøykasse

- Mulighet til å jobbe mer nedbørfeltbasert
- Kom med dine ønsker og innspill

Register gjerne dine ønsker til verktøykassa:

<https://www.sabicas.no/brukerhistorier>

(innen 15 April 2023)



SABICAS

Regular updates and outcomes on sabicas.no

Webinar series co-funded by SABICAS



Webinarserie
kl. 11.00-11.45
Lær mer om blågrønne og naturbaserte løsninger

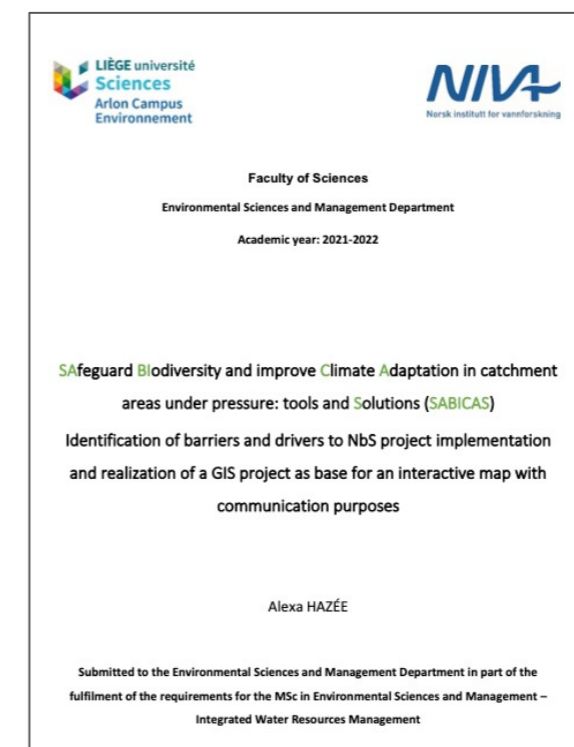
NATURBASERT SONE

Foto: Maja D. Sørheim

NIVA

Neste webinar er torsdag 23. mars klokken 11.00-11.45

Tema: "Naturregnskap: Et grønt skifte for natur- og arealforvaltning" med Maja Dinéh Sørheim (Nordre Follo kommune).



LIÈGE université
Sciences
Arlon Campus
Environnement

NIVA
Norsk institutt for vannforskning

Faculty of Sciences
Environmental Sciences and Management Department
Academic year: 2021-2022

Safeguard Biodiversity and improve Climate Adaptation in catchment areas under pressure: tools and Solutions (SABICAS)
Identification of barriers and drivers to Nbs project implementation and realization of a GIS project as base for an interactive map with communication purposes

Alexa HAZÉE

Submitted to the Environmental Sciences and Management Department in part of the fulfillment of the requirements for the MSc in Environmental Sciences and Management – Integrated Water Resources Management

4 days ago

Landbruksmøter om regionale miljøkrav for 2023



Mar 9

Nettverkstreff om Gausavassdraget: Fugl, fisk og forskning

Updated: Mar 10

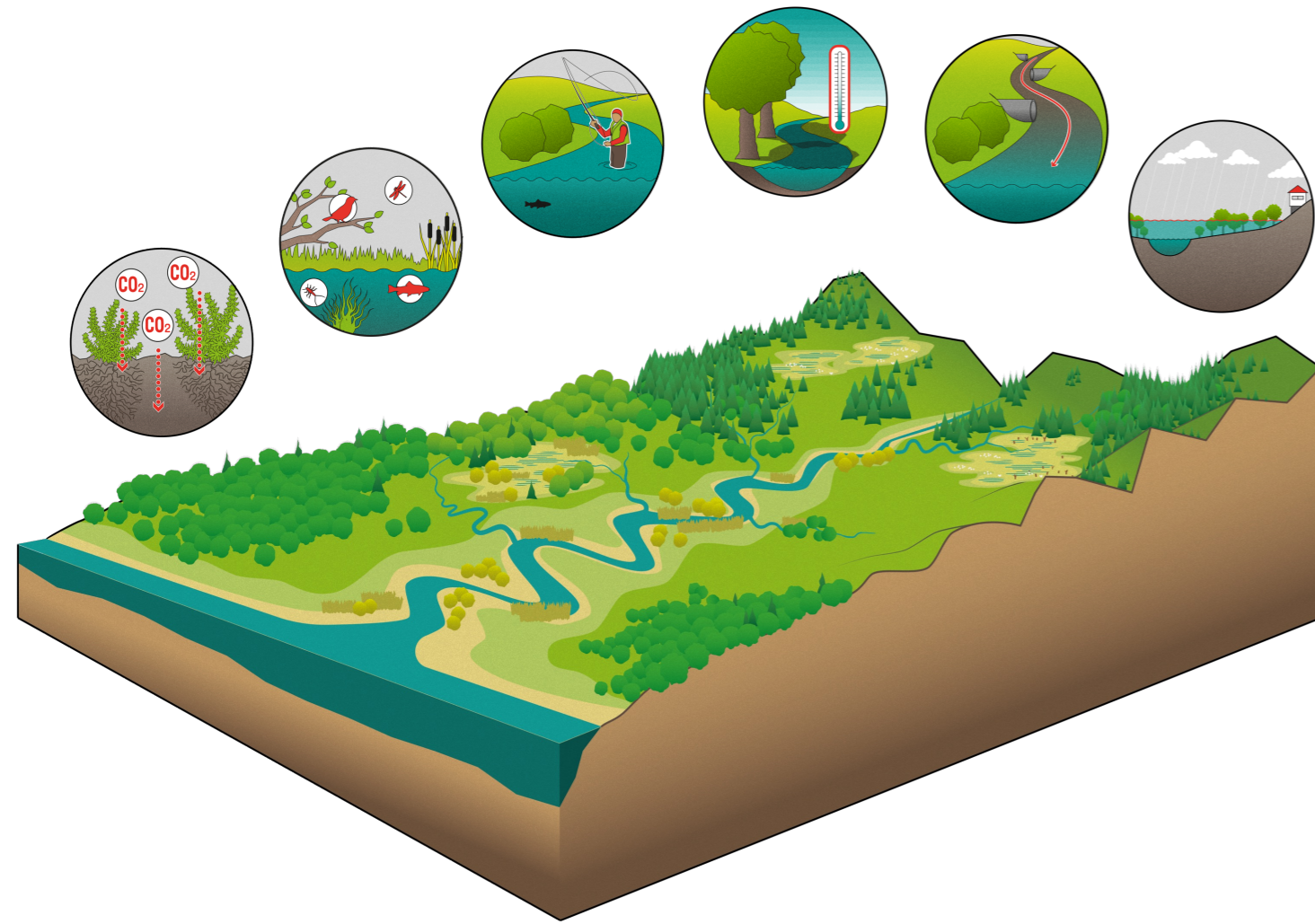
Den 7. februar (2023) arrangerte SABICAS nettverkstreff på Jørstadmoen om utfordringer og verdier i Gausavassdraget. Treffet var åpent for alle med interesse for Gausavassdraget, i invitasjonen uttrykt som «om det er fugl, fisk, friluftsliv, forskning eller hva det måtte være».

Formålet med treffet var å informere litt om arbeidet SABICAS gjør i Gausavassdraget og ikke minst å komme i dialog med og høre fra interesserte med ulike interesser i området, som frivillige lag og organisasjoner med engasjement for Gausa. Sabima er med i arbeidspakken i SABICAS som skal sikre involvering av allmenheten og hadde satt opp programmet for treffet i samråd med bl.a. representanter for lokale lag.

- Les mer om arbeidspakken og [organiseringen av prosjektet her](#).



Many thanks!



NbS **upscaling** can accelerate change:

- ✓ When NbS are **seen in context** and **placed** where they have the **greatest effect**, they can provide more holistic climate adaptation and nature management
- ✓ **Biodiversity** provides benefits for society
- ✓ NbS can benefit **people** and **public health**
- ✓ Optimal placement of NbS at a **larger scale** will probably provide **greater social benefit** than only grey solutions

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