INTEGRATED PROJECT DELIVERY
IPD

PANEL DISCUSSION
Chair: Frank Shadpour, PE
INTEGRATED PROJECT DELIVERY

- Program Chair: Frank Shadpour

- Interview: David Umstot

- Panelists: Rich Burkhart & Michael Edwards
What is IPD?

IPD is an approach that integrates people, systems, and practices into a process to reduce waste and optimize efficiency through all phases of design, and construction culminating in high-performance and sustainable buildings.
PRODUCTIVITY INDEX

All non-farming industries

Construction Industry

+1.77% per year

-0.57% per year

US Dept. of Labor Statistics
WHAT IS CUSTOMER VALUE?

“Customers pay only for what is of use to them and gives them value. Nothing else constitutes quality.”

-Peter Drucker
How much value the customer receives?

- Wastage or theft: 3%
- Accidents: 3%
- Punch list work: 3%
- Late or inaccurate information: 5%
- Waiting on instructions: 6%
- Late starts and early quits: 6%
- Multiple material handling: 6%
- Waiting for resources: 14%
- Re-do work: 2%
- Substance abuse: 2%

Value: 50%

Source: Dr. Jim Adrian’s Construction Productivity Newsletter, Bradley University
Customer Value & Lean Thinking
“Insanity is doing the same thing over & over, expecting a different result.”

– Albert Einstein
FRANK SHADPOUR, P.E., LEED AP
ASHRAE FELLOW

SC Engineers, President
ASHRAE Fellow
Instructor - UCSD
USC Graduate
Author: “Fundamentals of HVAC DDC”
frank@scengineers.net
858.946.0333