Why data? Opportunities for government

- Improve Public Services
- Contribute to Innovation and Economic Growth
- Detect Savings
- Increase Transparency
Why data? Opportunities for SAI’s

• Improve transparency, open data, involve the armchair auditor
• New insights through data driven audits
• Data Visualization for stronger messages
• More real-time insights, at lower costs
• Cooperation (e.g. SDG’s)
Stimulate Data Use: Accountability Hack
Stimulate Data Use: Stuiveling Open Data Award

2016: Energy saving options with the tool ‘HuisScan’, offering homeowners insight in possibilities to save energy on that specific address.

2017: What are the costs of health care? Tool that give insight in the prices of medical treatments in different hospitals and with different health care insurances.
Giving the good example: Publish own Data

Data and Analytics at the Netherlands Court of Audit

April 2018

Algemene Rekenkamer
Data In Audits: Effect of tax exemption for donations on mortgages

Regeling 2013/2014 was niet toegespitst op groep met meeste onderwaterhypotheeken

25%

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Data In Audits: Effects of speed limit elevation

Data and Analytics at the Netherlands Court of Audit

April 2018
Data Capacity Building
Data & Analytics at NCA

• **Semi-structured team:**
  - 5 data analysts with social science / mathematics background
  - 1 data analyst with IT / engineering background
  - 1 data visualization expert
  - 1 manager with social science background

• **Tools:**
  - R (== Reproducible research & Audit trail)
  - Tableau (limited)
  - Excel (limited)
  - Adobe (for high end visualizations)

• **Objectives:**
  - Increase analytical capabilities at the NCA
  - More data-driven audits, also more in financial audit
What do we do?

1: Analysing
   Analysing data as part of research teams

2: Data collection
   Making datasets / scrapers / cleaning data

3: Consultations
   Consultations on methods and research questions

4: Developing tools & knowledge
   Teaching data courses and developing tools
Challenges for SAI’s?

Yes, many like:

- Need for different hardware, software, and human ware
- Analytical Capabilities *(how to audit an algorithm?)*
- Access to Data *(competing laws & regulations)*
- Data Quality *(can we identify alternative facts?)*
THANK YOU