

ROME, October 14, 2024 INFORMAL MEETING #1

Seasonal adjustment processes in statistical production

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Seasonal Adjustment process

- Seasonal adjustment process requires:
 - storage of data: raw and seasonally adjusted (SA), external regressors
 - storage of specifications
 - updating of the data
 - binding data and specifications
 - processing



Storage

Workspace (WS):

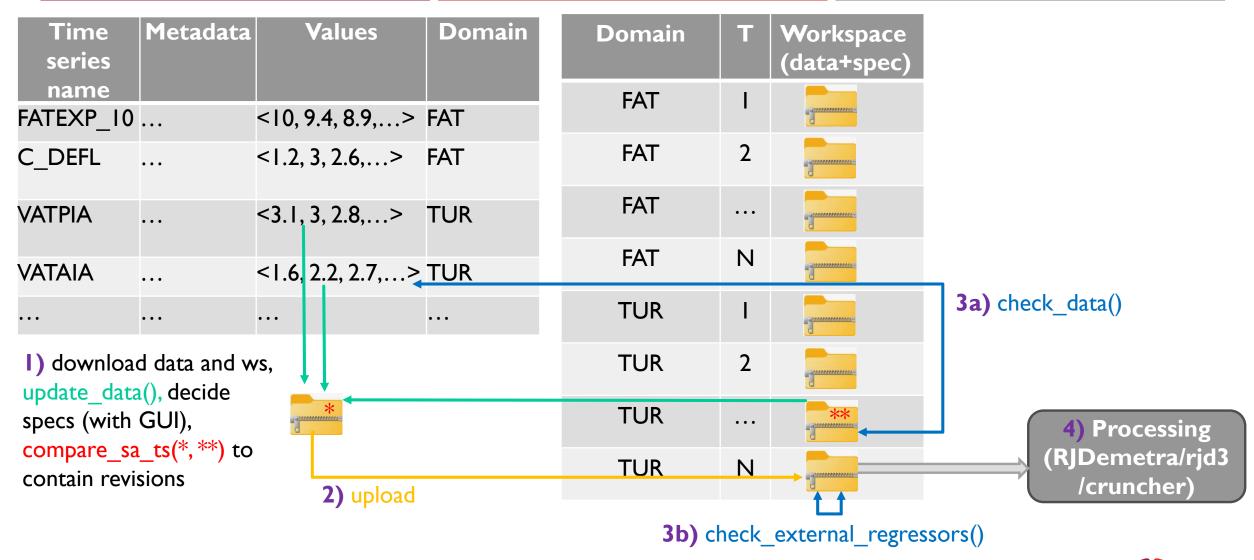
- data and specifications together
- in general one workspace per domain (many time series data and spec. together)
- WSs created with
 - GUI: link to external sources (e.g. files, db)
 - RJDemetra/rjd3: data embedded in workspaces (☺)

Production Data Bases

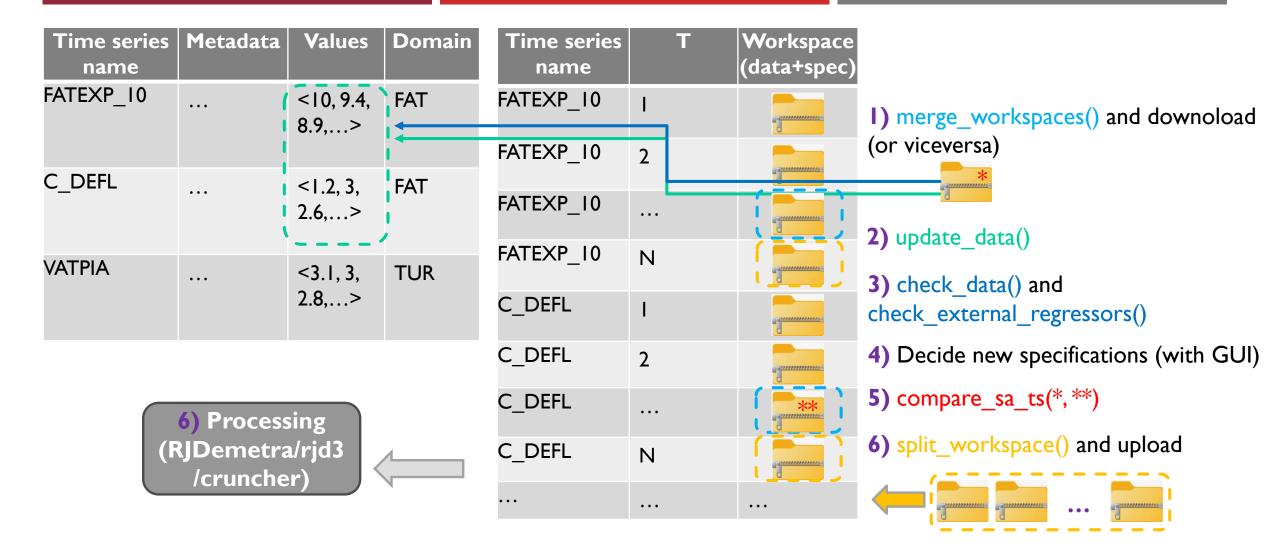
- records = single time series (not domains)
- model specifications history: revision checks



DB models for statistical production: concurrent revision – SETTING 1: Domain workspaces



DB models for statistical production: concurrent revision – SETTING 2: Single series workspaces





DB models for statistical production: concurrent revision – SETTING 3: Separate specs and data (single series)

Time series name	Metadata	Values	Domain
FATEXP_10		<10, 9.4, 8.9,>	FAT
C_DEFL		<1.2, 3, 2.6,>	FAT
VATPIA		<3.1, 3, 2.8,>	TUR

Time series name	Т	Workspace (data+spec)
FATEXP_I0	1	{}
FATEXP_I0	2	{}
FATEXP_I0	•••	{}
FATEXP_I0	N	{}
C_DEFL	1	{}
C_DEFL	2	{}
C_DEFL	•••	{}
C_DEFL	N	{}
•••	•••	{}

- I) Downoload data and specifications
- 3) Decide new specifications (with GUI having ws_new as input), being helped by compare_sa_ts(ws_new, ws_old)
- **4)** JD_JSON_from_workspace(data_t, specifications_t)
- 5) Upload new JSON specifications





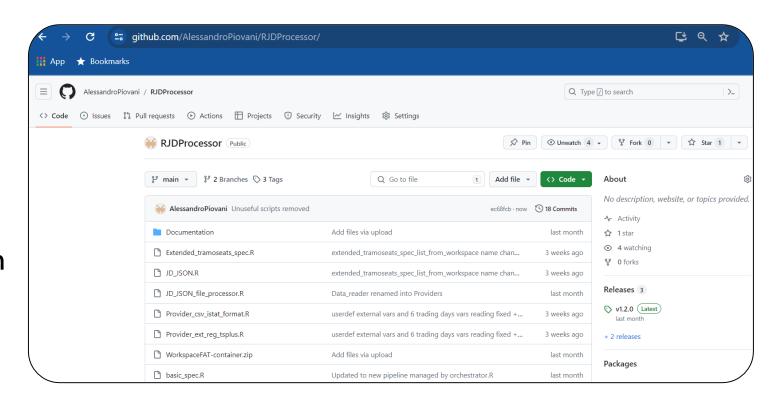
Source code

Source code is available on GitHub:

https://github.com/AlessandroPiovani/RJDProcessor

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Thanks for your attention!

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