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Introducing:



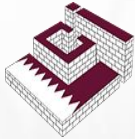
18 – 21 FEBRUARY 2023

RIYADH FRONT EXHIBITION AND
CONFERENCE CENTER (RFECC)

Opportunity Calls: Lean Construction in KSA

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Program Manager, QPM
Executive Director – Operations, LCI-Qatar

قطر لإدارة المشاريع



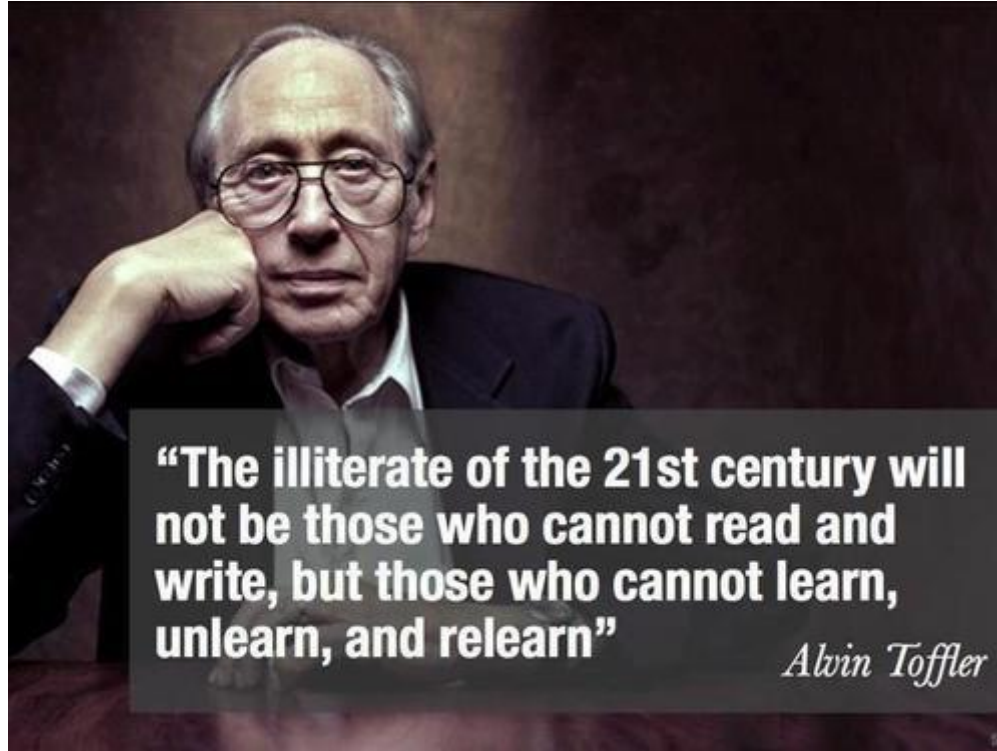
Lean Construction
Institute - Qatar
Transforming the Built Environment

February 21, 2023

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Inspiring Quote



“The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn”

Alvin Toffler

Agenda / Objectives



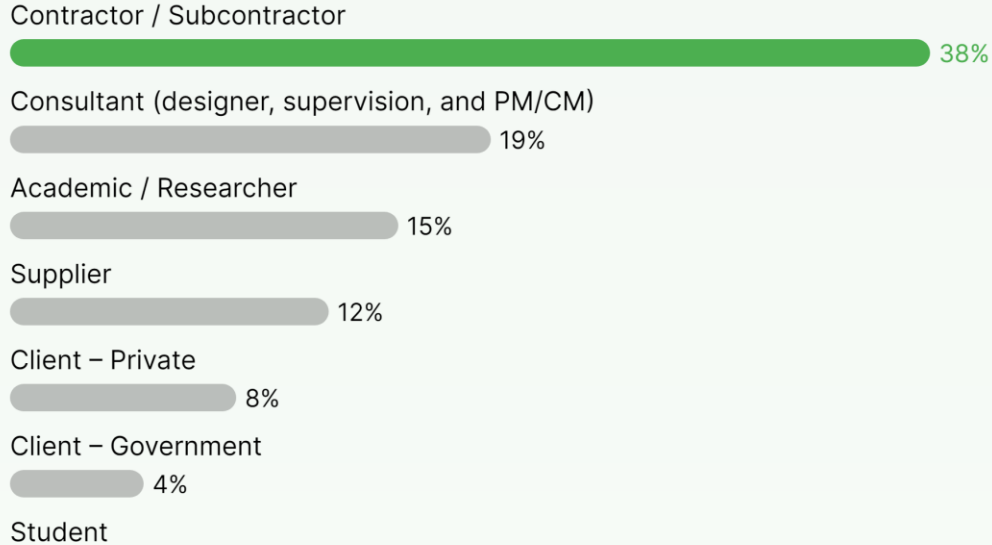
Agenda	Objectives
<ul style="list-style-type: none">• Acknowledge our problems in Construction Industry	<ul style="list-style-type: none">• Think Differently (Lean Thinking)• Identify the gap
<ul style="list-style-type: none">• Introduce Lean Construction	<ul style="list-style-type: none">• The Solution
<ul style="list-style-type: none">• Invitation to continue / Start Lean Journey• Why Lean? Why now?• Conclusion• Q&A	<ul style="list-style-type: none">• Create an incentive to initiate / continue a Lean journey in your project(s) or organization• Establish a demand for Lean education and research



☰ Active poll

26 👤

What's your role?



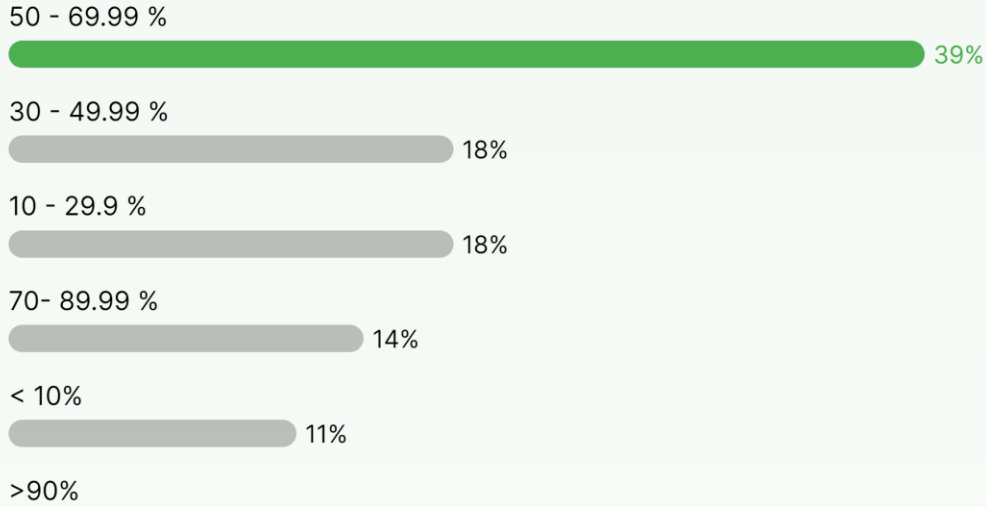
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What the percentage of projects meet time and cost targets as originally planned?

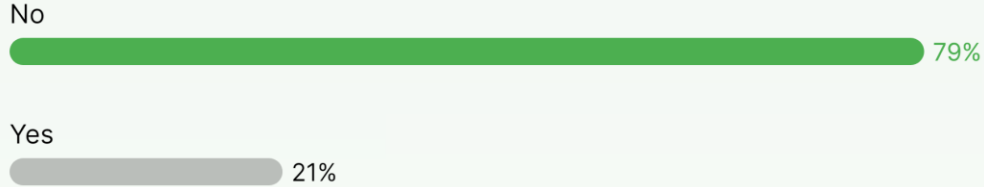


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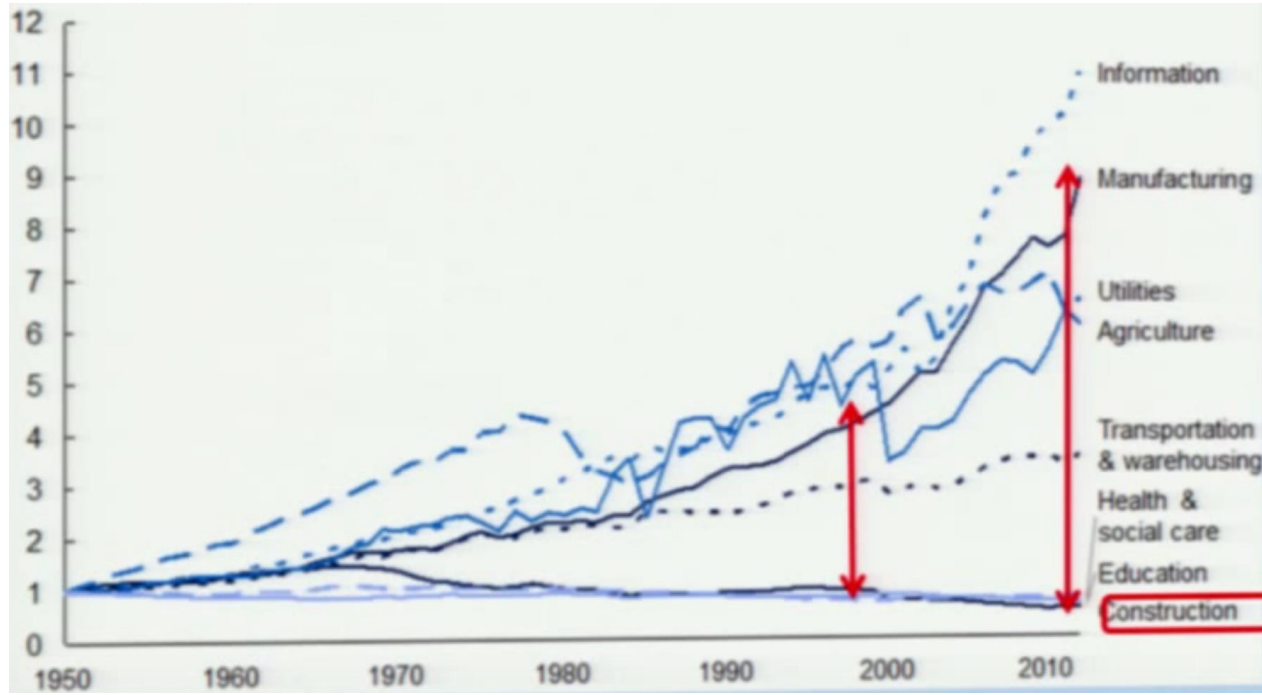
Are you satisfied with the available tools and techniques to manage and execute projects?



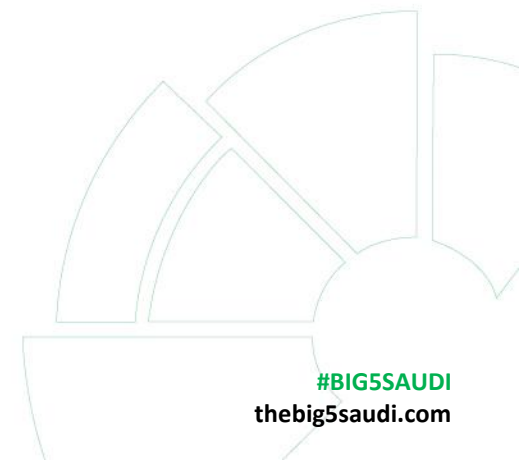
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The Problem – 1) Poor Productivity



Productivity by industry in the US (indexed; 1.0 = 1950)

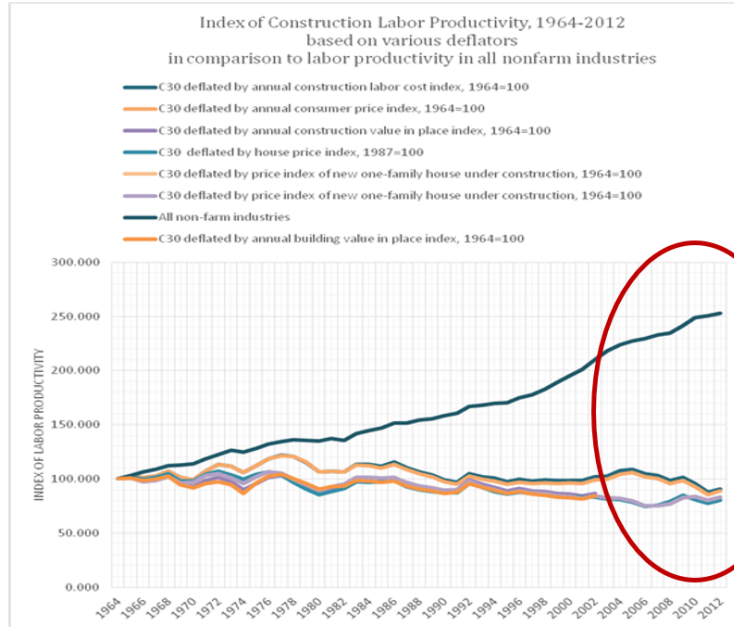


The Problem – 1) Poor Productivity

Continuing to Underperform



Paul Teicholz
article
updated,
March 14,
2013



Labor-Productivity Declines in the Construction Industry: Causes and Remedies (Teicholz, 2013)



The Problem – 1) Poor Productivity



@Getty Images/Mel Melcon

Executive summary

Construction, which encompasses real estate, infrastructure, and industrial structures, is the largest industry in the global economy, accounting for **13 percent of the world's GDP**. A closer look at its underlying performance highlights the industry's challenges in good economic times, let alone in times of crisis. We expect a set of nine shifts to radically change the way construction is done. Companies that can adjust their business models stand to benefit handsomely, while others may struggle to survive.

Historically, the construction industry has underperformed

Construction is responsible for a wide range of impressive accomplishments, from stunning cityscapes and foundational infrastructure on a massive scale to sustained innovation. However, in the past couple of decades, it also has been plagued by dismal performance.

Annual **productivity growth** over the past 20 years was only a third of total economy averages. Risk aversion and **fragmentation** as well as difficulties in attracting digital talent slow down innovation. **Digitalization** is lower than in nearly any other industry. **Profitability is low**, at around 5 percent EBIT margin, despite high risks and many insolvencies. **Customer satisfaction** is hampered by **regular time and budget overruns** and lengthy **claims procedures**.



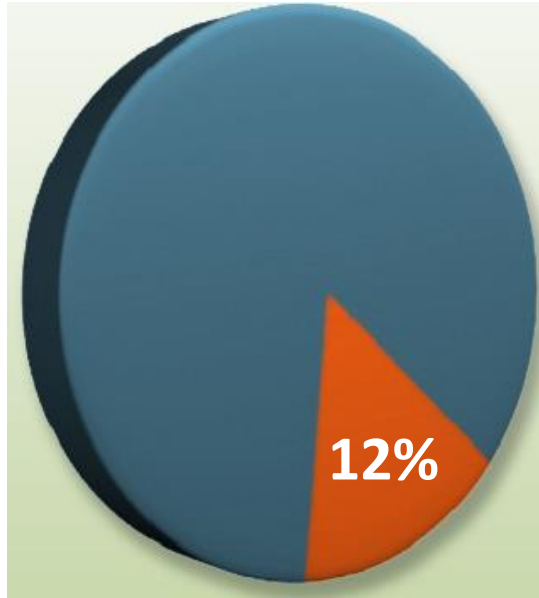
@Getty Images/Jung Getty

1 Historically, the construction industry has underperformed

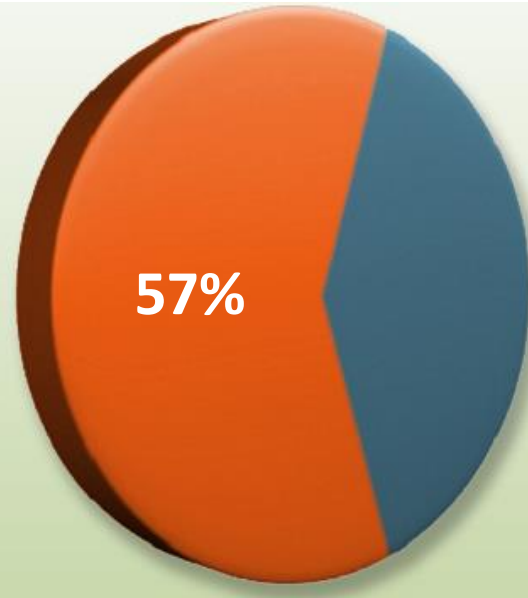
The Next Normal in Construction (McKinsey & Company, 2020)

The Problem – 2) Waste

Manufacturing

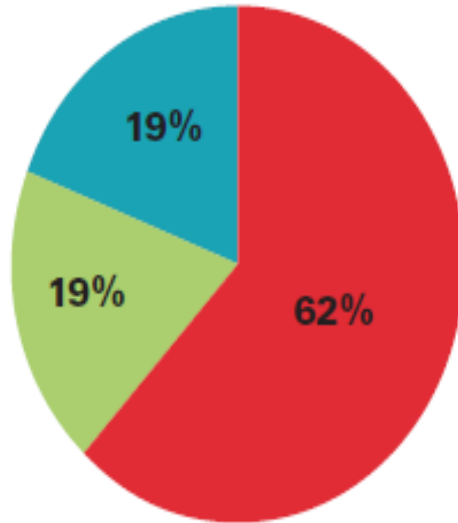


Construction

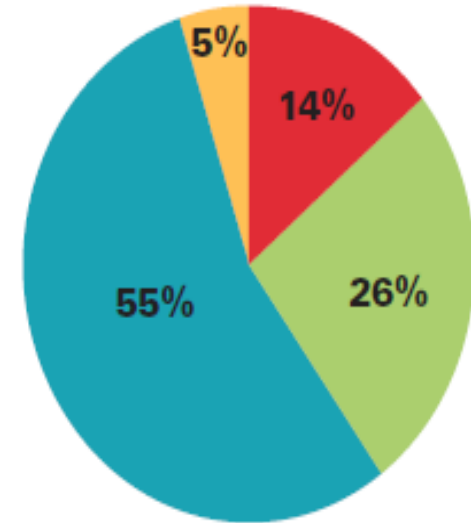


The Problem – 3) Inefficiency

Lean Practicioners



Non-Practitioners



- Inefficient/Highly Inefficient
- Neutral
- Efficient/Highly Efficient
- Not Sure

The Problem With Construction Today



Injuries are too high



Rework and wastes are high



productivity is declining



Construction costs are skyrocketing
→ Profit margins are shrinking



The solution – Different Thinking

Lean Thinking



(Breakthrough Learning)



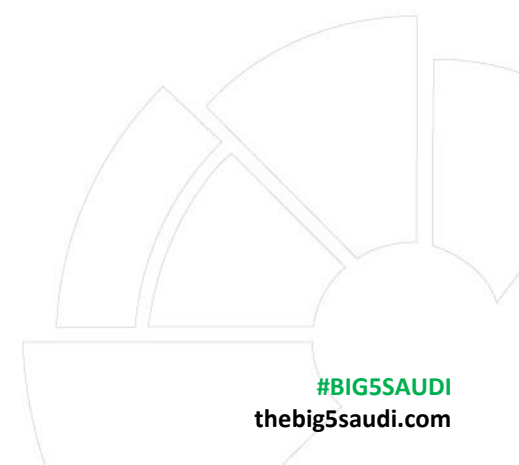
Different Outcome =>
Change Action

(Incremental Learning)

The solution – What is Lean Construction?

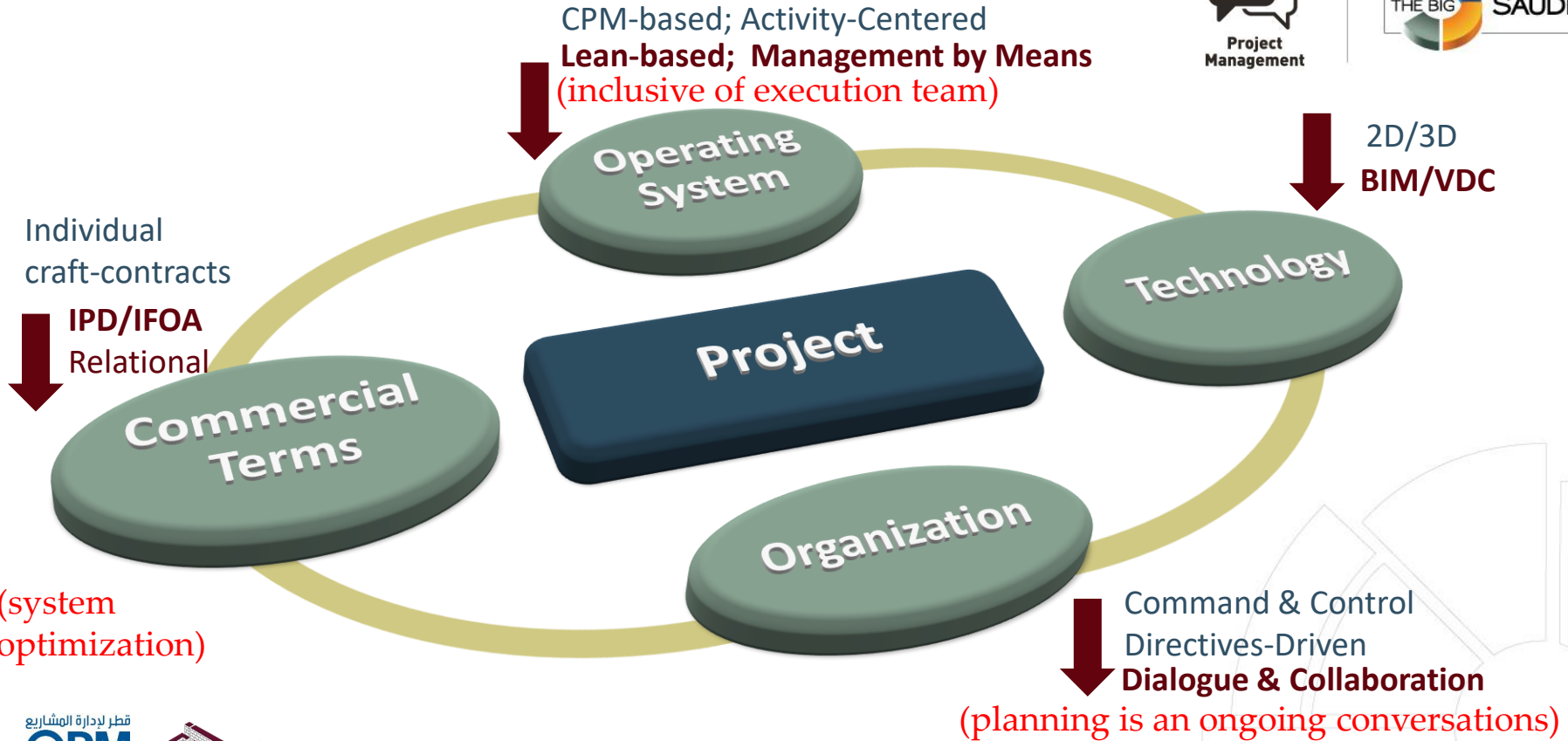


Transforming Design and Construction (LCI, 2016)

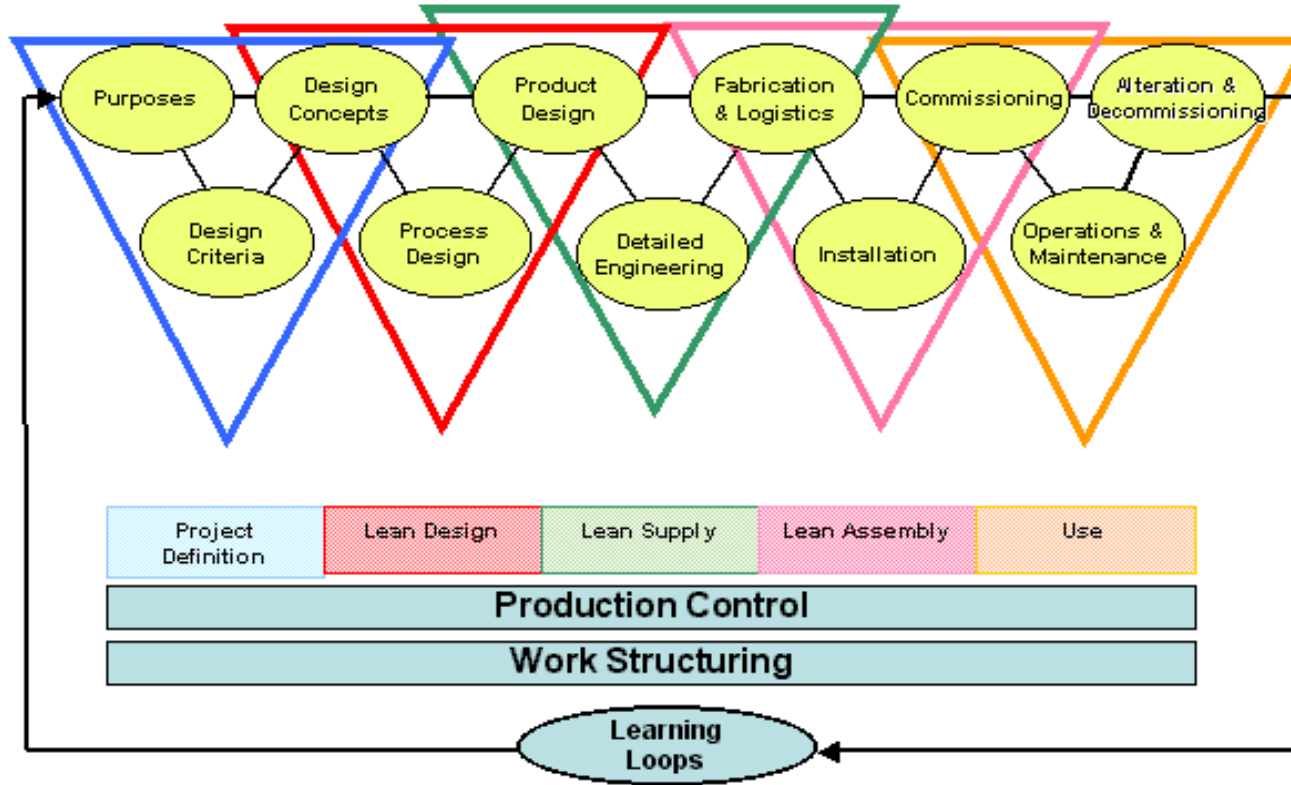


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Domains of Project Delivery



LEAN PROJECT DELIVERY SYSTEM (LPDS)



Why Do we need Lean?



- Deliver Reliably
- Improve Productivity
- Increase Efficiency
- Work Safer
- Achieve Client's Satisfaction

How?



- Acknowledge the problem
- Think Differently
- Modern Techniques
- Accept the Change

Why Now?



- **\$1.1 Trillion**



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Conclusion



**We have to change what we
do to get different results**

Upcoming Events



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Qatar Deserves The Best

UPCOMING EVENTS

Target Value Delivery of Building Projects



Dr. Glenn Ballard

Research Director, P2SL
University of California, Berkeley

March 1, 2023 | 7:00 - 8:30 pm via **zoom**

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UPCOMING EVENTS

LEAN CONSTRUCTION EDUCATION PROGRAM

Improving the Project Delivery Process



Ben Shideler
P.Eng, CM Lean

CM-LEAN
CERTIFICATE OF
MANAGEMENT
LEAN CONSTRUCTION



Unit	Date	Time	CEUs
1-2	Mar 6 & 7	1:30 - 5:30 PM	8
3-4	Mar 8 & 9	1:30 - 5:30 PM	8
5	Mar 13 & 14	1:30 - 5:30 PM	8
6	Mar 15	1:30 - 5:30 PM	4
7	Mar 16	1:30 - 8:30 PM	7

The price includes printed book

Obtain CM-Lean Credential Exams are offered regularly at Qatar University and PWA

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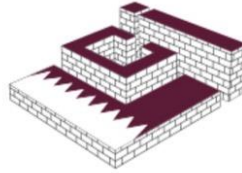


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LEAN?

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