



ESTA Spring Series 2010 | 2020 Vision

Is it time to stop counting carbon and time for controlling

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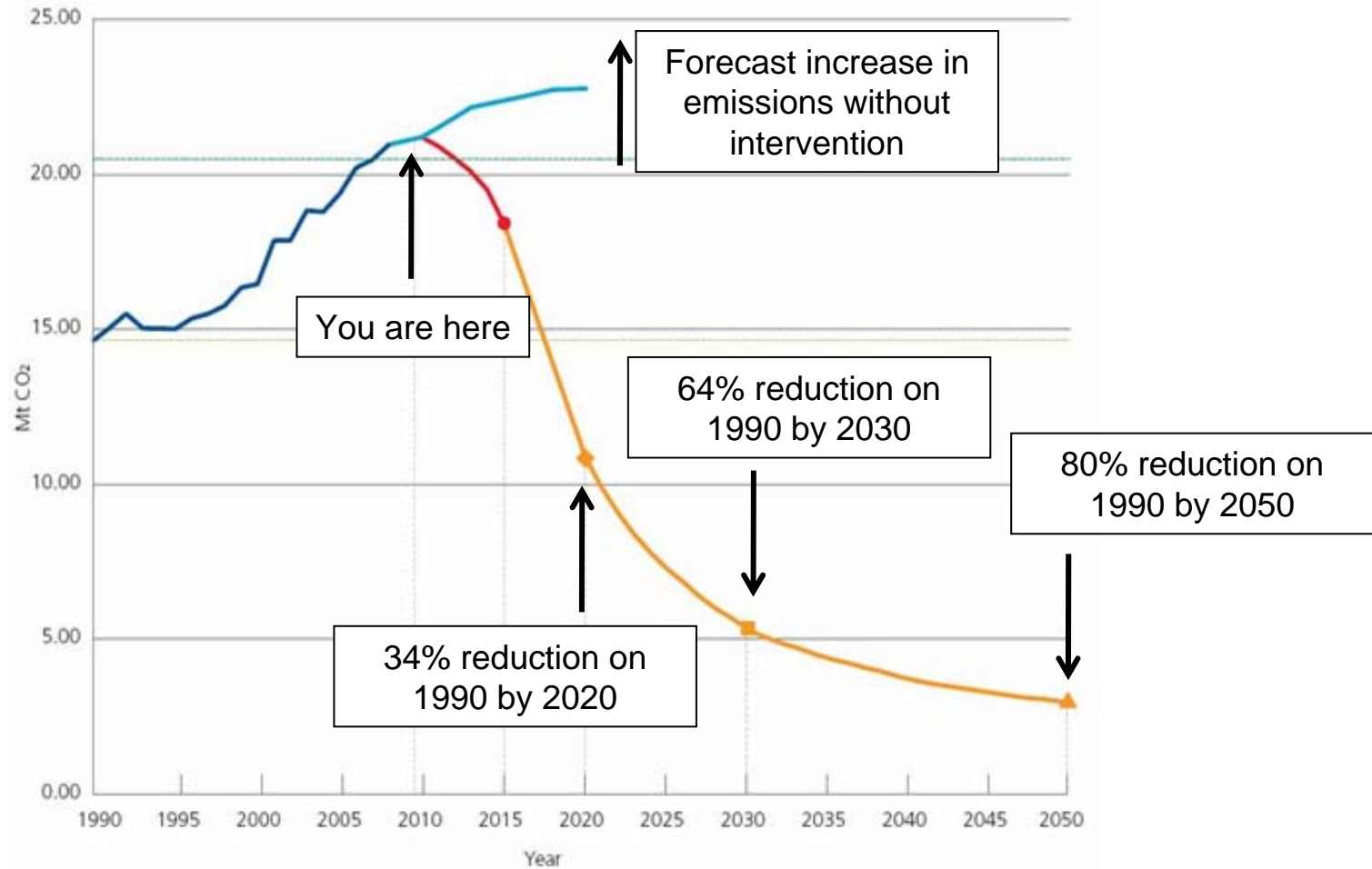
Managing Director | i-prophets energy services



Why are we talking about Counting or Controlling Carbon?



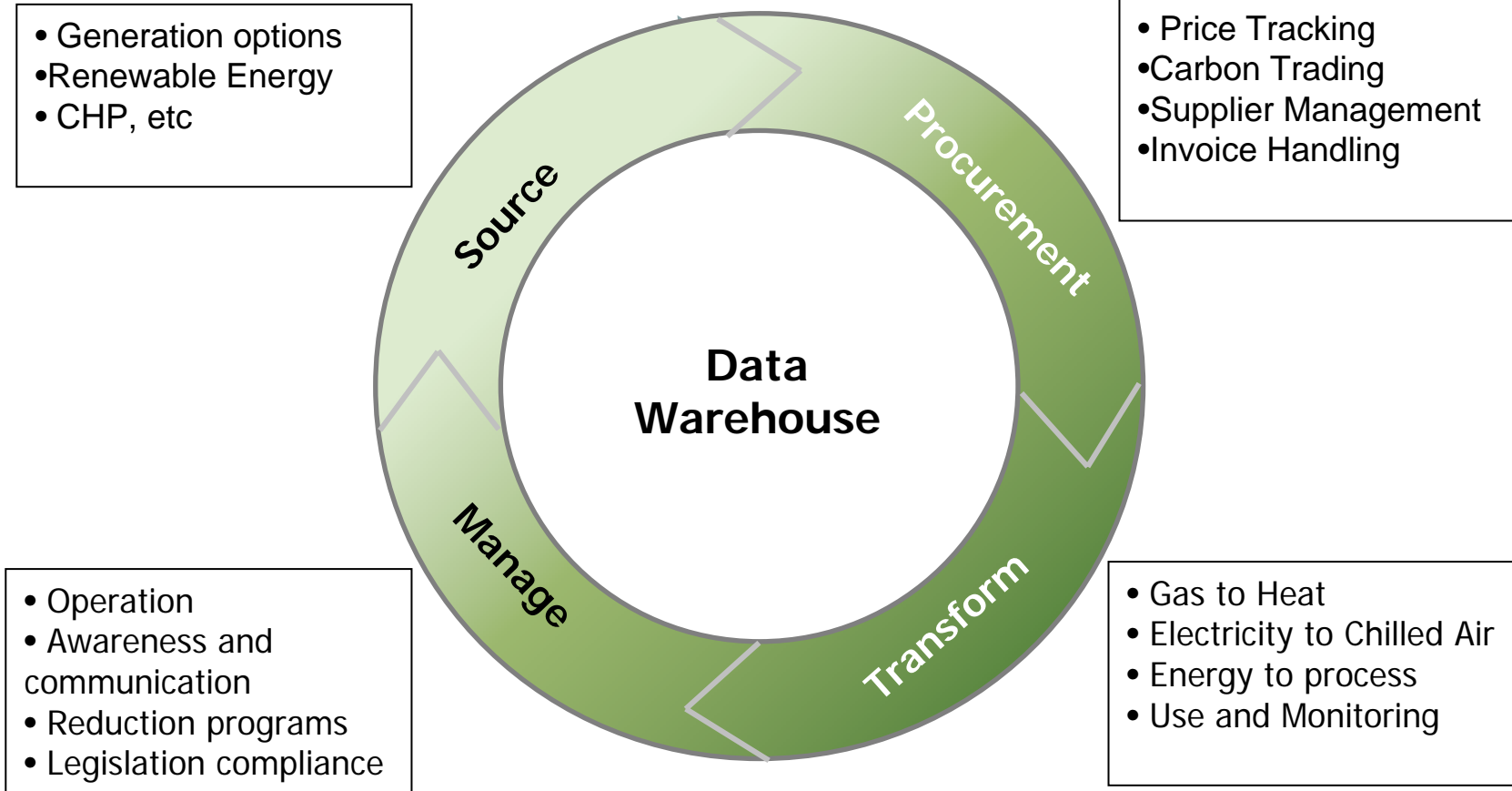
Example reduction target from Government Department



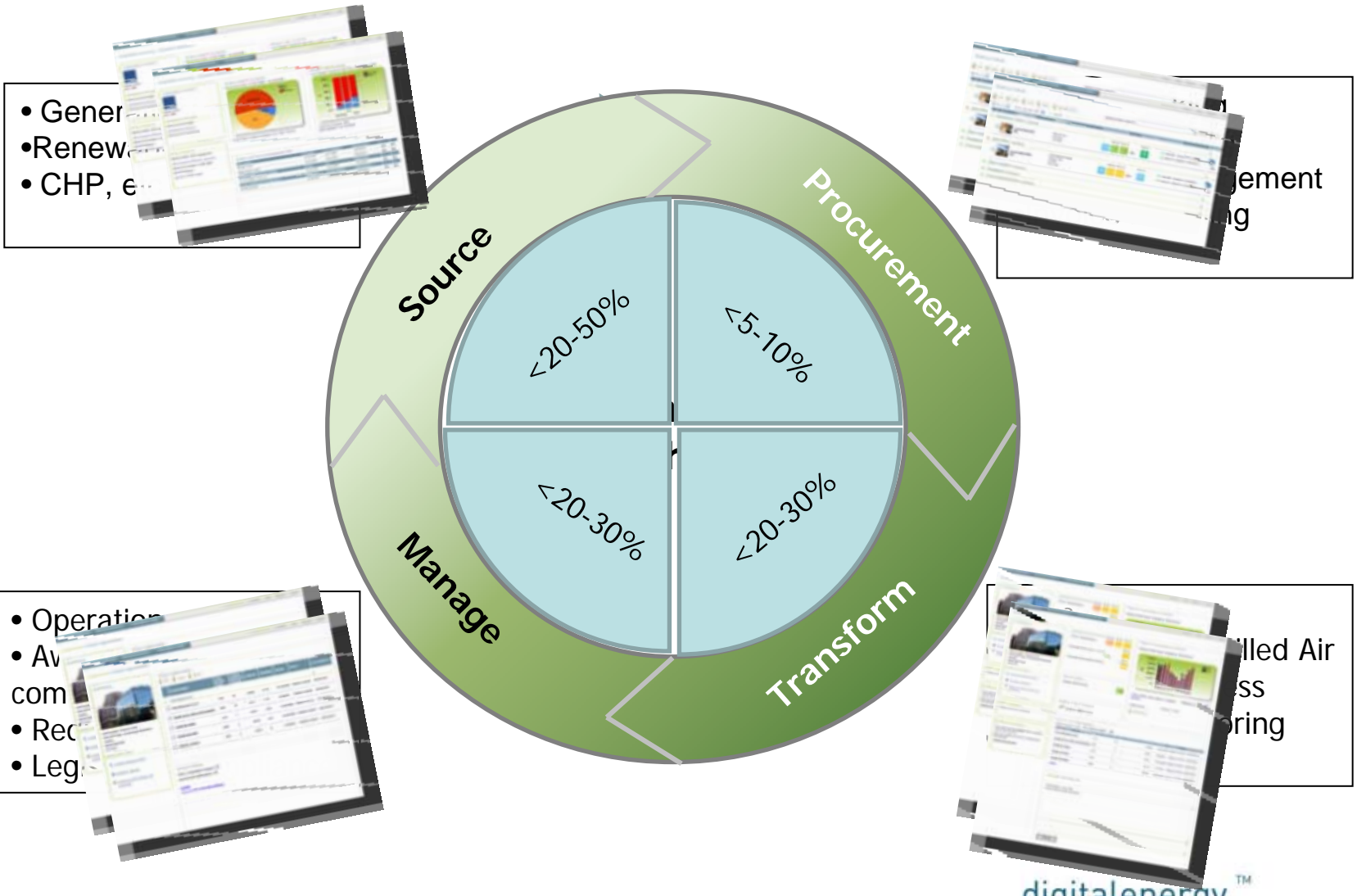
The carbon path to 2020 (A Recap)

- Display Energy Certification
 - Expanded to wider scope of public sector
 - Best practice?
- Energy Performance Certificates
 - Emphasis on quality 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
- Building Regulations Part L
 - Measures to count
 - Design to control

The operational Energy Cycle – The Energy Value Chain



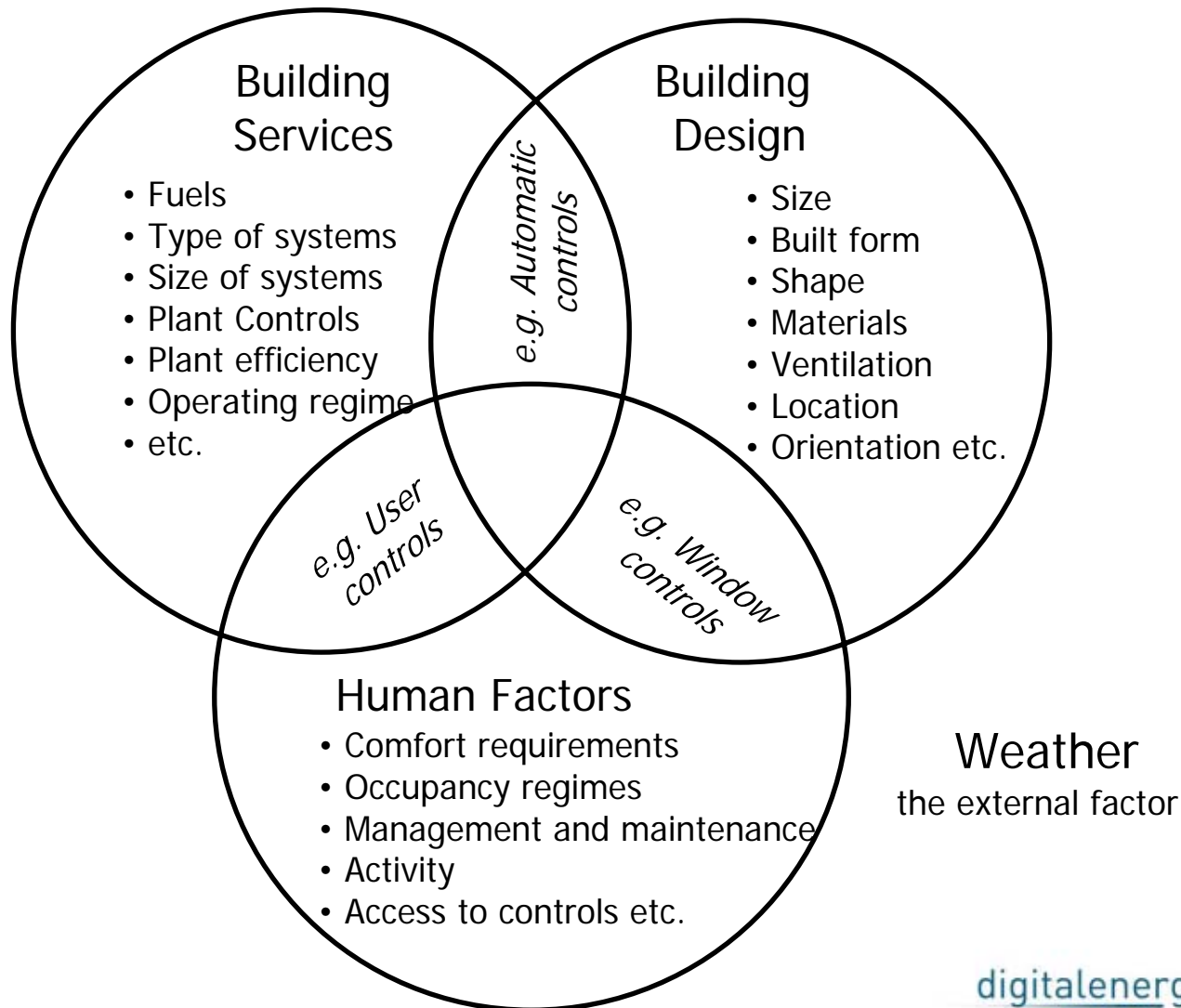
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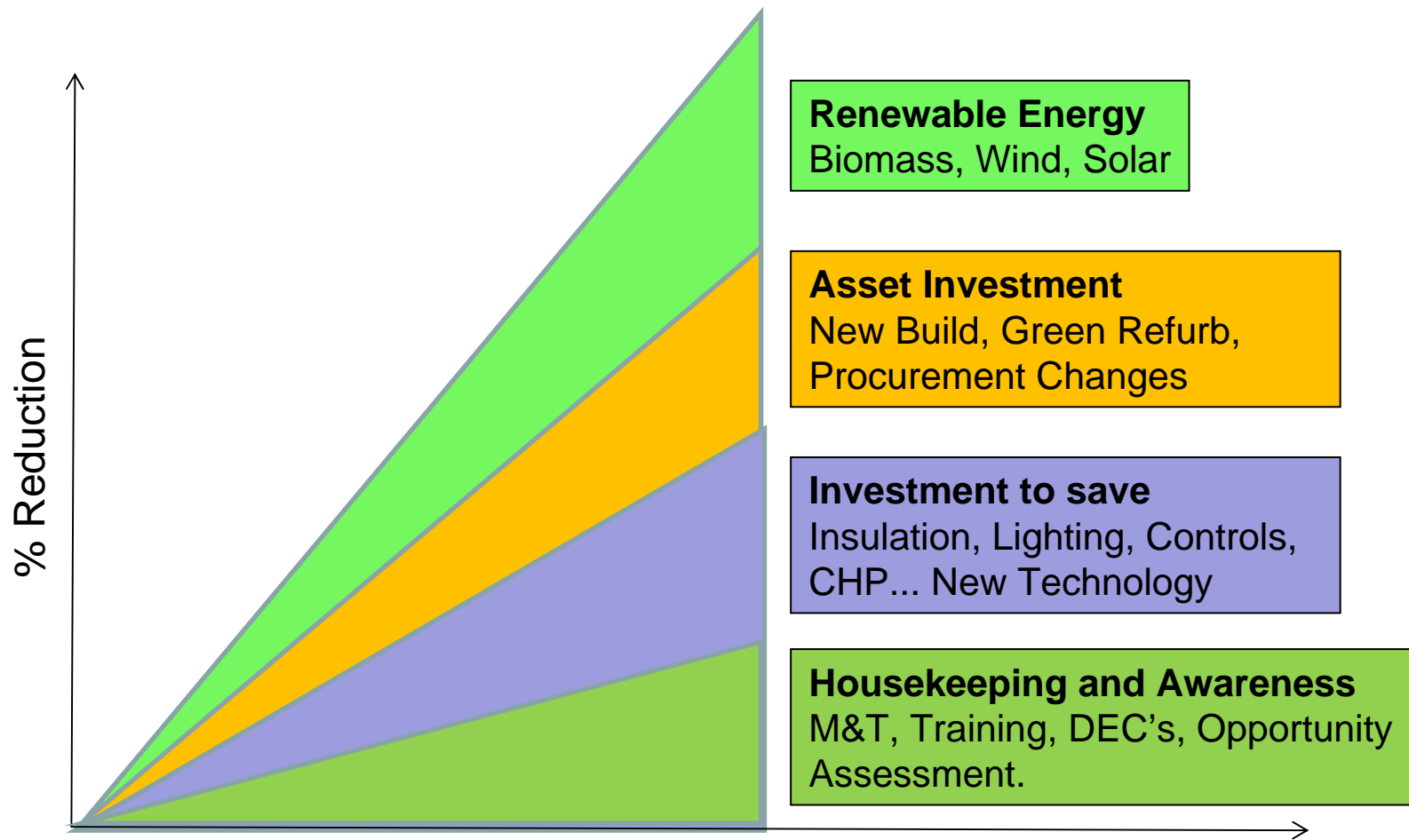
What affects Energy Performance and Reduces Carbon Emissions?



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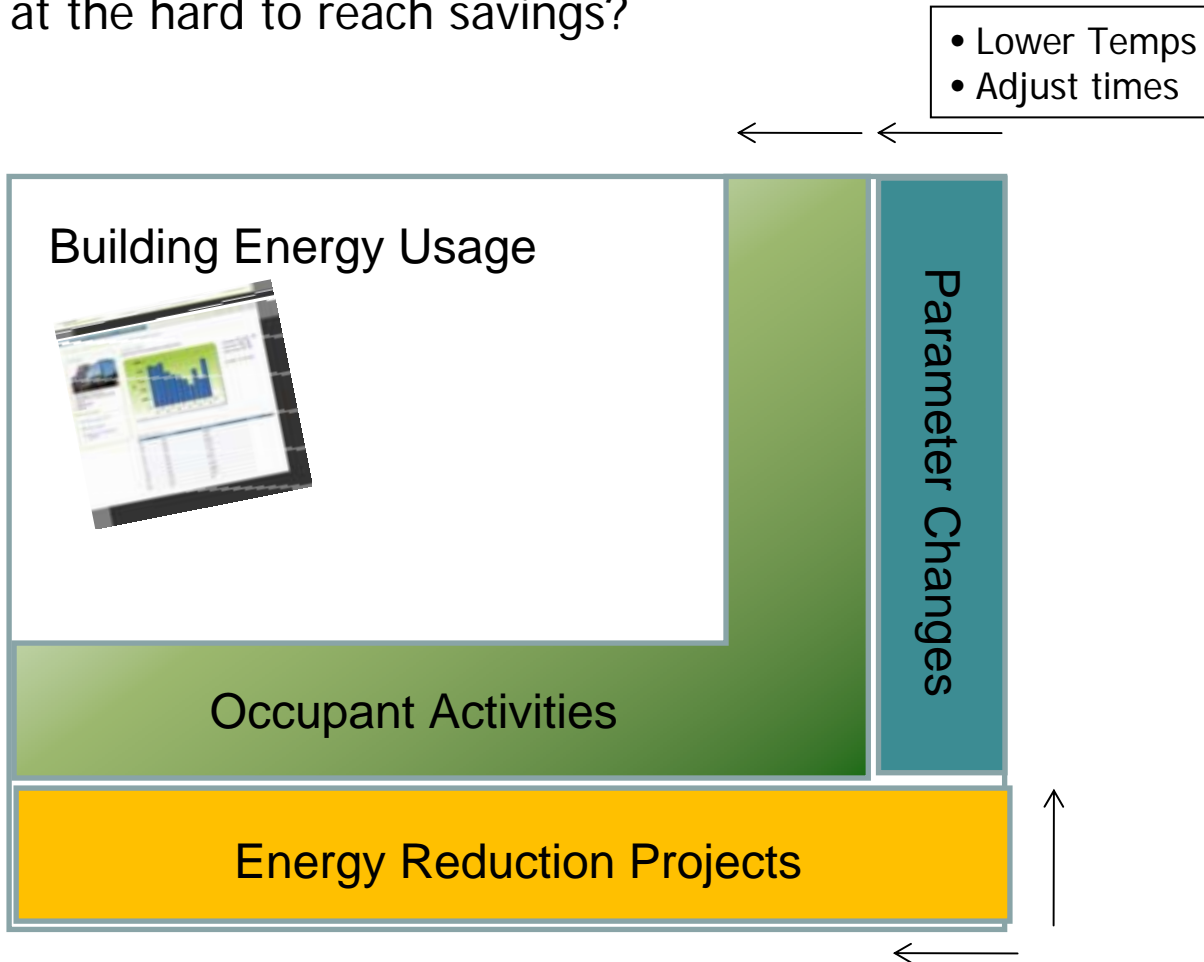


Where to target for reductions



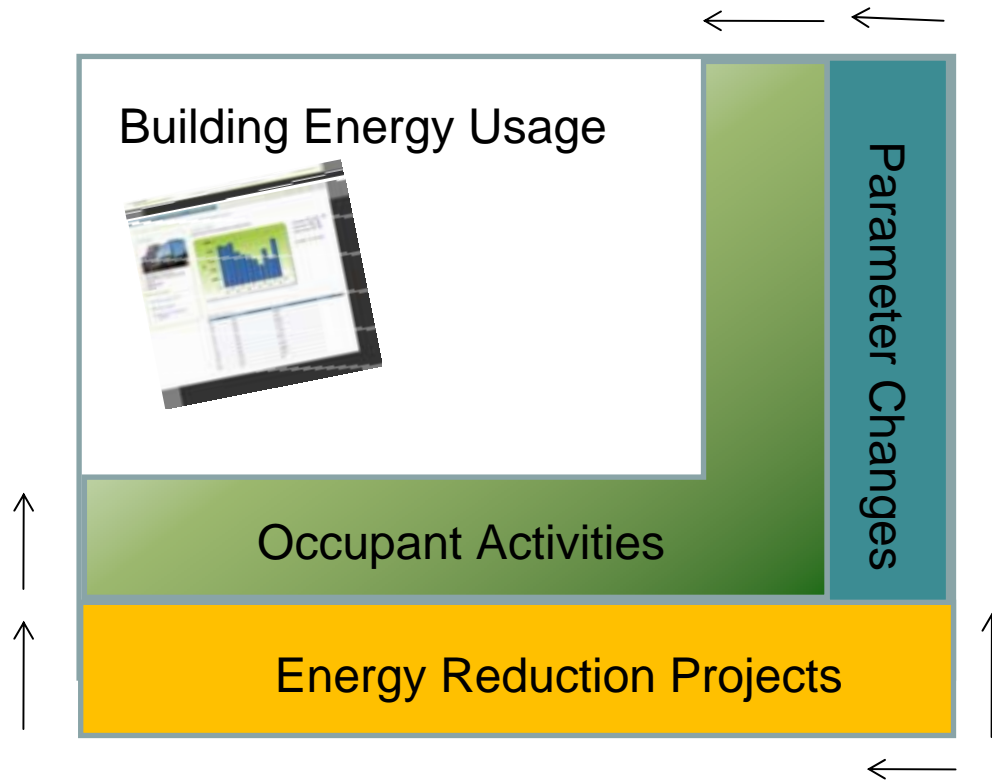
How to reduce your carbon footprint

How to get at the hard to reach savings?



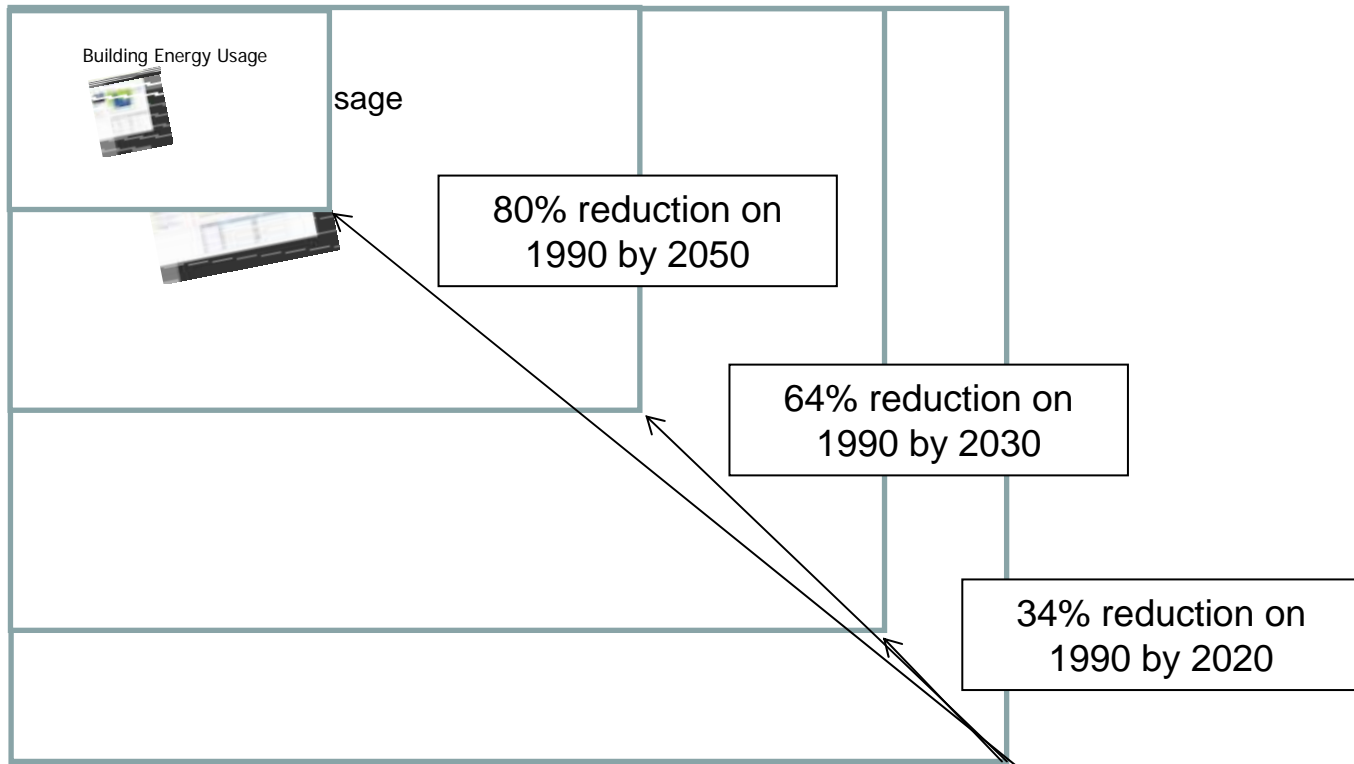
Getting to the root of the savings

How to get at the hard to reach savings?



Reaching a 34% reduction by 2020.?

How to get at the hard to reach savings?

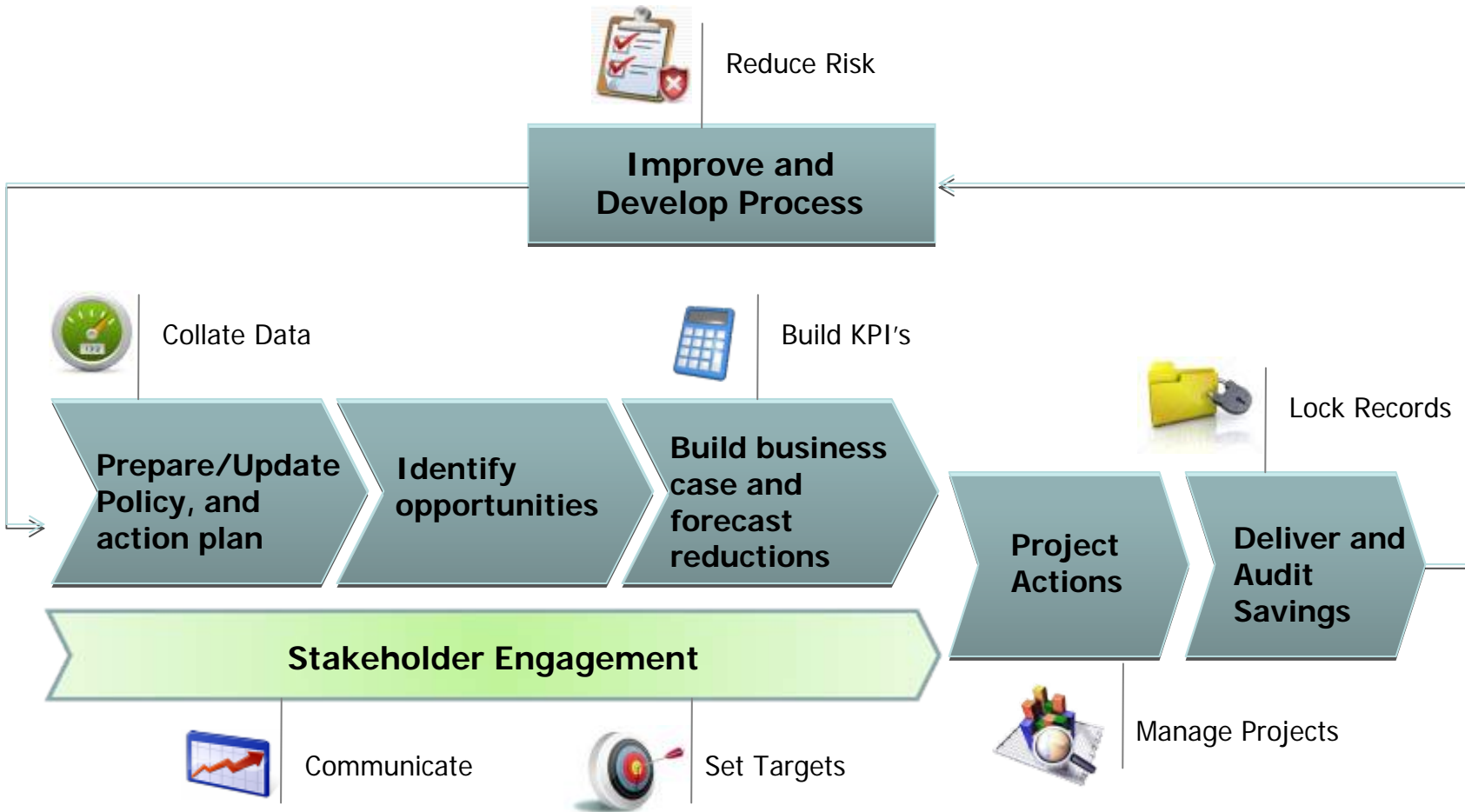


The magnitude of reduction required

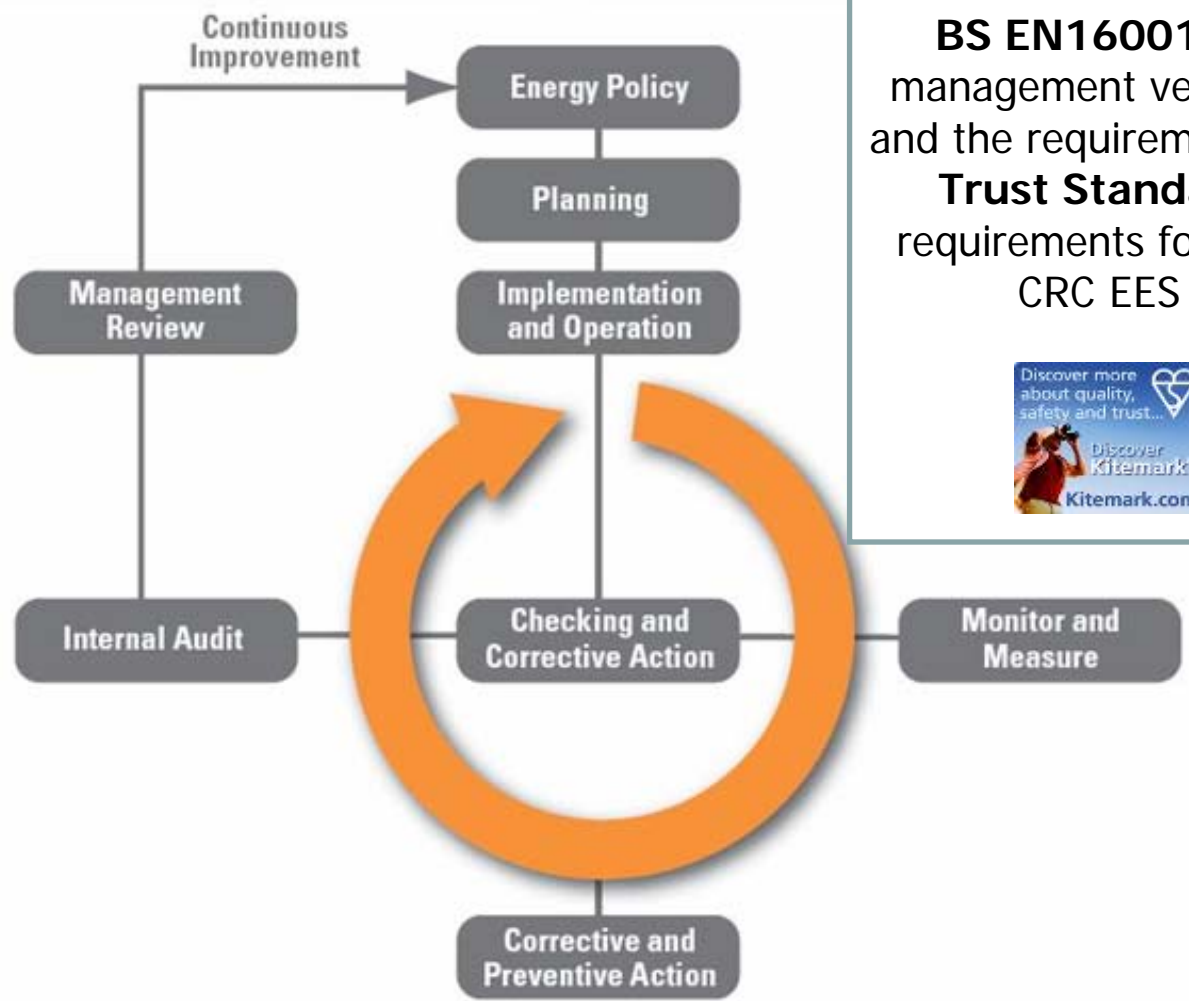
80% reduction in 25 years is possible in some areas!



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

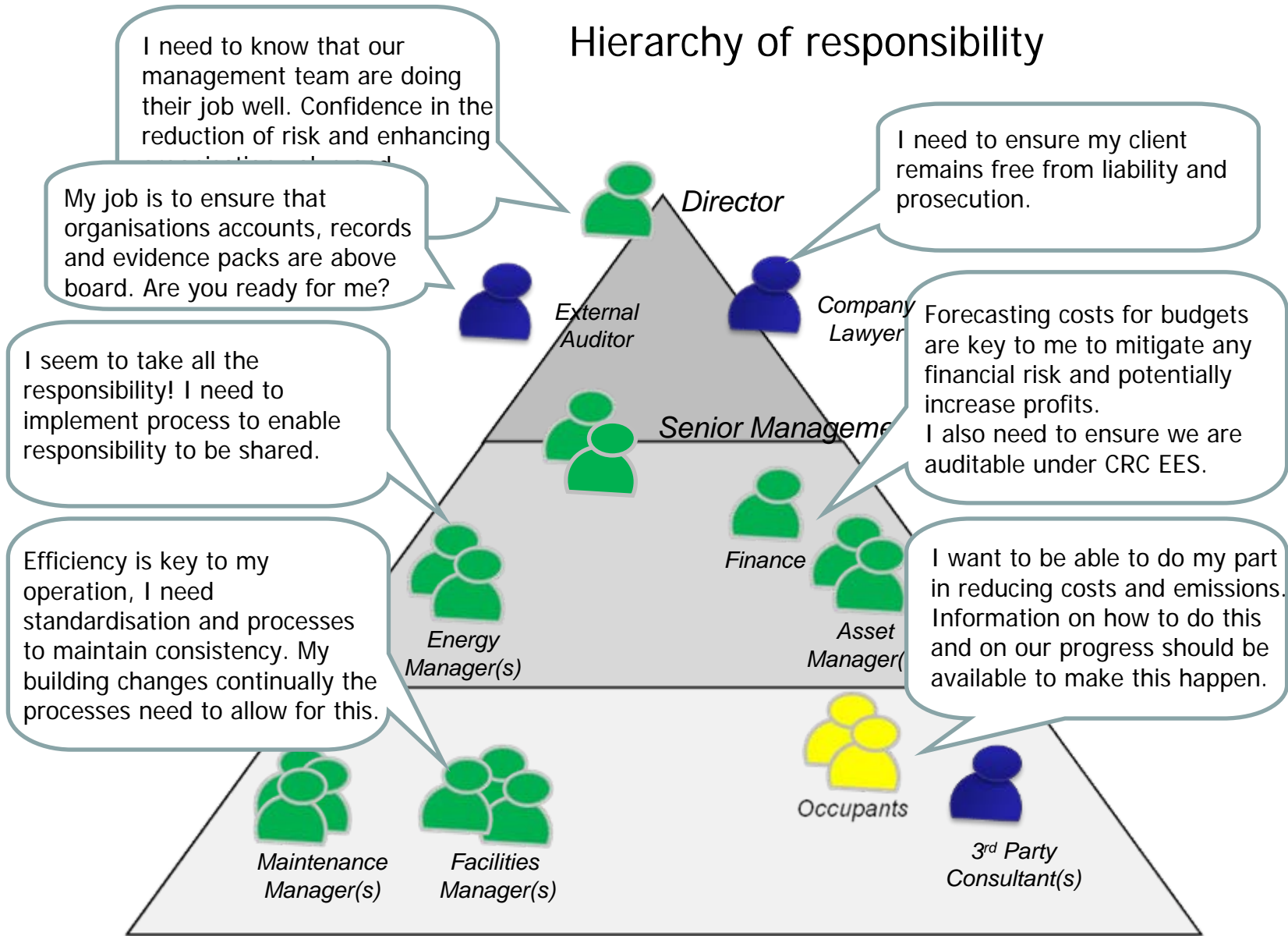


Reasons to adopt a standard

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

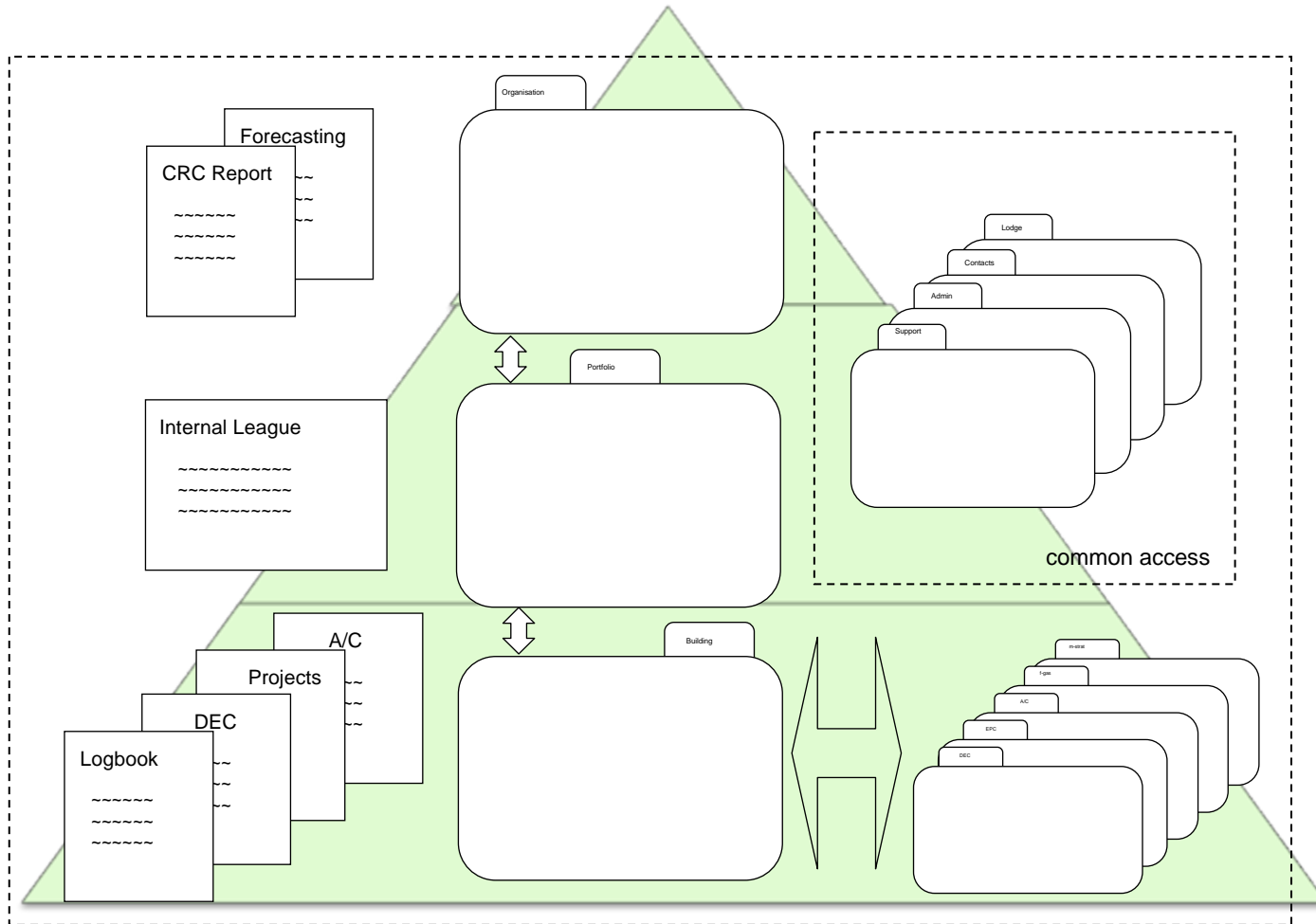


Responsibility under the Carbon Reduction Commitment

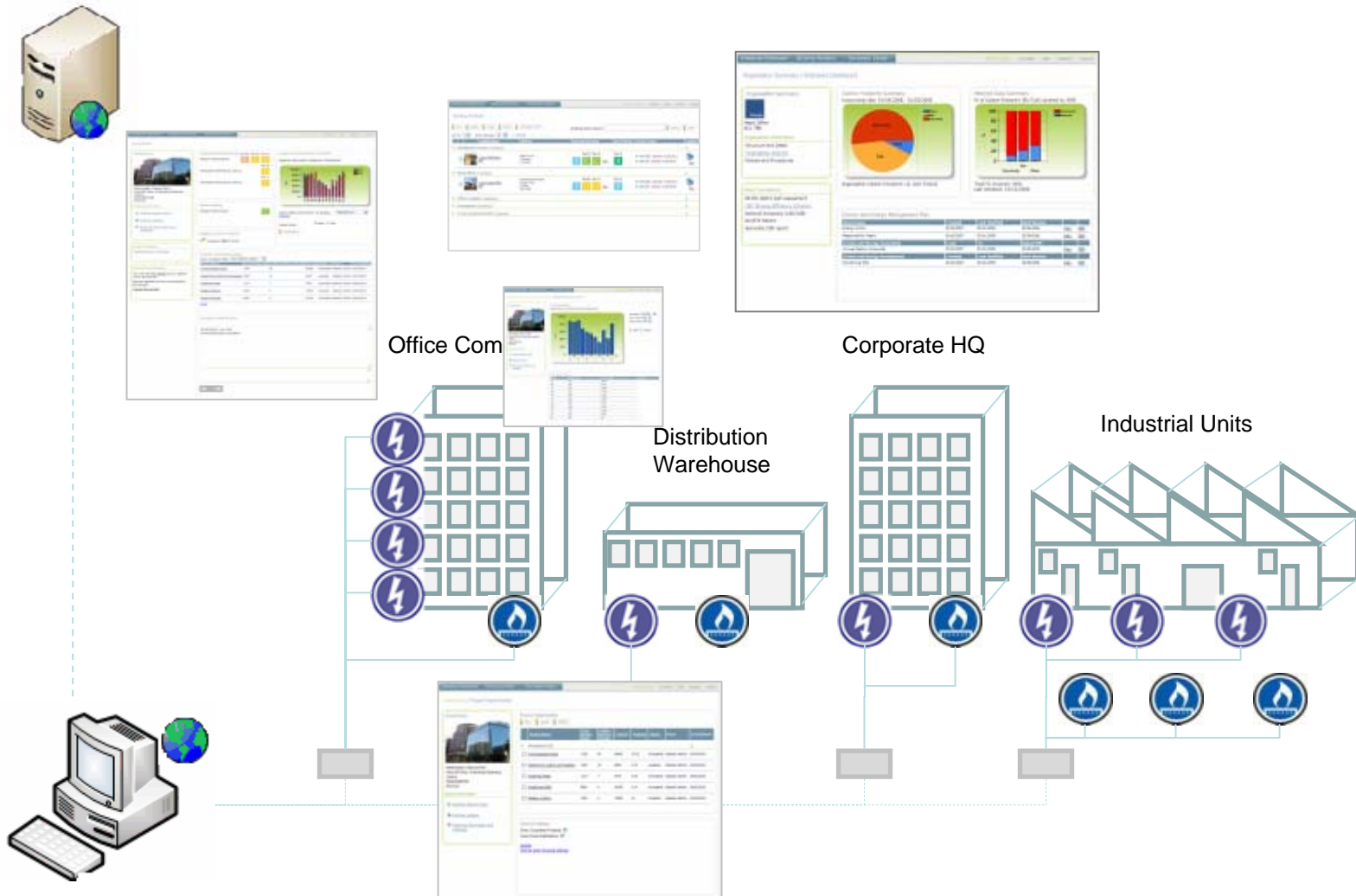
“an **associated person** must provide the **responsible person** with all such assistance, including the provision of information or records, as is necessary to enable the responsible person to identify fully, and discharge, the requirement imposed on the combined participants”

OBJECTIVE : CLEAR RESPONSIBILITIES

Matching responsibility with and audit trail



Implementing an Energy Management System (EMS)



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 contact details:

Director Responsibility:	Chris West
Primary Contact:	Kevin Palmer
Secondary Contact(s):	Paul Clarke
Secondary Contact(s):	Richard Hopkins
Account Representative:	Richard Hopkins
Account Representative:	Not Selected
Account Representative:	Not Selected

2 Reporting History table:

Footprint Reports	From	To	Total Footprint (tCO2e)	Change (%)	CO2e
Phase One	01/04/2008	31/03/2009	10,100	nd	100%

3 Reporting table:

Reporting	Created	Signed Off	Owner	CO2e
Organisation Structure	No	No	Paul Clarke	100%
Data Records	No	No	Richard Hopkins	100%
Space E-mis	No	No	Richard Hopkins	100%
Early Action Items	No	No	Chris West	100%
Growth Metrics	No	No	Kevin Palmer	100%
Exemptions and Credits	No	No	Chris West	100%

4 Evidence Pack | Director Sign Off section:

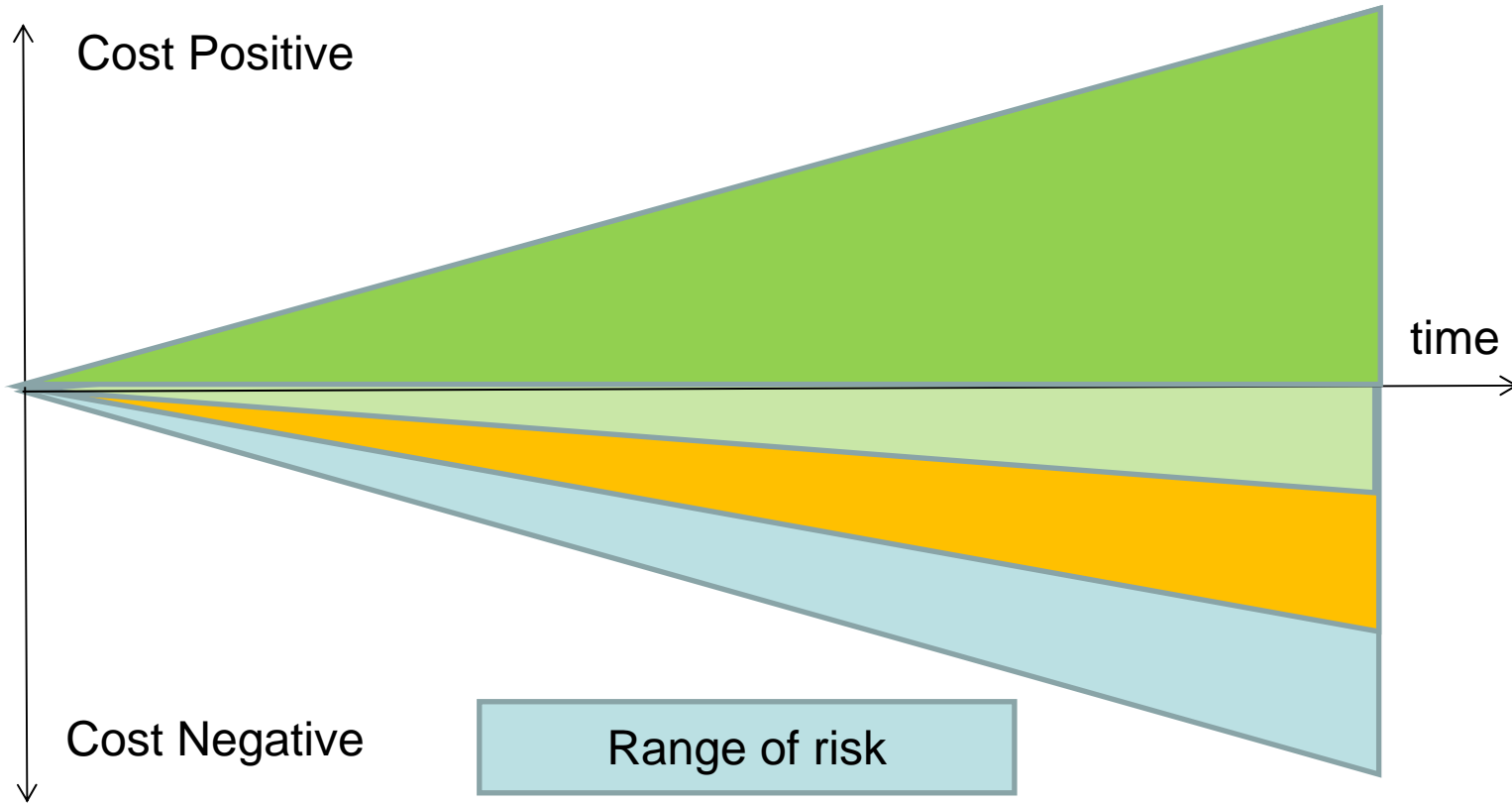
Evidence Pack created ready for sign off: Not available

I certify that the evidence pack for the accounting year of April 2009 to March 2010 reflected in the appropriate evidence pack contain information that is correct and true.

digitalenergy password:

Sign Off

Risk Management



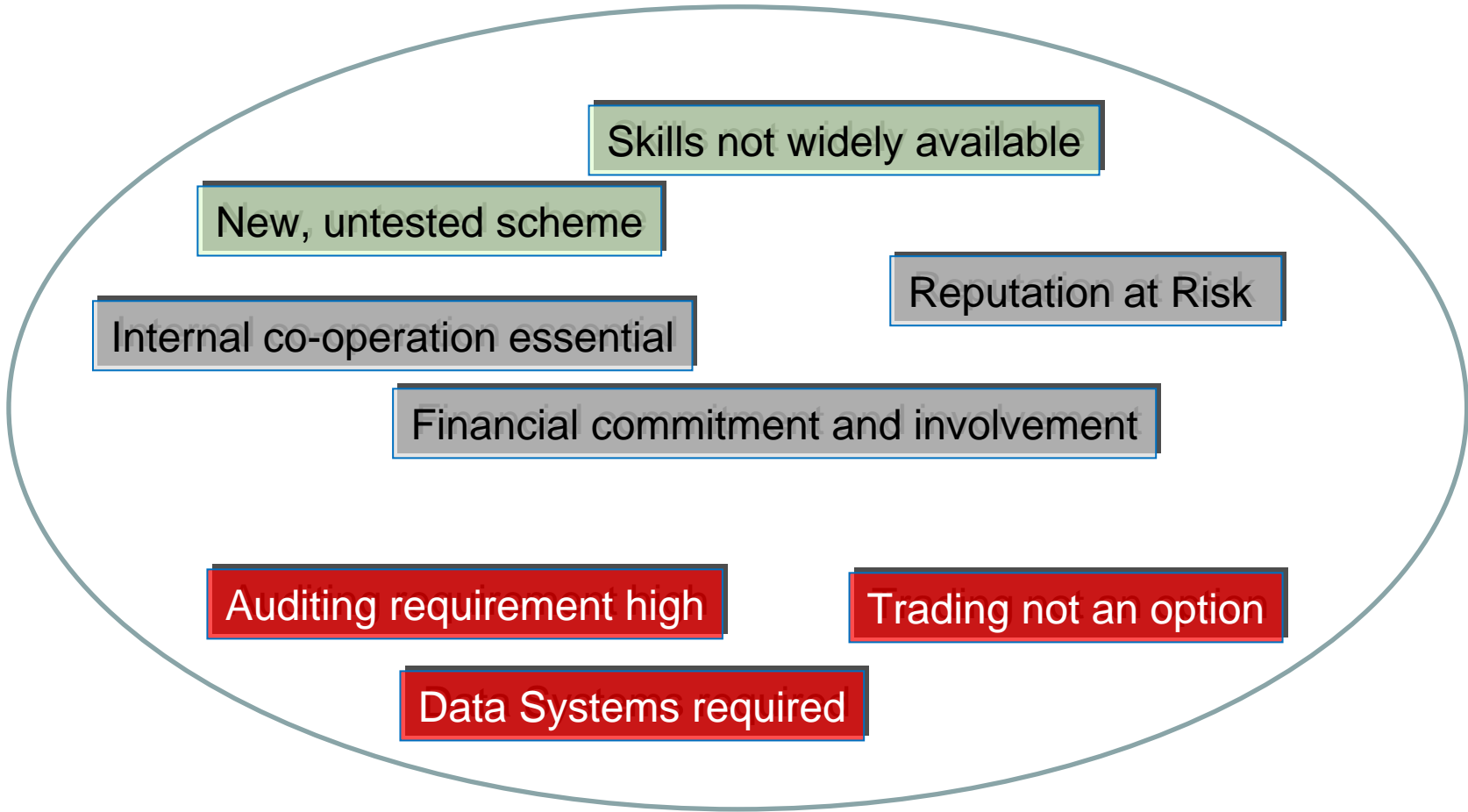
Range of risk

Reasonable risk range

Reduced risk

No risk only opportunity

Why is CRC EES such a risk?



Count or Control – Some Closing Thoughts

- Its not for 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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