

The World Business Council for Sustainable Development

Mainstreaming Life Cycle Assessment for Buildings & Materials

BUSINESS SOLUTION STATUS

Safe & Sustainable Materials Cluster

September 15, 2015



LCA for Buildings: Objectives

Harmonize LCA Methodologies

Reduce Complexity

Enhance the Business Case

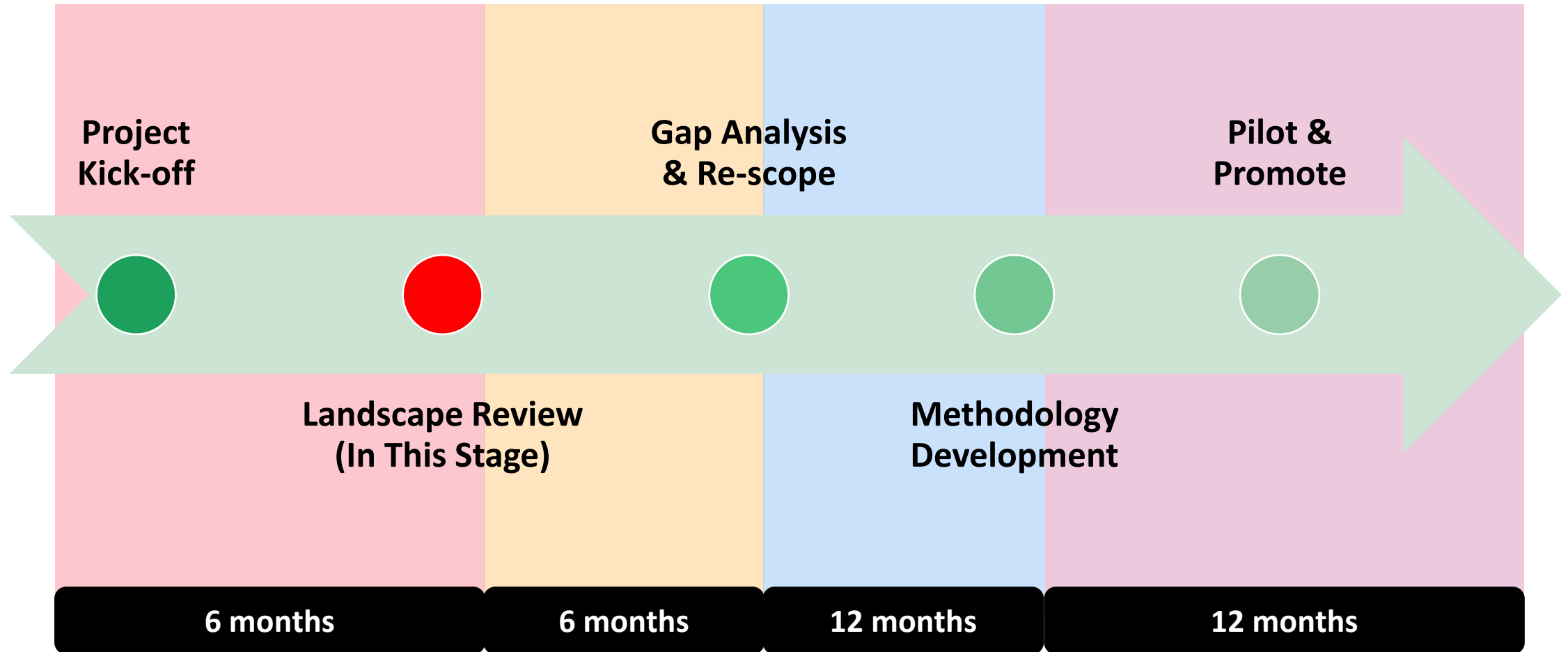
Facilitate Implementation

Scale Worldwide

LCA for Buildings: Scope

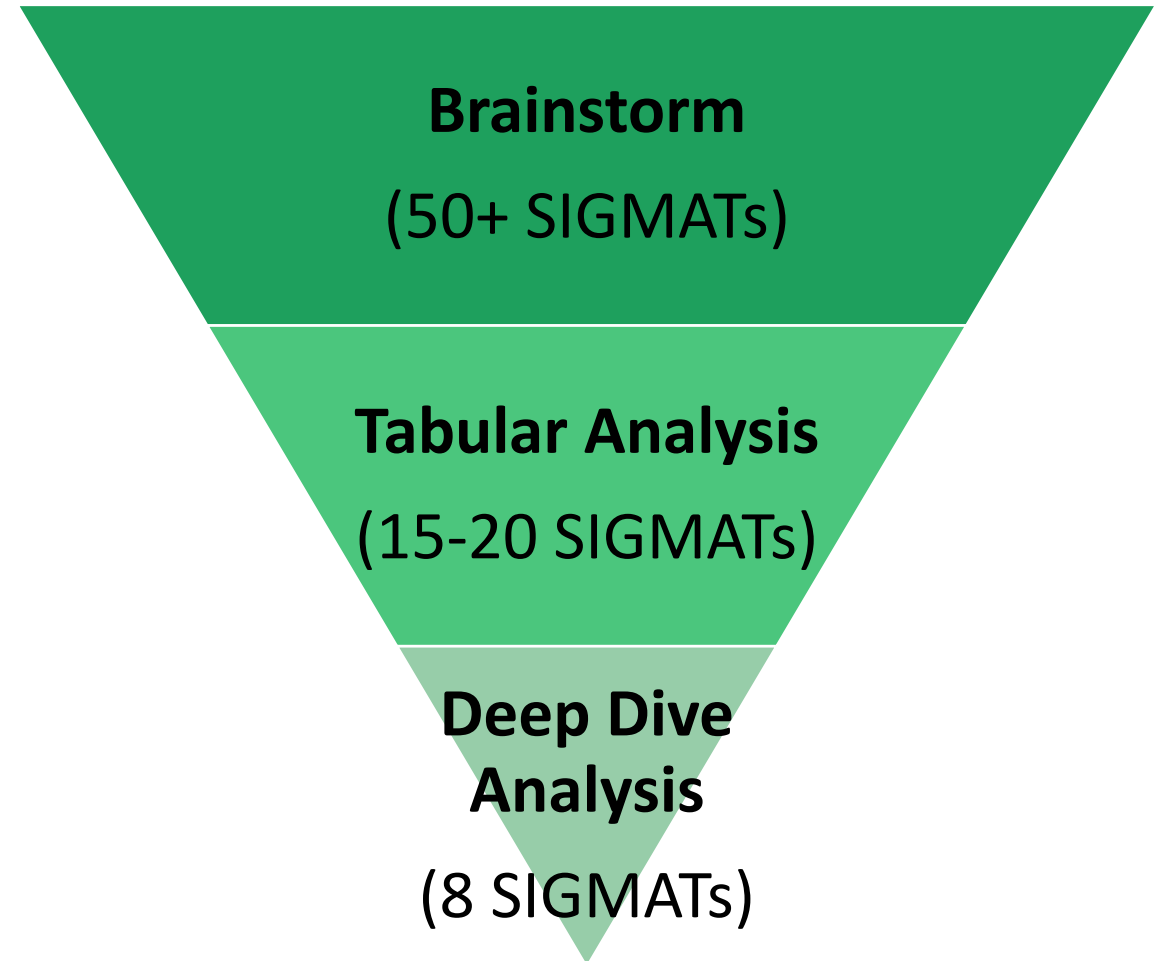
- Develop a **common approach** to applying LCA across the buildings value chain
- Provide one, common voice across the value chain while **including regional specificities**
- Include **implementation guidance** across the value chain and life cycle
- Adopt a few, simple, **key environmental indicators**
- Encourage doing LCAs as a normal activity by requiring **minimal resources**
- Install flexibility in methodology to eventually incorporate **life cycle costing**
- Promote structure that facilitates move from generic data to **primary data**
- Focus on environmental indicators, with the potential to include **social indicators**

LCA for Buildings: Timeline

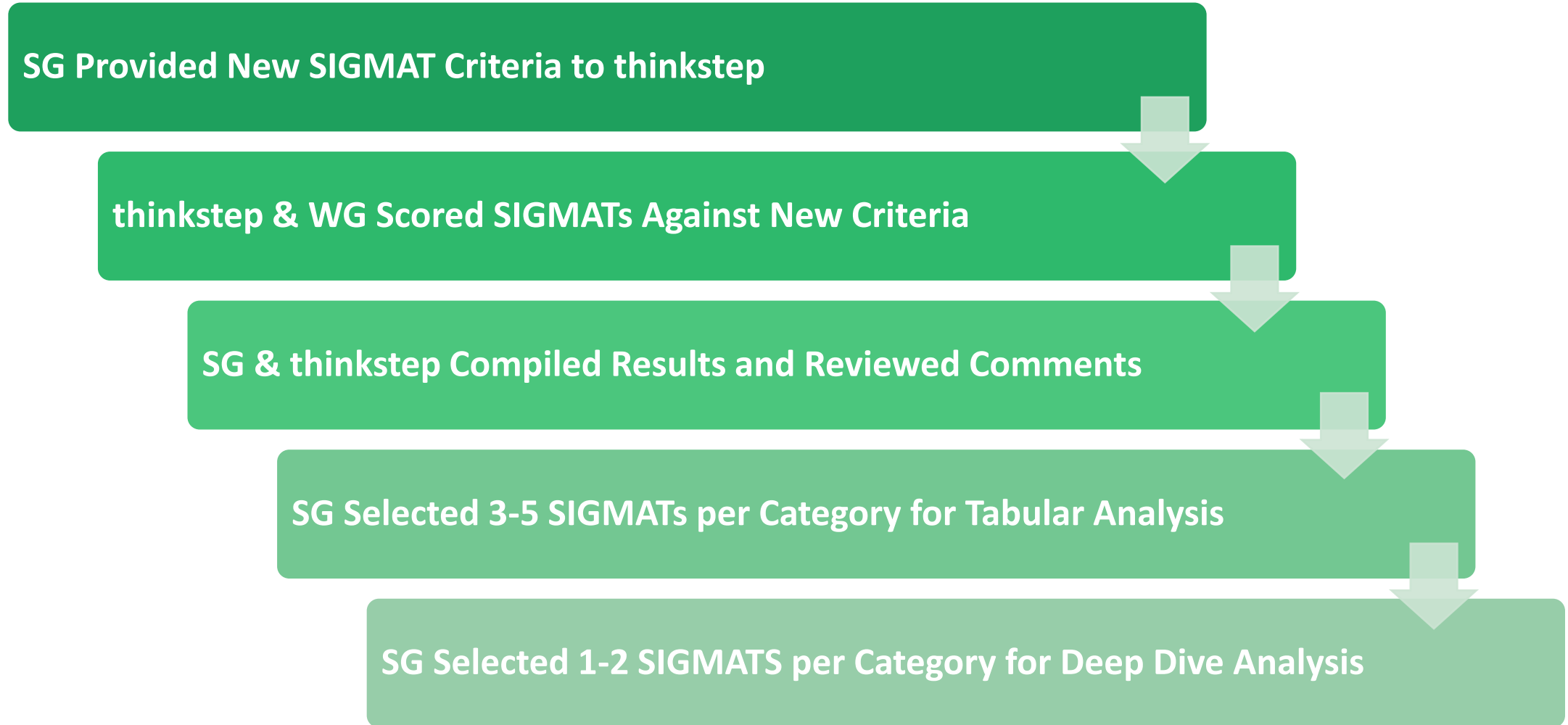


Landscape Review: Overview

- **SIGMAT**: Standards, Industry Initiatives, Guidance, Methods, And Tools
- **Tabular Analysis**: Topical research completed for all key SIGMATs identified
- **Deep Dive Analysis**: More detailed & thorough analysis on selected SIGMATs



Landscape Review: SIGMAT Selection Process



Landscape Review: SIGMATs Evaluated

CATEGORY	SIGMATs
Industry Initiatives	GRI CRESS , Circularity Indicators (EMF), Green Guide to Specification
LCC & External Accounting Methods	TruCost , LCC, Total Cost of Ownership
Digital LCA Tools	BRE Impact Methodology , Tally
Financial Investors	GRESB , UNEP FI Sustainability Metrics , ULI Greenprint
Construction Rating Systems	DGNB , Green Mark , Greenstar , LEEDv4, BREEAM 2014, CASBEE, Living Building Challenge, EDGE
Regulations & Policy	French, Belgian, German, and Dutch Building Regulations, Norway's FutureBuilt, EU Green Public Procurement (Construction), EC Resource Efficient Opportunities in the Built Environment

NOTE: SIGMATs in **BOLD** were selected for deep dive analysis

LCA for Buildings: Upcoming Deadlines

- **Landscape Review:**

- Interim Analysis Webinar: September 28-30, 2015
- Final Presentation: October 23, 2015

- **Gap Analysis & Re-Scoping:**

- Phase Initiation: October 26, 2015