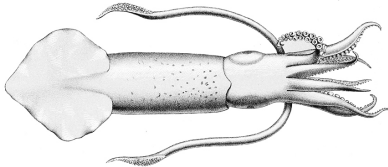


Writing your own functions for mp()

Course on Management Strategies Evaluation with FLR and a4a
25-29 November 2019, Ispra, Italy

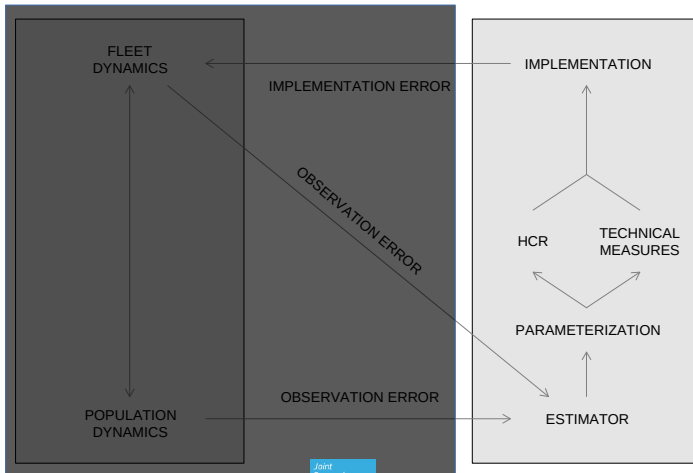


Ernesto Jardim

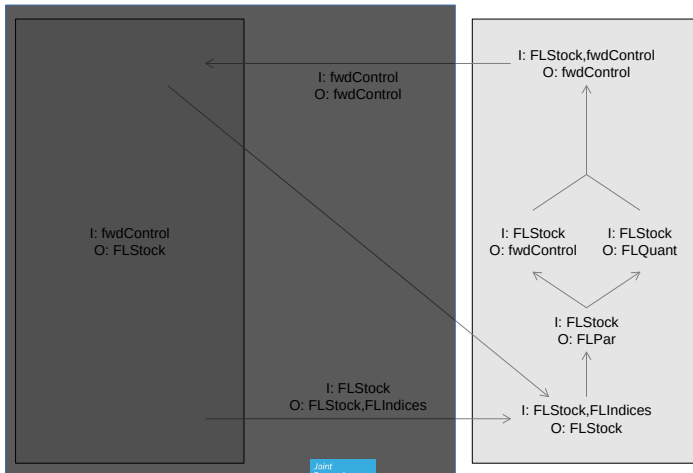
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Joint Research Centre
European Commission

MP modules



MP API



Coding mp modules

- ▶ mseCtrl class
The messenger between the user and mp().

mseCtrl

```
showClass("mseCtrl")
```

```
## Class "mseCtrl" [package "mse"]  
##  
## Slots:  
##  
## Name:      method      args  
## Class: function      list  
##  
## Known Subclasses: "FLoem", "FLiem"
```

```
mseCtrl()
```

```
## Method:  
## function ()  
## NULL  
## <bytecode: 0x55fb3152eb00>  
## Arguments:  
## list()
```

Generic function for mp() modules

```
foo <- function(INPUT_OBJECTS, args, tracking, ...) {  
  
  # MAGIC !!!  
  
  # output must have a stock object  
  list(stk = OUTPUT_OBJECTS, tracking = tracking)  
}
```

Generic function for mp() modules

```
ct <- mseCtrl(method = foo, args = list(name = "foo for modules", maxage = 10))
ct

## Method:
## function(INPUT_OBJECTS, genArgs, tracking, ...) {
##
##     # MAGIC !!!
##
##     # output must have a stock object
##     list(stk = OUTPUT_OBJECTS, tracking = tracking)
## }
## Arguments:
## $name
## [1] "foo for modules"
##
## $maxage
## [1] 10
```

Next

Hands-on !