



What is **Big data**?





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- The concept Big data is still evolving and being reconsidered
- It is a driving force behind the ongoing waves of digital transformation, including artificial intelligence, data science and the Internet of Things
- The term Big data describes the large volumes of data generated by a business on a day-to-day basis
- It is not the amount of data that's important more the capture and coupling
- These data may be both structured and unstructured
- Big data can be analyzed for insights that lead to better decisions and strategic business moves
- Such analyses may reveal patterns, trends, and associations, especially relating to human behaviour and interactions





As in other industries, We are already seeing the power of Big data

- Logistics and transports
- Follow up of performance and production
- Financial transactions
- Updating of forest inventory records
- Improved production forecasting
- Stand choice and harvesting sequencing
- Machine state monitoring
- Decision support, e.g. for reduced environmental impact
- Identification of operator training needs
- **.** . . .





In short: Big data

improves efficiency and precision of operations



This means that **the forestry cake grows** – with more to share... this is the purpose of applied forest operations research

How the cake is shared is, however, not a scientific question!









Big data may yield unprecedented insights and opportunities

Big data also raises concerns and questions that must be addressed:

- Data privacy contains a lot of personal or sensitive information.
- Data security if we approve for someone to have our data for a particular purpose, can we trust them to keep it safe?
- Data discrimination is it acceptable to discriminate, based on data? We use credit scoring to decide who can borrow money. Insurance is heavily data-driven. We can expect future analyses and assessments of ever increasing detail. Care must be taken that this will not become an obstacle for development.

Addressing these challenges is important.

Failure to do so can leave individuals as well as businesses vulnerable, in terms reputation, legally and financially.











