

Construction Industry Development Comparison & Acceleration – ‘CIDCA’ *

- Introduction -

Mohan Kumaraswamy

The University of Hong Kong

HKU Research Project funded by Research Grants Council, Hong Kong, entitled:
“EVALUATING ‘CONSTRUCTION INDUSTRY DEVELOPMENT’
PROGRAMMES IN HONG KONG, SINGAPORE AND UK”



Research Aim and Objectives

Aim:

- An Independent and Comparative assessment of **Industry Improvement trajectories** - following (but not limited to) recent high profile reform recommendations in **HK Singapore and UK** (led by HKU, National University of Singapore and University of Reading)

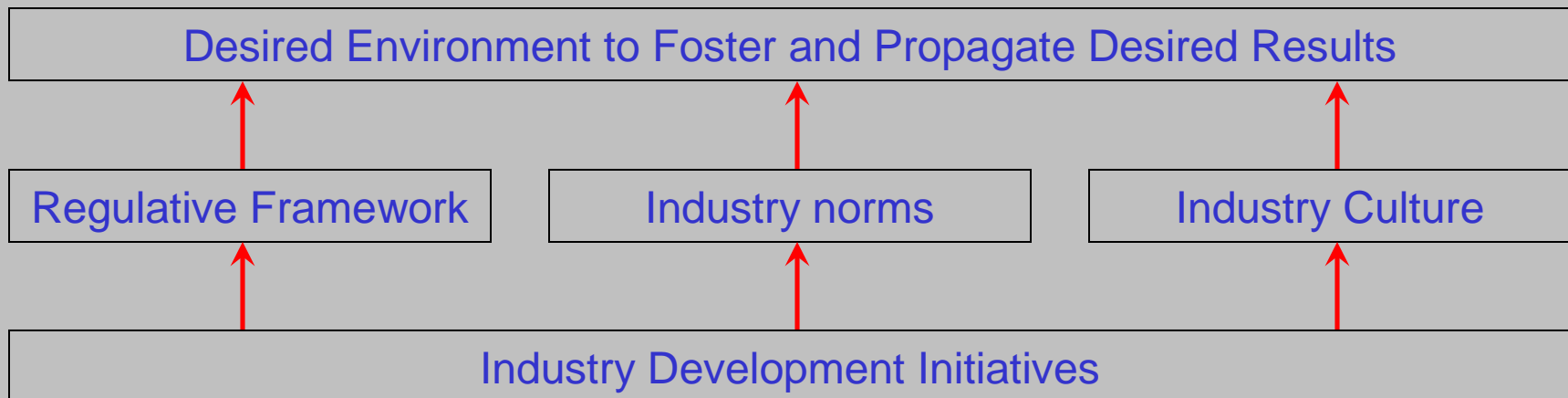
Overall Objectives:

- To evaluate the **effectiveness** of the industry improvement programmes against their original objectives, while discounting / allowing for (i) industry development trends that may have continued even without reform inputs and (ii) changing aspirations, priorities and concerns
- To unravel **reasons** for any perceived shortfalls in the above implementation and to unearth any **root causes**, with particular reference to relevant **public agencies and private organizations** involved; and
- To **learn lessons** that could help to improve **future industry development agendas** and re-align **current development trajectories**.

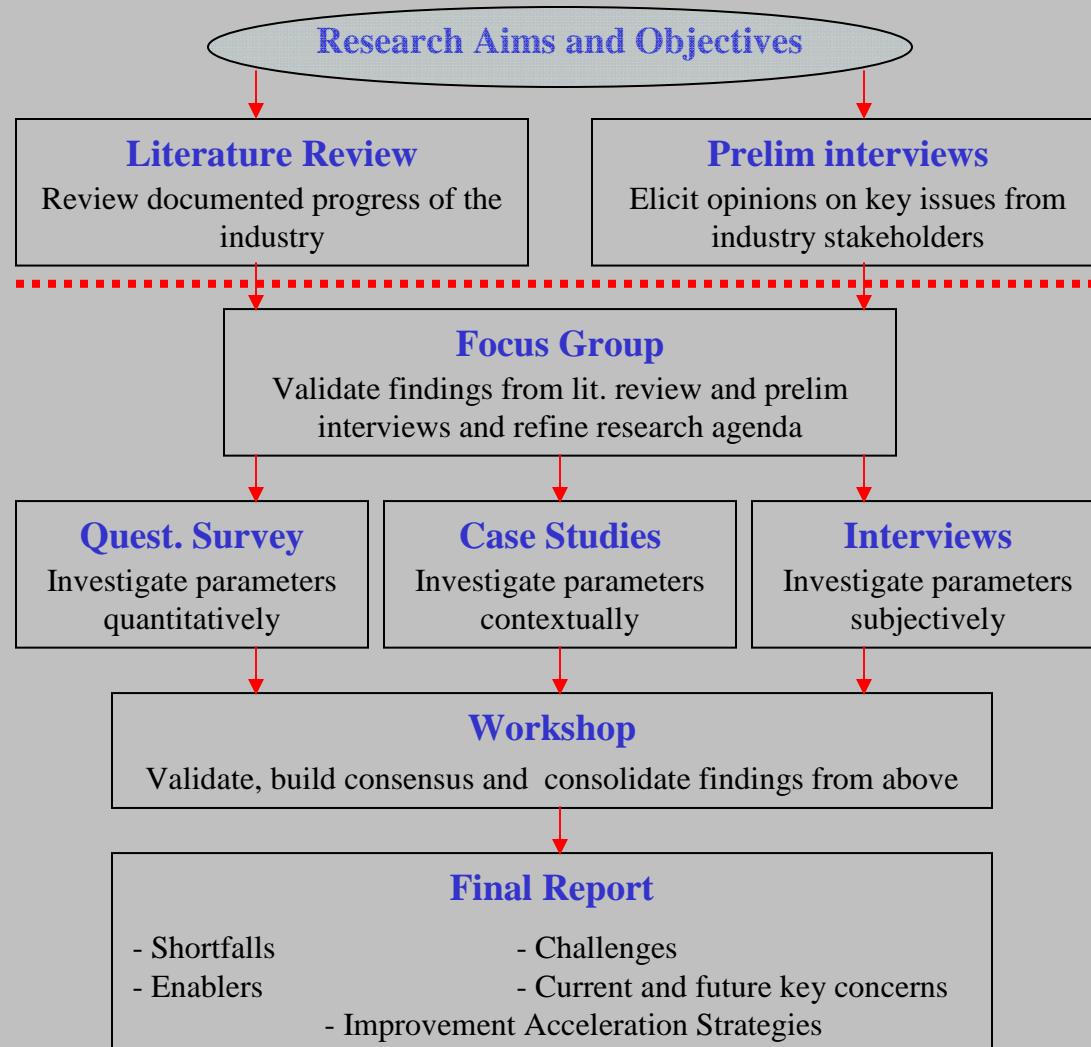


Research Philosophy

- Industry development initiatives are dependent on stakeholder institutions for implementation
- Institutional behaviour is influenced by prevalent regulative framework, industry norms and culture (**Three Pillars of Institutional Theory**)
- Industry development initiatives generally aim for positive changes in above three pillars to influence desired institutional behavior
- Regulation is (in this context) usually a last resort and the aim of the regulation should be to shape the industry norms and culture appropriately



Research Methodology



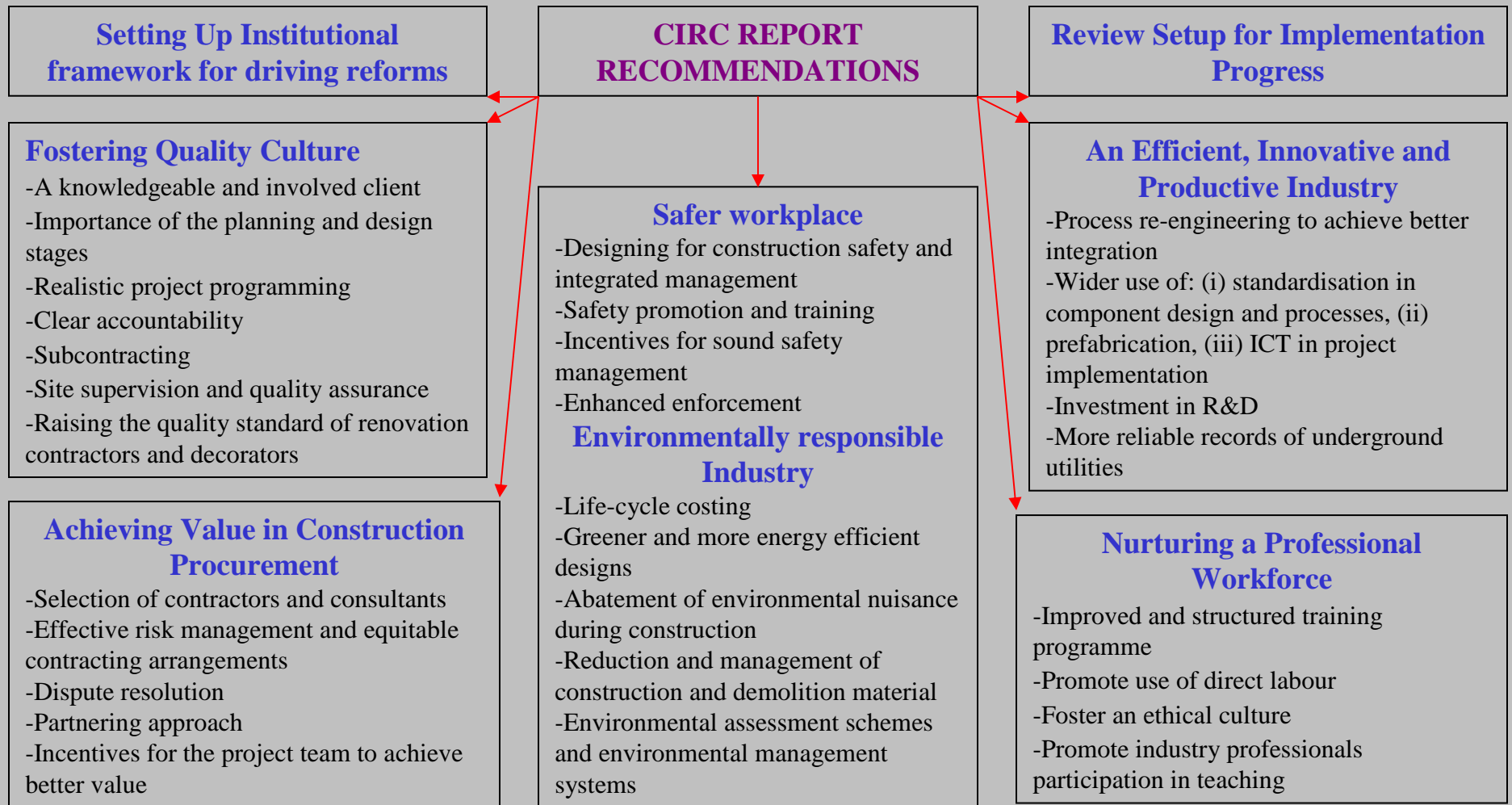
CIDCA: Research Findings To Date

Dr. Gangadhar Mahesh

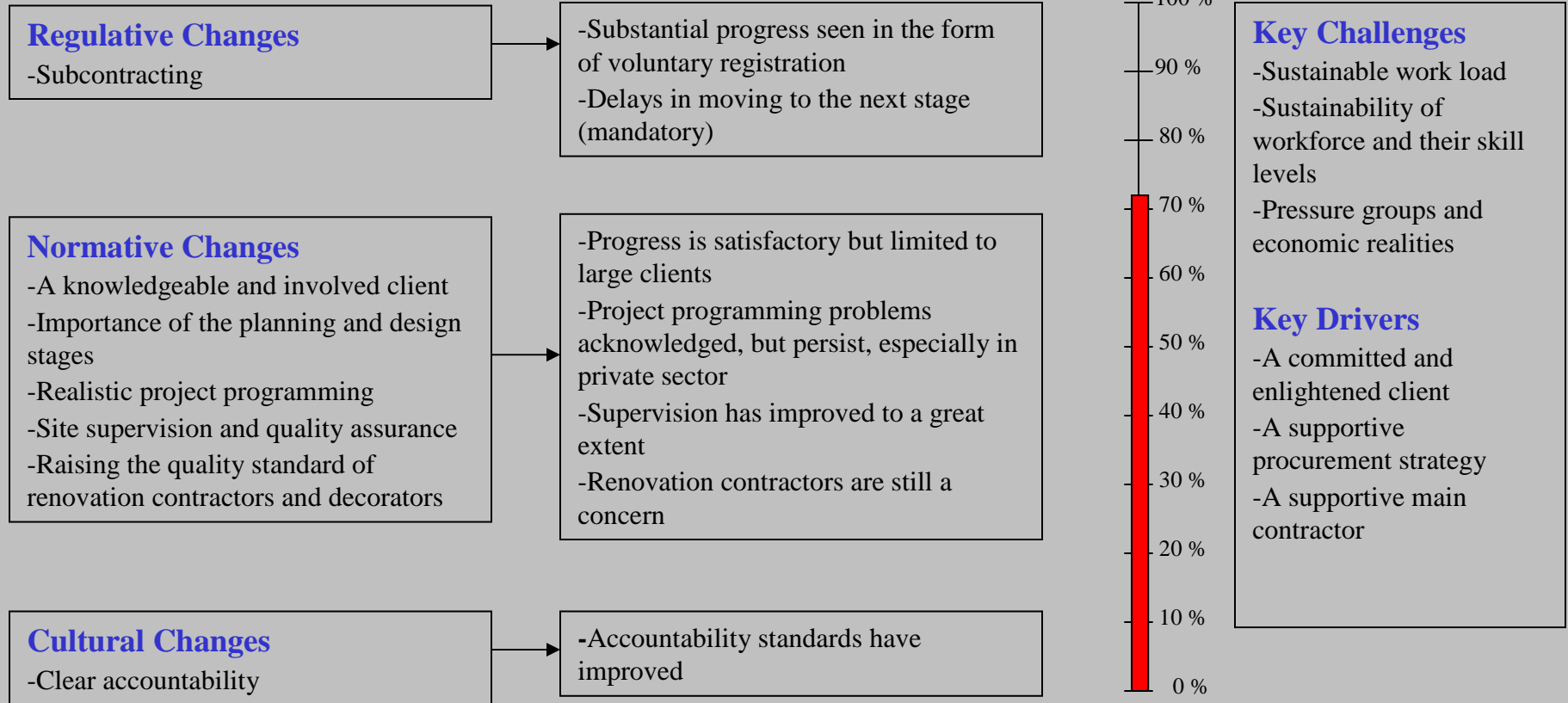
The University of Hong Kong



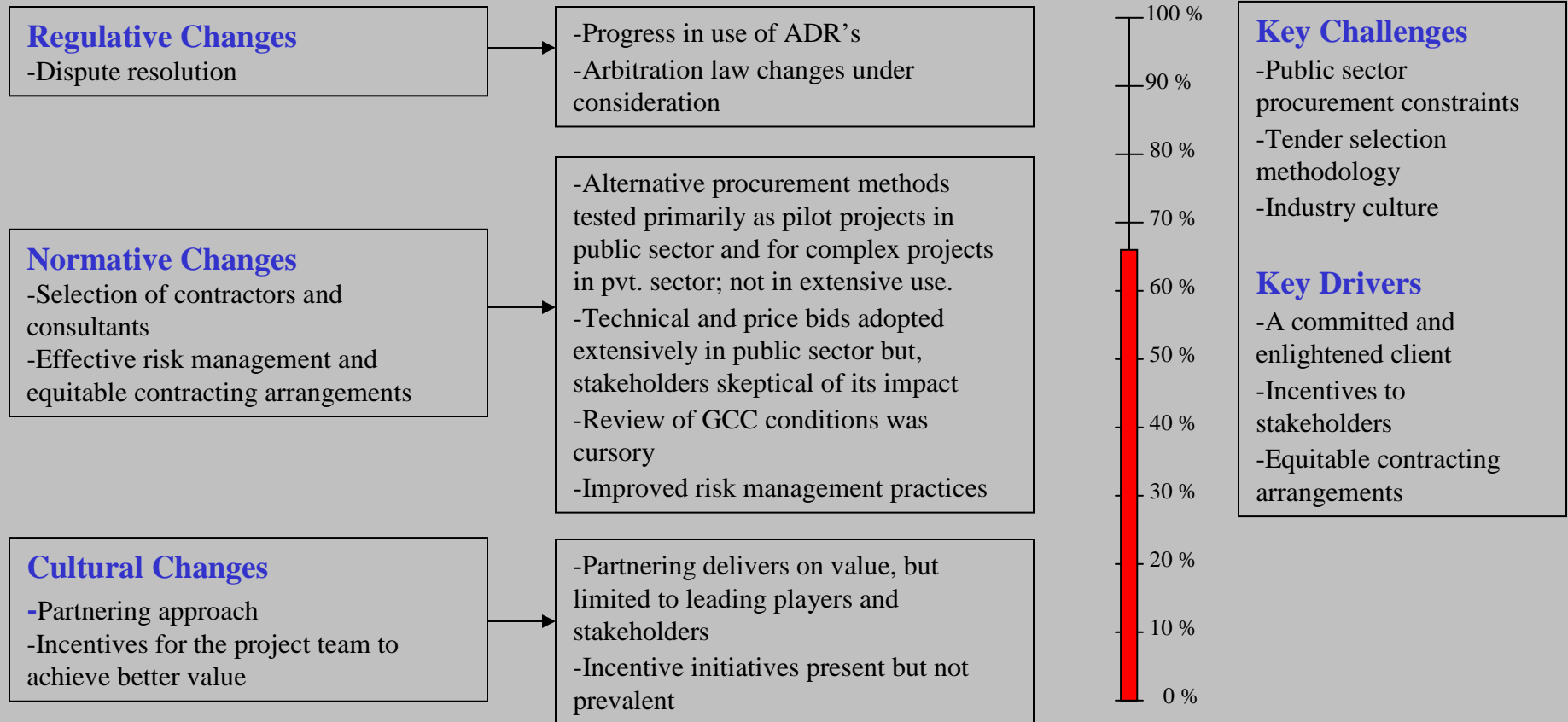
CIRC Recommendations



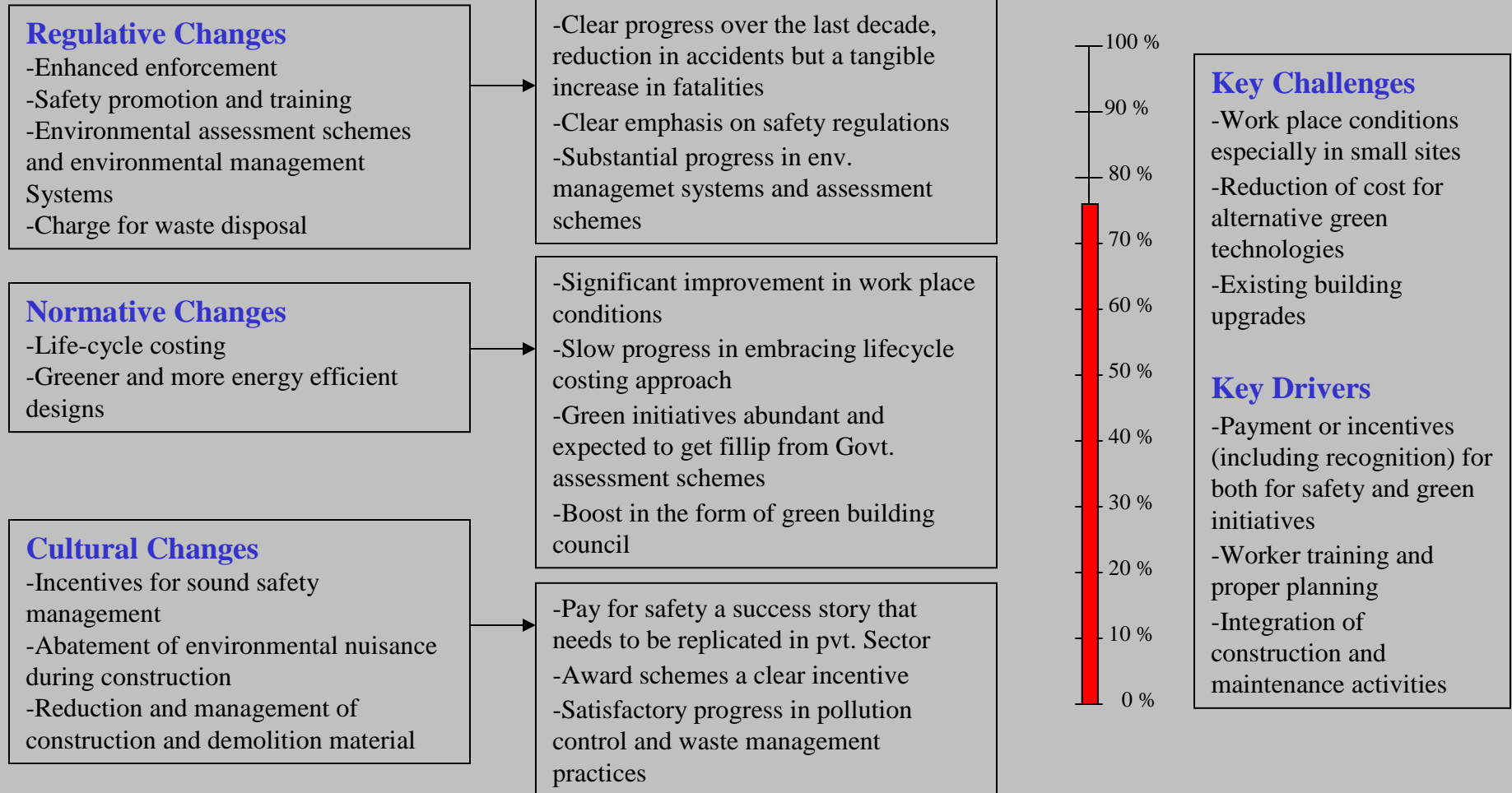
Fostering Quality Culture



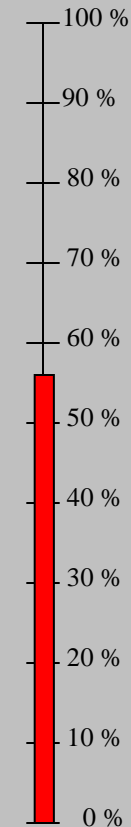
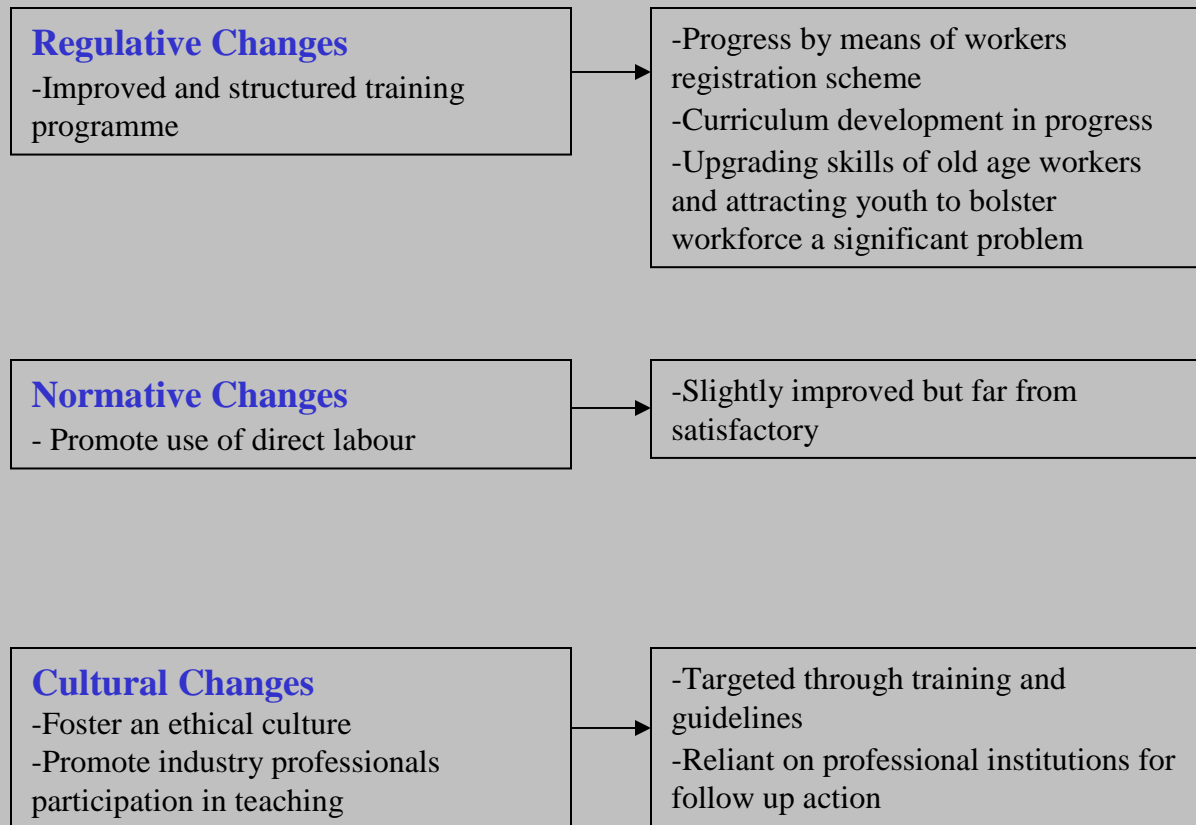
Value Through Construction Procurement



Workplace Safety & Environmentally Responsible Industry



Nurturing a Professional Workforce



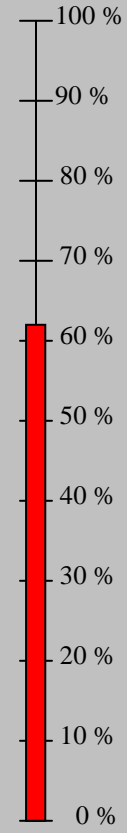
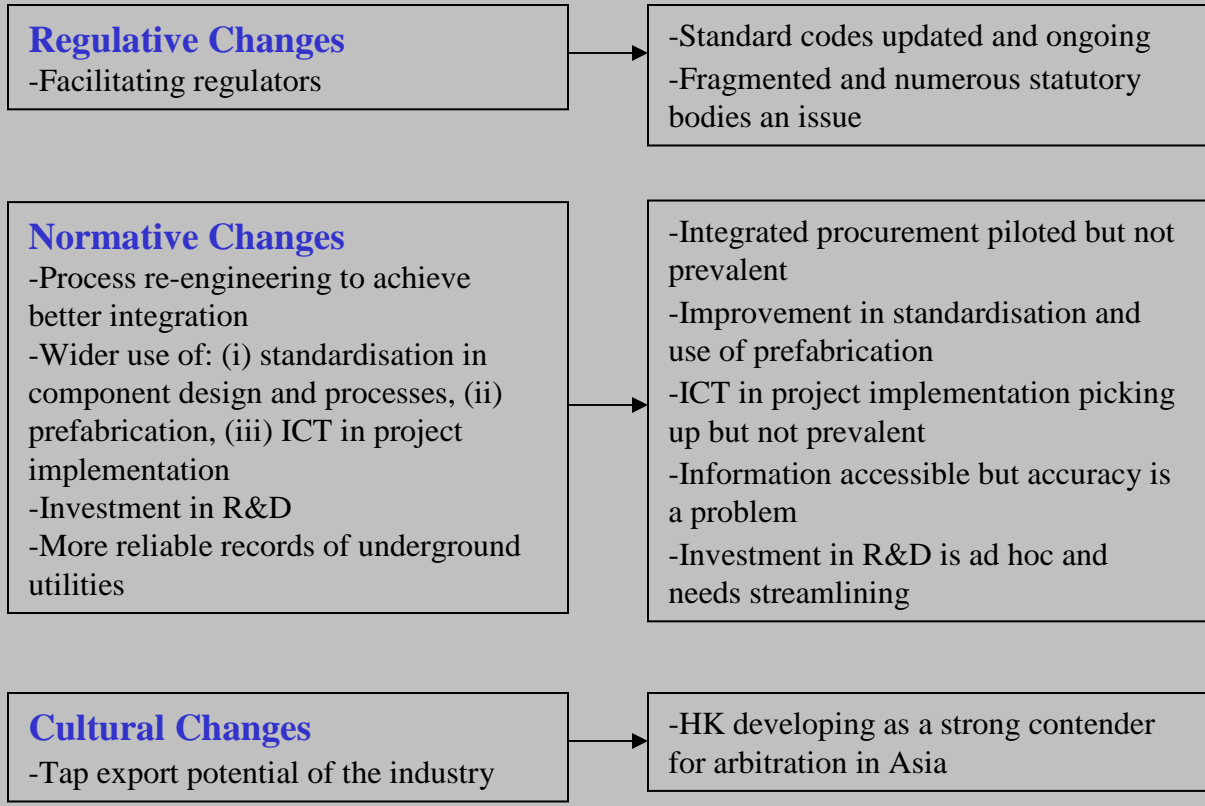
Key Challenges

- Attracting new talent into workforce
- Training cost absorption
- Aging works force

Key Drivers

- Improved image of the industry
- Incentives for upgrading skills
- On-job training

Efficient, Innovative and Productive Industry



- Key Challenges**
- Streamlining and expediting approvals
 - Upgrading workforce skill sets
 - Quality assurance in offsite manufacturing
- Key Drivers**
- Incentivising innovations
 - Streamlining R&D investments
 - Shared costs of ICT implementation

Mandatory Vs Voluntary

- Mandatory (Regulative) initiatives have found more traction and success in implementation
- Voluntary initiatives propagation through guidelines/ best practices are limited to industry leaders

Public Vs Private

- Some reforms may be easier to implement in public sector of HK (Given large share of public sector projects)
- Public sector more driven by extrinsic pressures towards reforms while private sector prefers intrinsic pressure
- Private sector (except for leading developers and contractors) is slow in picking up the initiatives

Role of Professional Institutions and Trade Assns.

- Fragmentation is still rampant; but improved with CIC as a platform
- Clear role in:
 - Reform formulation
 - Reform propagation
 - Encouraging members to buy into reforms
 - Regulating member's behaviour
- Satisfactory in participation but clear shortfalls in propagation
- Evident shortfalls in updating their charters and codes in rapidly changing industry environment and culture



Implementing Reforms in Projects, Organisations and Industry

- Easier to deliver normative and cultural changes in project environment than organizational and industry environment
 - Selling a reform is the key in organization and industry settings
 - Buying into the reform is the key in project settings
- Top-down approach suitable for capital intensive initiatives and innovations while bottom-up approach recommended for incremental changes
- Consensus and commitment is essential for industry-wide reforms

Key Concerns and Issues

- Sustainable workload
- Improved image of the industry
- Attracting new entrants to work force and upgrading skill sets of existing workforce
- Protecting local industry
- Payment guarantees (Regulating developers/ private sector)
- Speedy dispute resolution (Amendments to arbitration clause)
- Regulating renovation contractors
- Sustaining alternative procurement initiatives
- Promoting cross pollination of industry improvement initiatives

Conclusions

- Overall progress is satisfactory
- Clear shortfalls in workforce nurturing and fostering innovations
- Sustainable workload is a root cause for shortfalls
- Public sector quick on the uptake of initiatives, but short on following up
- Private sector enthusiastic, but slow in embracing cost intensive and potentially ‘risky’ changes

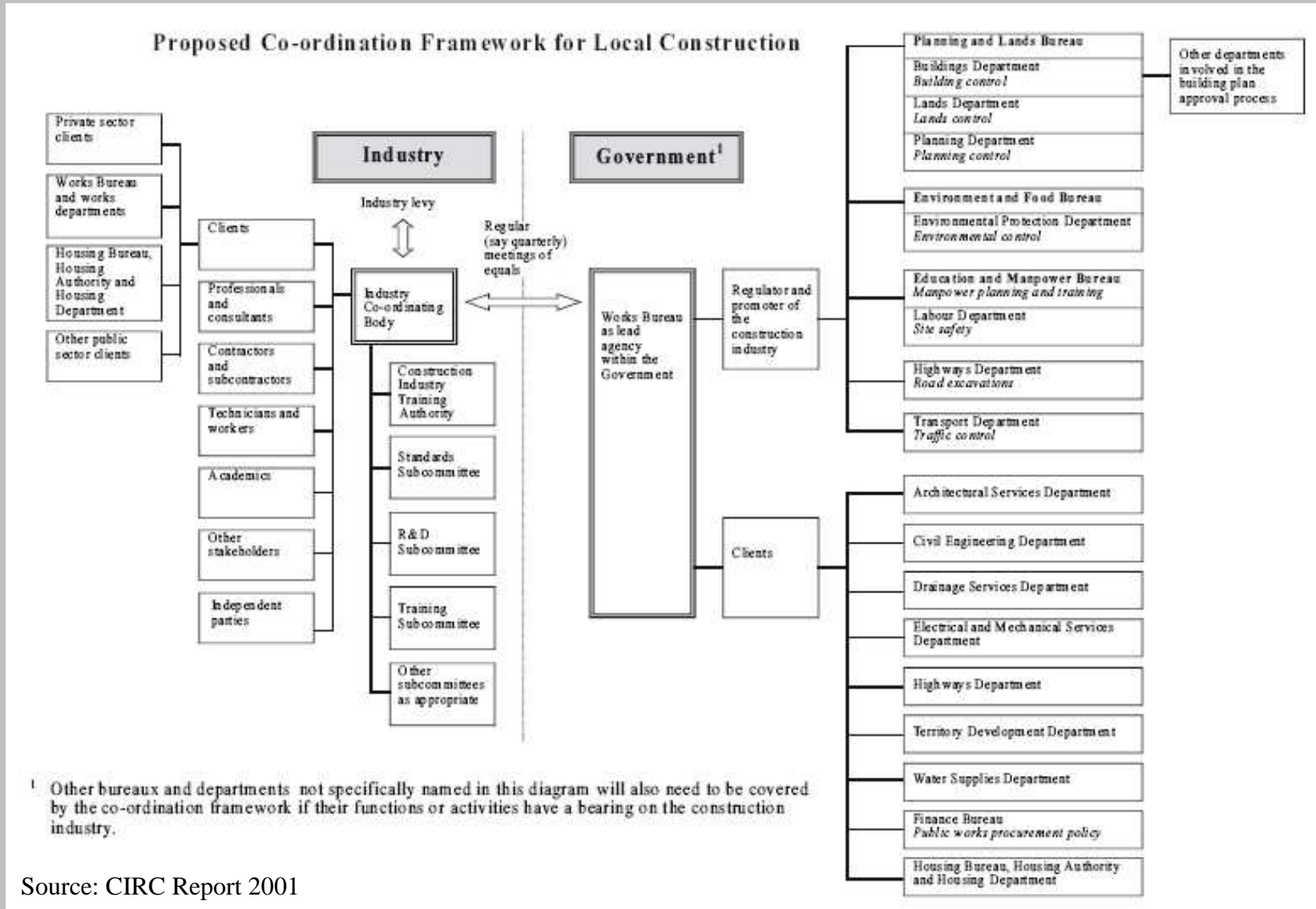
Q & A



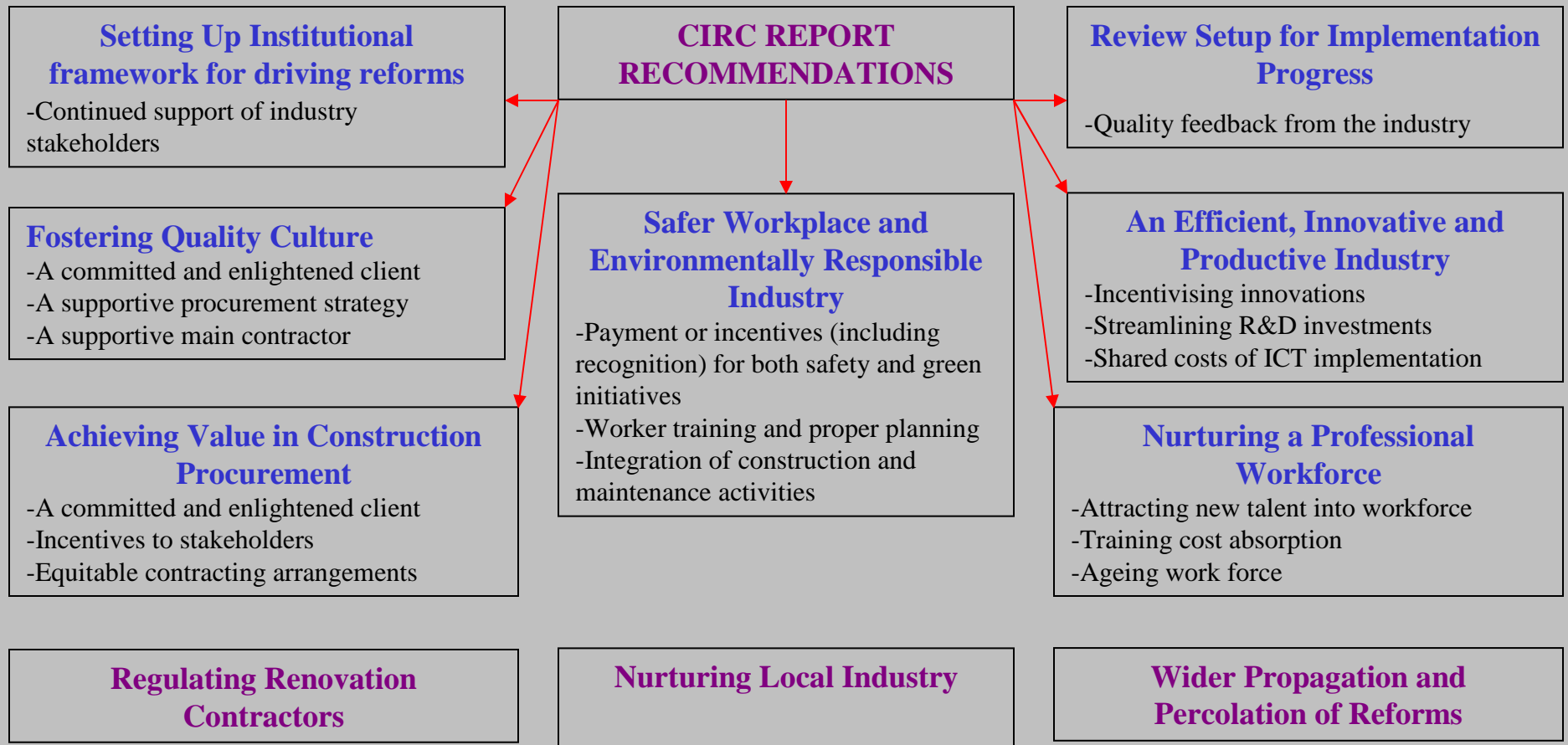
Refreshment Break



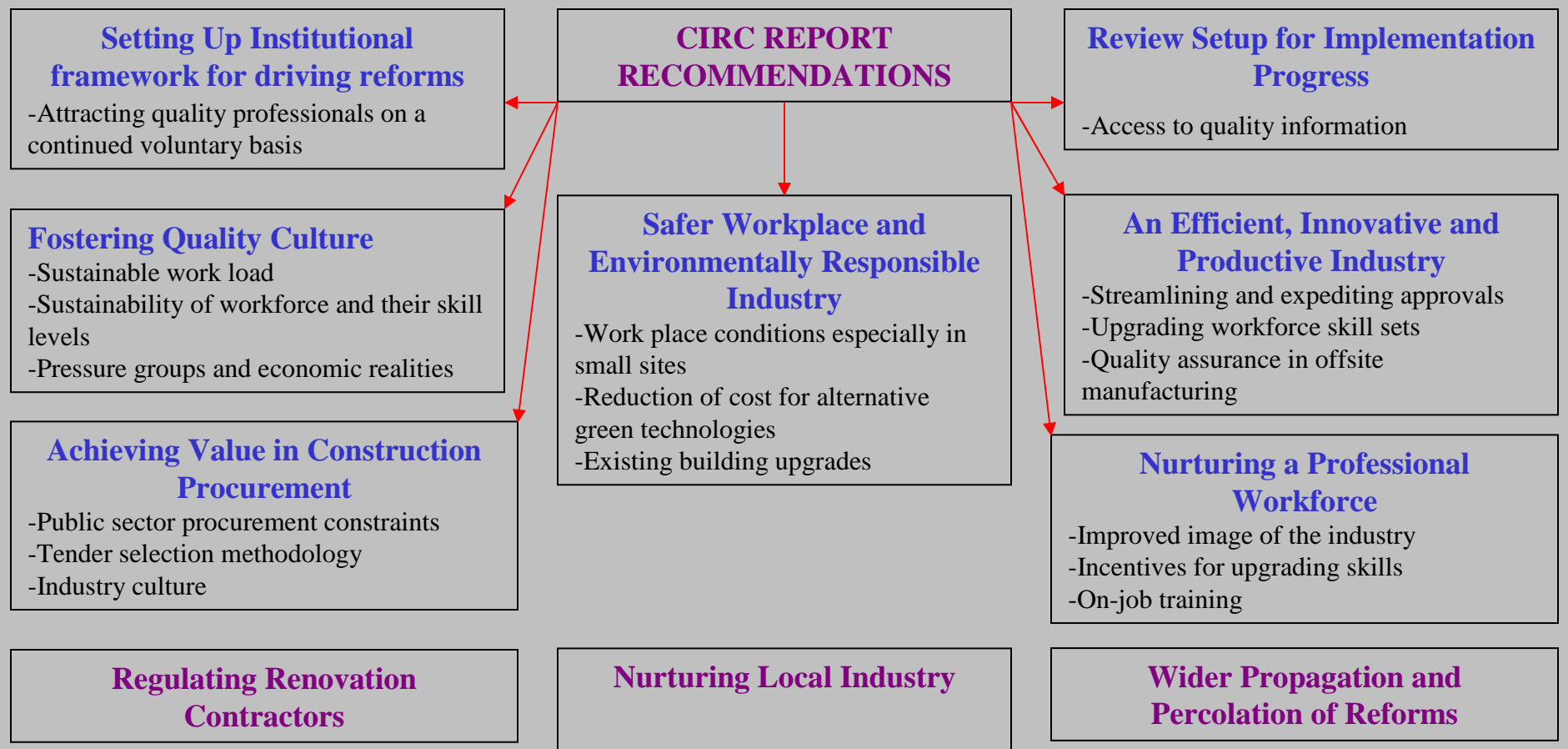
Focus 1: Institutional Framework in the Context of Reforms



Focus 2: Key Drivers of Construction Industry Reforms



Focus 3: Key Challenges to Construction Industry Reforms



Thank You

