

Green Growth, Low Carbon and Climate Change-Resilient Development for Karnataka

Experiences and Successes

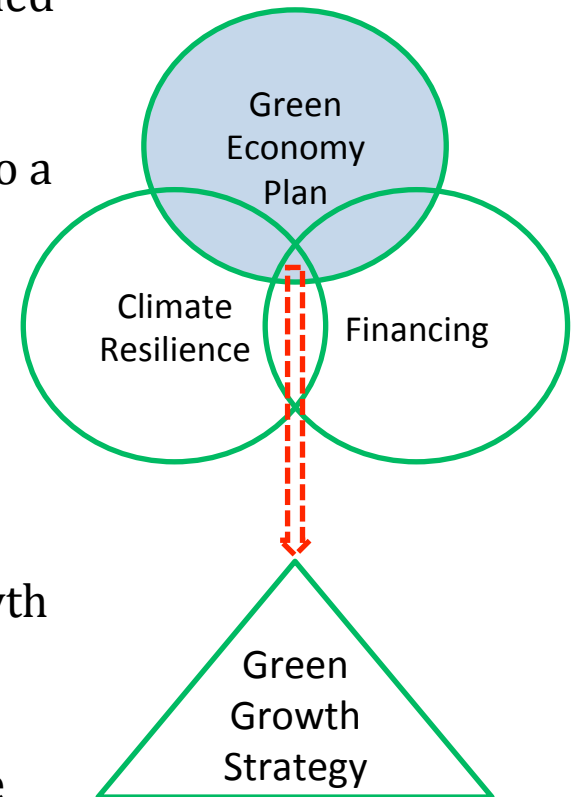
28th August, 2014



Center for Study of Science, Technology and Policy, Bangalore



- Multi-disciplinary, collaborative project, consortium of research institutions supported by GGGI
- Key objective: To develop a green growth strategy, including the aims of poverty reduction and sustained economic development for Karnataka.
- The project has three main outputs synthesized into a green growth strategy
- CSTEP's role
 - Estimation of the baseline emission inventory
 - Evaluation of sustainability challenges over a long-term horizon (going up to 2030)
 - Identification and quantification of green growth co-benefits of mitigation actions
 - Assessment and prioritization of feasible low emission strategies that can be taken up by the state

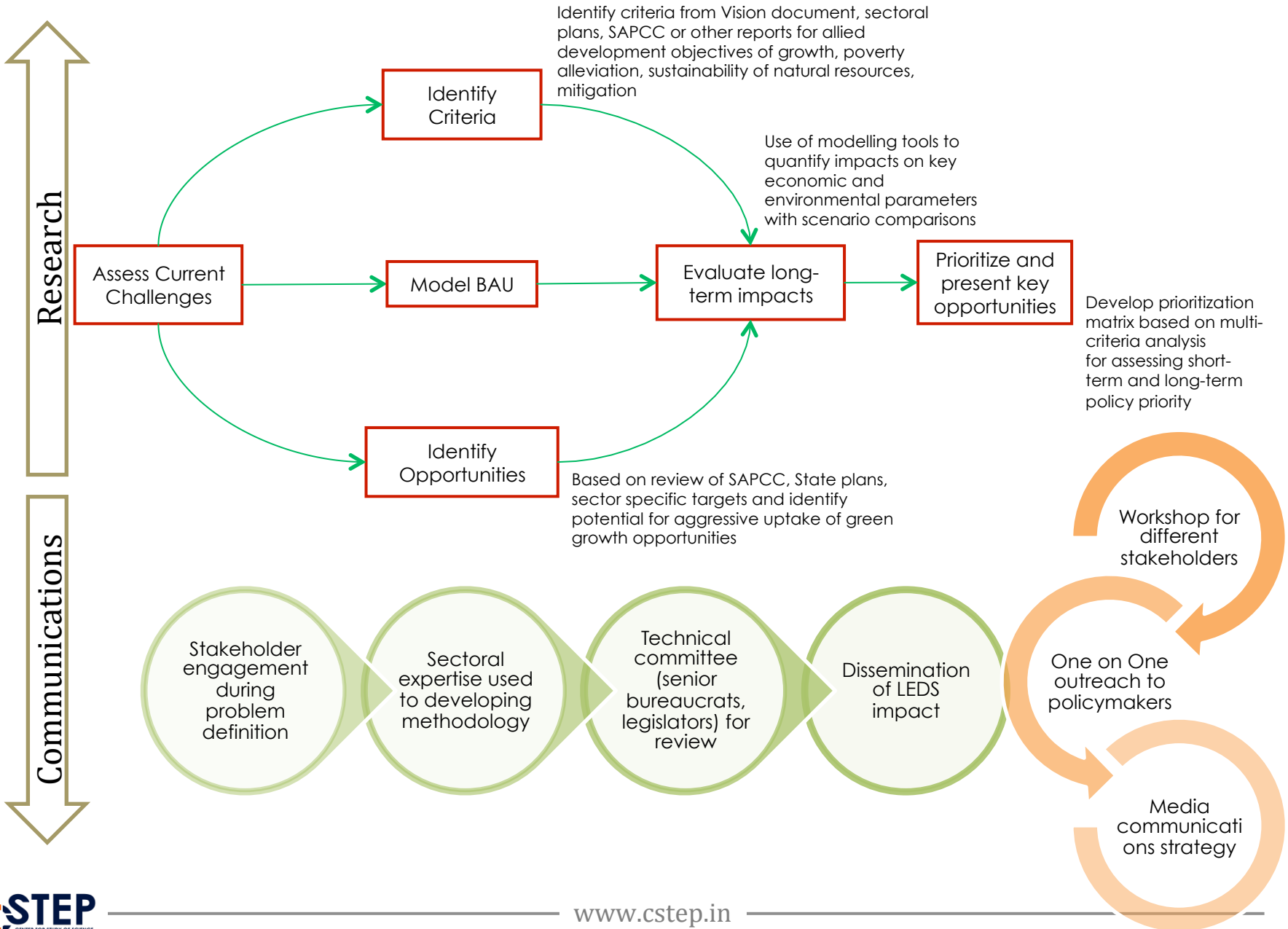


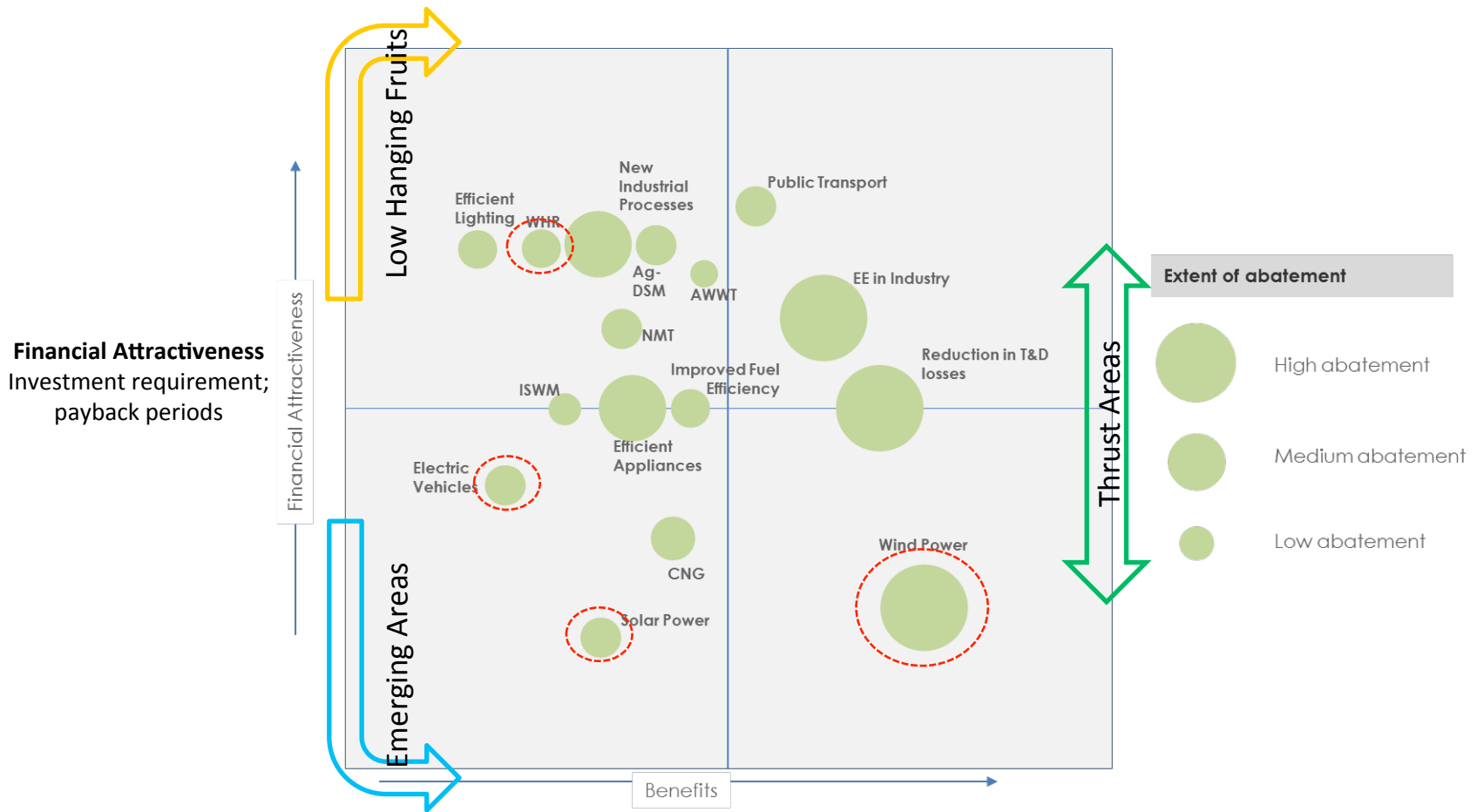


- For conveying LEDS impact
 - Understanding *Green Growth* as meeting allied developmental imperatives of economic growth, low carbon growth, poverty reduction, along with natural resource sustainability
 - Mapping out the constraints to growth under current policy architecture over a long term horizon
 - Identification and assessment of co-benefits such as impact on resource or energy availability, local environment degradation, demand for urban services aggravating pollution and congestion in cities like Bangalore
 - Assessing impact of LEDS on alleviating sustainability challenges with detailed sectoral analysis in Power, Industry, Transport and Waste
 - Identifying and prioritizing key green growth opportunities



Approach





(Non-Financial) Economic Benefits

Additional direct job creation; Reduction in fossil fuel dependency; Congestion

Local Environment Benefits

Reduction in air pollution; Reduction in land and water degradation

Social Benefits

Impact on social equity; Improved access to goods and services

Mitigation Benefit

Reduction in GHG emissions



- **Evaluating** LEDS Impact
 - Modelling complexity
 - An energy system model enables analysis of impact of behavior, technology and policy on resource supply and demand
 - Data challenges
 - Can be overcome by engaging experts and reasonable assumptions
 - Understanding co-benefits better
 - The energy system analysis can be enriched with complementary tools or expanding resource impact analysis to other sectors
- **Communicating** LEDS impact
 - Framing and messaging is crucial and involves several iterations
 - Co-benefits hits the right nerve with politicians, policy makers and the general public
 - Constant interaction with policy makers helps with buy in
 - Stakeholder engagement forces policy makers from different 'silos'/ departments to interact and examine problems jointly

Thank You

