# **Analytical Pipelines - Tools and Culture**

Andrea Schnell eRum 2018

## **Environment**

ls()

### Office

```
## [1] Official Statistics Public Administration
```

## [1] closed up IT infrastructure very rigid firewall

### **Users**

```
## [1] Excel natives R training «on-the-job»
```

## Workflow

### **Today**

Data store



• Statistical Analysis



Visualizations



Text



Publication



### Tomorrow: Pipeline



## **Mission**

## Reproducible Analytical Pipelines

#### GOV.UK Data in Government

Transforming the process of producing official statistics

**Reproducible Analytical Pipelines** 

**RAP Companion** 



# How to get there?

### **Tools**



## **Culture**





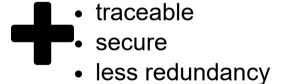
# **Tools**Data storage



#### Data base

library(ROracle)
dbReadTable()

dbWriteTable()



how toerror handling (encoding, time zone)

## **Tools**

## **Corporate Design Toolbox**

library(statR)

#### Colors, ggplot theme



### RMarkdown template





# **Tools Next steps**

#### R

- RProjects
- RPackages

#### **Dependencies**

- docker is too heavy
- packrat vs. checkpoint
- is drake an option?

#### Infrastructure

- RStudio Server
- Git/Github



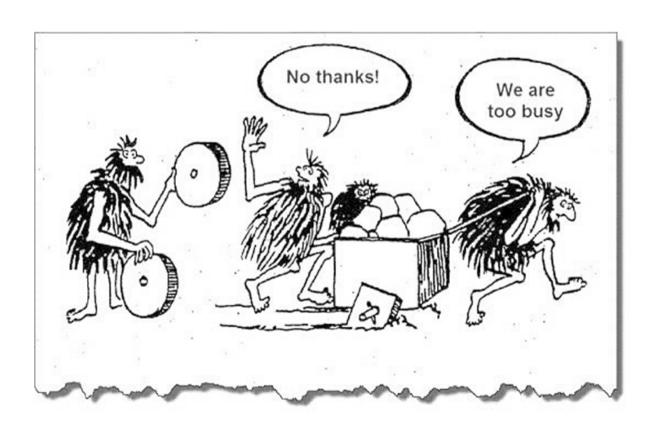




## **Tools**

## Resistance





## It's the Culture, Stupid!



# **Culture Show & Tell**



### In person: Internal Meetups

- Solve problems
- New R Packages
- Ideas & inspiration

#### Virtual: Forum

- How To
- Code snippets
- Q & A

## Culture Community

# «The use of R in public administration»



#### Talk 1: Read and process unstructured data with R

Max Grütter, Statistical Office Slides

#### Talk 2: Mastering Corporate Design with R

Andrea Schnell and Thomas Lo Russo, Statistical Office Slides

#### Talk 3: Illustration of pupils' diversity with R

Flavian Imlig, Zurich State Department of Education Slides

#### Talk 4: Making Public Data Public

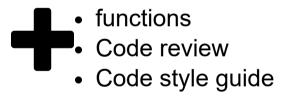
Christoph Sax, Christoph Sax Data Analytics Slides

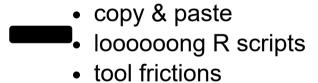


https://statistikzh.github.io/RMeetup

## **Culture** Skills









Reproducibility

Cooperation

Pace setting

# Your experiences? Thanks!



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Slides created via the R package xaringan.

