



# SOFIA-TAF

## Technical overview and demonstration

Arni Magnusson, Rishi Sharma, Nicole Tursich (FAO)

SOFIA-TAF workshop, Cape Town

11 December 2023

# Overview

## SOFIA-TAF

*open and reproducible, modular design, standardized structure*

## GitHub repositories

*github.com/sofia-taf, analyses, package, data warehouse*

## TAF workflow

*data → model → output → report*

## R packages

*SOFIA, sraplus, TAF*

## SOFIA-TAF demos

*EffortShared, EffortByStock, IndexByStock, PriorsByStock*



# SOFIA-TAF

**2020** Initial discussions

**2021** Prototype analysis of Area 37  
Database  
Design report

**2022** SOFIA package 1.0  
SOFIA-TAF launch at FAO-CAPAM meeting  
Workshops in Areas 31, 37, 41

**2023** Workshops in areas 34, 47, 51, 57, 71



# SOFIA-TAF

Standardized structure to organize the SOFIA analyses

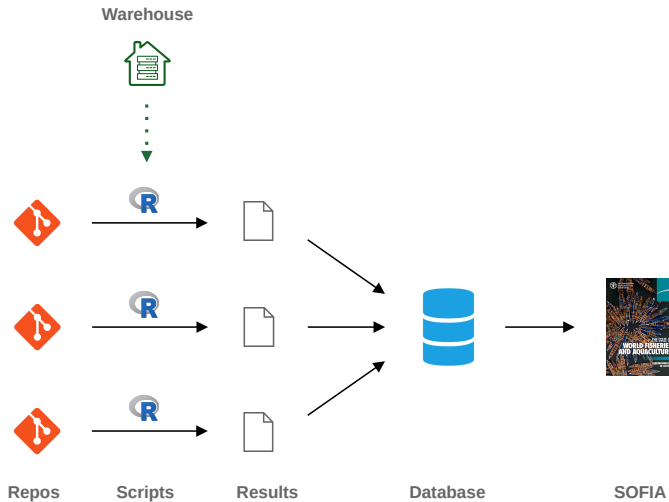
All the fisheries in the world

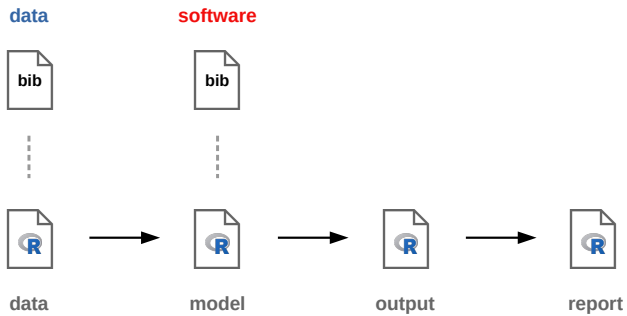
Converted from monolithic R Markdown to modular scripts

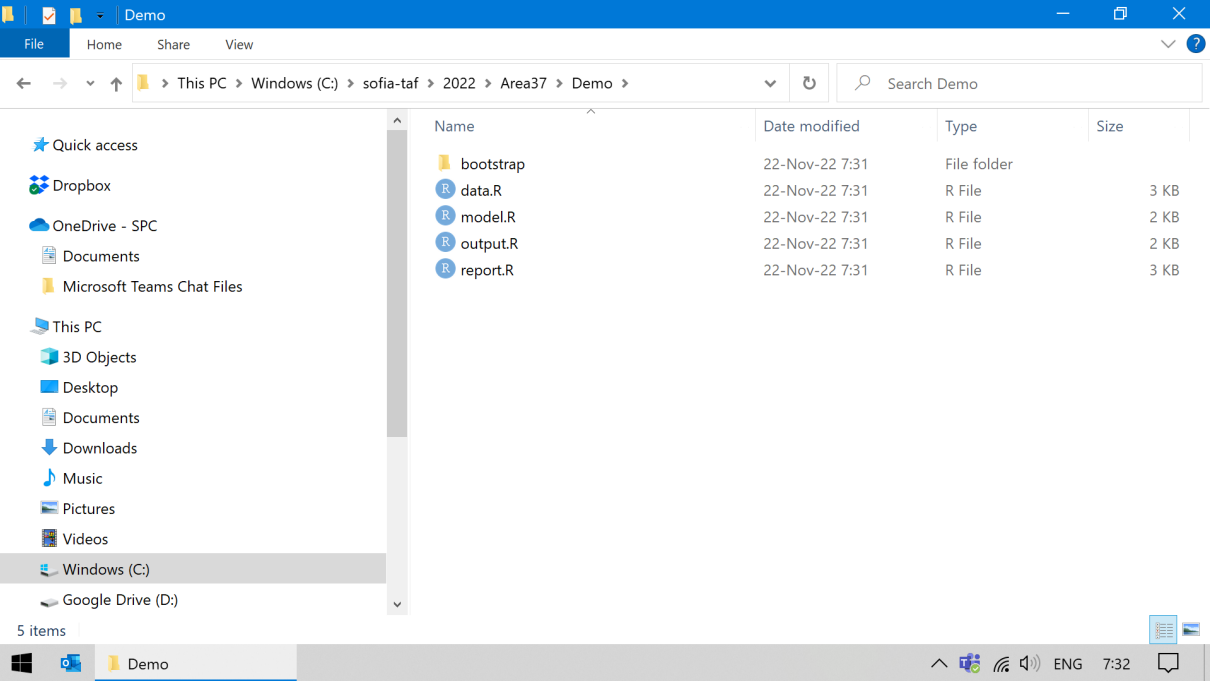
Tiers 1, 2, and 3

Ongoing development at [github.com/sofia-taf](https://github.com/sofia-taf)

R package SOFIA, one place to make changes, affecting all the analyses







★ Quick access

Dropbox

OneDrive - SPC

Documents

Microsoft Teams Chat Files

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

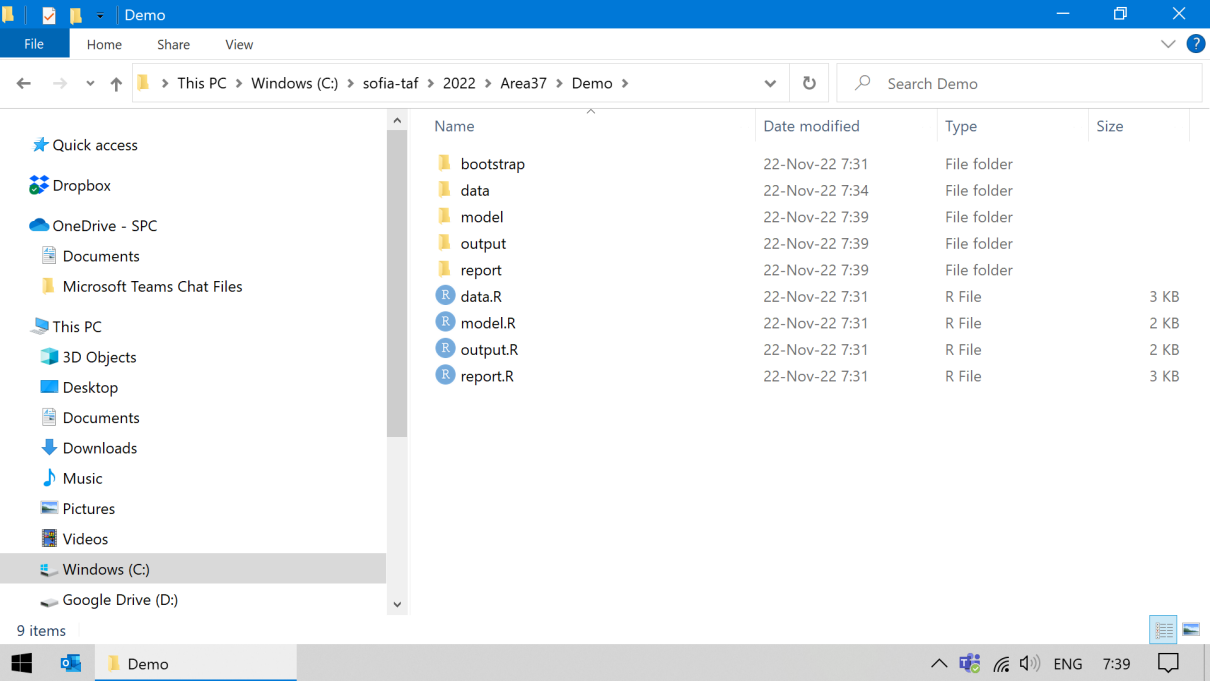
Videos

Windows (C:)

Google Drive (D:)

Name	Date modified	Type	Size
bootstrap	22-Nov-22 7:31	File folder	
data.R	22-Nov-22 7:31	R File	3 KB
model.R	22-Nov-22 7:31	R File	2 KB
output.R	22-Nov-22 7:31	R File	2 KB
report.R	22-Nov-22 7:31	R File	3 KB





★ Quick access

Dropbox

OneDrive - SPC

Documents

Microsoft Teams Chat Files

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

Google Drive (D:)

Name	Date modified	Type	Size
bootstrap	22-Nov-22 7:31	File folder	
data	22-Nov-22 7:34	File folder	
model	22-Nov-22 7:39	File folder	
output	22-Nov-22 7:39	File folder	
report	22-Nov-22 7:39	File folder	
data.R	22-Nov-22 7:31	R File	3 KB
model.R	22-Nov-22 7:31	R File	2 KB
output.R	22-Nov-22 7:31	R File	2 KB
report.R	22-Nov-22 7:31	R File	3 KB

# SOFIA-TAF resources

## Documentation

[overview](#), [design](#), [tutorial](#)

## Demos

[EffortShared](#), [EffortByStock](#), [IndexBystock](#), [PriorsBystock](#)

## Packages

[SOFIA](#), [sraplus](#), [TAF](#)

# Overview

## SOFIA-TAF

*open and reproducible, modular design, standardized structure*

## GitHub repositories

*github.com/sofia-taf, analyses, package, data warehouse*

## TAF workflow

*data → model → output → report*

## R packages

*SOFIA, sraplus, TAF*

## SOFIA-TAF demos

*EffortShared, EffortByStock, IndexByStock, PriorsByStock*