



Rechnungshof  
Österreich

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# Data Analysis and Visualization at the Austrian Court of Audit

- EUROSAI Prague Post-Congress Get-Together
- 23 May 2022
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## Data Analysis at the ACA

- Since 2013 expansion of data analysis
- In fact 12 data analysis experts
- 15 staff members take courses at [datacamp.com](https://datacamp.com) (R, Python, MySQL, ...)
- Focusing on the following tools
  - R-statistics with Shiny
  - QGIS for GIS analysis
  - Excel
  - Gitlab for collaboration and versioning

# Learnings

Well-done data analysis is time-consuming

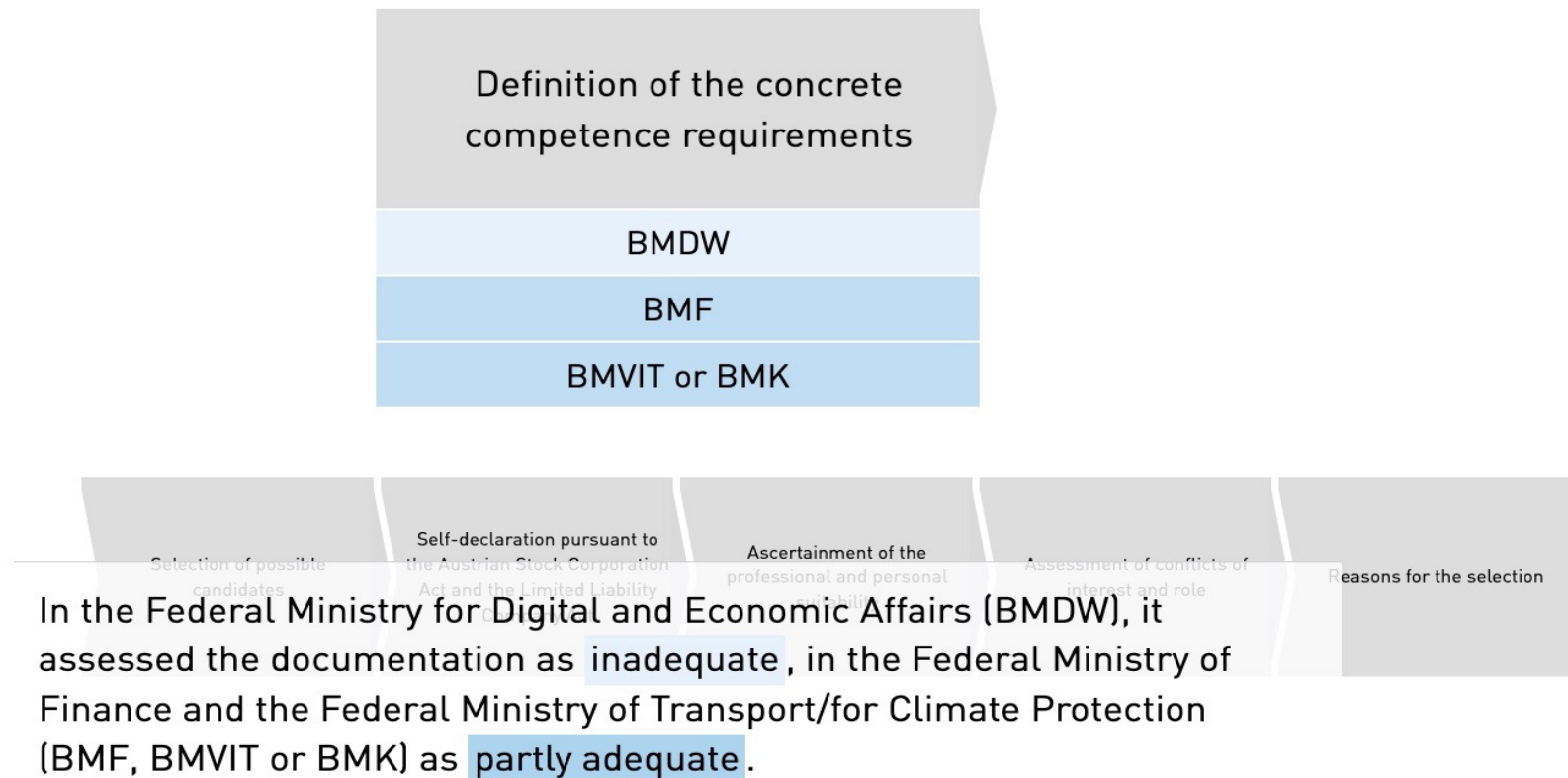
We help the auditees in uncovering their data treasures

Data analysis is already very helpful during an audit

- \* to ask the right questions
- \* „Oh my golly – how is it possible that the auditors already know all these facts!“
- \* for understanding the business processes of the auditees

## Visualization I – scrollytelling

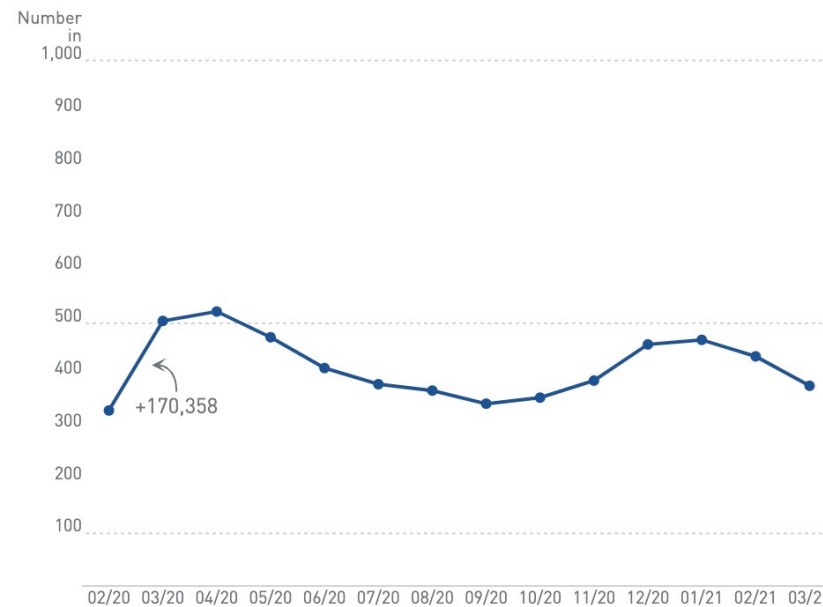
### Audit report: Selection of candidates to supervisory boards (published 2022)



## Visualization II – scrollytelling

### Audit report: COVID-19 short-time work

(published 2022)



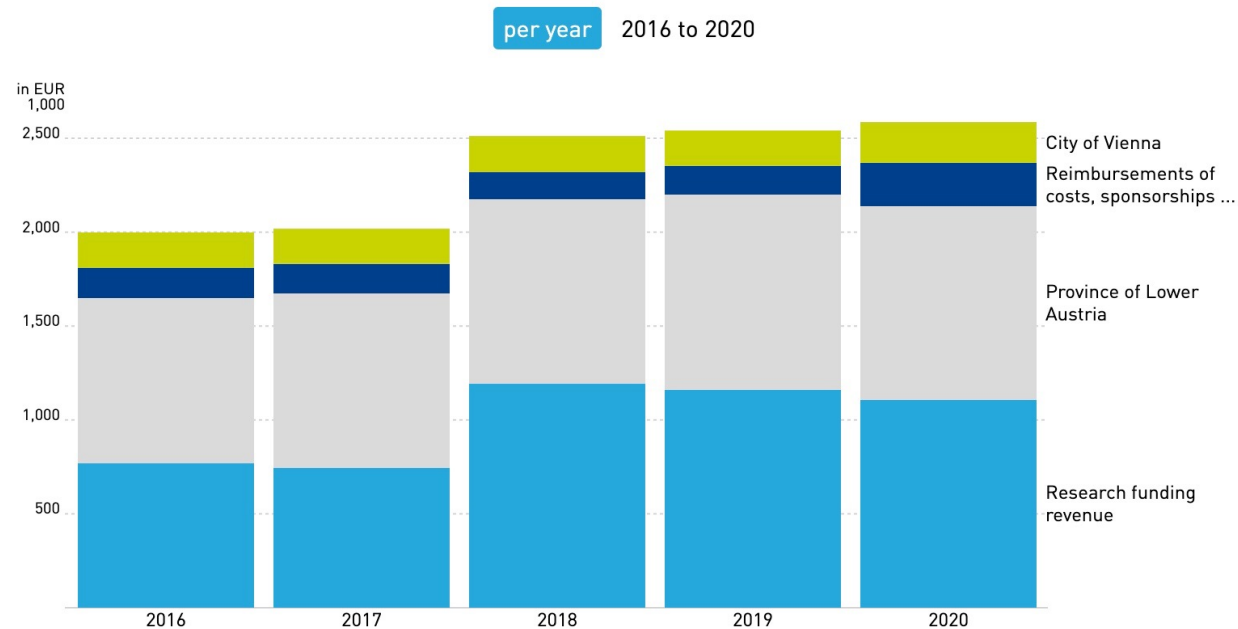
At the beginning of the COVID-19 pandemic, the number of unemployed persons increased considerably.

[https://www.rechnungshof.gv.at/rh/home/news/news/aktuelles/COVID-19-Kurzarbeit-\\_Konzept\\_zur\\_gezielten\\_Aufdeckung\\_von.html](https://www.rechnungshof.gv.at/rh/home/news/news/aktuelles/COVID-19-Kurzarbeit-_Konzept_zur_gezielten_Aufdeckung_von.html)

## Visualization III interactive tables

### Audit report: (published 2022)

#### Revenue of the WasserCluster Lunz GmbH



#### Sources of funding: changes from 2016 to 2020

- +44.2 per cent research funding revenue (third-party funds)
- +17.1 per cent province of Lower Austria (core funding, development of physical infrastructure, revenue from the release of investment grants from previous years)
- +42.5 per cent revenue from reimbursements of costs, sponsorships and insurance compensations
- +15.8 per cent city of Vienna (core funding)