

CoFI workshop

RSES, 9th November 2022

A **Co**mmon **F**ramework for **I**nference



On the menu

- Introduction: Why CoFI?
- Interactive session 1: CoFI toy examples ([Malcolm](#))
- Espresso: **E**arth **S**cience **P**Roblems for the **E**valuation of **S**trategies, **S**olvers and **O**ptimizers ([Jiawen](#))

Lunch and coffee

- Interactive session 2: X-ray and seismic Tomography with CoFI ([Malcolm](#))
- Interactive session 3: Electrical Resistivity Imaging with CoFI ([Juerg](#))
- Wrap up and discussion.

What we hope you will take away today

- An understanding of what CoFI & Espresso are
- How to use CoFI and Espresso.
- How to get involved.



The CoFI jigsaw concept

The **researcher** says:

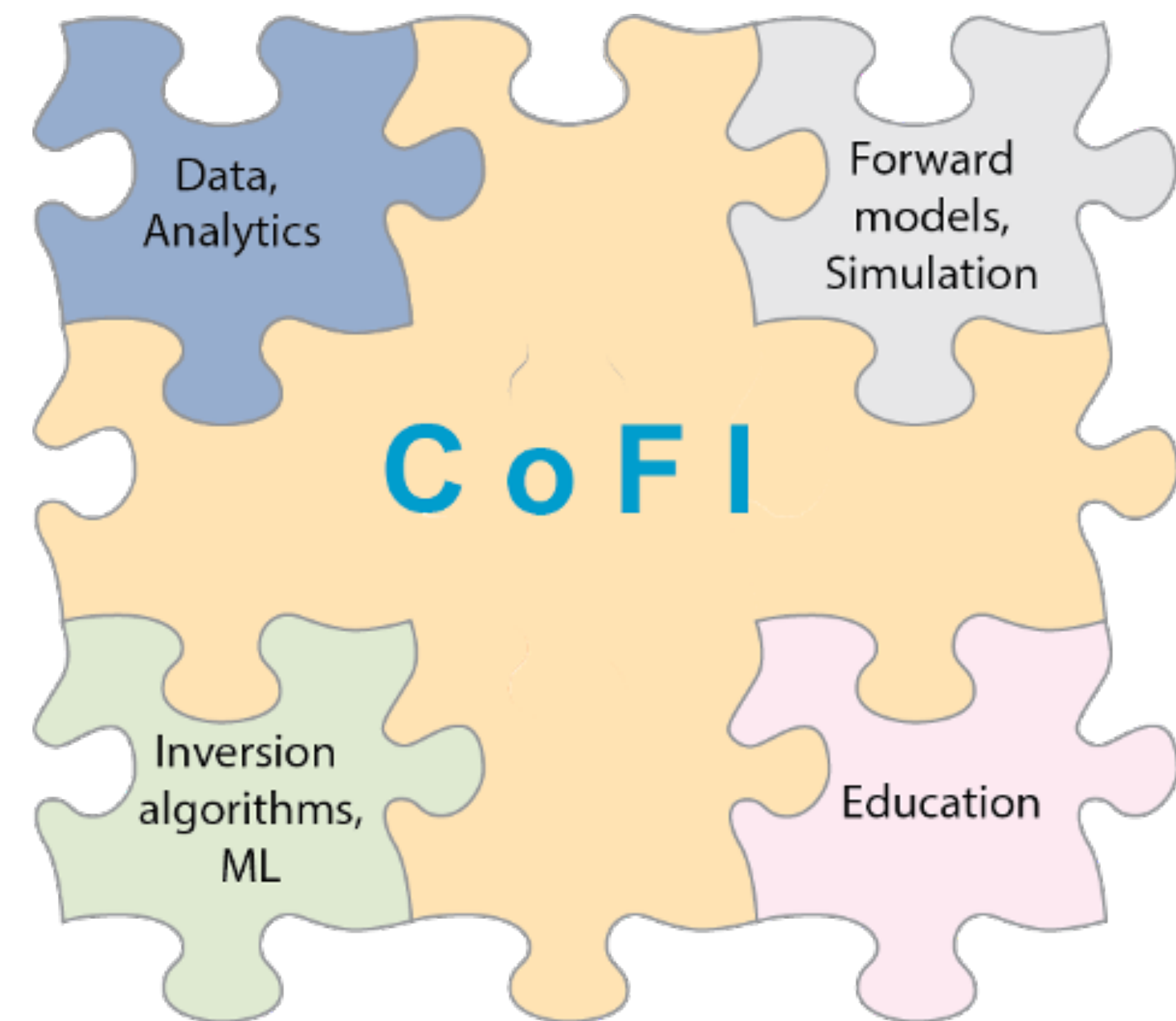
- What inference methods are suited to my data?
- Where can I get access to them?
- **How much work is that for me?**

The inference **specialist** says:

- I would like to test my algorithm on a different problem
- Where can I get access to them?
- **How much work is that for me?**

The research **manager** says:

- How can my staff learn about inference methods?
- How do we access the necessary expertise?
- Can we experiment with different approaches?
- How long will it take?



CoFI connects the pieces

The CoFI methods tree

