



# **Knowledge Base** *from CII*

A Guide to Using CII's  
Reinvented Knowledge  
Base Portals



# The Knowledge Base is a searchable, easy to use compilation of CII's capital project research

Our new, “reinvented” site is designed to be a rich, engaging interface that encourages exploration, discovery, and learning. There are six Knowledge Base Portals, plus advanced search options.

## Portal 1

## Knowledge Areas

### Knowledge Areas Portal:

This new structure represents categories to provide a relevant, updated framework for the organization of CII's research, tools, and key findings in the New Knowledge Base.

Once the user selects the Knowledge Area, they will find an Integrated Knowledge Summary that includes the definition and the value proposition.

Each Knowledge Area provides the number of Topic Summaries that are available in each Knowledge Area category.

On the right, links are provided to the other portals if visitors decide they want to explore another portal.

### Topic Summary:

The Topic Summary provides an important bridge for visitors to determine if they would like to explore the topic further, or, if the topic isn't what they are looking for, allowing them to quickly navigate on to results that are more germane to what the visitor is seeking.

The Topic Summary provides a quick overview of the research, presents key findings with charts and graphs from the research publications, and links to the publications produced by the team, as well as conference presentations.

If you don't see quite what you are looking for, then you can click on the Tags to go to related category areas in the Knowledge Base, or, on the Keywords to initiate an advanced keyword search across the whole Knowledge Base.

You can also dig a little deeper by clicking on the View Details link on one of the research publications for more information. From here, members can directly download publications.



*"The CII Knowledge Base highlights the key findings and essential tools that drive project predictability and business value. Now, members and industry participants can go online and quickly discover project practices of highest priority to them without needing to read 300 page reports. Going forward, the Knowledge Base provides the foundation for CII to develop tools and resources for specific industries and project types."*

**– Dr. Stephen P. Mulva**  
**Director CII**

The screenshot shows the CII Knowledge Base website. At the top, there is a navigation bar with links to 'Visit the CII Website' and 'About the Knowledge Base', a search bar, and a 'Login' button. The main header features the 'Knowledge Base from CII' logo. Below this, the title 'Knowledge Areas' is prominently displayed, followed by a descriptive paragraph: 'The CII Knowledge Structure organizes the overall body of CII knowledge into common categories of research. It provides an easy mechanism for finding and using CII products.' A breadcrumb trail indicates 'Home > Knowledge Areas'. A central instruction reads 'Click or tap on a card below to explore a Knowledge Area.' Below this, there is a grid of 12 knowledge area cards, each with a title, a description of the research team's contribution, and a link to topic summaries. To the right of the grid, there are two sidebars. The first sidebar, titled 'Portals', lists links to 'Knowledge Areas', 'Project Phases', 'Project Functions or Roles', '10-10 Metrics', 'Best Practices', and 'Home', along with a 'More filter options' button. The second sidebar, titled 'Knowledge Areas', provides links to 'About the Knowledge Base', 'Topic Summary', 'Walkthrough Video', 'Knowledge Area Definitions', and 'Glossary'.

Visit the CII Website | About the Knowledge Base

Search the Knowledge Base

Login

# Knowledge Base from CII

## Knowledge Areas

The CII Knowledge Structure organizes the overall body of CII knowledge into common categories of research. It provides an easy mechanism for finding and using CII products.

Home > Knowledge Areas

Click or tap on a card below to explore a Knowledge Area.

Knowledge Area	Research Team	Topic Summaries
Business and Project Processes	24 Research Team	Topic Summaries
Commissioning and Startup	3 Research Team	Topic Summaries
Construction Execution	13 Research Team	Topic Summaries
Construction Technology	13 Research Team	Topic Summaries
Design Planning & Optimization	13 Research Team	Topic Summaries
General CII Information	4 Research Team	Topic Summaries
Human Resource Management	12 Research Team	Topic Summaries
Information Management Technology	12 Research Team	Topic Summaries
Materials Management	2 Research Team	Topic Summaries
Modularization	5 Research Team	Topic Summaries
Performance Assessment	8 Research Team	Topic Summaries
Procurement & Contracts	9 Research Team	Topic Summaries

**Portals**

- Knowledge Areas
- Project Phases
- Project Functions or Roles
- 10-10 Metrics
- Best Practices
- Home

More filter options

**Knowledge Areas**

- About the Knowledge Base
- Topic Summary
- Walkthrough Video
- Knowledge Area Definitions
- Glossary



## Portal 2

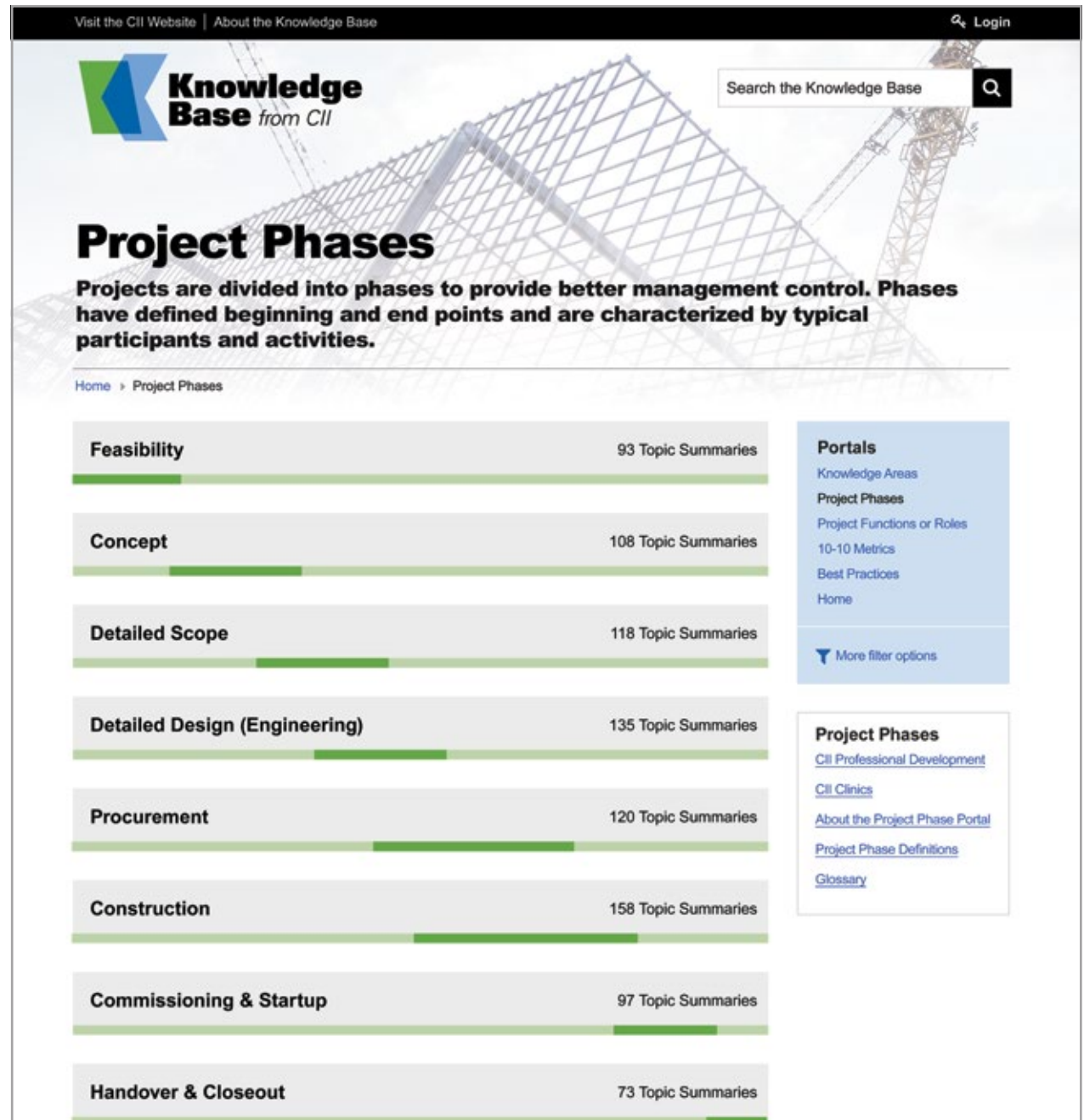
# Project Phases

In addition to navigating the Knowledge Base through the Knowledge Areas portal, other search options are also available. Instead of being grouped by Knowledge Area, the Project Phases portal groups research topics by their association to phases in a capital construction project. In this portal, there are eight phases.

On each bar, the number of topic summaries associated with that phase are shown and when the bar is clicked, the topic summaries are revealed.

If you want to move laterally to a different phase within the Project Phase portal, just click on your selected Phase in the navigation box on the right.

Did you know the KB PDRI Tools – can have a benefit/cost ratio of \$25/\$1?



## Portal 3

# Project Functions or Roles

The Project Functions or Roles Portal provides a window into CII research that has never been available before. Now, practitioners can select a project function or role that they are interested in and explore the Knowledge Base for solutions and practices that they need on the job.

## Portal 4

# Best Practices

In addition to clicking on the home page to navigate CII's Knowledge Base, users can access a different portal by clicking on the portal navigation on the right hand side of the page. For example, the Best Practices Portal allows a visitor to explore the Knowledge Base by CII Best Practices. Here, you'll also find a cross-filter by phase.

Therefore, for the Change Management Best Practice, you could click to look at all the Topic Summaries related to that Best Practice, or click on the Alignment Best Practice and filter by the Procurement Phase.

Visit the CII Website | About the Knowledge Base

Search the Knowledge Base

Login

## Knowledge Base from CII

### Best Practices

**A CII Best Practice is a process or method that, when executed effectively, leads to enhanced project performance. CII Best Practices have been proven through extensive industry use and/or validation.**

Home > Best Practices

**Click or tap on a Best Practice below to begin. Each Best Practice listing provides a secondary filter to narrow down results by project phase.**

**Advanced Work Packaging**

**Alignment**

The condition where appropriate project participants are working within acceptable tolerances to develop and meet a uniformly defined and understood set of project objectives.

**All Alignment Topic Summaries (3)**

- Feasibility (2)
- Concept (3)
- Detailed Scope (3)
- Detailed Design (Engineering) (2)
- Procurement (2)
- Construction (2)
- Commission & Startup (2)
- Handover & Close-out (2)

**Benchmarking & Metrics**

**Change Management**

**Constructability**

**Disputes Prevention & Resolution**

**Portals**

- Knowledge Areas
- Project Phases
- Project Functions or Roles
- 10-10 Metrics
- Best Practices
- Home

More filter options

**Best Practices**

- [Best Practices Program](#)
- [CII Best Practices Guide:](#)
- [Improving Project Performance, Version 4.0](#)
- [CII Clinics](#)
- [RT-166 Barriers to Implementation](#)
- [About the Best Practices](#)
- [Portal](#)
- [Best Practices Definitions](#)
- [Glossary](#)

The CII Knowledge Base adds value to Change Management Practices – 11.4% cost growth improvement.



## Portal 5

# 10-10 Metrics

The 10-10 metrics portal provides an important linkage with the CII Performance Assessment System. The purpose of the CII Performance Assessment System is to provide objective measurement of capital project execution.

The 10-10 system can provide ongoing project diagnostic information so that practitioners can identify problems and take corrective action to improve ongoing projects. The 10-10 Portal was designed to provide a drilldown of the most relevant tools to address the issues identified by the performance assessment 10-10 system.

The 10-10 portal offers the visitor the opportunity to select one of 10 Performance input measures and cross filter them with the performance assessment project phases. As categories are selected, a real-time indicator shows how many topic summaries are available that address issues for the selected criteria. Once the results are narrowed down appropriately, the Topic Summaries with the best implementation tools, key findings, and key performance indicators are just a click away.

The CII Knowledge Base provides a wealth of value. Did you know that Materials Management – can provide a cost savings of 4-8%?



# More Filter Options

The More Filters Options Portal allows you create your own combinations of Knowledge Base categories. For example, you may want to pick a Knowledge Area and a Project Phase, thus creating your own custom results. As categories are selected, a real-time indicator shows how many topic summaries are available. Simply change the criteria and view the

Knowledge Base in whatever way is most meaningful to you.

## Additional Features

### Advanced Keyword Search

The Keyword search is unique from the six Knowledge Base portals in that it offers free text search capability, independent of the pre-defined Knowledge Base categories. Use the search box to thoroughly explore the website and publications through key words or phrases that you are interested in finding more about.

### About the KB

However, if you still feel like you need a little more information, click on the "About the Knowledge Base" box. Here you will find a complete walk through video that will show you how to navigate the site in detail. You will also find a link to our member testimonials. <https://kb.construction-institute.org/About-the-Knowledge-Base>

### What's New?

The What's New page will list all the new publications, topic summaries and presentations that have been posted. Come back often and see what's new! <https://kb.construction-institute.org/What's-New>

### Mobile Friendly

The reinvented Knowledge Base is also mobile friendly. Every page is designed to resize dynamically to whatever screen size you are using to visit, whether it is your phone, tablet or laptop. Full functionality is available in all platforms.

### Knowledge Base Glossary

The construction industry employs many terms across different sectors. If you find a term that you are not familiar with, click on the knowledge Base glossary for definitions. <https://kb.construction-institute.org/Knowledge-Base-Glossary>

### Need Assistance?

Our team at CII is available to assist with your navigation experience. Please send an email to [UserSupport@cii.utexas.edu](mailto:UserSupport@cii.utexas.edu) and someone will respond within the next business day.



# Knowledge Base *from CII*



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