

# Ways of coping with incomplete information



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## Not all is perfect

- We have in general pretty good information to compile financial accounts but not all is perfect:
  - 1) We can't get information from all OFIs directly
  - 2) Back data is sometimes missing
  - 3) Counterpart information on unquoted shares is not very good
  - 4) Counterpart information in MFI-statistics is on ESA95 codes in back data



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## Incomplete information regarding OFIs

- We only collect information from a small number of companies. In order to gross up to the total population we use two kinds of methods:
  - 1) For the S.125 and S.127 we use balance sheet information to gross up. We take the ratio of collected companies compared to the total which we get from the business register combined with information from a private company
  - 2) For the S.126 we use the ratio of employees in the collected in companies compared to the total which we get from the business register



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## Incomplete information regarding OFIs

- For certain instruments and sectors the methods is different:
  - 1) For bonds and quoted shares we use the securities statistics and information from rest of world accounts
  - 2) For loans on the liability side and deposits on the asset side we use information from the MFI-statistics and rest of the world accounts



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## Missing back data

Sometimes back data is missing. An example of this is for the non-financial holding companies which used to be in the non-financial sector but in ESA2010 is allocated to the financial sector.

For these companies we only have data from 2008 and onwards. What to do?

## Missing back data

- For some instruments we can use information from security statistics because this is aligned with the new sectors.
- For others we use the development in companies we find similar. In the case of non-financial holding companies we use the development in financial holding companies because we believe they have the same structure.



## Counterpart information for unquoted shares

- For unquoted shares our information about the ownership structure is not that good. However we do have information for some companies (for some only partly information). This information we use on the total value.
- This does not always leads to reliable results if we compare to our neighboring countries or the EU in general. So we do make manual adjustments here.



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## Counterpart information in back data for MFI-statistics

- We use information on counterpart from other sources which we apply on the total. A couple of examples:
  - 1) For bonds and quoted shares we apply information from the securities statistics
  - 2) For deposits and loans we use the information from the new S.128 and S.129 on the old S.125. And same method is used on the old S.123 where we use the new S.124, S.125 and S.127.
- We are not finished yet with back data for the MFI-statistics but the general idea is as in the examples described



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