

# Today's and future Web portals for data collection from businesses

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**Statistisk sentralbyrå**  
Statistics Norway

# Why web portals?

- Increasing digitalization
- Demands on reducing response burden and cost
- Transition from paper to electronic questionnaires

→ new challenges and opportunities

- ✓ Single point of access
- ✓ Standardization



# Survey results: Common portal features

Info pages about each survey (15)

Pdf or other printer-friendly version of questionnaires (15)

Separate user instructions, like videos or written guidelines (15)

Frequently asked questions, FAQ (14)

Business/entity information (14)

A notification system for important messages (12)



# Common portal features (2)

Archive or overview of submitted questionnaires (12)

Overview of surveys per business (11)

Overview of all surveys (9)

Methodological documentation (8)

Calendar (7)



# Authentication

- 12 of 19 offer only one way of logging in
  - 8 of these 12 offer a simple username-and-password-based login
- 8 of 19 offer use of an electronic ID
  - 6 of these 8 also offer use of username and password
- 4 of 19 offer two- or multi-factor authentication
  - 2 of these 4 offer only this kind of login



# Authorization, i.e. access controll

- 9 of 19 portals provide the businesses with an authorization tool for access administration

- Examples:

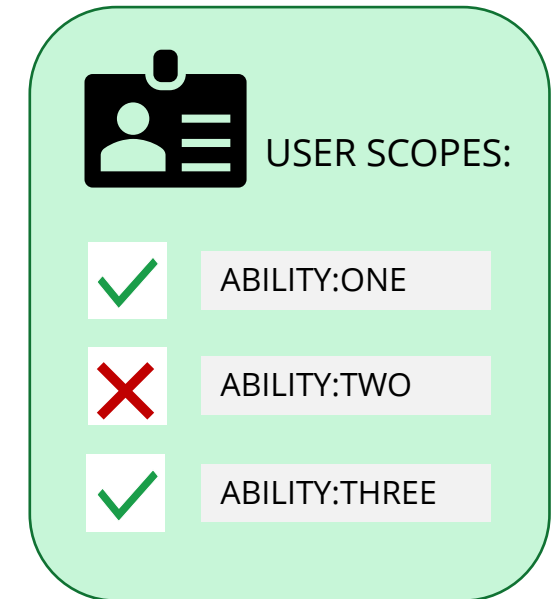
- Portugal (WebInq)

- Estonia (eSTAT)

- Norway (Altinn)

One person per business  
authorized by the NSI

Info from population and legal  
entity register to authorize



# Automated data transfer

No. of portals	Import (N=12)	M2M (N=3)	File transfer (N=13)
8	✓	—	✓
4	—	—	✓
2	✓	—	—
2	—	—	—
1	—	✓	—
1	✓	✓	—
1	✓	✓	✓

No. of portals that enable

- ✓ import of data,
- ✓ machine to machine (M2M) data transfer and/or
- ✓ file transfer



# Automated data transfer (2)

- 3 NSIs have, or are developing, a separate solution for M2M data transfer
  - The U.S. Census Bureau's portal links to a separate electronic reporting instrument (Centurion) via single sign-on
- Sweden and Slovakia develop an M2M solution as part of their portal
- Portugal's and Norway's portals offer M2M data transfer by the use of APIs/Web services





# Future Web portals

**Tailoring** **Flexibility** **Security**

**Freedom of choice**

Data protection

**Self-service**

**APIs**

Automation

Integration



# Future Web portals (2)

- Make use of common authentication and authorization functionality
- Sensitive data demands two- or multi-factor authentication
- Use information from central population and/or business registers for authorization



# Thank you for your attention!

## Any questions?

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