

# Packages for Organized Project Material and Effective Analysis

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### 'org' — Organizing projects



Three types of project material:

#### 1. Data

- Encrypted
- Not stored on the cloud

#### 2. Results

- Immediately shared with collaborators (cloud?)
- Results archived over time

#### 3. Code

- Version control
- Publicly accessible
- One sequential pipeline

### Additional problem:

 Will your code run on multiple computers?



### 'org' — Organizing projects

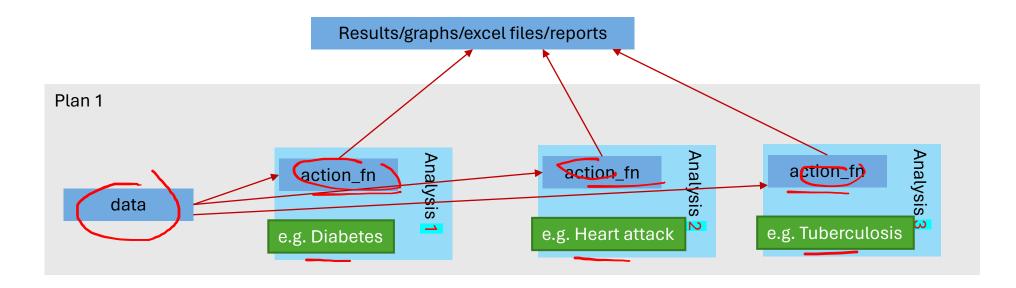


```
> project <- org::initialize_project(</pre>
            = .GlobalEnv,
           = c(
      "~/csids/2024-r-medicine-org-and-plnr/",
      "/project1/2024-r-medicine-org-and-plnr"
   data
           = c(
      "~/csids/2024-r-medicine-org-and-plnr/data",
      "/project1/2024-r-medicine-org-and-plnr/data"
    results = c(
      "~/csids/2024-r-medicine-org-and-plnr/results",
      "/project1/2024-r-medicine-org-and-plnr/results"
   folders_to_be_sourced = "R"
Sourcing all code inside ~/csids/2024-r-medicine-org-and-plnr/R into R_GlobalEnv
> library(data.table)
> library(ggplot2)
> library(magrittr)
org::project$data
[1] "~/csids/2024-r-medicine-org-and-plnr/data/" 2
> org::project$results_today
[1] "~/csids/2024-r-medicine-org-and-plnr/results/2024-05-30/"
```

```
Home > csids > 2024-r-medicine-org-and-plnr
    Name
    .gitignore
    data 2
    project.Rproj
   R 5
   README.md
   results 3
B
   Run.R
Home > csids > 2024-r-medicine-org-and-plnr > results
     Name
    2024-05-28
    2024-05-29
    2024-05-30 4
```

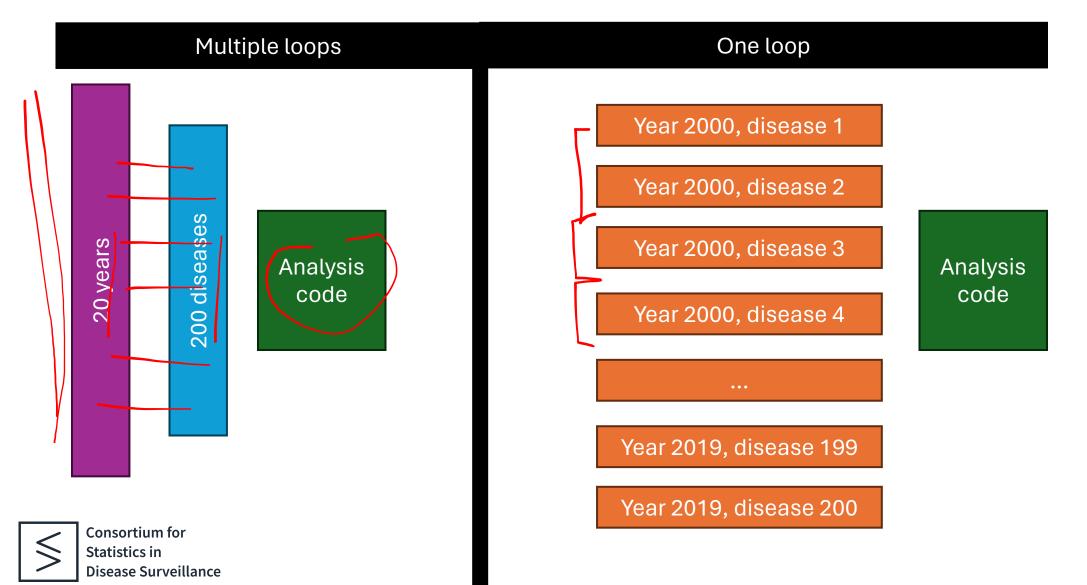






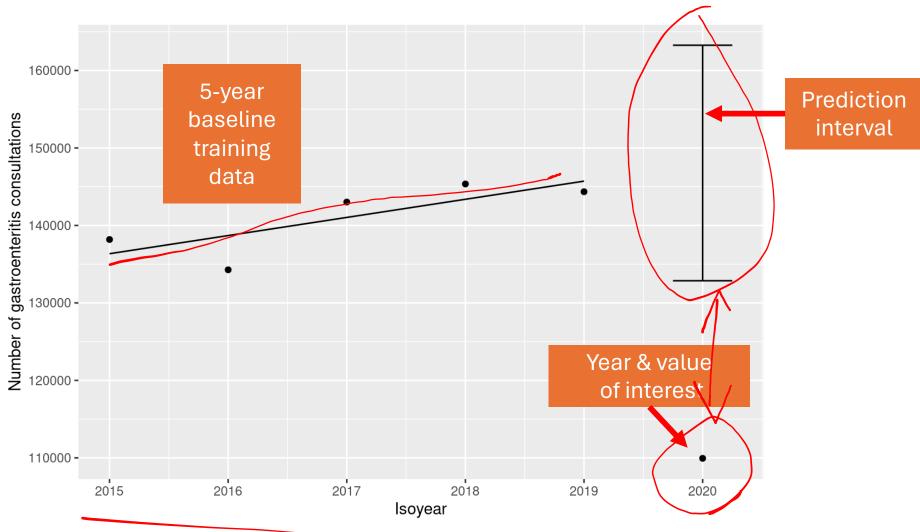
### 'plnr' — Effective analysis



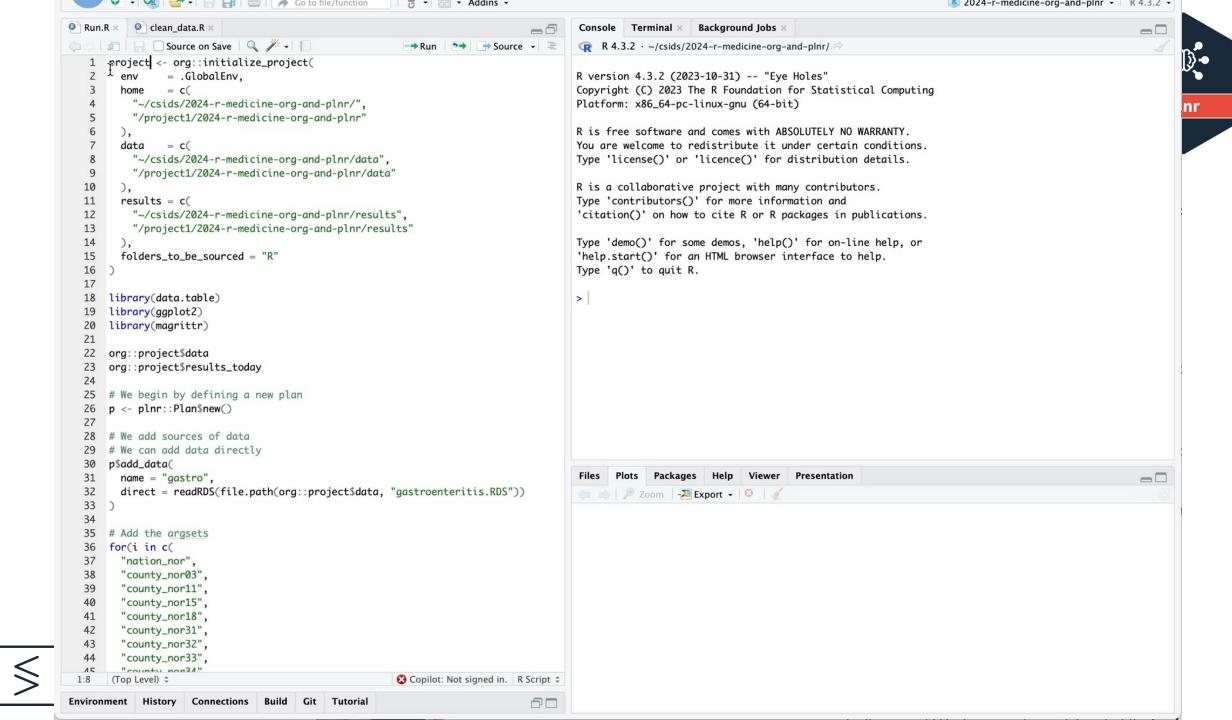


## 'plnr' — Effective analysis









<u>Thank you</u>



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