



**Statistiska centralbyrån**  
Statistics Sweden

# **STATISTICS PRODUCTION SYSTEM 4.0**

Presentation at

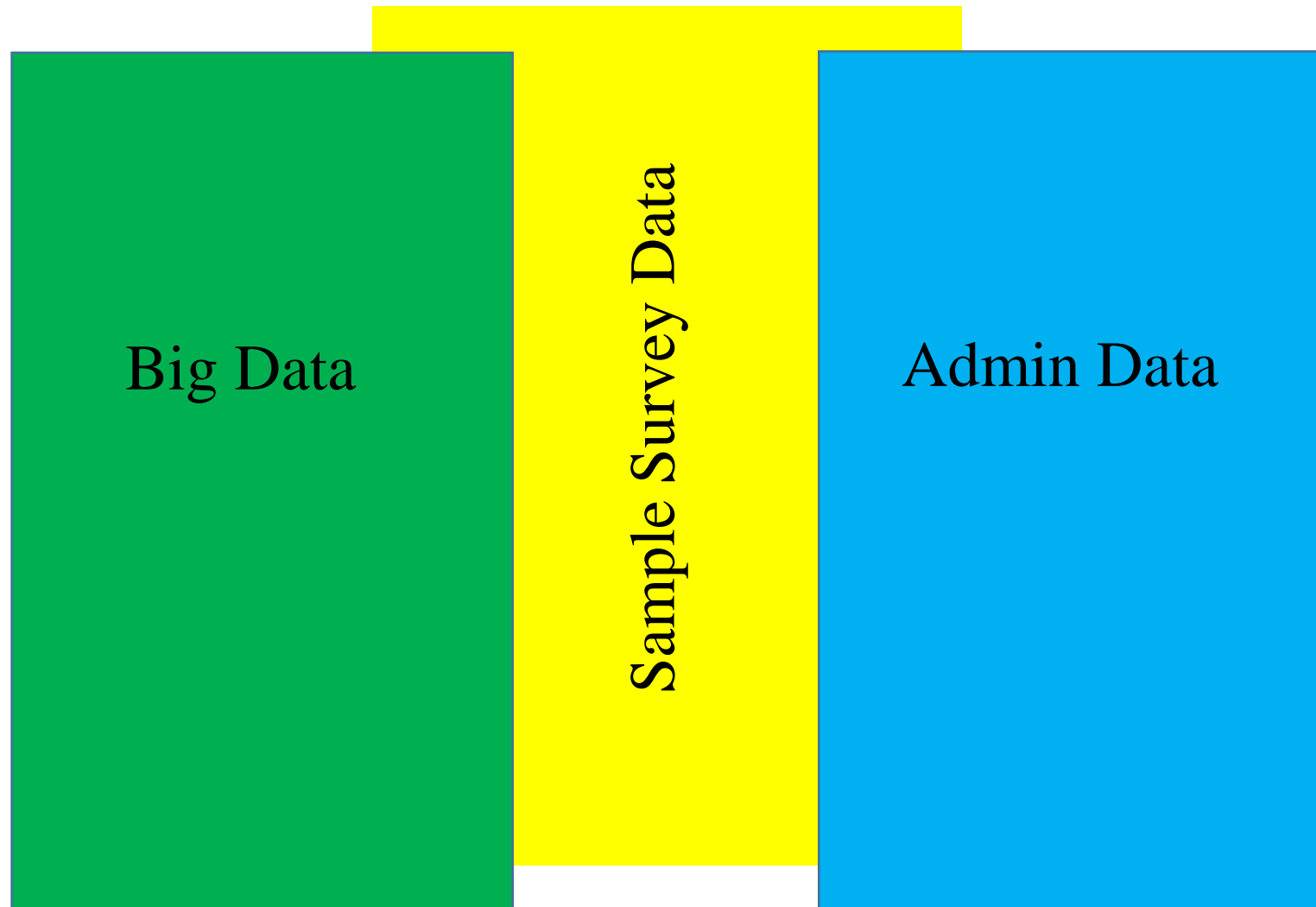
CES seminar, 20 June, 2017

“The role of next generation of statisticians and data scientists”

Prepared by Thomas Laitila, Statistics Sweden

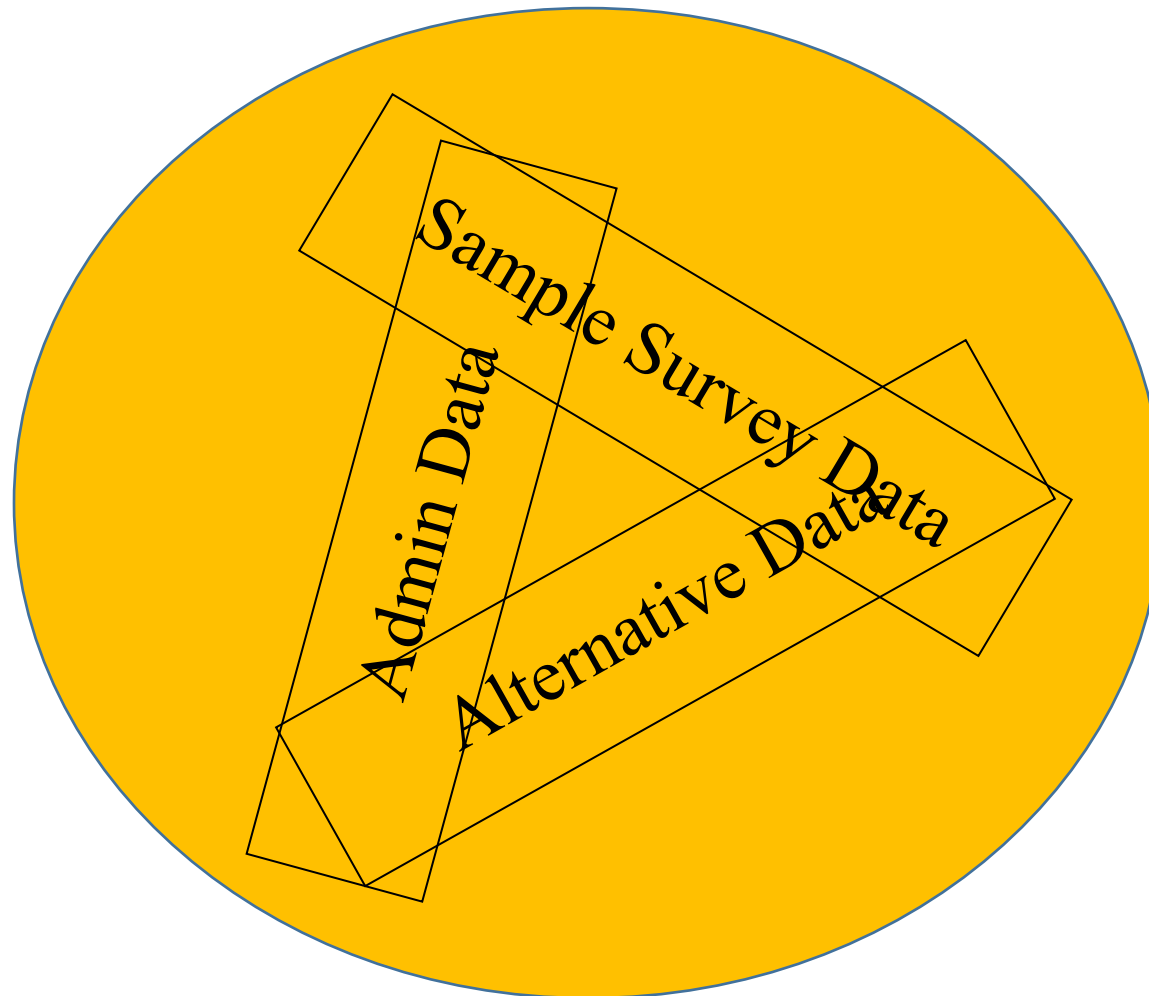


## How Data Sources are used



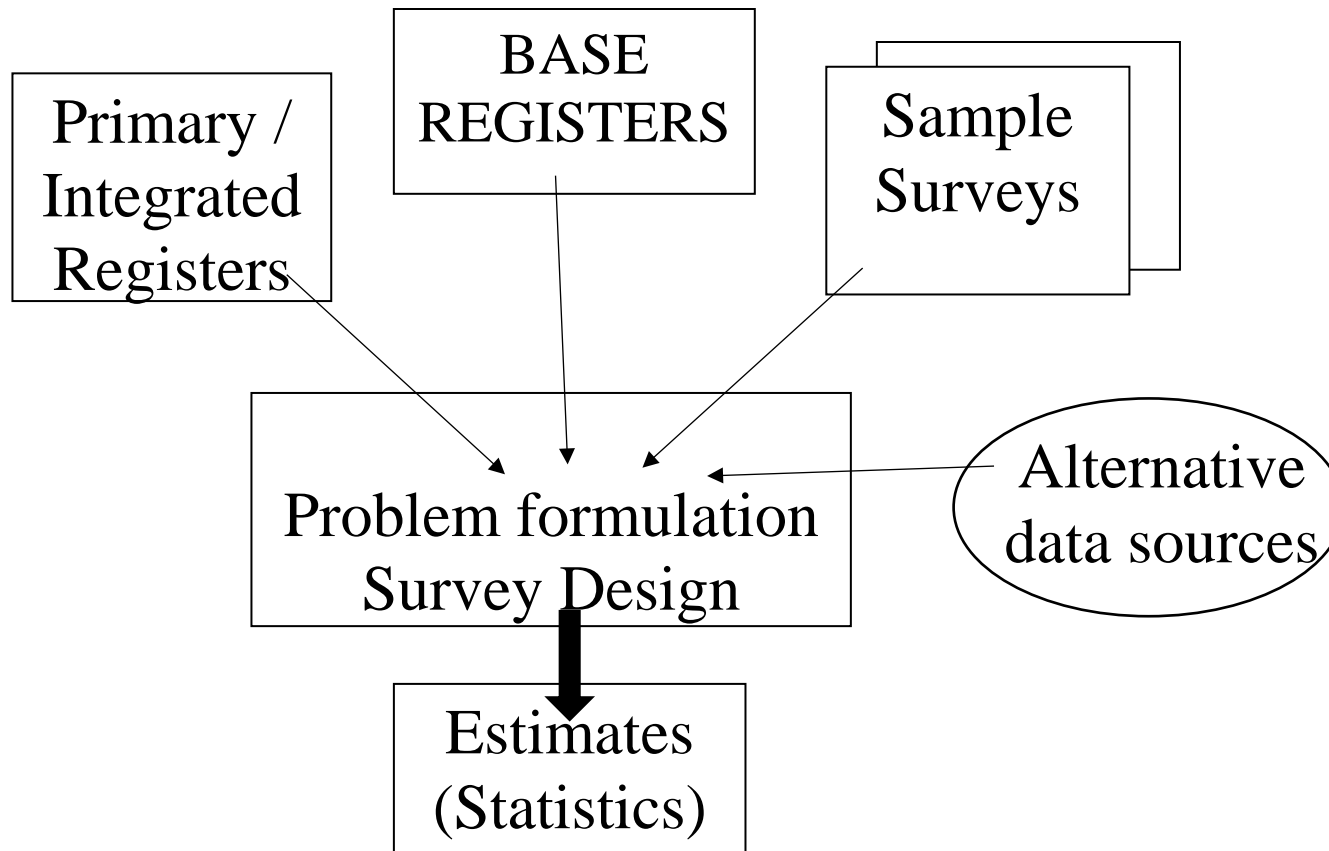


## How Data Sources should be used



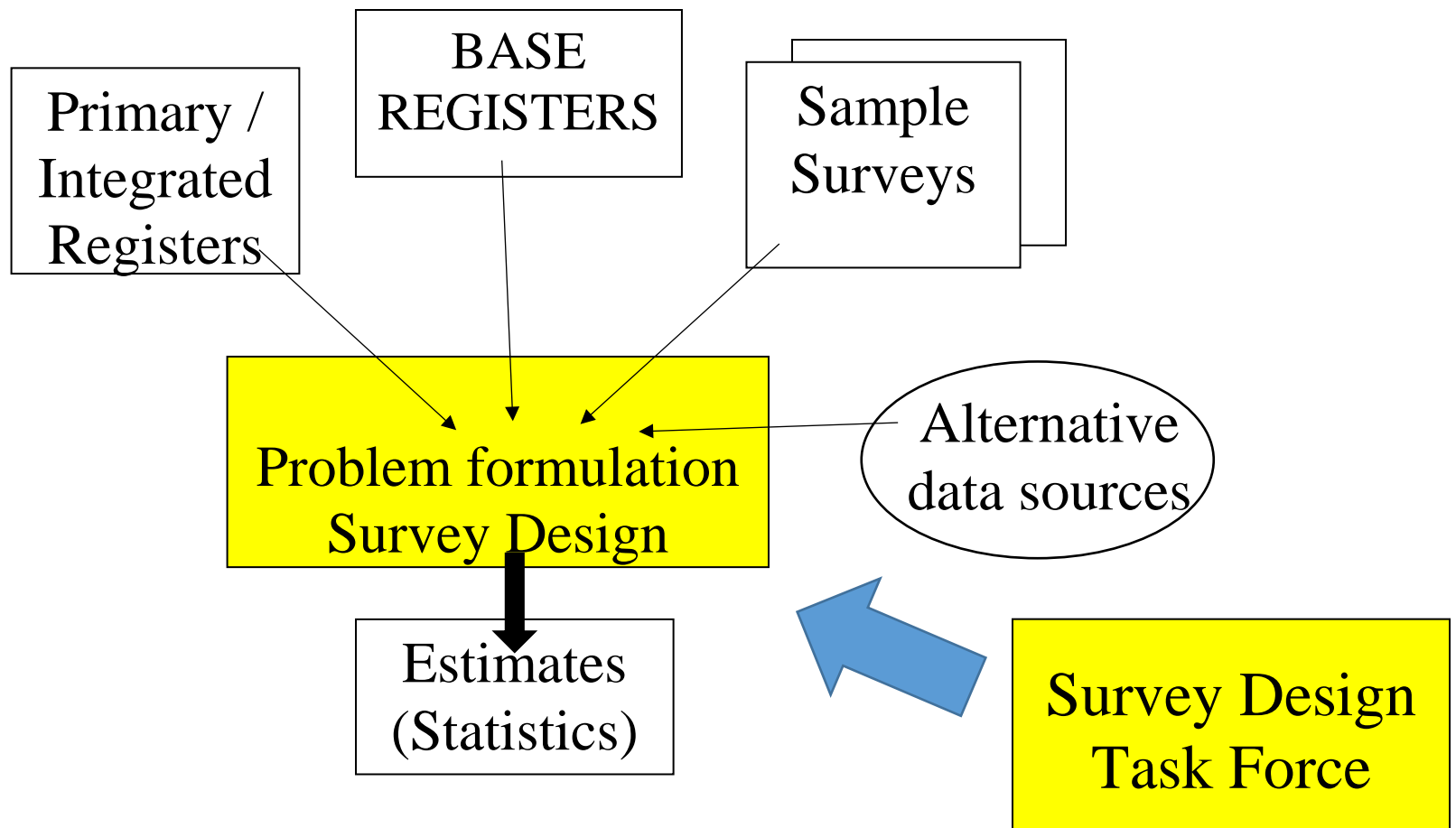


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## **Future role of statisticians/data scientists**

- Many new roles/competencies in the future NSI are needed
- Data science and data scientists
  - Deriving new knowledge/insights?
  - An NSI provide descriptions of the state of the nation
  - “Correlation structures” useful in estimation
- Statistical modelling
- Survey sampling equally important in the future
- Competencies for handling and using administrative data
- Statisticians central in a survey design task force.
- Communication fostering users



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Thanks for Your attention!