BACKGROUND
- Past construction productivity studies have focused on single-factor productivity (i.e., labour productivity).
- Single-factor productivity measures have various drawbacks (i.e., an inability to consider the impact of technological and price changes).
- Limitations can be overcome by considering total productivity (takes into account all major inputs in the production process).
- Meaningful measures for overall project success and for effectiveness in utilization of resources can be attained by considering all quantifiable productivity measurement inputs.

OBJECTIVES
- Perform a comprehensive review of existing productivity measurement studies that investigate overall productivity in construction projects.
- Propose measurement metrics that can be used to measure the overall productivity of construction projects by considering the joint impact of all input resources.
- Prepare a practical and detailed framework for measuring productivity at the project level.
- Investigate the applicability of the developed metrics to the construction industry.

DEVELOPMENT OF MEASUREMENT FRAMEWORK

INDUSTRY APPLICATIONS AND BENEFITS
- Provides a framework for overall productivity measurement.
- Highlights overall efficiency in the use of all key input resources.
- Provides a meaningful measure of project performance.