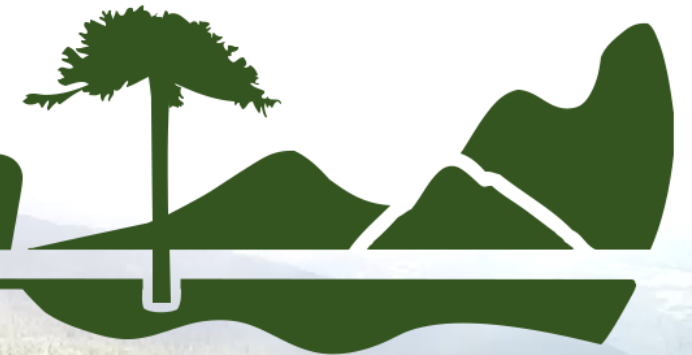


# ***The Skin of the Earth***



*Where Life meets Rocks*

Kirstin Übernickel<sup>1</sup>, Friedhelm von Blanckenburg<sup>2</sup>, and Todd A. Ehlers<sup>1</sup>

<sup>1</sup>University of Tübingen, Geosciences, Tübingen, Germany

<sup>2</sup>GFZ German Research Centre for Geosciences, Potsdam, Germany

***A Science Movie***

[Complete playlist on youtube  
for EN, ES, GER versions \(32.5 Mins\)  
& stand alone animations](#)

# Why are digitally and freely available science movies important?

The majority of the society searches for information in the internet.

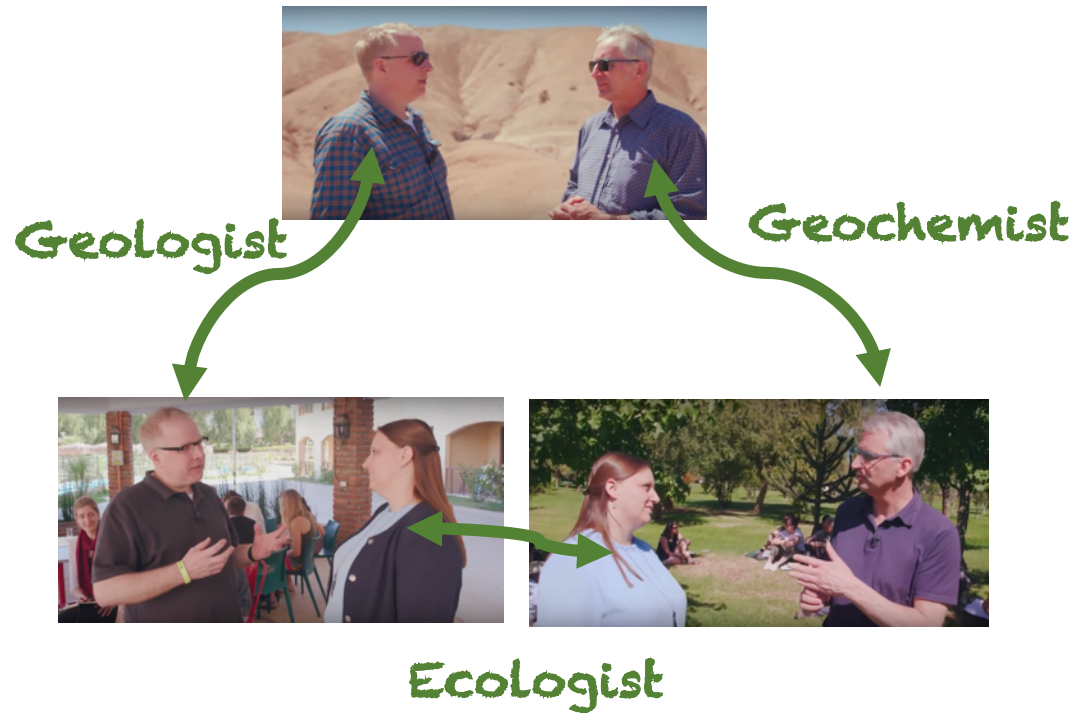
Providing information about your research to society will

- Increase perception about the ***existence*** of your research
- Show the ***significance*** of your research
- Help to develop ***interest*** in your research
- Build ***confidence*** in the methods of science – confidence that is needed (as we currently see for Virology)
- ***Influence*** political and social formation of opinions

# The EarthShape movie 1/4

The movie is based on the DFG SPP 1803 project: [EarthShape – Earth Surface Shaping by Biota](#)

Connecting disciplines making specialists talk to each other:



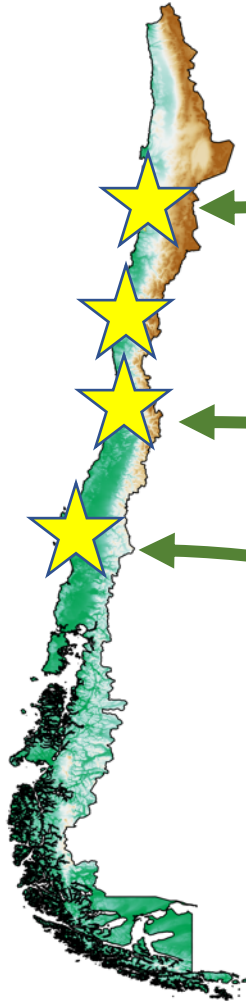
Asking scientific questions that cannot be answered with access from one discipline only:



# The EarthShape movie 2/4

## The movie shows

- Different disciplines work at different spatial and temporal scales arching over a climatic gradient using Chilean landscapes as example



Parque Nacional Pan de Azúcar



Parque Nacional La Campana



Parque Nacional Nahuelbuta



# The EarthShape movie 3/4

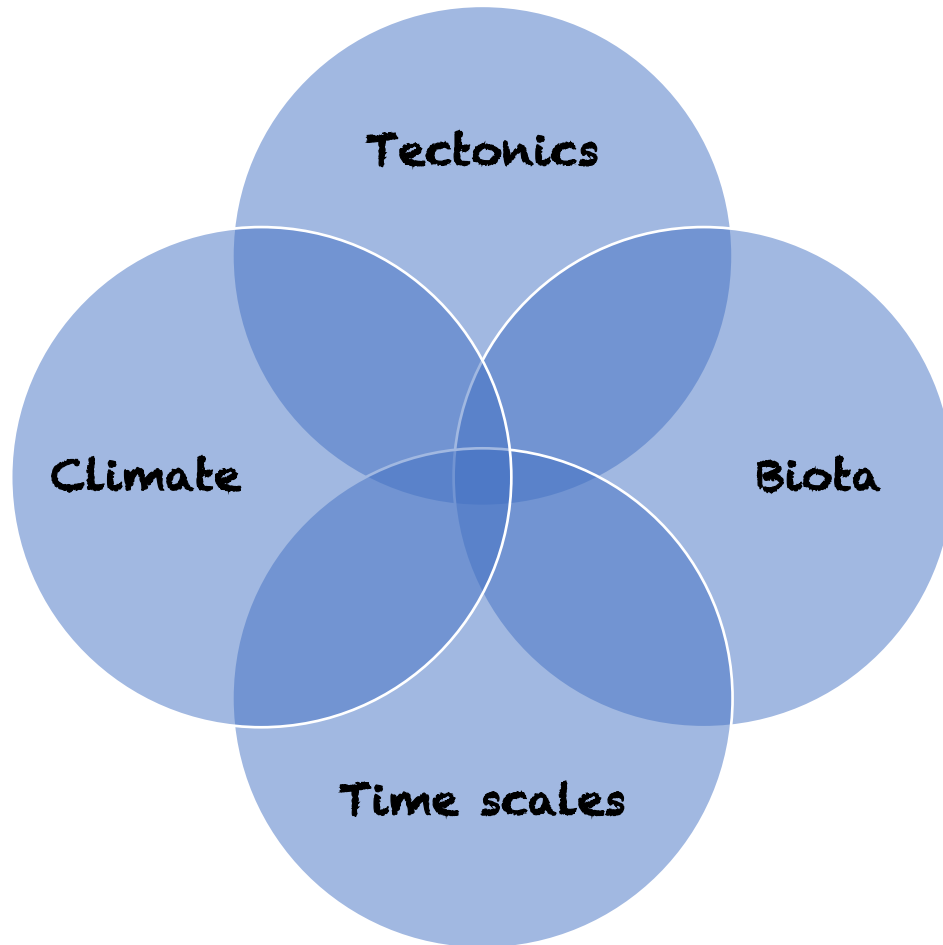
## The movie shows

- Interdisciplinary doctorate students of geoscience, soil science, climate science and biology are shown in their work in the field and in the laboratory
- Interdisciplinary group actions
- Example performers (geologist, geochemist & ecologist) interact

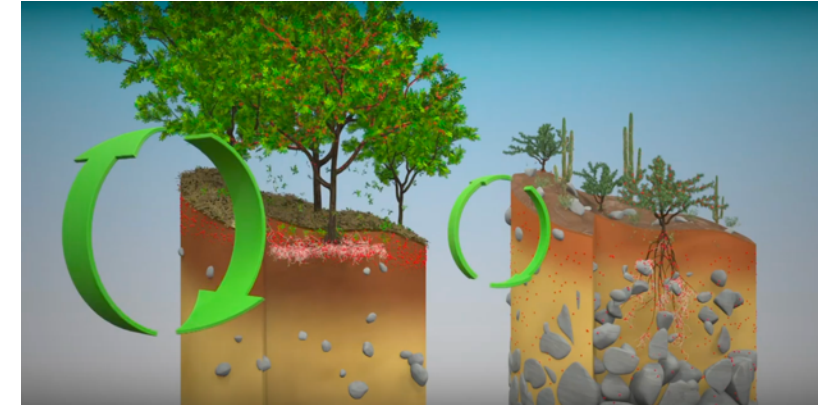


# The EarthShape movie 4/4

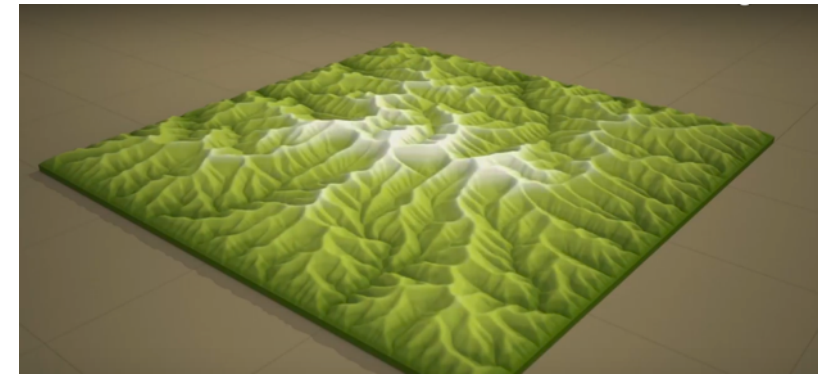
The movie shows  
Complex interactions....



Animation:  
nutrient cycling  
between the bio- and  
geospheres in  
different ecological  
settings



Animation:  
landscape models  
showing the impact  
of vegetation on  
topographic  
development



Explaining the  
concept of  
feedback as a  
dance



## Take home message:

***Do your own science movie!*** We need more awareness of society about new knowledges generated constantly.

## Production recommendations:

- Try to reach all social strata - Avoid scientific terminology in the explanations as much as possible.
- If possible: engage professional movie makers. They know the tricks to make a movie lively. Do not place a professor in their office talking (most common mistake in many science movies)
- Develop the story prior to filming (avoid overload of material to go through)
- Not only results are important, but also the methods to achieve them
- Use actors to tell the story. Show live action.
- Have fun (!) and experiment with lively / comic / innovative ways of explanations

Participants EarthShape  
kick-off meeting Phase II,  
Olmué, Chile, 2019  
photo: C. Conrady

Complete playlist on youtube  
for EN, ES, GER versions (32.5 Mins)  
& stand alone animations



We hope you enjoy our  
movie and make use of it!

Watch the movie *with the movie makers* on

EGU Sharing Geoscience Online 2020

#### NET4

The Skin of the Earth - Where Life Meets Rocks

Convener: Friedhelm von Blanckenburg | Co-convener: Kirstin Übernickel<sup>ECS</sup>

Chat Mon, 04 May, 18:00–19:15

We will have a chat (written only) session while and after  
watching the [Movie on youtube](#)

(you can choose your movie language on youtube – EN, DE, ES)