

Sound Methodology for Beneficial Results



Carbon Disclosure Forum 2010

Agenda

Carbon Disclosure

- 1 Introduction to ESC
- 2 Cement Industry Issues
- 3 EnGro Case Study
- 4 Footprint Methodology
- 5 Potential Benefits

Introduction to ESC

- EnviroSolutions & Consulting (ESC) provides Multidisciplinary Risk Management Services:
 - Transaction & Auditing
 - Planning & Technical
 - Carbon Management Advice for Businesses

- Key Projects:
 - NEA Singapore Air Emissions Study
 - MPA Ship Air Emissions Study
 - Jurong Island carbon Footprints
 - Industry Specific Carbon Footprints

Cement Industry Issues

Global Cement Industry responsible for 6% of man-made CO₂ emission & 4% of man-made global warming.

Perceptions

- Pollutive industry with a lack of environmental awareness

Report Standards

- Inconsistency and lack of transparency

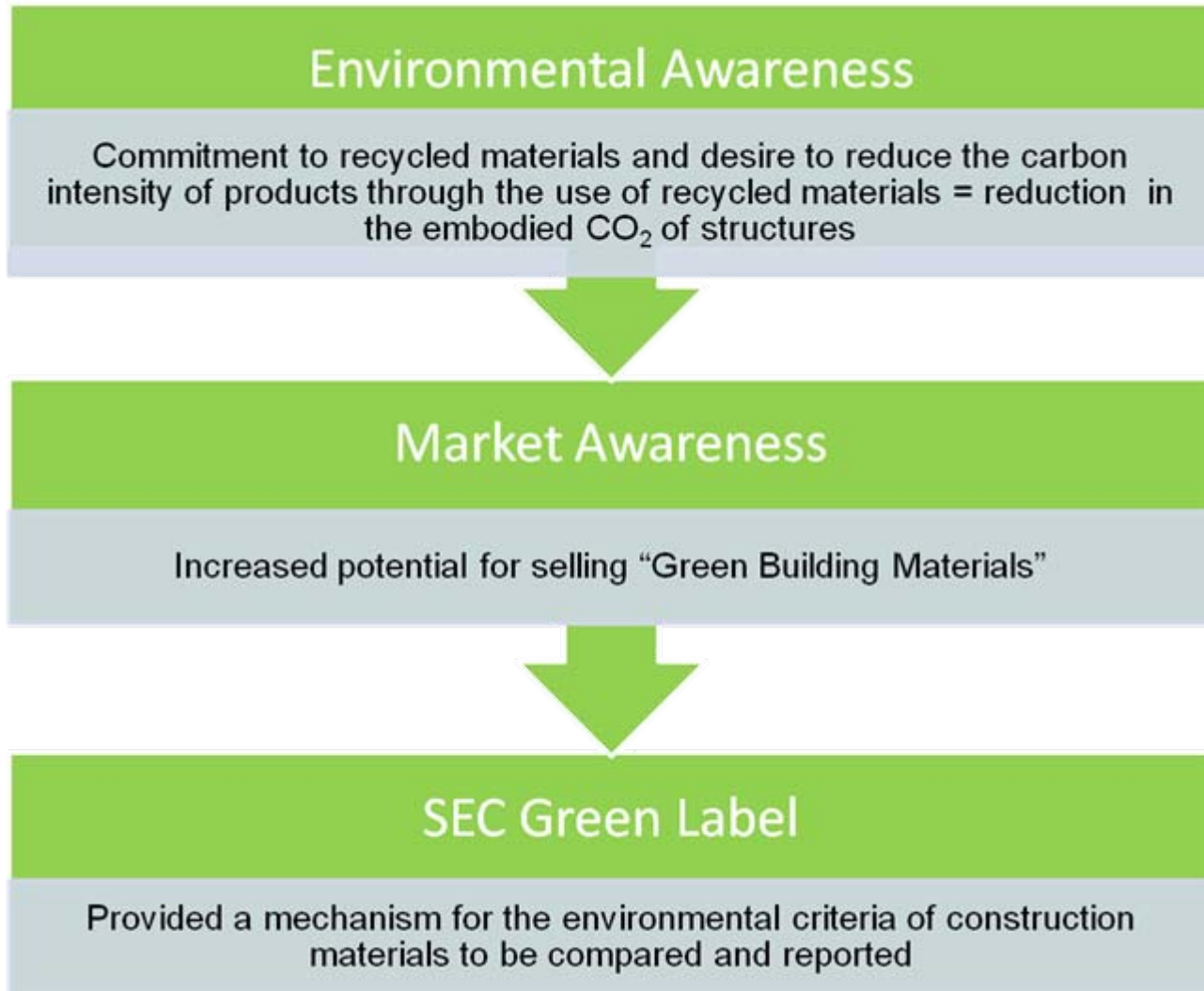
Data Quality

- Accuracy and completeness

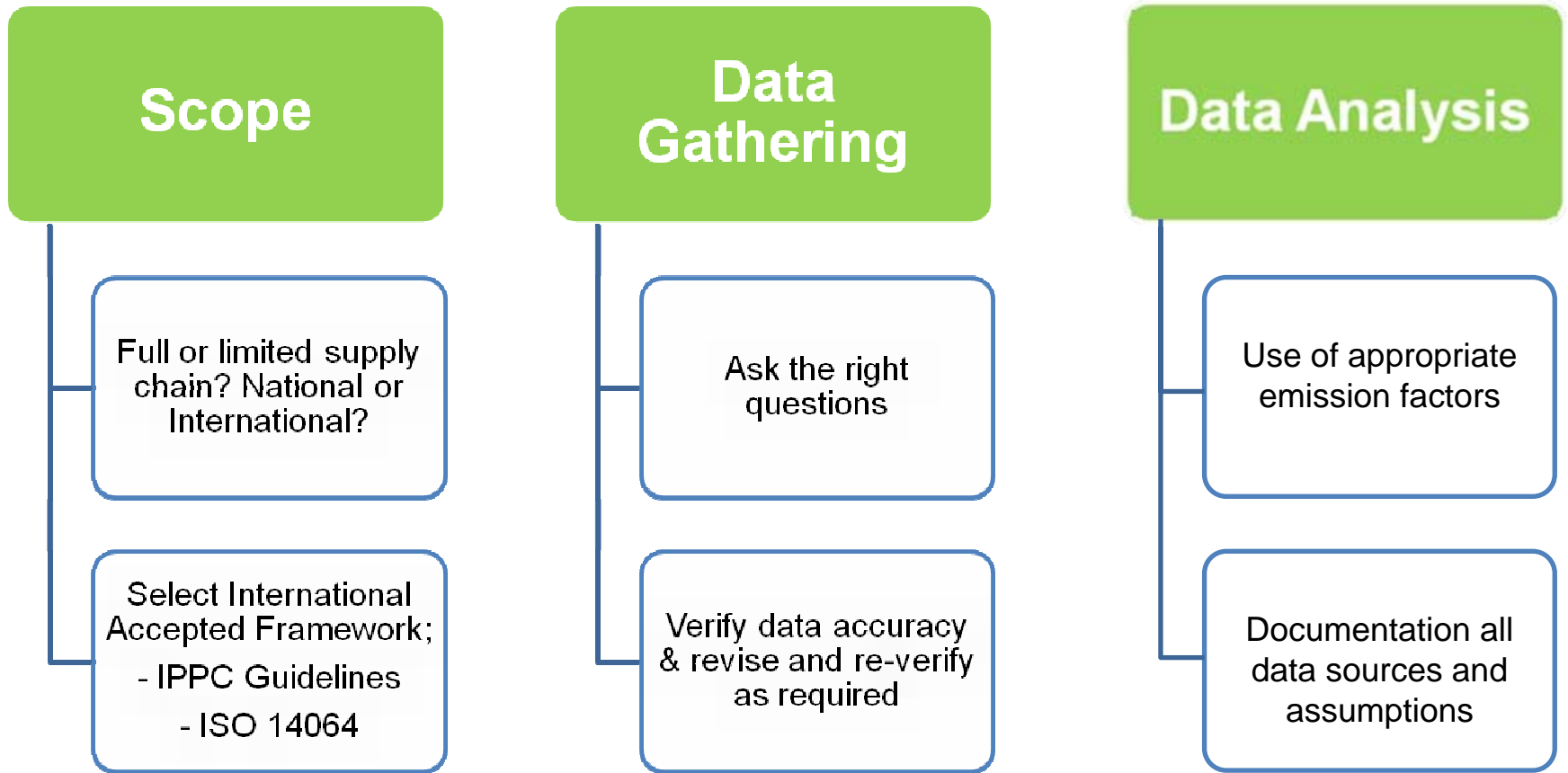
Independent Validation

- Not required and not provided

EnGro – Drivers for Change



Footprint Methodology



Benefits to EnGro

- Accurate Data = Sound Decision Making
 - Initial findings identified key issues that allowed EnGro to make significant and beneficial policy decisions
- Solid baseline
 - Accurate and validated data forms the basis for future development and emission reductions
- Product Findings
 - 25% reduction (30% OPC replacement in concrete)
 - 32% reduction (35% OPC replacement in blended cement)
 - 46% reduction (50% OPC replacement in blended cement)
- SEC Green Label
 - First cement/concrete products to be approved by SEC
- Sales
 - Reduced impact products without additional costs to contractors and inclusion within competitor Green Label products

Summary

Business Carbon Liability



Solid Foundations

Product

Market Benefit

Understanding data properly leading to improved environmental and/or CSR reporting capabilities

Defined boundary used to produce accurate data that can be validated and accepted in the marketplace

- Permitted or improved access to markets & clients;
- Greater transparency;
- Improved public perception

Contact

- **Darrell Farley**
Principal Consultant

EnviroSolutions & Consulting Pte Ltd

www.envirosolutions-consulting.com

Phone: +65 6423 1174

Email: darrell.farley@envirosolutions-consulting.com

Thank You