# 2. [BENCHMARKING PRODUCTIVITY SUMMARY REPORT](https://www.construction-institute.org/productivity-benchmarking-summary-report)

**Report Summary:** This report provides a summary of the breakthrough approach that CII has developed to benchmark engineering and construction productivity. CII has instituted a secure and robust online system to help users benchmark their productivity— streamlining each step of the process, from data entry to report generation. Preliminary analyses have been presented here to illustrate the great potential uses of the productivity database and to help users better understand productivity benchmarking.

The CII productivity benchmarking program gives users the ability to benchmark productivity and, most importantly, it allows them to drive improvement in their work processes. It does this in the following ways:

1. It assists companies/projects in setting project objectives for future assessment through the data mining tool.
2. It helps benchmarking participants identify productivity problems on their projects through the key reports.
3. It provides data analyses to help benchmarking participants understand the relationship between their work processes and productivity.

Ultimately, through benchmarking, companies/projects can implement best practices and change their work processes to improve engineering and construction productivity. Overall, the CII productivity benchmarking team will continue to promote the participation of productivity benchmarking and to enlarge the database. The team is now able to refine the metrics to accommodate non-industrial projects if participants from building or infrastructure sectors think it is necessary.

**Key Takeaways:**

## (1) Assist companies/projects in setting project objectives for future assessment using the data mining tool.

## (Project Phase: Detailed Scope through Operate Facility)

* Define clear productivity metrics that are aligned with project goals to enable accurate benchmarking and tracking.
* Establish data collection protocols to gather relevant productivity data throughout the project phases.
* Set target benchmarks for productivity based on industry standards and comparable projects.
* Use the data mining tool to analyze past project performance and identify improvement areas.
* Regularly review and adjust objectives based on evolving project conditions and productivity insights.

## (2) Help participants of the benchmarking effort to identify productivity problems on their projects through the use of key reports.

## (Project Phase: Detailed Scope through Operate Facility)

* Review key report quartiles to pinpoint areas with low productivity relative to comparable projects.
* Analyze the percentile bars in the key reports to determine specific productivity metrics that fall below industry standards.
* Identify recurring productivity bottlenecks across project phases using aggregated key report data.
* Focus on metrics in the lowest quartile to address critical productivity weaknesses that negatively impact project outcomes.
* Compare project performance against similar project types to refine productivity improvement strategies.

## (3) Provide data analysis results to help participants of the benchmarking effort understand the relationship between their work processes and productivity.

## (Project Phase: Detailed Scope through Operate Facility)

* Conduct comparative analyses between the work processes and productivity metrics to highlight impactful activities.
* Identify specific work processes that are associated with high and low productivity to guide targeted improvements.
* Use data visualizations to show ways that process adjustments affect productivity outcomes.
* Benchmark productivity across similar projects to reveal process-driven productivity variations.
* Review process inefficiencies in low-productivity areas and suggest best practices to enhance performance.