

**Preparing for a “Sustainability Vision” :
An Inclusive Science & technology perspective
aligned with management interventions**

Mitigation and Adaptation to tackle challenges posed by climate change

- 1. Important indices**
 - Parameters
 - Benchmarks
- 2. Sector specific interventions**
- 3. Overarching aspects**
 - Institutional mechanisms and Capacity building
 - Some important knowledge resources
- 4. Way forward**

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7 reasons to engage in sustainability

1. Reputation risk
2. Brand value
3. Investors for effective corporate governance covering social and environmental responsibilities.
4. Regulations
5. Climate change mitigation and adaptation as a window of opportunity
6. Regulations could promote innovations
7. Asset management

Learn & Adapt suitably: Important emerging insights “Indexing” (4)

Sustainability Year Book 2012

KPMG

- Awareness
- Negotiating abilities
- 12 criteria covering Economic, Environmental & Social aspects
- Sustainability Leaders
 - Can build on this further
 - Need locally relevant empirical evidences

Theo Spencer & Peter Altman 2010

- **Climate, Water & Risk**
-

Dow Jones Sustainability Indexes

CSO Sustainability Index for Central & Eastern Europe and Eurasia USAID 2011

- **Scoring Scale with seven parameters**

Additional reference to Climate issues (5,6,7)

- **2011 Ernst Young**
Expanding CFOs role

- **KPMG 2010**
Sustainability strategies to
attract investors

- **IPCC 2007 Yohe & Lasco**
et al
 - **Access to resources**
 - **Human & institutional**
capacities
 - **Poverty**
 - **Hazards / Extreme**
events
 - **Adaptive capacities**
 - **Recognize uncertainties**
& Unknowns

Related indexes (8 – 16)

- SocialMediaInfluence
 - Social Media Sustainability Index
 - WIZNESS : Wise Business Platform

- Policy Indexes 2012
Surminski & Williamson

- OECD 2012 for India
- UNDP 2012 Triple Wins
- ADB 2012 43rd Ed “Green urbanization
- UNU UNEP 2012 – Measure progress towards sustainability; eco system services

- ICLEI 20102
 - STAR Community Index
 - 81 goals
 - 10 guiding principles
 - Governance & Minimum level of performance

- UN – System Task Team
 - Post 2015
 - Governance & Accountability deficits
- Deloitte 2009
 - Show me the value

Locally adapted synthetic approach: A suggestion (1,2)

Indices / Indexes	Benchmarks / Indicators of use
<p>Information</p> <ul style="list-style-type: none">•Spread•Depth•Limits & limitations	<ul style="list-style-type: none">•Empirical evidences / Individual & synergistic relationships•Natural & artificially induced / Baselines???????•Preventive practices / Remediation•Transition / leap frog•No bandwagon
<p>Capacity building</p>	<p>Processes / Technologies</p> <ul style="list-style-type: none">•Minimize economic dislocation / obsolescence costs•Maximize indigenous production•Build on local and market advantage systems•Locally adapted technologies

Synthesis 3,4

Indices / Indexes	Benchmarks / indicators
Right to “Quality of Life” <ul style="list-style-type: none">•Information•Processes to exert rights•Public leadership	<ul style="list-style-type: none">•Public participation•Rewards for good action•Witnesses for knowledge consolidation
Local / Market advantages <ul style="list-style-type: none">•Relevance•Scale	<ul style="list-style-type: none">•Mechanisms that foster innovation

Way forward: 4 focused & inter related aspects

Indices for evaluation of sustainability

- Needs & Opportunities
- CSR to Sustain Development
- Reality Check to guide focused action: Go beyond Rhetoric

Aspects

Sectors 1 – n

Information (Science & Technology) needs: Target specific ; Preparedness based

Technical assistance / Technology needs (communication to action): Ability to use alternatives

Local solutions: Technical feasibility; Adaptable; Leap frog

System needs: Regulations, Fiscal & Non – fiscal tools, Market mechanisms

Climate change related thrust areas

Some important thrusts:

- Micro climate of crops and productivity correlates
- Energy efficiency enhancement in SMEs with CP / WM / EID
- Apportionment of emissions / responsibilities for reduction
- Fungibility, Accountability, Transparency, Consistency & Measurements

- Locally relevant / feasible mitigation / adaptation options
- Sustainability with “enabling circumstances”
- Rewards / market mechanisms
- Information clearing houses
- Technology demonstration / up-

Goal

- **Vision**

Robust mitigation and adaptation strategies implemented through locally adapted systems of Knowledge, technology, human resources and institutional transitions.

- **Mission**

Enable Reality checks for sound empirical insights (science & technology) and harmonize related mechanisms for verifiable action / results that tackle impacts due to climate change and other emerging perturbations.

Sources of information cited. An outline

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