



ESTA Spring Series 2010 | 2020 Vision

Is it time to stop counting carbon and time for controlling

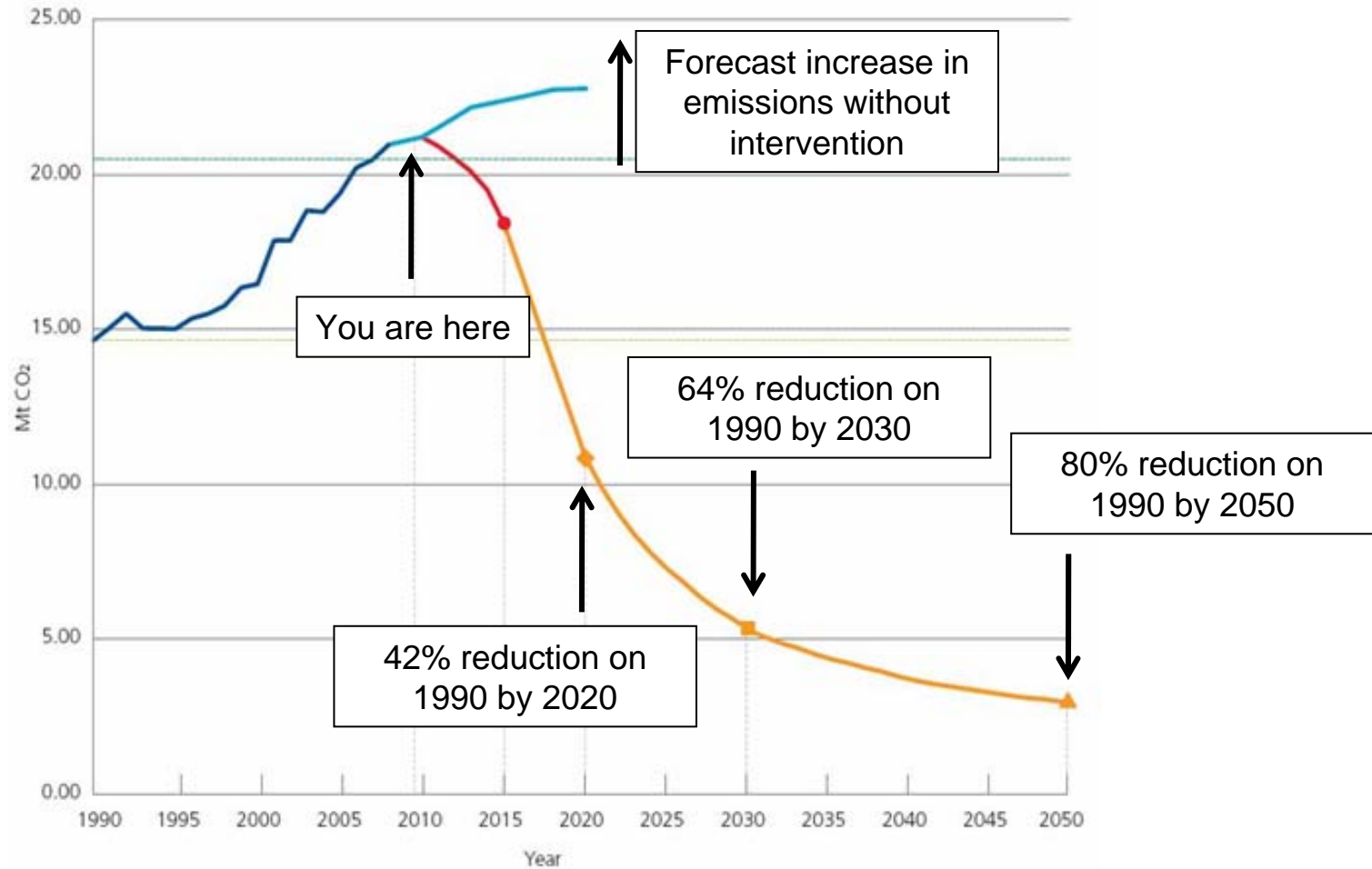
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Why are we talking about Counting or Controlling Carbon?



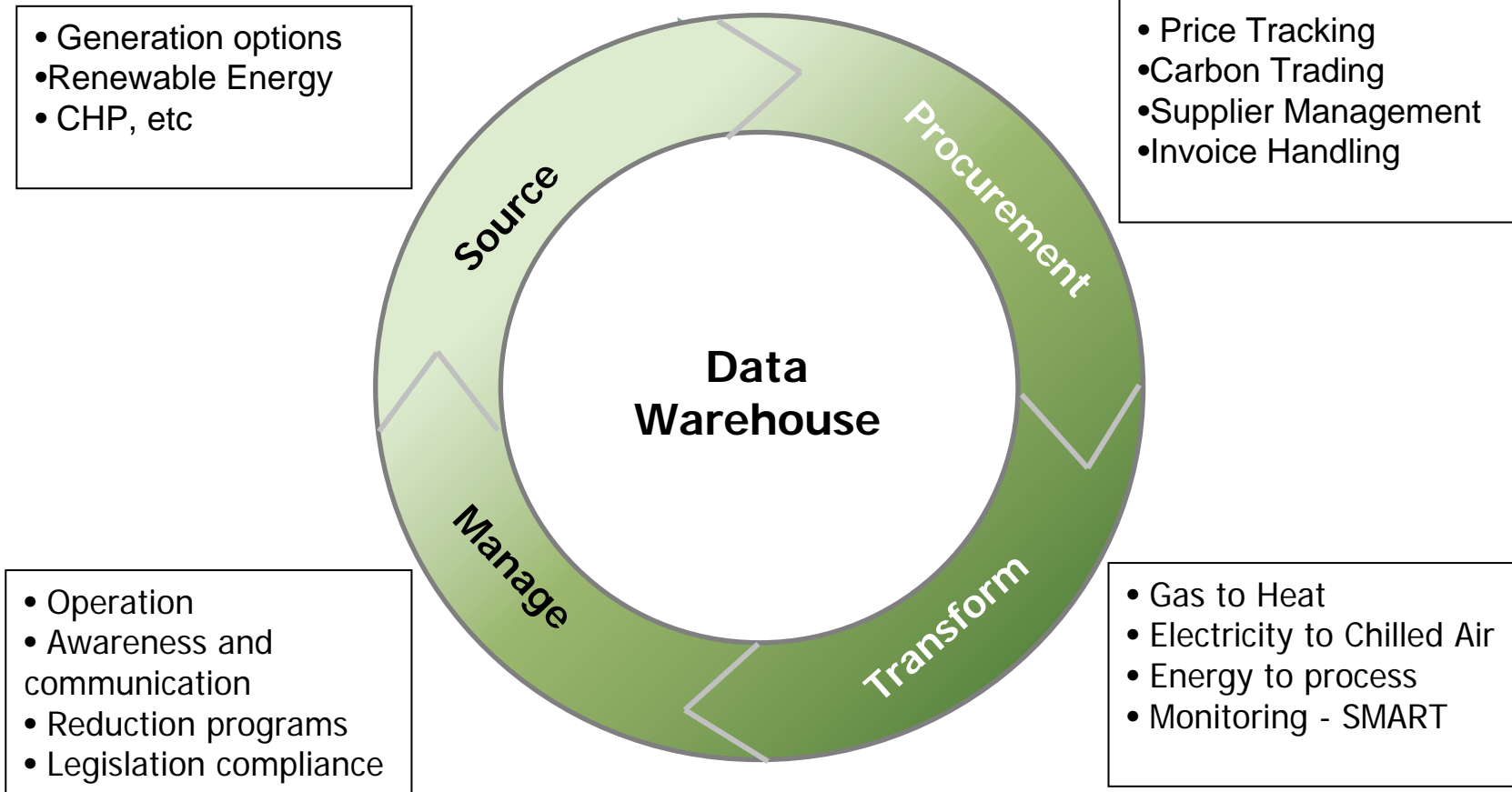
Example reduction target from Government Department



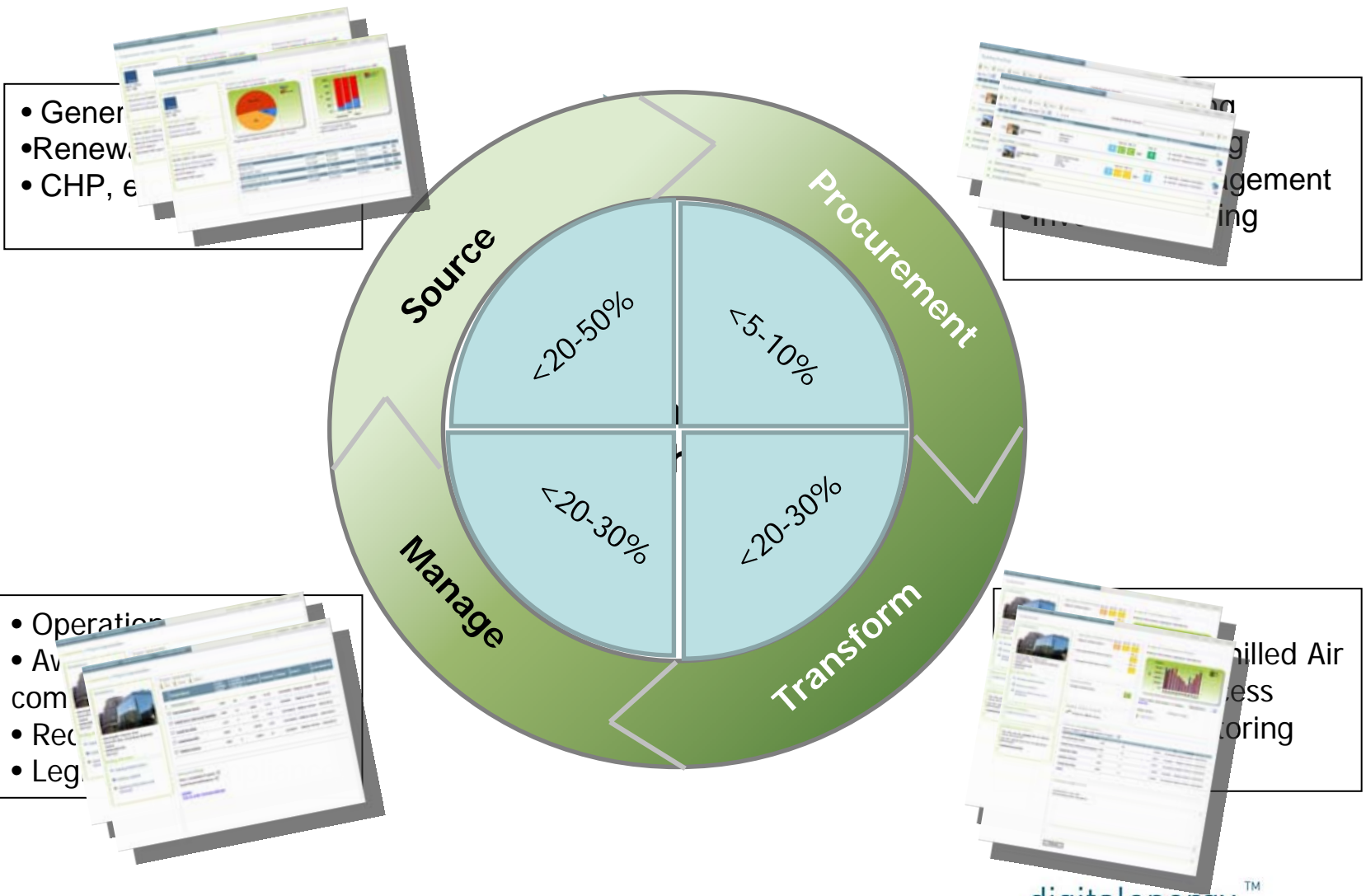
The carbon path to 2020 and the need to be **Compliant**

- Display and Operational Energy Certification
 - Expanded to wider scope of public sector
 - Best practice?
- Energy Performance Certificates
 - Emphasis on quality and awareness through display
 - Indication of what can be achieved at an asset level
- Carbon Reduction Commitment (CRC EES)
 - Need to report – count
 - Need to reduce – control
- Section 6 and Building Regulations Part L
 - Measures to count
 - Design to control
- Climate Change Act/s
 - Carbon Budgeting and Reporting
 - Other Certifications

The operational Energy Cycle – The Energy Value Chain



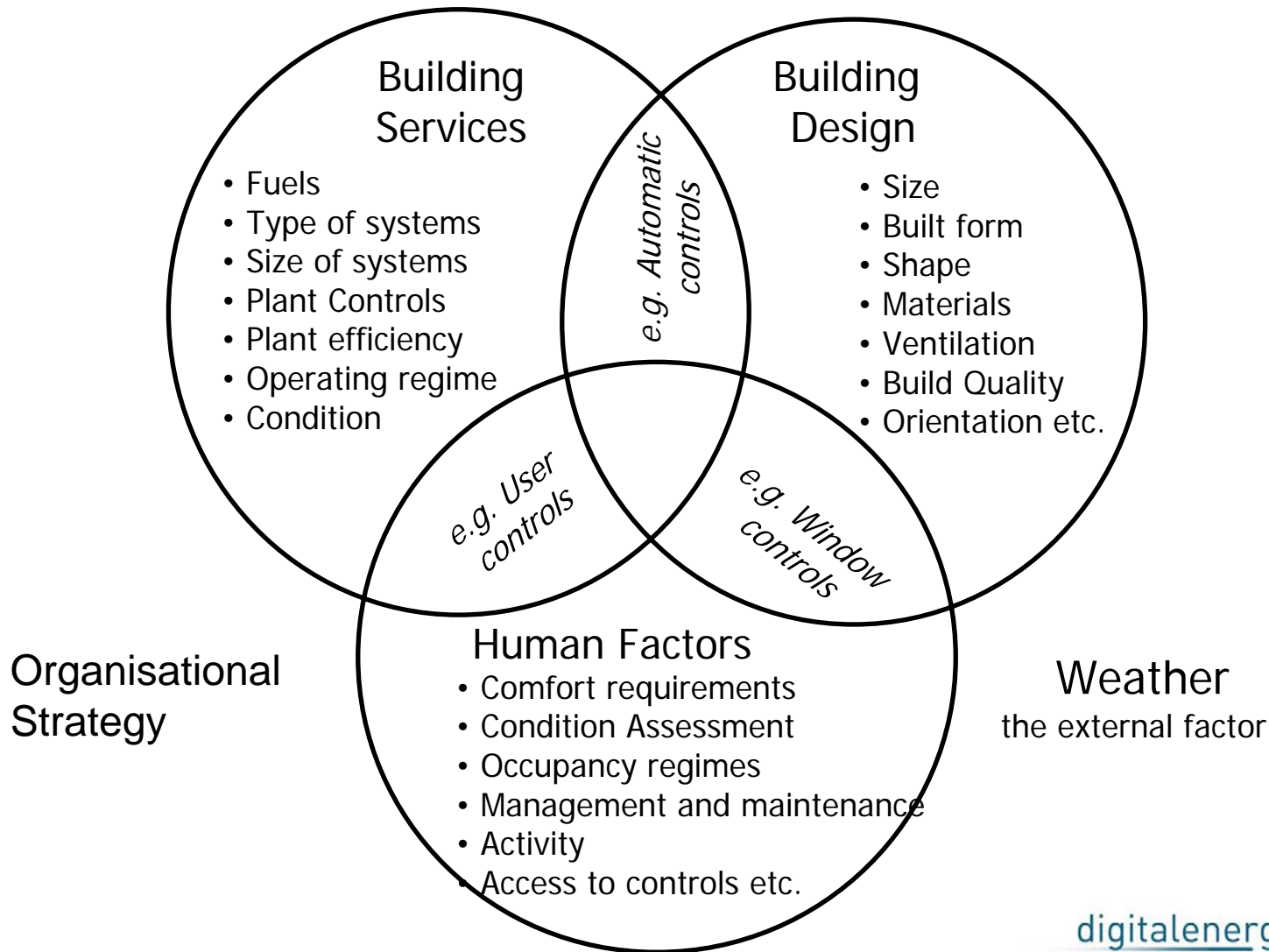
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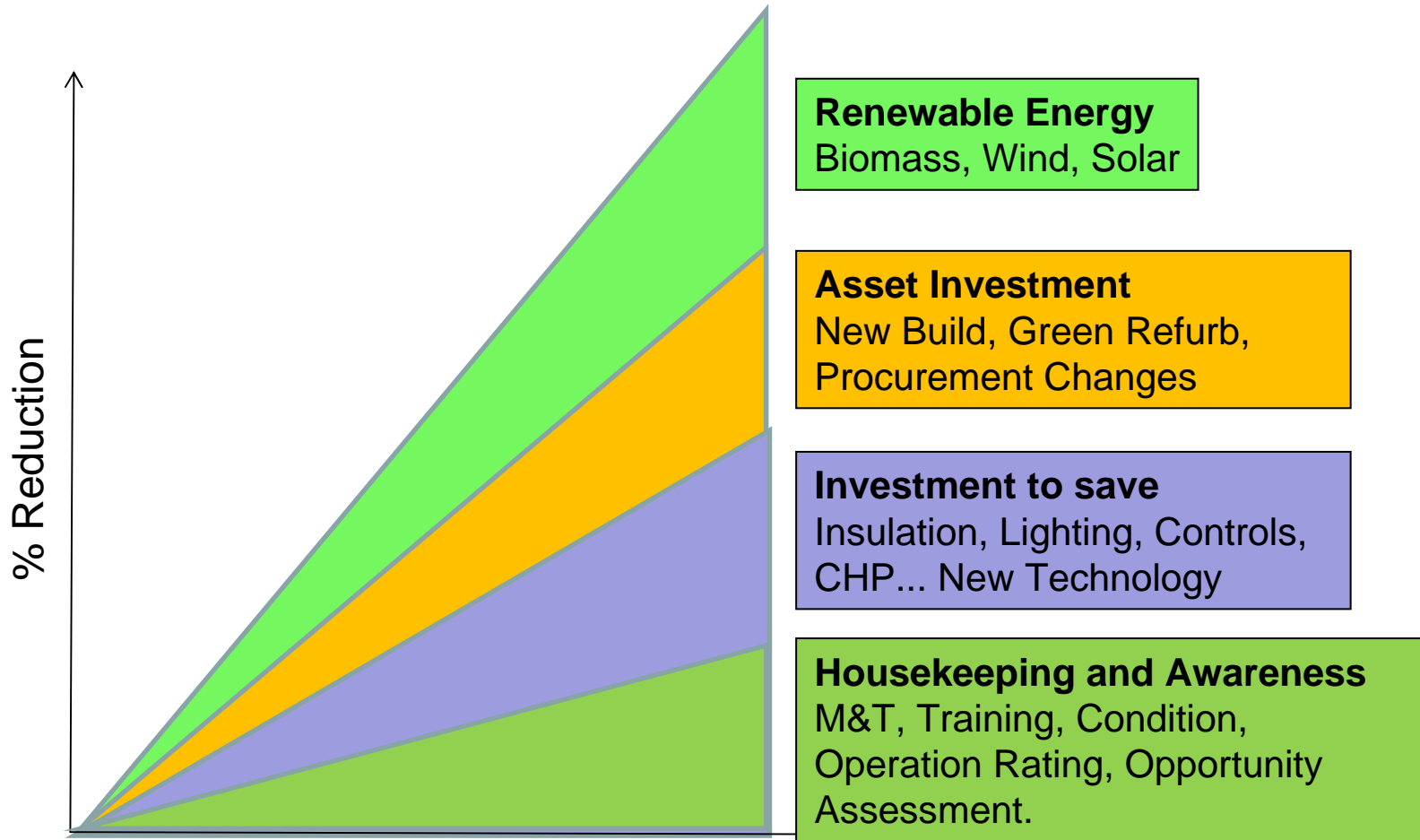
What affects Energy Performance and Reduces Carbon Emissions?



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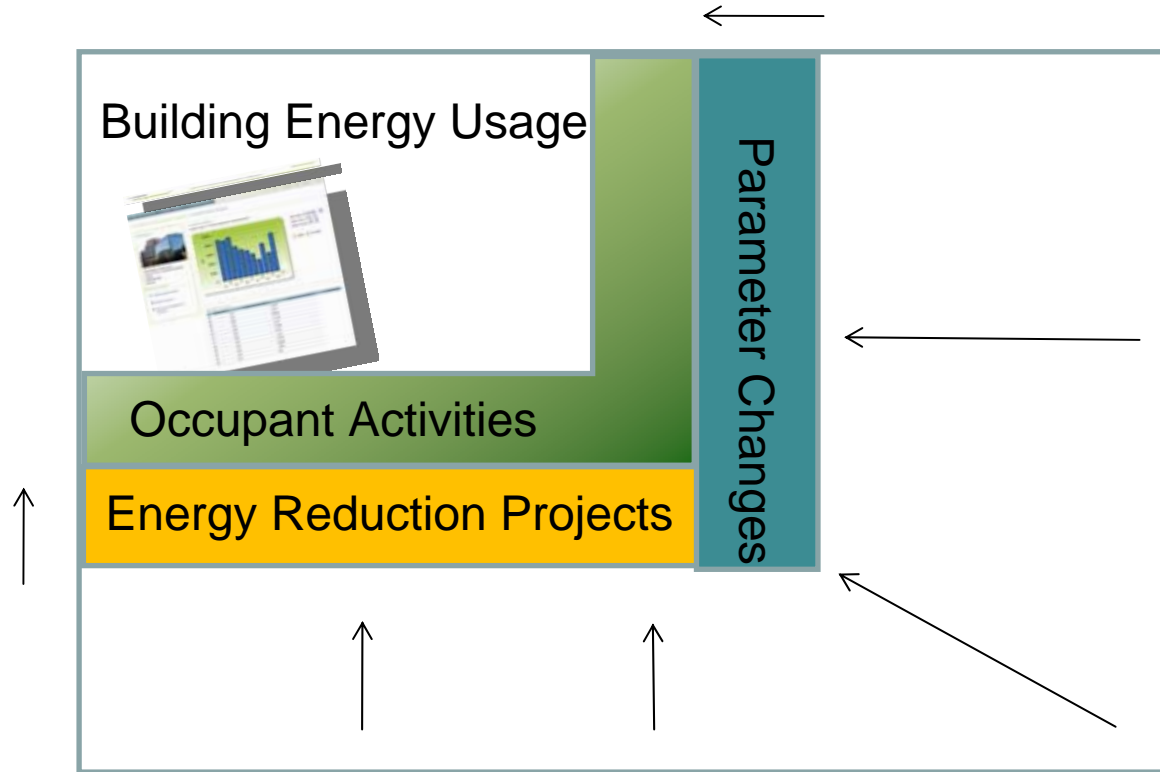


Where to target for reductions



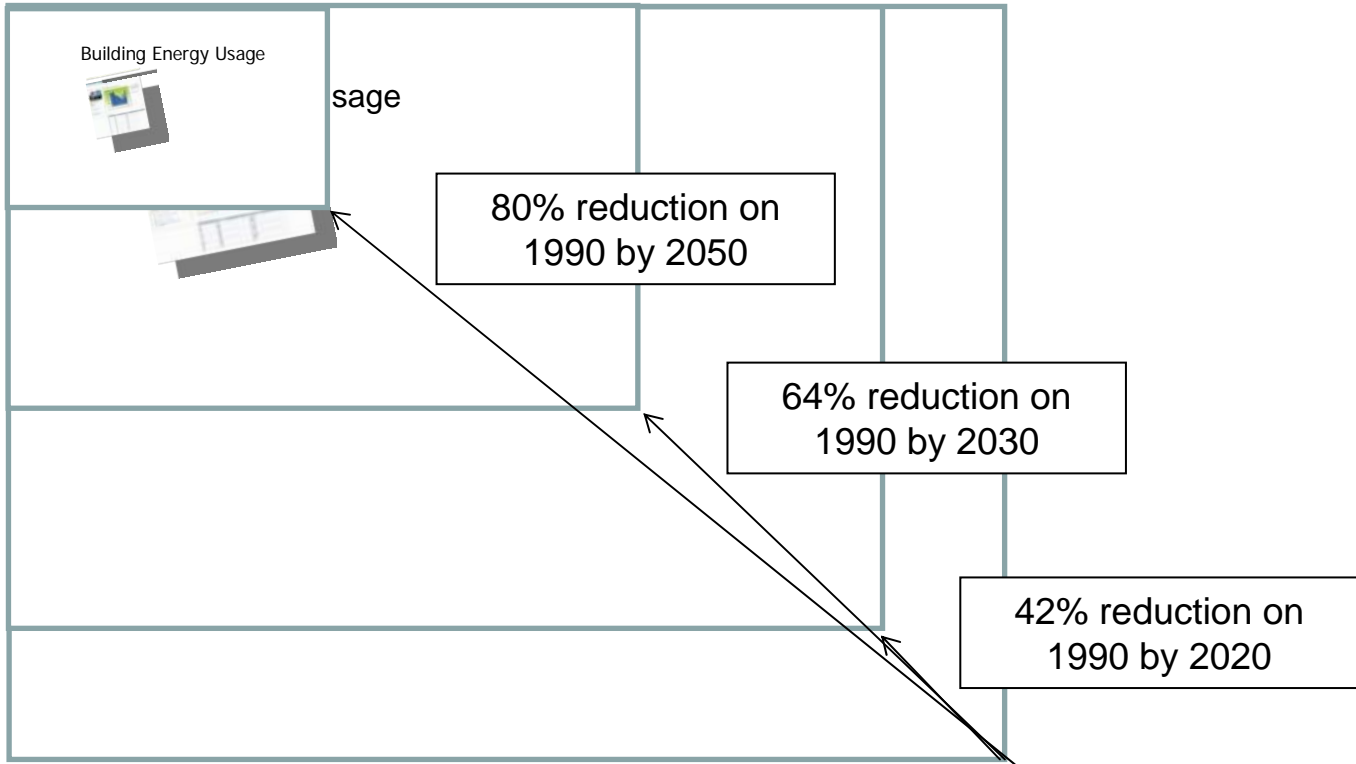
How to reduce your carbon footprint

How to get at the hard to reach savings?



Reaching a 42% reduction target by 2020.?

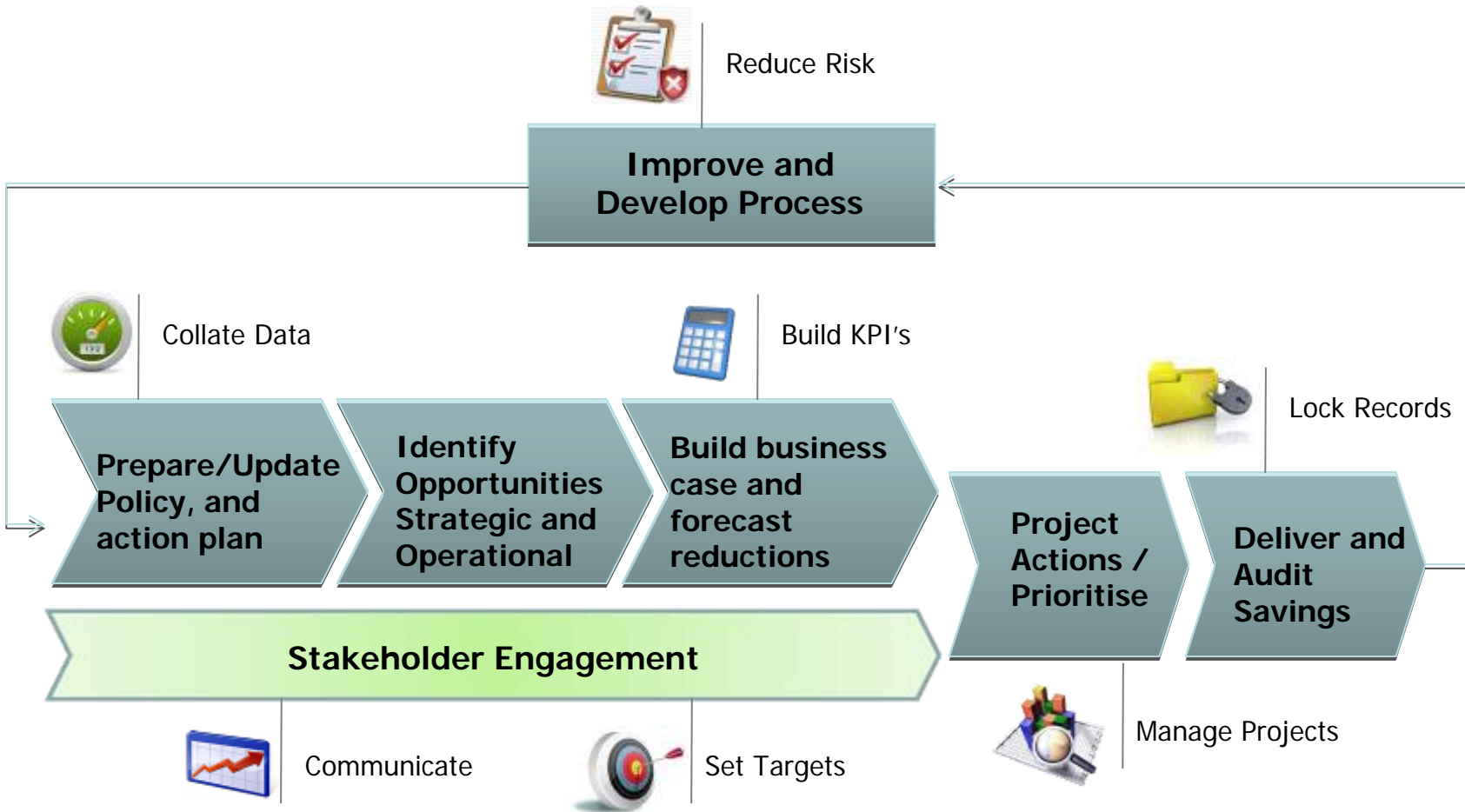
How to get at the hard to reach savings?



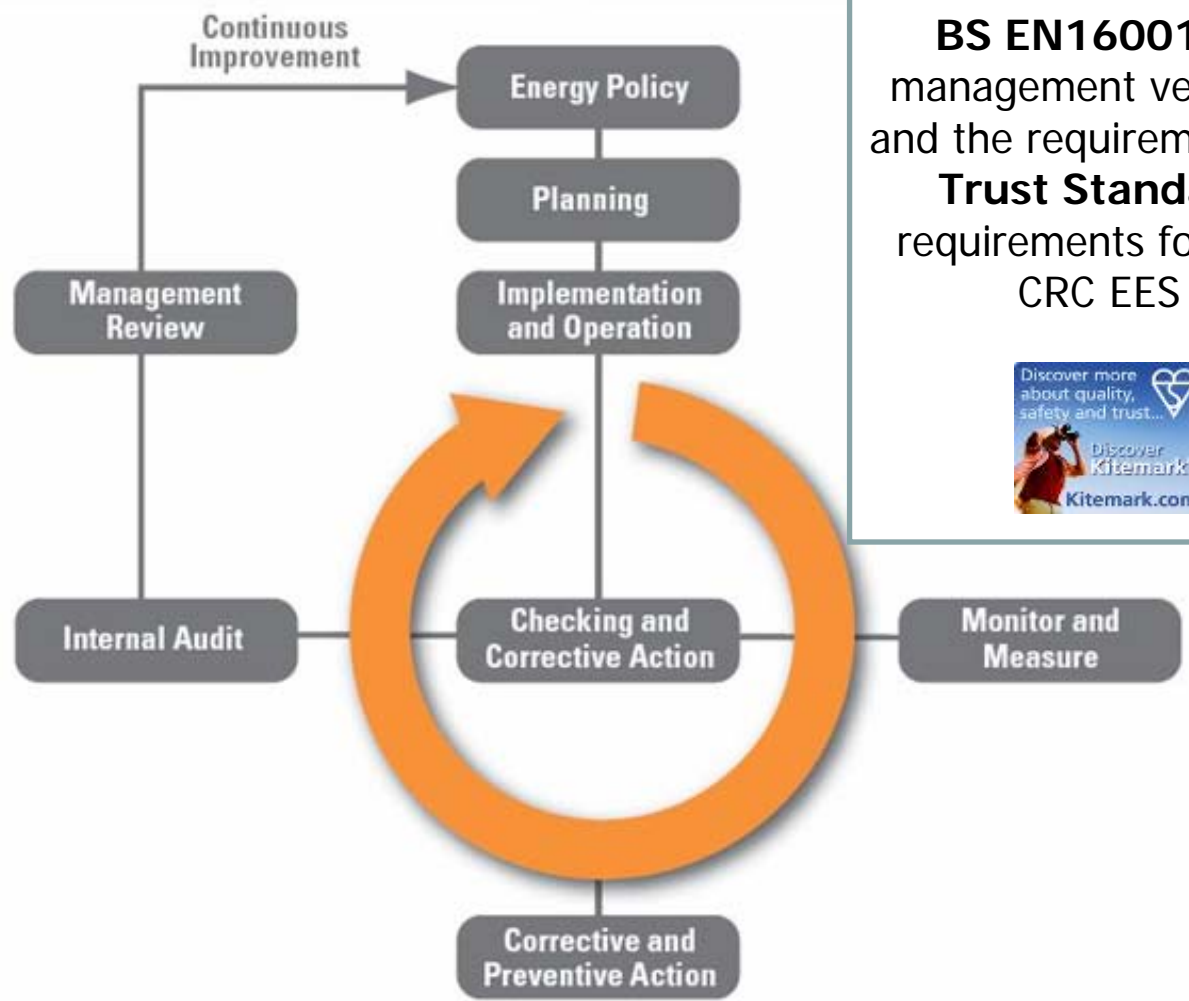
80% reduction in 25 years has been achieved in some areas!



Adopting a Continuous Improvement Process



Early Action Continual Improvement Standards



BS EN16001 and the energy management verification kite mark and the requirements of the **Carbon Trust Standard** have similar requirements for improvement for CRC EES Early Action

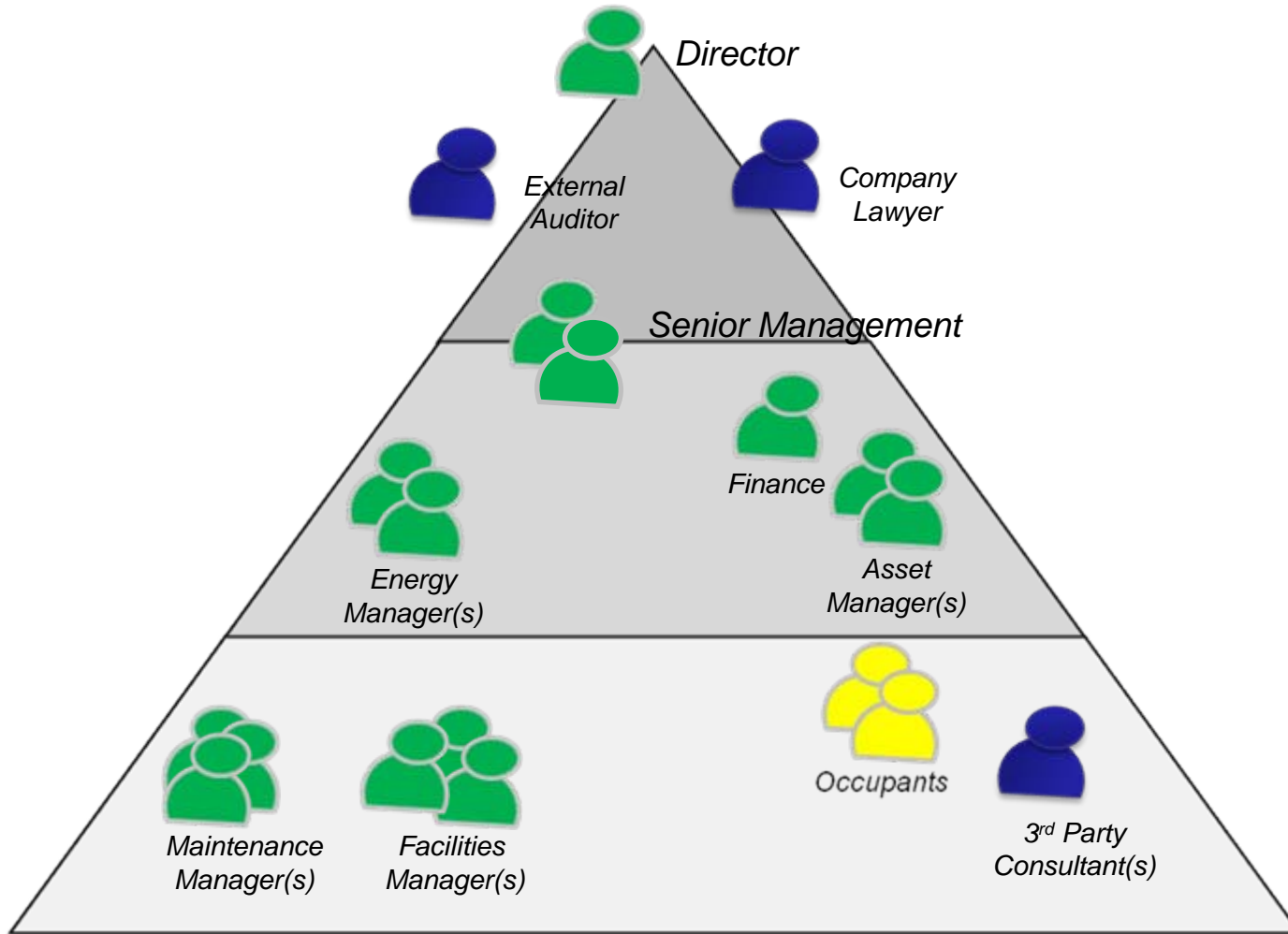


Reasons to adopt a standard

Without **measurement and verification** through a continual improvement process and quality information management, effective reporting and reductions are difficult to achieve.

Need	Reason
Carbon and Energy Reductions	Cost Savings, Increased profits Job Security
Mandatory Reporting	Carbon Reduction Commitment (CRCEES) EU ETS/ CCA
Energy Certification	EPBD: EPC/ DEC / AC
Internal Management	Training and Awareness Project Management Asset Management
Voluntary Disclosure	Corporate Social Responsibility (CSR) Voluntary Offsetting

Hierarchy of responsibility



Hierarchy

I need to know that our management team are doing their job well. Confidence in the reduction of risk and enhancing

My job is to ensure that organisations accounts, records and evidence packs are above board. Are you ready for me?

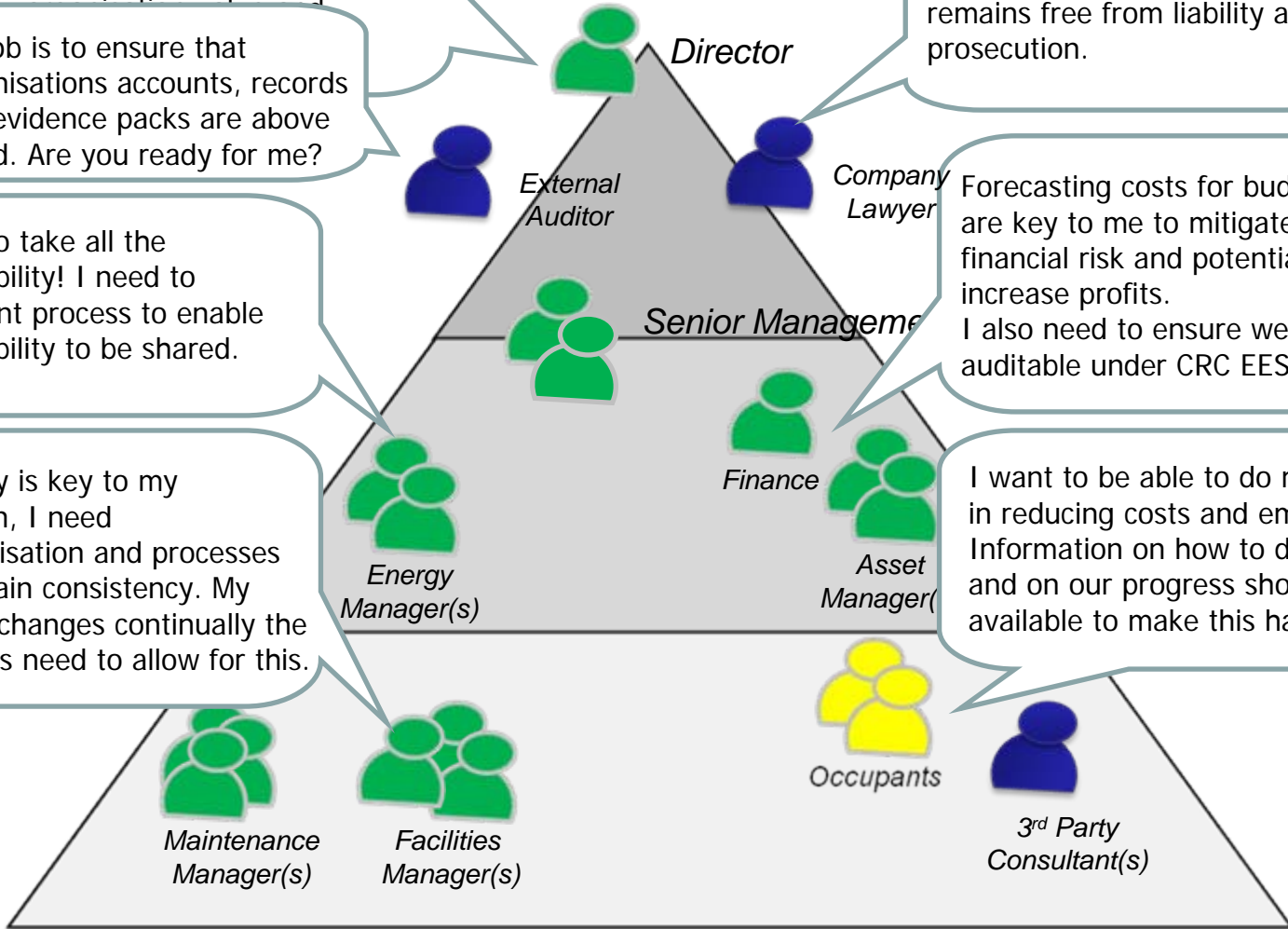
I seem to take all the responsibility! I need to implement process to enable responsibility to be shared.

Efficiency is key to my operation, I need standardisation and processes to maintain consistency. My building changes continually the processes need to allow for this.

I need to ensure my client remains free from liability and prosecution.

Forecasting costs for budgets are key to me to mitigate any financial risk and potentially increase profits. I also need to ensure we are auditable under CRC EES.

I want to be able to do my part in reducing costs and emissions. Information on how to do this and on our progress should be available to make this happen.

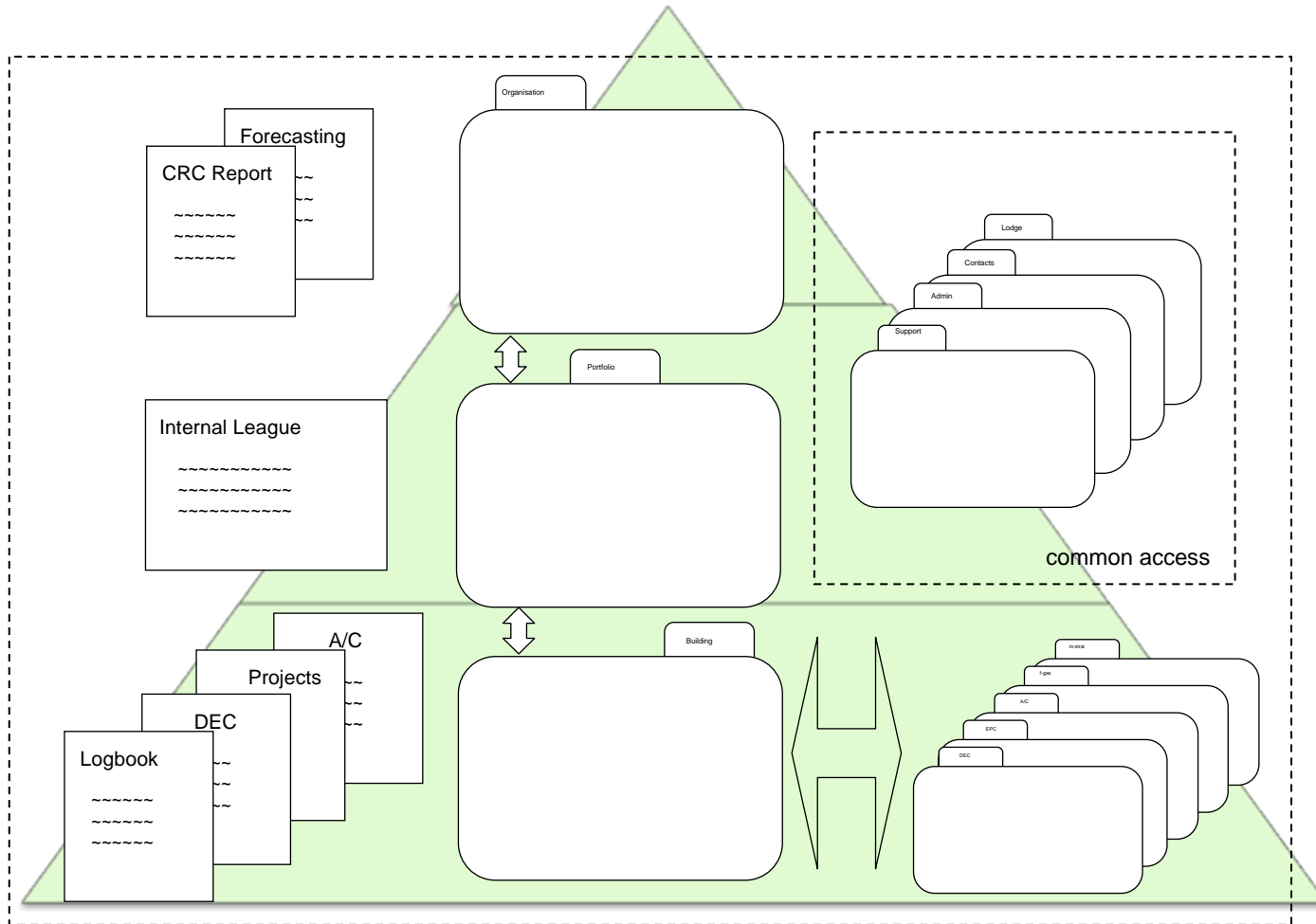


Responsibility under the Carbon Reduction Commitment

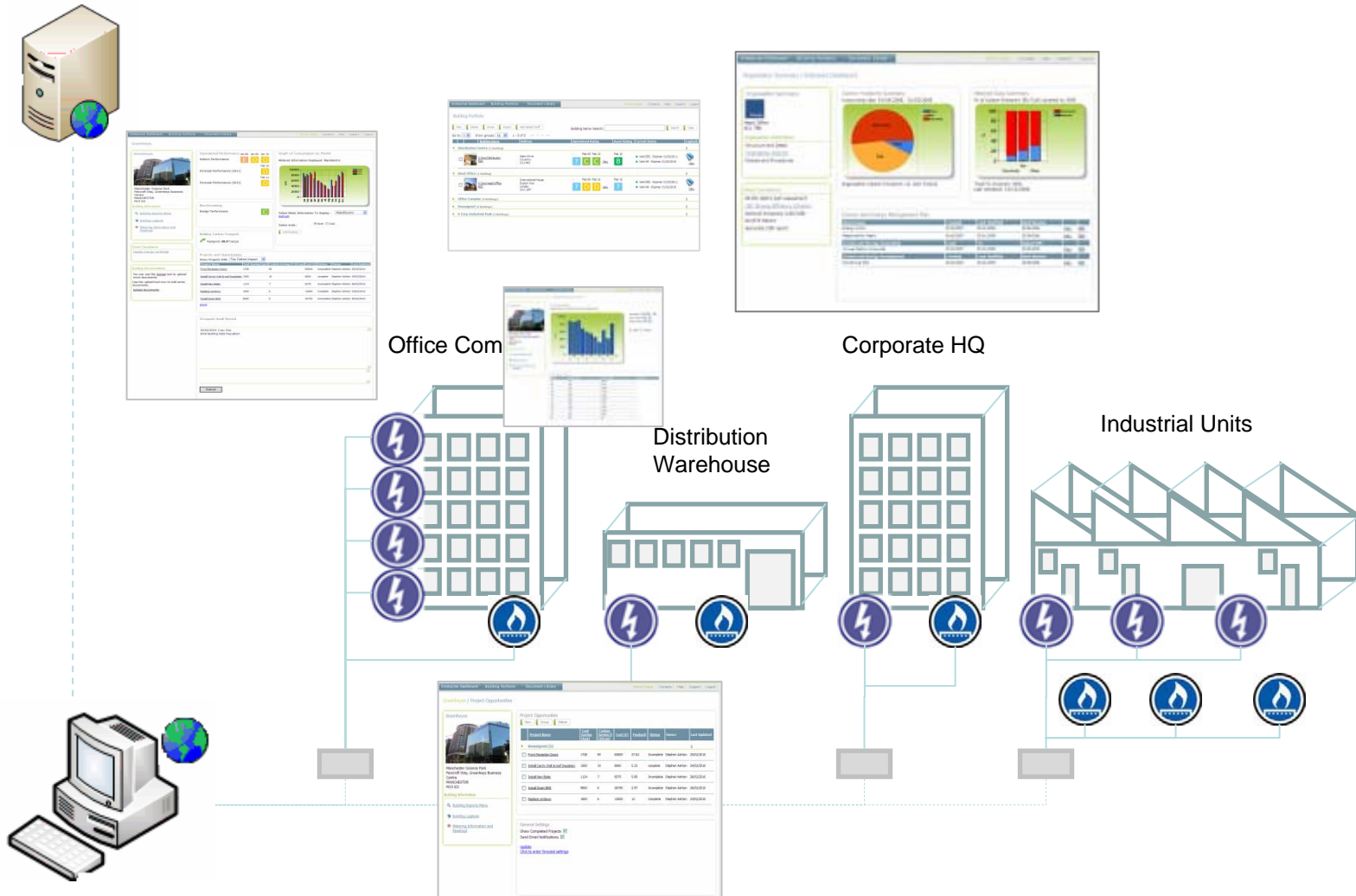
“an **associated person** must provide the **responsible person** with all such assistance, including the provision of information or records, as is necessary to enable the responsible person to identify fully, and discharge, the requirement imposed on the combined participants”

OBJECTIVE : CLEAR RESPONSIBILITIES

Matching responsibility with and produce an audit trail



Implementing an Energy Management System (EMS)



Implementing EMS across an organisation

Building up the Evidence Pack for CRC EES

For an **CRCEES** participant having all information in one place ensures that compliance is easily met.

Preparation and collation of evidence pack

Clear responsible parties

Footprint and annual report history

Internal auditor sign off

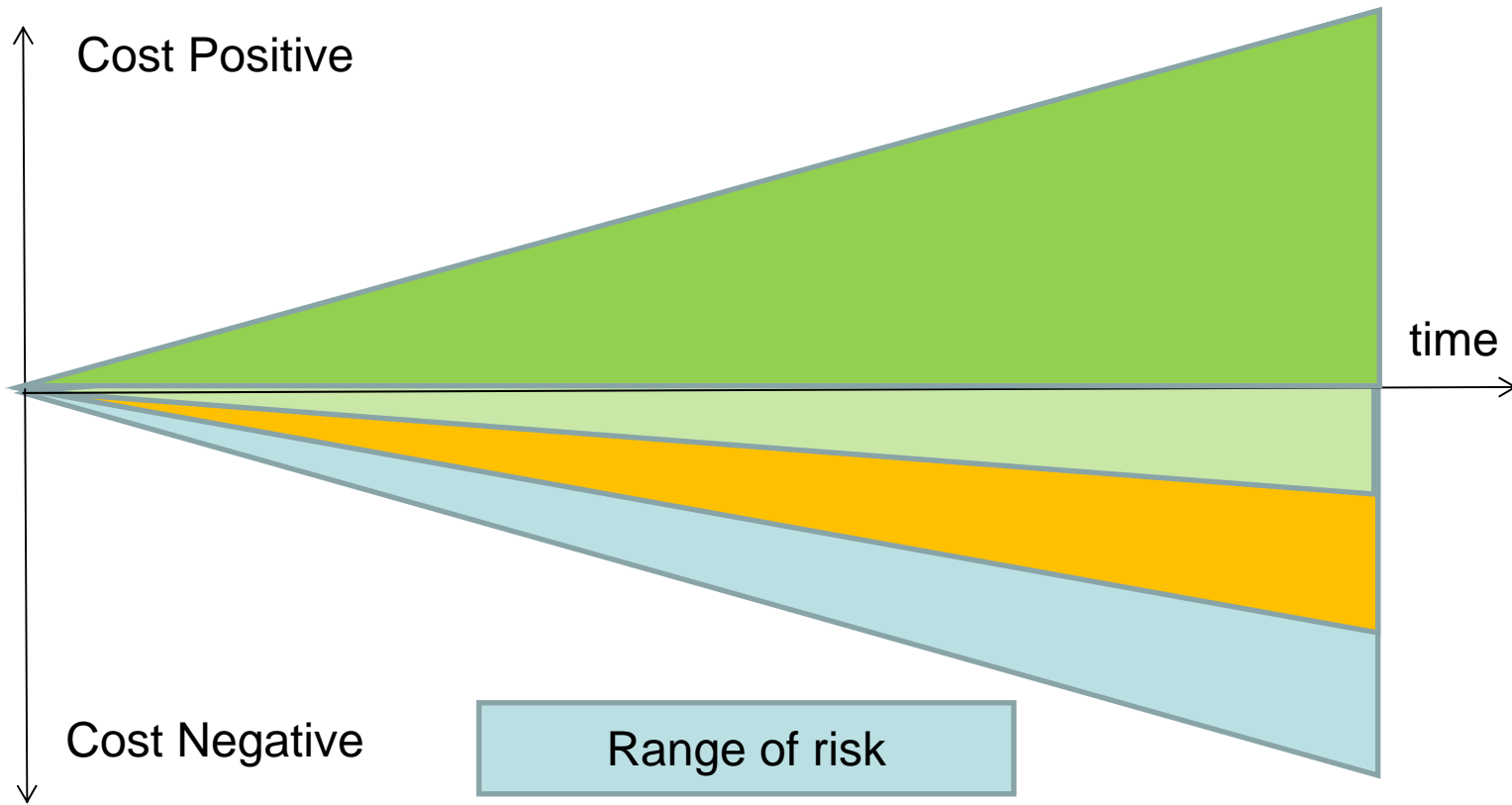
1 Summary section showing Organisation Part: Parent, Current Accounting Year: 01/04/2009-31/03/2010, and contact details for Director Responsibility, Primary Contact, Secondary Contact, and Account Representatives.

2 Reporting History table showing Footprint Reports and Annual Reports with columns for From, To, Total Footprint (tCO2e), Change (%), and Status.

3 CRC (Energy Efficiency Scheme) Reporting table showing completion status for Organisation Structure, Data Records, Space E-mis, Early Action Items, Growth Metrics, and Exemptions and Credits.

4 Evidence Pack | Director Sign Off section with a sign-off button and a text area for the director's certification.

Risk Management



Cost Positive

time

Cost Negative

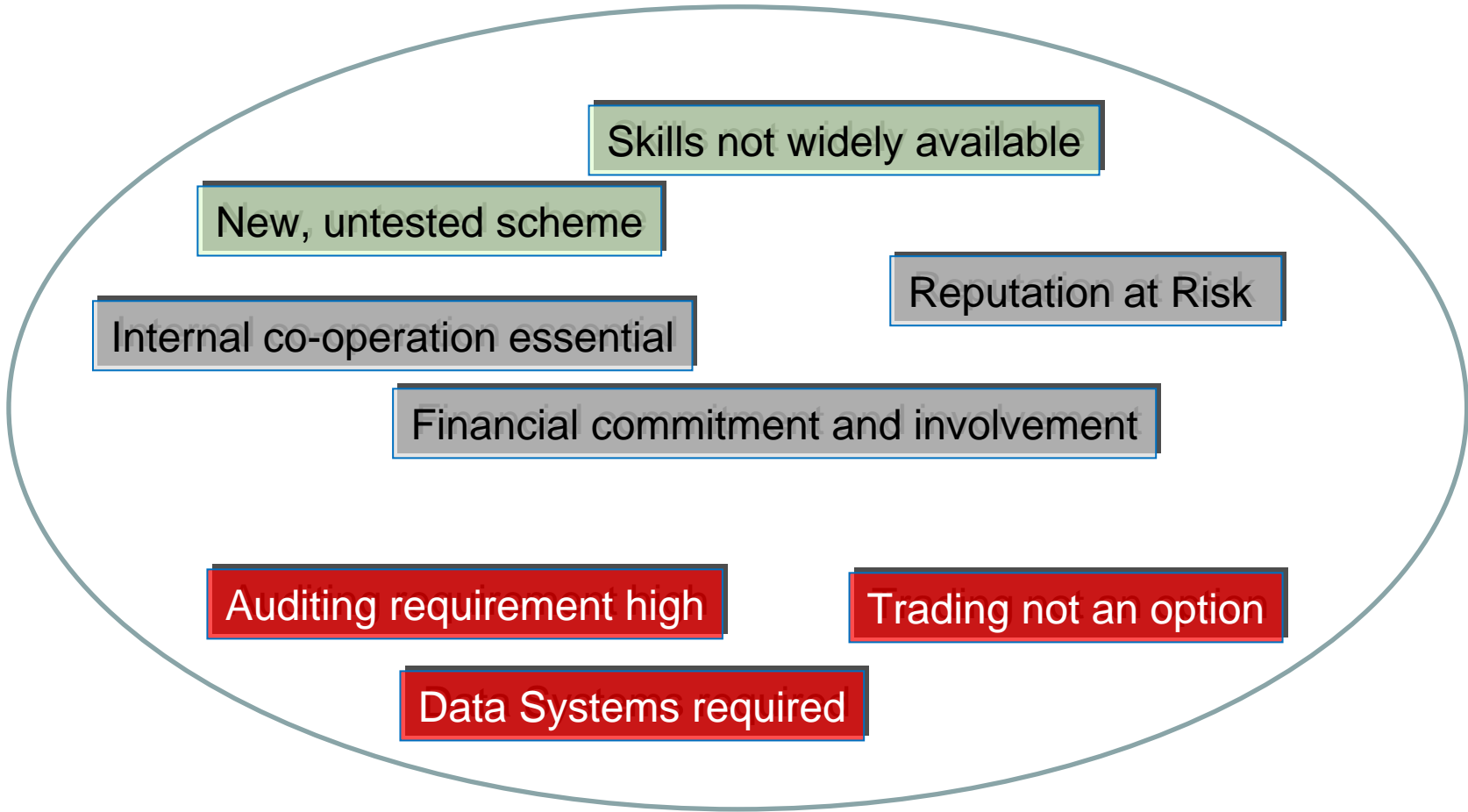
Range of risk

Reasonable risk range

Reduced risk

No risk only opportunity

Why is CRC EES such a risk?



Count or Control – Some Closing Thoughts

- Its not only CRC participants that need to be taking action
- Critical Success Factors *Include*
 - Procedures and Standardisation
 - Data and Information Management
 - Openness – in communication and systems
 - Clear and shared responsibilities

Counting needed to facilitate **control**, which is essential for continual improvement.



Thank you for listening

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