

Applied Geodata Science 1 - Session 1

# Introduction

Prof. Dr. Benjamin Stocker  
Spring semester 2025



# Welcome!





Prof. Benjamin Stocker  
Group leader



Dr. Fabian Bernhard  
Scientific Programmer



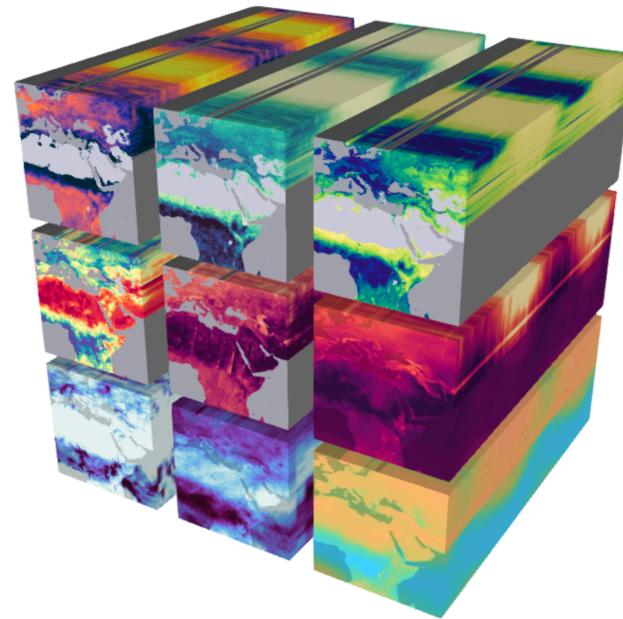
Geocomputation and Earth Observation

# Why now?





Raw data



Insights about Earth



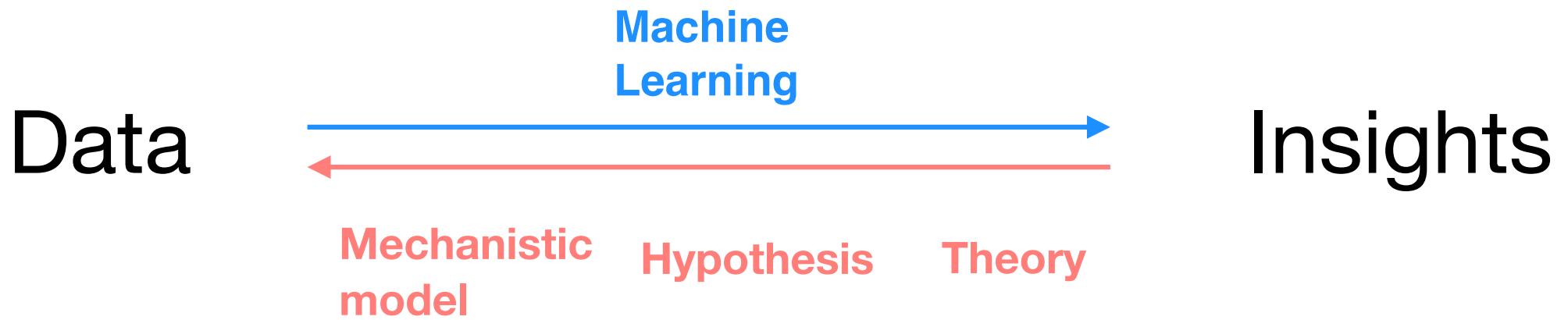
# Machine Learning

Raw data

Insights about Earth



# A new modelling paradigm



# Open Science is the new norm.

 International  
Science Council

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NEWS  
**UNESCO Science Commission adopts Open Science Recommendation**

The UNESCO recommendation on Open Science has been unanimously adopted in its entirety by Member States during the Science Commission plenary.

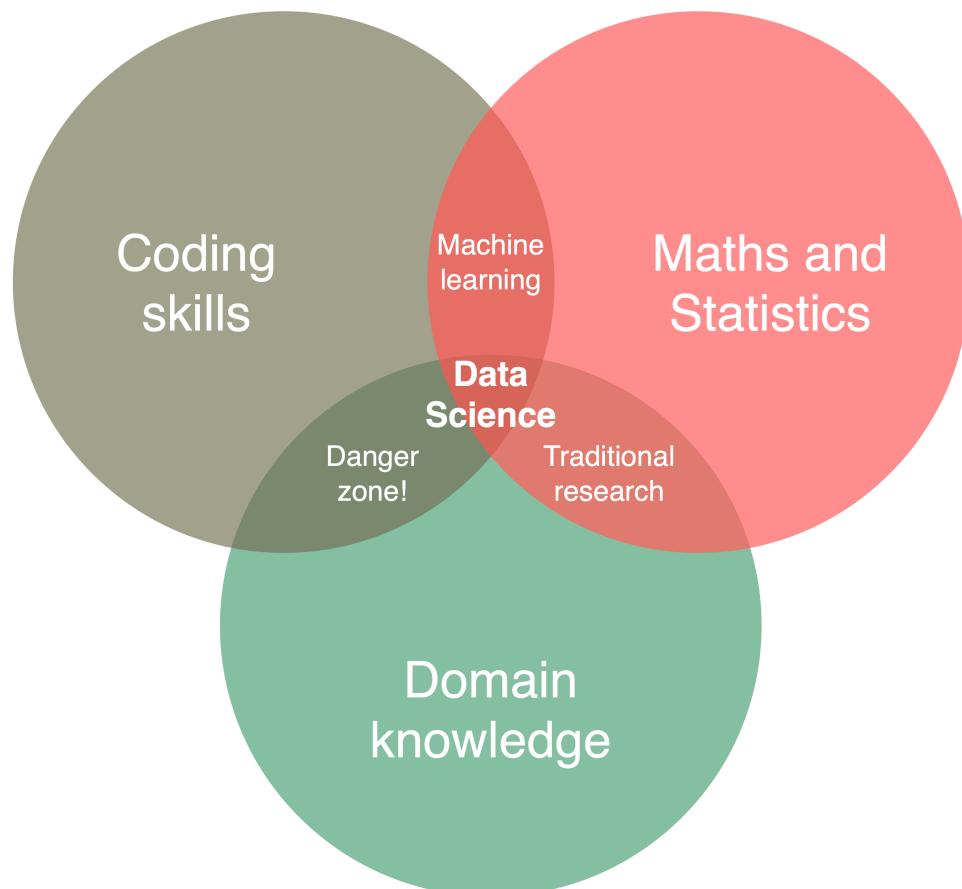


  
United Nations  
Educational, Scientific and  
Cultural Organization

# Open Science

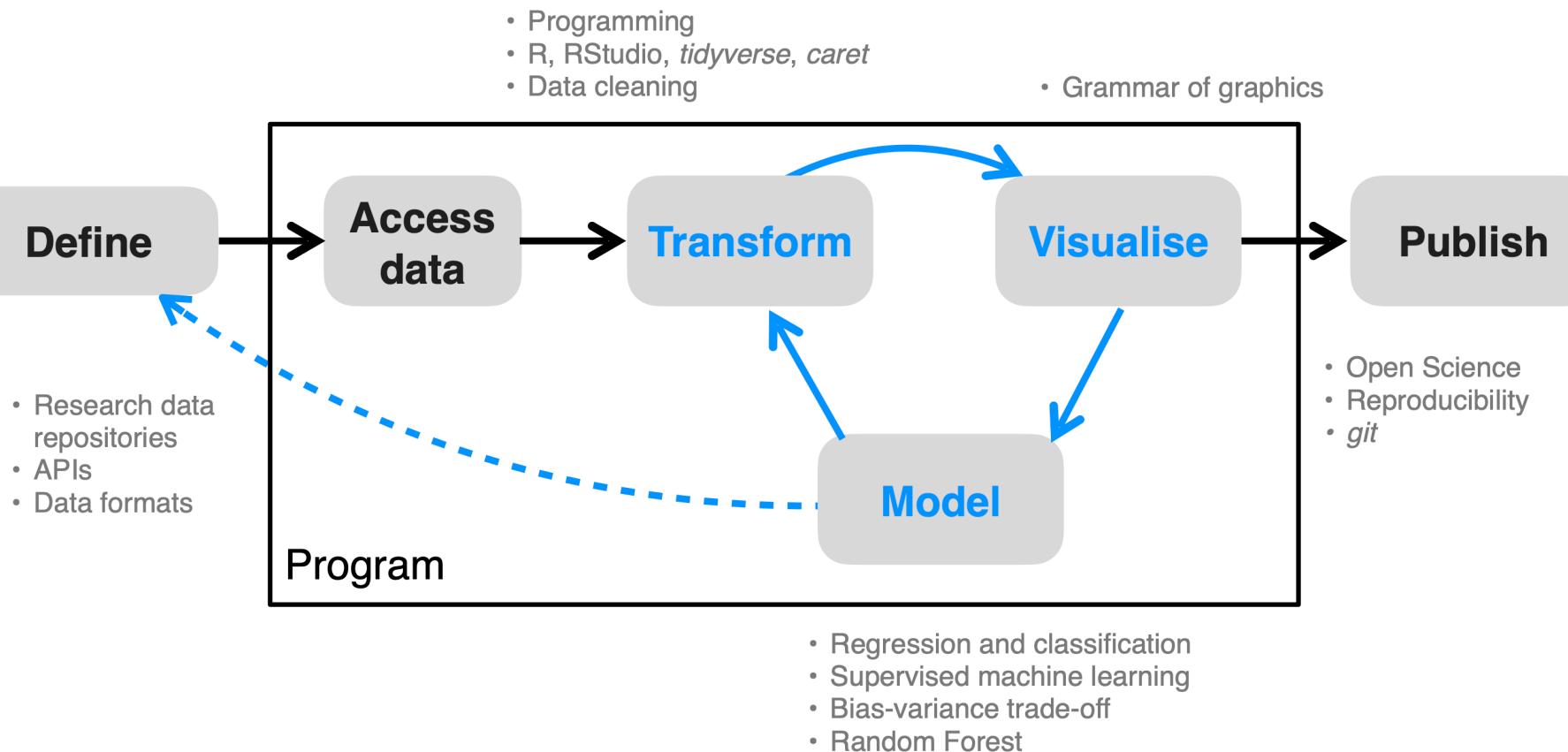
<https://council.science/current/news/unesco-science-commission-adopts-open-science-recommendation/>  
Last visited: 20.02.2023

# What is Data Science?



Conway, 2013

# The data science workflow



Adapted from Wickham and Grolemund (2017)

## Course goal

**To tell a story with (environmental  
and geo-) data.**