International Urban Environmental Management Construction Projects, Success Measurement and the Challenge of Parameterizing Human Capacity Development in the 21st-Century

Chibueze Ogbonna

Babcock University, Nigeria. ogbonnac@babcock.edu.ng

CITC-14 | SEPTEMBER 2-5, 2024 HOSTED BY FEDERAL UNIVERSITY OF RIO DE JANEIRO RIO DE JANEIRO, BRAZIL



Introduction & Background

This paper highlights

- Use, and peculiarities, of international construction projects in solving 21st-century urban environmental challenges
- 21st-century as a knowledge economy
- Growing use of project work model contrasted gainst falling project success rates
- The inadequacy of existing success measurement metrics in international construction projects
- Need for success metrics that are more relevant in international construction projects



Aim, Objectives, and Scope

To highlight the

- Peculiarities of international projects
- Insufficiency/inadequacy of existing metrics for measuring project success and need for a paradigm shift
- Human capacity development (HCD) as a success metric that is new, relevant, innovative, and recipient stakeholder-sensitive and therefore needed in the longrun
- Scope- international urban environmnetal management construction projects



Research Design and Methodology

- Research Design critical literature review
- Methodology thematic survey, analysis, and critiquing of existing information on urbanization, its challenges, environmental management, construction projects, project success measurement and human capacity development.



Results (1)

- Urbanization creates environmental challenges that are accentuated in the 21st century
- Managing urban environmental challenges often invlove construction projects
- Projects are changing in nature, increasing in size, complexity, duration and metric-driven
- Major drivers of projectization: competition, regulation, environment, social changes
- International construction project peculiarities: large/huge scale, size, scope, "internationality" mix



Results (2)

- "Internationality" mix language, culture, team membership, stakeholder diversity/number, multiple site resourcing, etc.
- Project success is important, continuing and growing area of research/practice interest
- Critical contrast: increasing projectization vs. poor success rates
- Need: new/more appropriate tools; methodology flexibility, specialized success metrics
- Human capacity development (HCD) seen as one such success metric
- HCD: human abilities strengthened, created, adapted towards improving project management practice and outcomes.



Discussions, Conclusions & Recommendations (1)

- Construction projects are one way of managing urban environmental challenges
- By nature projects are changing, becoming more complex and metric-driven
- There is growing & continuing interest in properly measuring project success
- Success measurement requires new/more appropriate tools; methodology flexibility, specialized success metrics



Discussions, Conclusions & Recommendations (2)

- International construction projects are peculiar in nature and often involve specialized knowledge
- Projects are avenues for developing human capacity or knowledge which is the most important 21st-century commodity
- Recommendation: to be considered successful, international urban management construction projects should be required to additionally develop the human capacity of relevant recipient stakeholders

