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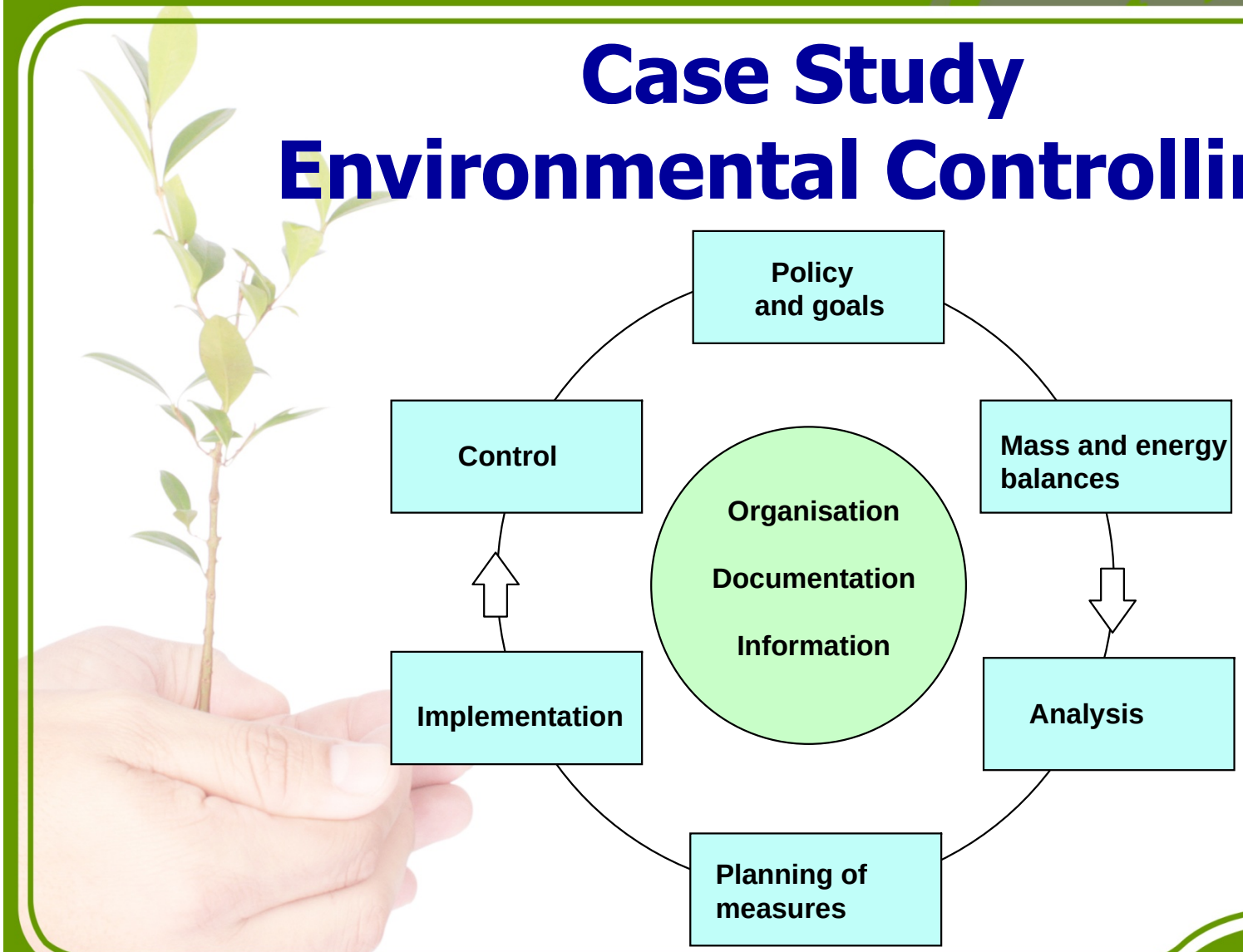
Case Study
Environmental Controlling



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Actual Situation

- You were appointed the **environmental representative** of the company Hans Meier GmbH
- The company **produces** high quality **decoration textiles**
- There are some **problems** with **new regulations**, new **customer requirements** and with the **energy consumption** of your process

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Your Task

The management has put you in charge of building an environmental controlling system for a specific area

- **analyse** the environmental **policy**/set concrete targets for your area
- **analyse** the present **data**
- **find indicators** for your area
- **define plan values** for indicators making use of your environmental targets
- **make** a **deviation analysis**
- **propose measures** to reach your planned values
- **present** the **results** to the management!

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Your Resources

- **45 minutes** for group work and preparation of the presentation
- **5 minutes** for presentation
- **1** exercise form
- **1** flip chart
- **4** markers

Good luck!

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Results (indicators, measures)

- **Policy:** too much in general, contradictory (econ. vs. ecol.), not to handle
- **Water**
  - mg oil/l water; kg water/ kg product; kg fl.ret./kg product
  - optimise use of spinning oil: oil quality, techniques of application
  - dry cleaning of cylinders; measurement of flame retardant quantity in water; separate collection of cleaning water and reuse for next batch of flame retardant
- **Waste**
  - kg waste/kg product; kg oil/ kg product
  - train operators
  - think over quality control --> quality management
  - improve maintenance
- **Energy**
  - kWh/kg product; m^3/kg product
  - reuse exhaust heat for drying
  - if possible better planning of production
  - define minimum length of product