## Establishing an Innovation lab for new data sources and techniques at Statistics Norway

### Experiences so far

ANDERS HOLMBERG, 13 SEPTEMBER 2018

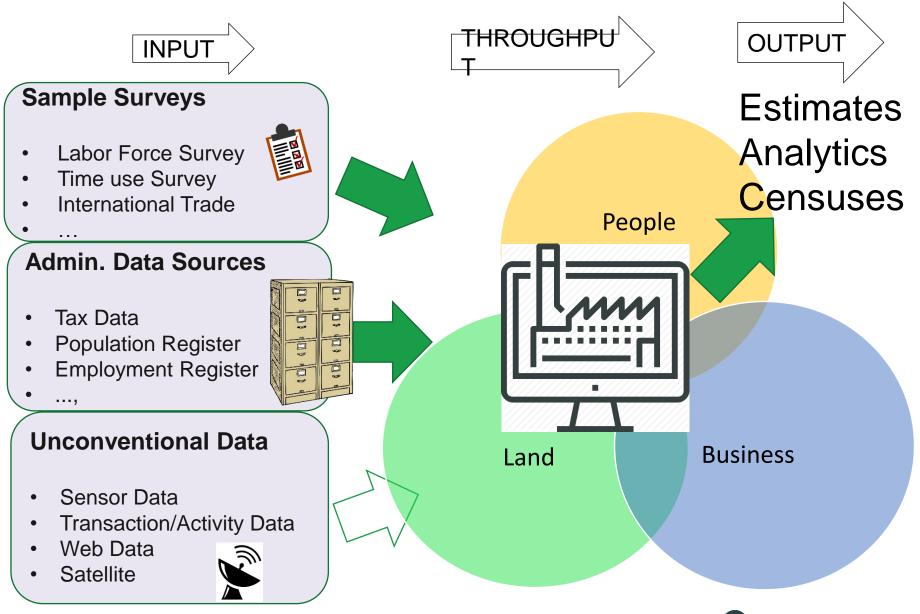


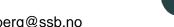
### Quotes from the past in new context

- "It is not necessary to change. Survival is not mandatory."
  - \* On Challenges, Opportunities, Adaptability, Relevance of modern statistics, Design Re-engineering, Data Recycling and additional use of data
- "Information is not knowledge let's not confuse the two"
  - \* Data volumes will not be enough, Necessity of analysis, Numeracy skills, Statistical analytics and Quality assessments
  - <u>W. Edwards Deming</u>



### Official Statistics in One Slide

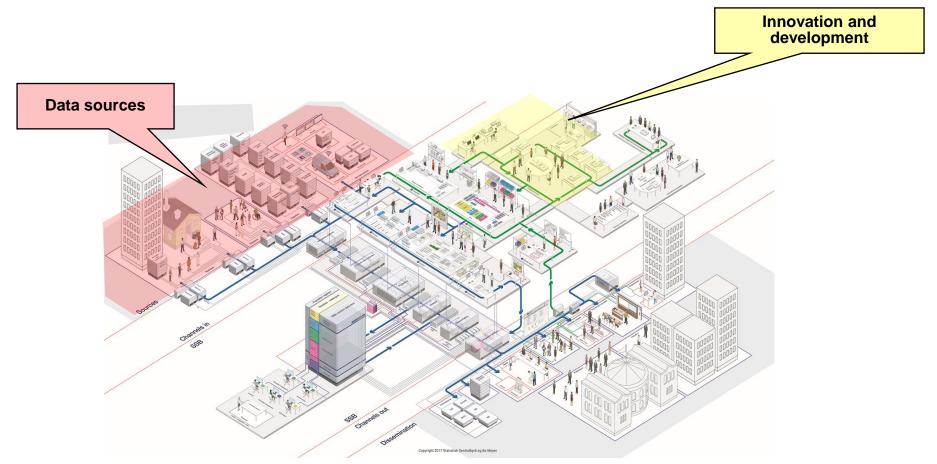




Statistisk sentralbyrå

Statistics Norway

### SSBs 2022 Modernisation target



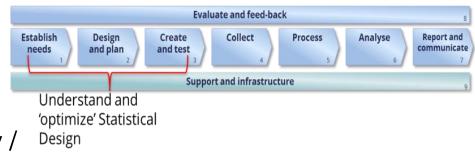


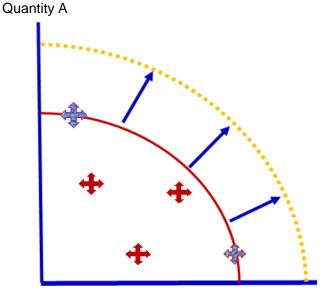
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### Official statistics and Methodology

### Methodology

- Deliver a responsive consultancy / implementation service
- Manage the Organisation's "Production Possibility Frontier"
  - Research, Methods, Tools, Innovations
- Methodology strategy
  - Standardize
  - QA
  - Ompetence increase





Quantity B



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### New measuring devices

•Collection of blood cholesterol, saliva cortisol, and waist circumference

- Internet bathroom scales
- •(weight & fat percentage)
- Accelerometers
- (physical activity)

#### Smartphones

(time use, travel behavior / m

•Navigation, Sensors,

Tachograph systems







### Environment

### DATA ENVIRONMENT

- Digitalisation
- Unconventional data (Big, Combined and New sources)

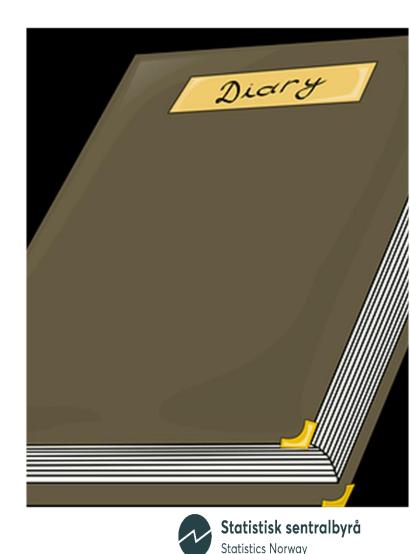
### Production Environment

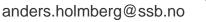
- More input sources
- Data herding, combining, analyzing, adding value, validation
- Multiple uses of the same source
- Fit for use? Quality evaluations and development
- Methodological and tech. environment



### New Demands New methodology, New Survey Design

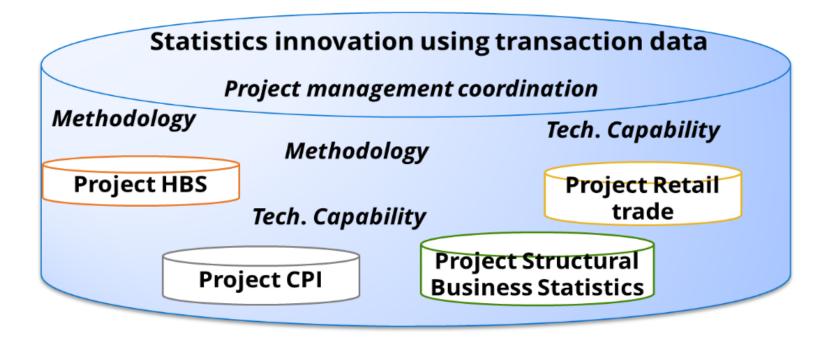
- I. Statistics Norway annulled the 2017 Household Budget Survey.
- II. Statistics Sweden pulled an emergency break during data collection their HBS





### Financial Transaction Data

- A case for Cross Domain Innovation Activities



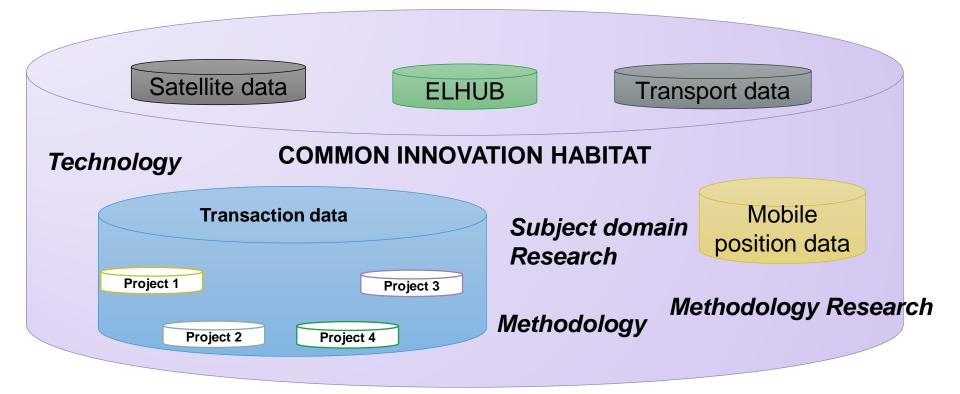


### Statistics Norway's Innovation Environment

- Principles
- Steering group responsible for content and resources allocation
- Purpose and output driven
- Staff rotation
- Communication and Results Dissemination
- Information and Data Management principles



### Expansion opportunities





### **Experience Future Outlook**

• Low level investment, try and fail fast

• Good collaboration spirit, new constellations,

New and broadened knowledge

• It is an experiment! Future resource allocation is uncertain.



# Takk!

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