

A Sustainable Future for Business

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What is important to include in your strategy?

Efficiency
Innovation

Value

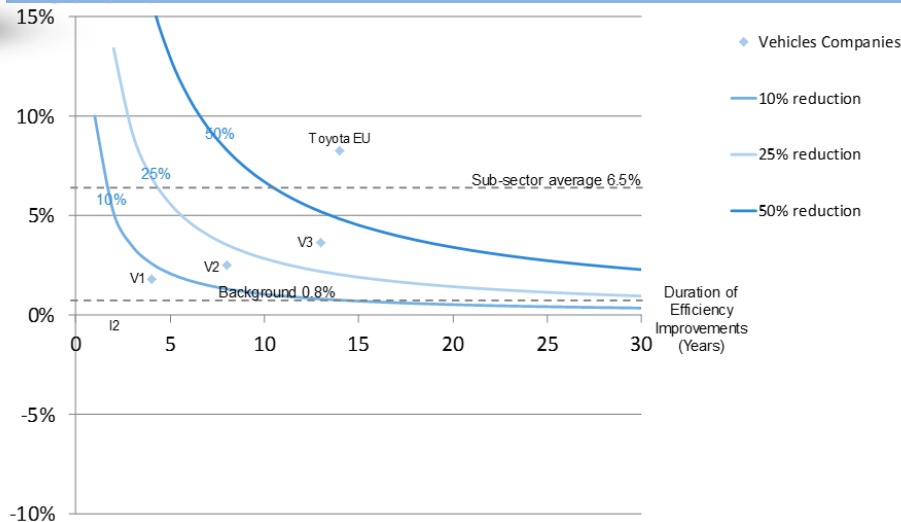
Technology

System

Which is the most energy efficient car factory in Europe?



8% reduction every year for 14 years

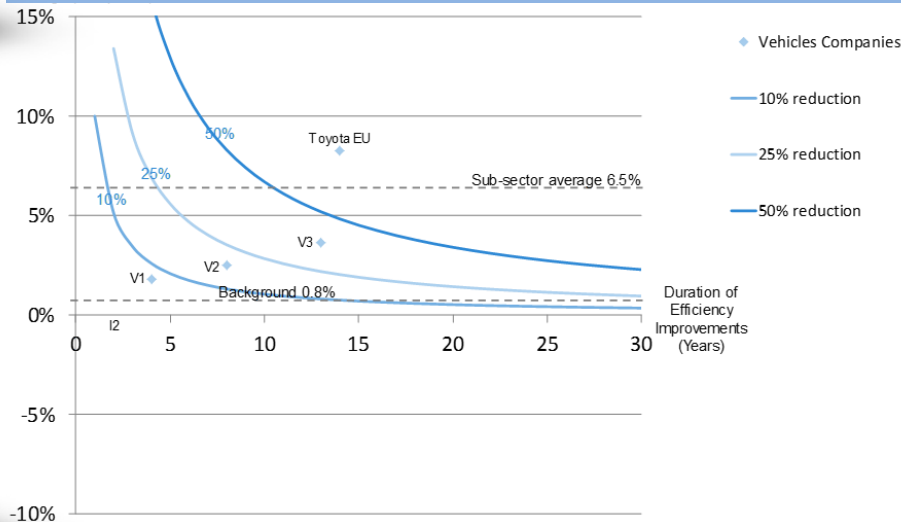


Note: Numbered data points are companies who provided data confidentially or are not named for other reasons; all named companies are plotted based on publicly available information.
Sources: Next Manufacturing Revolution Survey; Next Manufacturing Revolution literature review; Department of Energy and Climate Change, Energy Consumption UK 2010, 2012; Office of National Statistics, Detailed Indices of Production, 2011.

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Which if we moved half way to the best in our sector?



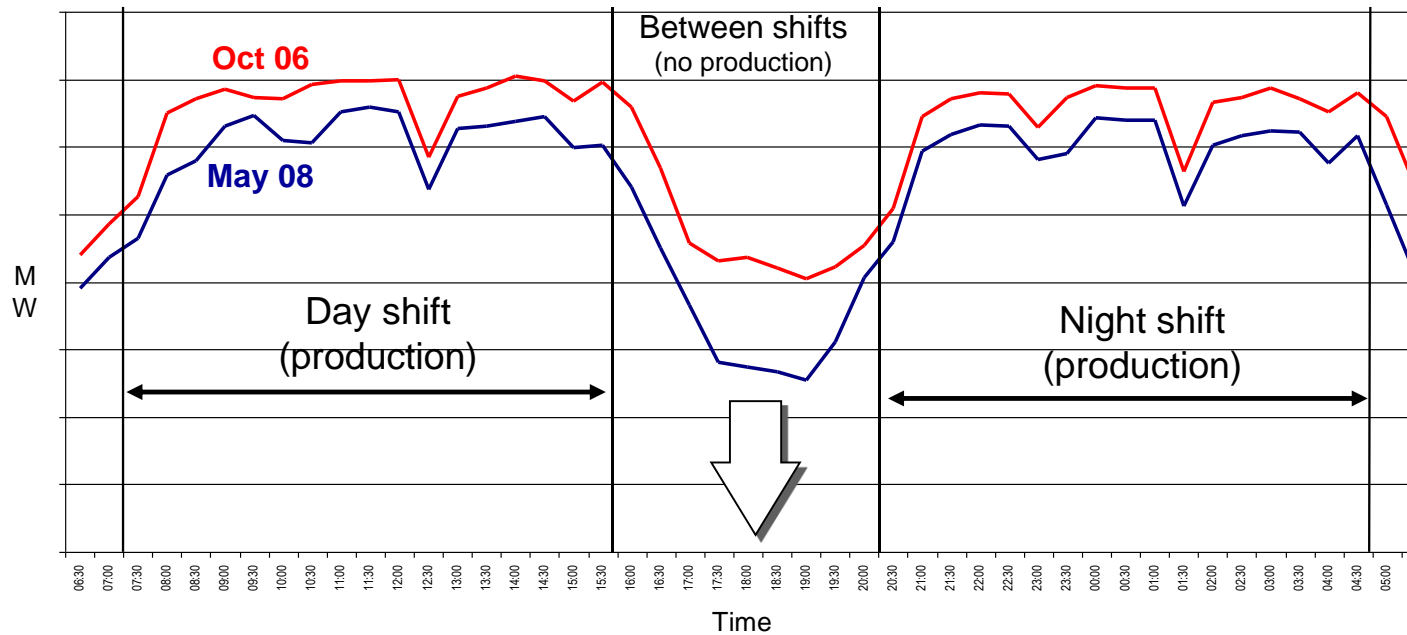
12% more profit
15% more jobs
4.5% less CO₂



Examples of Leadership Energy reduction

Inter-shift shutdown focus

Burnaston Plant site electrical loading



Target: no production = no energy use

Weld Shop energy focus

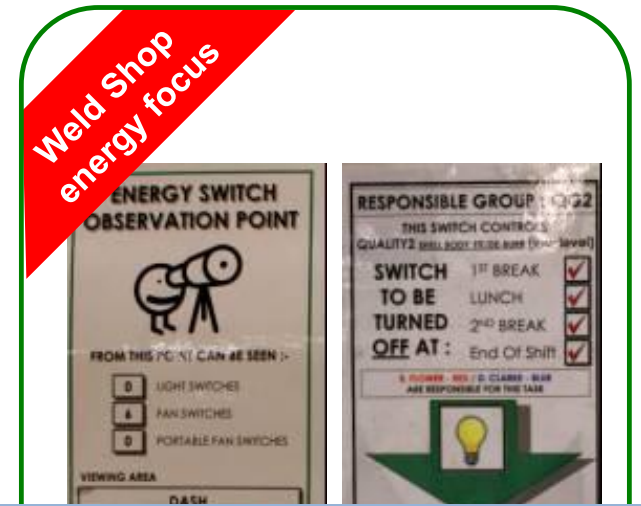
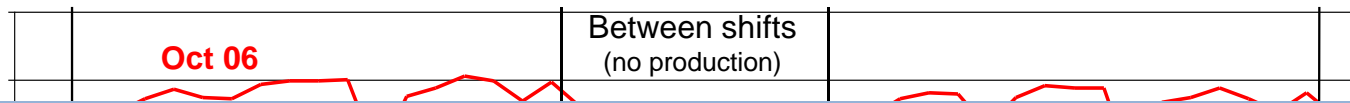
The image shows two signs for energy switch observation points. The left sign is titled 'ENERGY SWITCH OBSERVATION POINT' and lists items to be checked: LIGHT SWITCHES, FAN SWITCHES, and PORTABLE FAN SWITCHES. The right sign is titled 'RESPONSIBLE GROUP' and lists items to be checked: 1st BREAK, LUNCH, 2nd BREAK, and End Of Shift. Below the signs is a photo of an employee in a white lab coat operating a switch in a factory setting.

- Employees responsible for switch off
- Energy switch observation points
- Clear instructions for switch off times
- Local ownership of energy control

Examples of Leadership Energy reduction

Inter-shift shutdown focus

Burnaston Plant site electrical loading



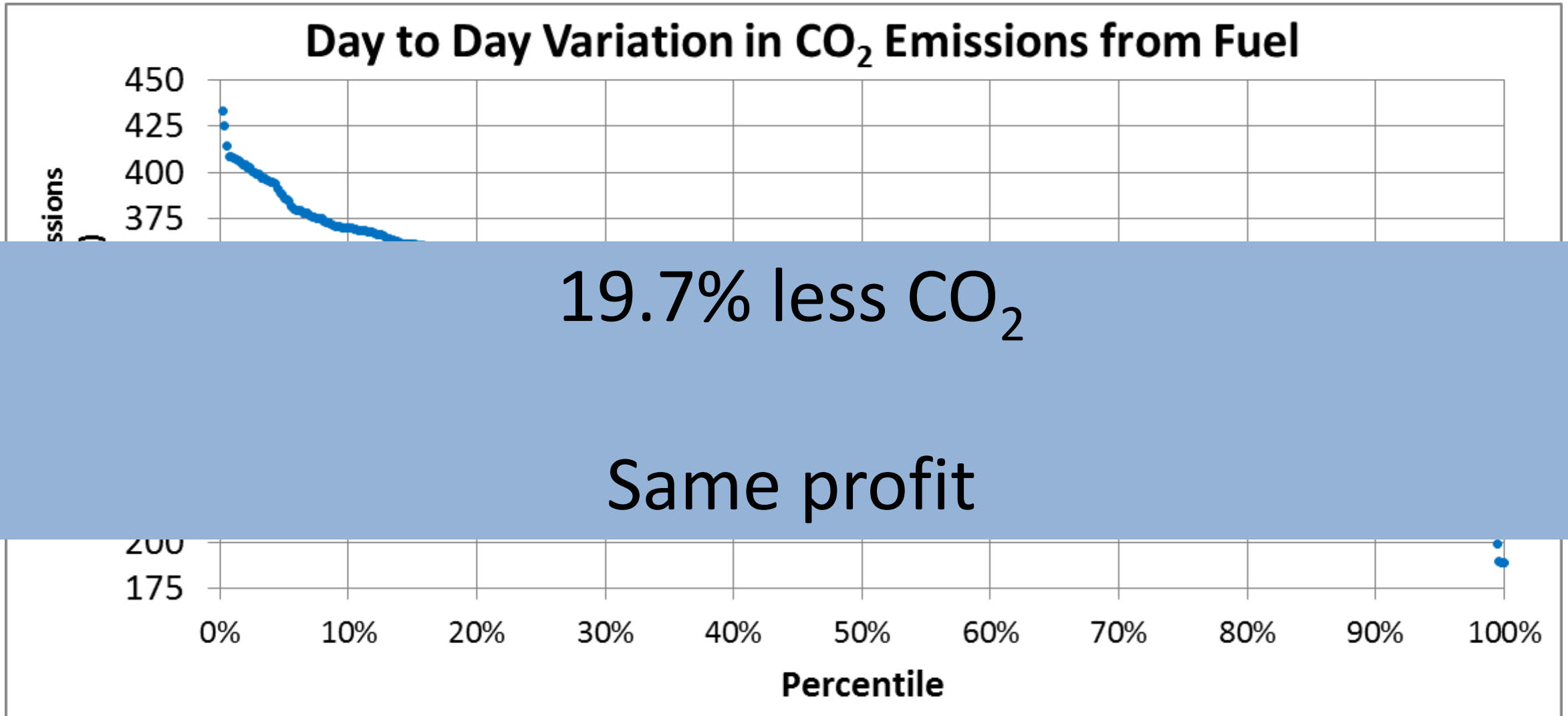
Toyota North America in 2010:
target = 6% water reduction by 2016
achieved = 14% in year 1

Time

Target: no production = no energy use

- Energy switch observation points
- Clear instructions for switch off times
- Local ownership of energy control

Best this year? CO_2 - Cement Factory



Efficiency

Value
Innovation

Technology

System

Efficiency

Circular
Economy

Technology

System

How to start on the road to a circular economy?





20



Circular actions:

- *Reduce your own waste first*
- *Use other's waste as an input*
- *Find other businesses to use your waste*
- *Get your product back*
- *Use your knowledge*
- *Learn with others*

Efficiency

Value

Technology

System

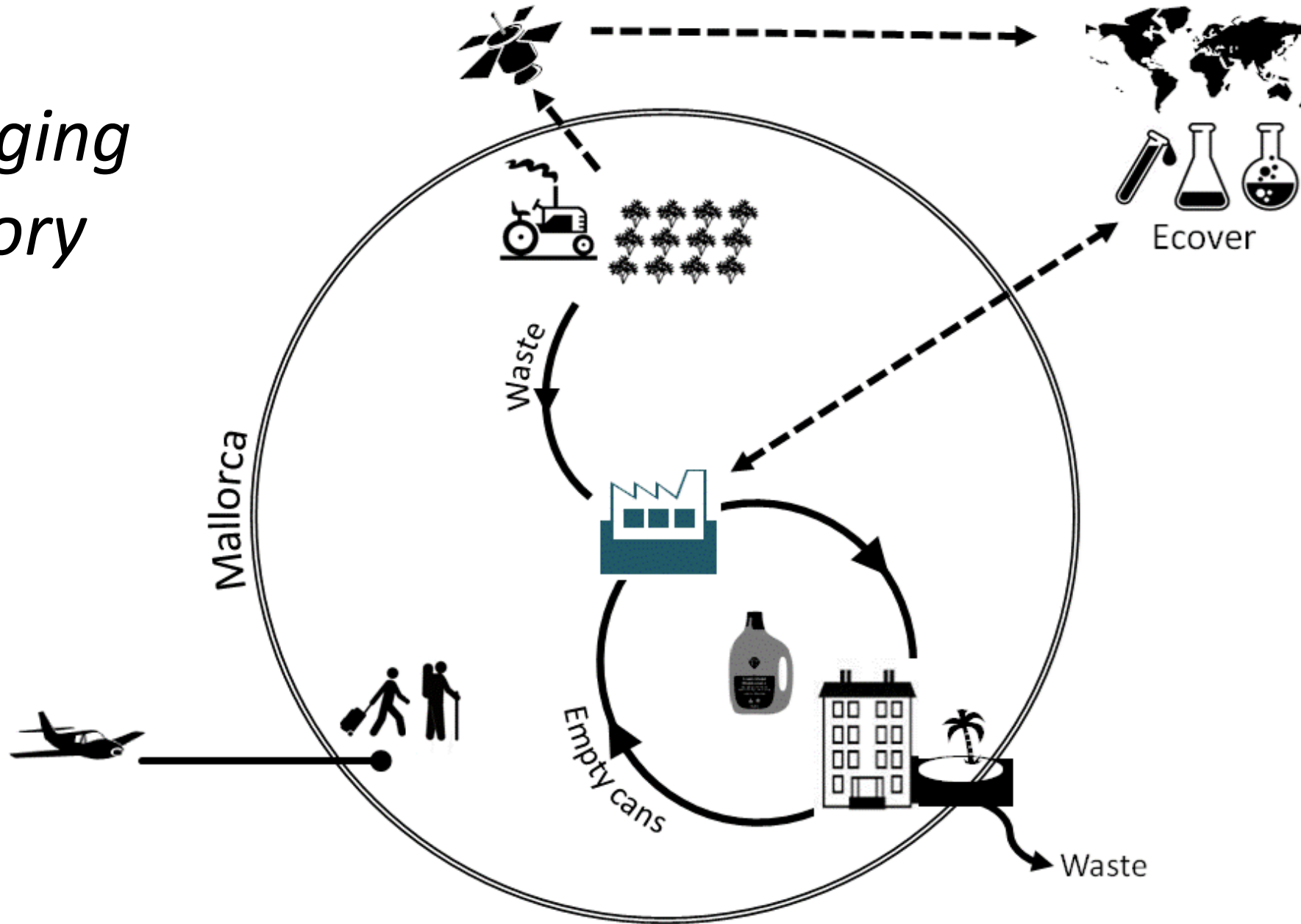
Efficiency

Value

Technology

System
Innovation

The Foraging Factory



Go on a Treasure Hunt

Invite others into your treasure ('waste')

Learn from the best, learn from your neighbours

What is important to include in your strategy?

Efficiency
Innovation

Value/
Circular

Technology

System

Taking action:

- *Learn how to deliver 7% pa in your 4 key areas*
- *Learn how to find value in your waste
(or find someone who finds value)*
- *Learn from others in your town / sector*
- *Experiment*
- *Delay investment*

The business challenge **by 2050:**

- *to treble output*
- *to be a clean neighbour*
- *to emit 100% less GreenHouseGasses*
- *to reduce resource use 50%*
- *to be equitable & flourishing & resilient*

Experiments

Everywhere

Thank You