

# Video 7 of 21: Random-Digit Dialing List-assisted designs

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Sampling



THE WORLD BANK

MANNHEIM  
BUSINESS SCHOOL

# List-assisted designs

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- Identify active 100-banks using listed phone numbers
  - Use efficiencies of directories to overcome RDD inefficiencies
  - Avoid non-coverage problem of directory

# 1+ dialing

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- Select directory listing
- Replace last digit by 'digit + 1'
- Modification: replace the last  $k$  digits with a random number
- Not probability sampling
- Inherent biases

# List-assisted RDD

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- RDD element sampling from 100-banks with 1+ listed numbers (Cassady & Lepkowski, 1993)
- 100-banks readily identified from commercial lists
  - Obtain a count of listed numbers in all 100-banks for low cost
  - Sample phone numbers from banks with  $k$  or more listed numbers (e.g.,  $k=1$ )
- Also possible to select 100-banks with probability proportional to the count of listed numbers
  - Needs to adjust unequal selection probability with weights
- Undercoverage: phones in 100-banks with no listed numbers
  - Consider also selecting a sub-sample of numbers in 100-banks with no listed numbers

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*END OF VIDEO 7*