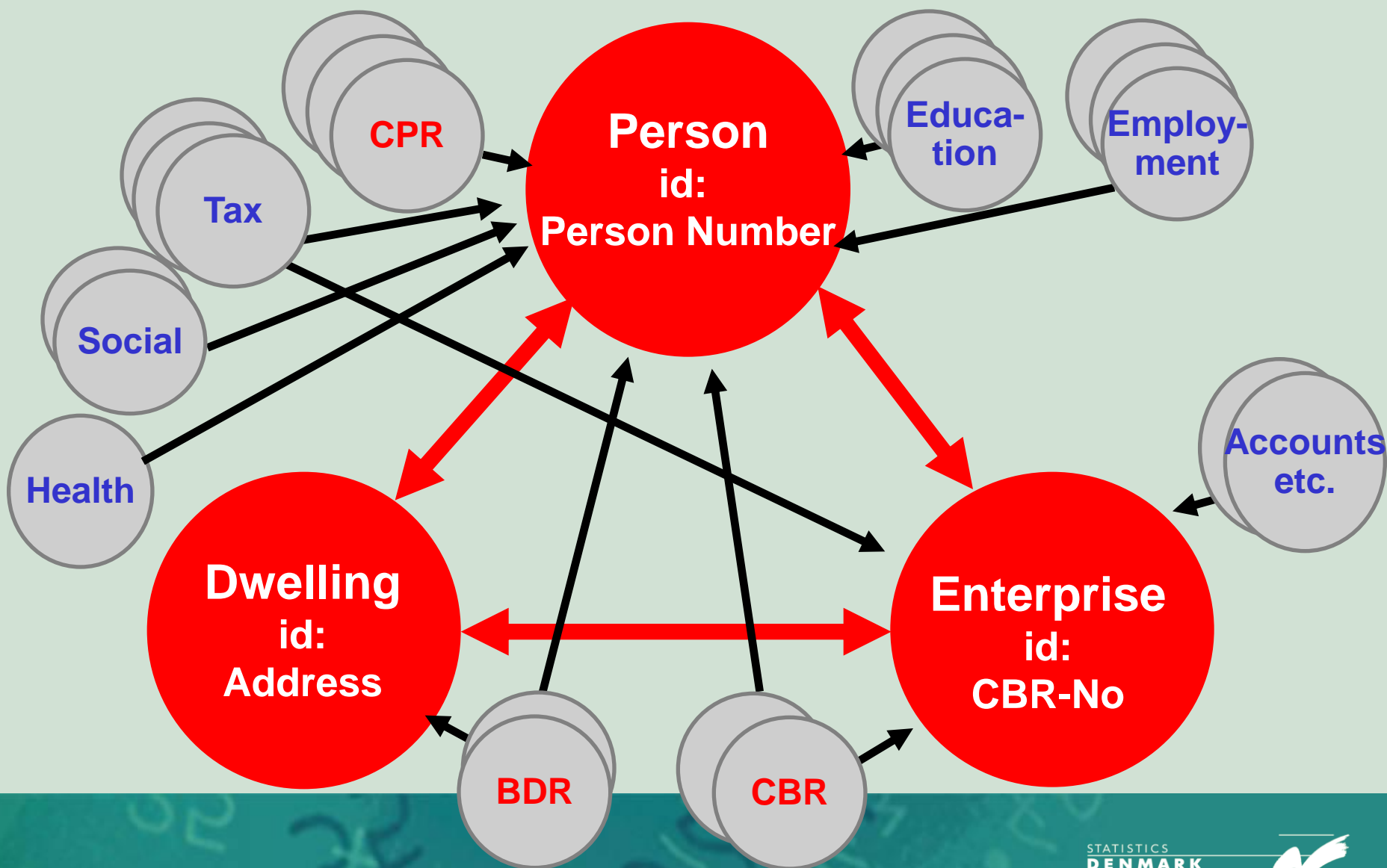# Luxemburg

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Developments in researchers access to Danish micro data

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Data linkage

- Registers linked by various keys:
  - Persons – Families - Dwellings
- Possibilities of combining data are infinite
- Also possible to combine data with own surveys or registers outside SD

    i.e. Register of Medicinal Products

- Huge research potential

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Data-access for researchers

- Researchers may be granted access to all these data if needed

- On-line access is possible through the internet from all over the world

- Researchers are trusted not to disclose any person or enterprise

- Output is randomly checked by SD

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Two limitations on microdata access

- Access to data is given according to a "need to know" principle

- Only researchers from Danish authorized institutions (stable institutions situated in Denmark with a responsible manager and a number of researchers/analysts)

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Bending the "need to know" principle

- Well established research environments may now construct big customized "Project databases"
- Full population and data from many registers
- They must appoint a data-coordinator
- SD still needs to approve all access

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Bending the "national" limitation

- On-line access is possible for foreign researchers all over the world. They just have to be affiliated to a authorized Danish research institution

- The Danish research institution is kept fully responsible for all researchers affiliated

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Some other changes on its way…

- More often **sample selections** for surveys are made from register data. Data is collected by SD's interviewers

- We are constructing an **on-line ordering** system so researchers may order data directly from the internet (from 2013)

- **Training seminars** with Uni. on legal aspects, programming, and content of administrative registers

- Detailed **geographical** data is highly demanded by researches

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The end

The Research Service Division

- We coordinate all research related services and data from all divisions in Statistics Denmark etc.

- We create all datasets for researchers

- We advise researchers – on new as well as old research projects

- We administrate the remote access arrangement, authorizations, contracts, tokens, passwords etc.

Security

- The Head of SD signs all Authorizations: Responsibility & supervision

- The researcher signs declaration to follow rules for access to microdata

- Possible to close an authorization if rules for access is not followed

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The Practical Solution

- De-identified microdata always stays in SD

- Special research computers in SD for remote access

- Separated from the statistical production

- Log-on via tokens and personal PW

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Output

- Researchers are not allowed to print individual records and cannot download data or results

- Output with statistical results is forwarded by e-mail

- All mail is logged and manually random checked by SD