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**Water Utilities**

**Access control worldwide**

Abloy Oy is one of the leading manufacturers of locks, locking systems and architectural hardware and the world's leading developer of products in the field of electromechanical locking technology.

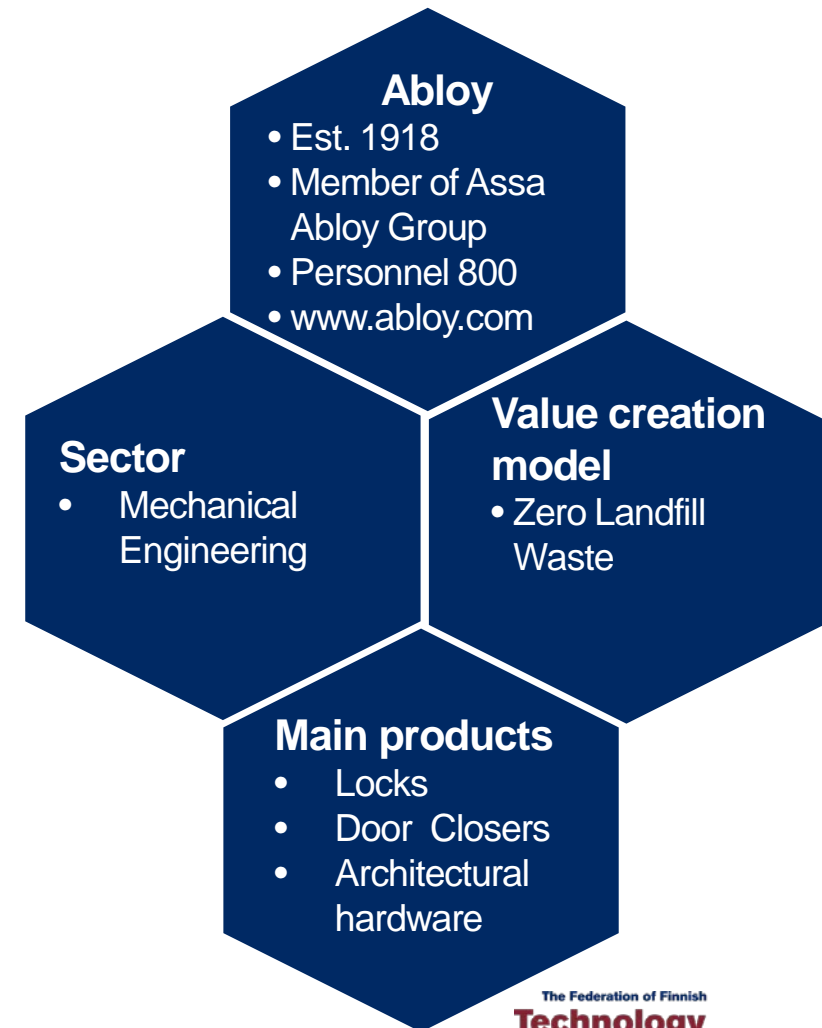
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# The Company



- Abloy is one of the leading manufacturers of locks and locking systems.
- The lock manufacturer has a mission to **remove waste** in their productions.
- This target is also in line with the company's **LEAN philosophy**, where the ultimate goal is to provide value to the customer through a perfect value creation process that has zero waste.
- The strict principle is to follow the waste hierarchy such way, that **nothing ends up to landfill**. If material is not suitable for recycling, it will be used as energy.
- Abloy is a member of various producer associations in order to meet the recycling requirements set by the authorities.



# The Challenge / Opportunity: Zero landfill



- Thanks to the Taguchi and other methods adopted by the company, Abloy's manufacturing process generates **less scrap**. Abloy is optimizing also the amount of coating materials used in the process.
- Several initiatives have been taken in order to make the process environmentally sound:
  - The change of chemicals used in the process is done regularly in a planned manner, taking into consideration the strict quality requirements but also the environmental need of extending the life time of the chemicals.
  - Organic solvents and washing liquids are used in productions in a controlled way.
  - Abloy is using final disposal services provided by Ekokem Ltd for the handling of hazardous waste, including the purification of clear waste oil, and using them as renewed lubricants.
  - The rinse water from electrochemical plating process is reused to minimize the amount of waste water.
- Brass is widely used in locks, and due to the nature of process, part of the this material ends up in waste chips. This brass scrap represents the biggest fraction in Abloy's total waste by weight. Abloy sells the brass waste to an operator for recycling.
- In the End-of-Life phase Abloy's customers can return the products to authorized lock smith shops. The products do not end up to Abloy directly, but the material is handled by specialized recycling operators and turned back into to the raw material. The industry is facing a challenge to further improve the parts re-use and re-manufacturing taken in consideration the extremely high security requirements of the products.