



# **Big data as support in decision-making and a source for knowledge creation**

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# Big Cities meet Big Data (BCBD): City of Turku

- **Request:** A need to study the practical use of Big data and its effects in the public sector
- **Aim:** Understanding of what Big data is (concept) and how it is applied (use) in the city of Turku
- A variety of questions on different aspects of Big data (concept, use, possibilities and challenges, efficient information management, tools etc.)
- Big data as support in decision-making and a source for knowledge creation



# Big data as support in decision-making in City of Turku

- According to a majority of the respondents, Big data is used as support in decision-making in City of Turku, while many are unsure
- The use of Big data as support in decision-making covers all parts of the city (to different extent)
- The use of big data is said to contribute to understanding, knowledge and better decision-making
- Big data should and could be used more; *‘Big data can be used more as support in decision-making. [...] Possibilities exist to increase cost-effectiveness and efficiency in the public sector, by enhancing the use and utilisation of big data.’* (Director, City of Turku)

# Knowledge creation with Big data

- **Theoretical expectation:** Big data is considered to create new knowledge as (large) datasets offer a higher form of intelligence and knowledge that can generate new insights (e.g. Knapp, 2013)
- **Empirical findings:** The use of Big data is said to contribute to understanding, knowledge and better decision-making; ‘a source of information producing new knowledge’ (City officials in City of Turku)
- **Conclusion:** Creating new information and knowledge out of Big data, and its use as support for decision-making in organisations, would enhance the quality and increase trustworthiness in the decision-making

# Knowledge creation with Big data

