

The background of the slide is a silhouette of a construction site at dusk or dawn. The sky is a warm, hazy orange. In the foreground, several construction workers are silhouetted against the light, working on a structure. A large crane is visible in the background, and the overall scene is one of active construction.

Construction Owners Association of Alberta Best Practices Conference XIX May 17 & 18, 2011



Construction Industry Performance

Stephen Revay

Co-Chair, Benchmarking Committee

Vice President, Western Region
Revay and Associates Limited

Larry Sondrol

Co-Chair, Benchmarking Committee

Manager, Project Controls
Suncor Energy Services Inc.





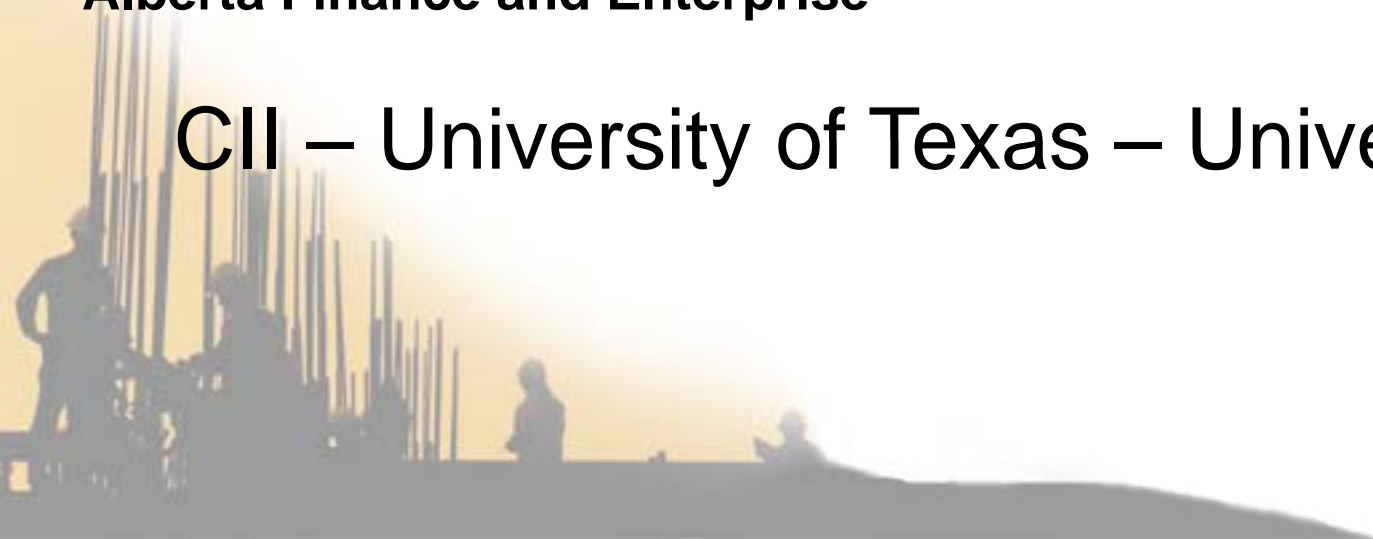
Benchmarking

Government / Industry / Academia Partnership

Patricia Armitage, M.Eng., P.Eng.
Director, Architecture/Engineering/Construction
Industry Development Branch
Alberta Finance and Enterprise

Larry Sondrol
Stephen Revay
COAA Co-Chairs
Benchmarking Committee

CII – University of Texas – University of Calgary



AGENDA

- Benchmarking Phase 2
- Initiating Productivity Committee
- NSERC Grant





PHASE 2 ROLLOUT

- Benchmarking Training Yesterday
- Workshop 12:45 – 2:15
- New questionnaires on web site
- Ready to collect data





PHASE 2 ROLLOUT

NextGen Benchmarking System

- 24/7 Data mining
- Access to more information
- Expanded and refined Key Report





PHASE 2 ROLLOUT

Learning's from Phase 1

- Drilling down on certain metrics (indirect costs— scaffolding - Productivity at Fabrication Yard
- Construction Productivity Metrics Revisions (e.g., Instrumentation)

PHASE 2 ROLLOUT

NEW

- Adding Metrics for Pipelines
- Support from the University of Calgary



Benchmarking Questions

1) Does your firm partake in any Benchmarking efforts?

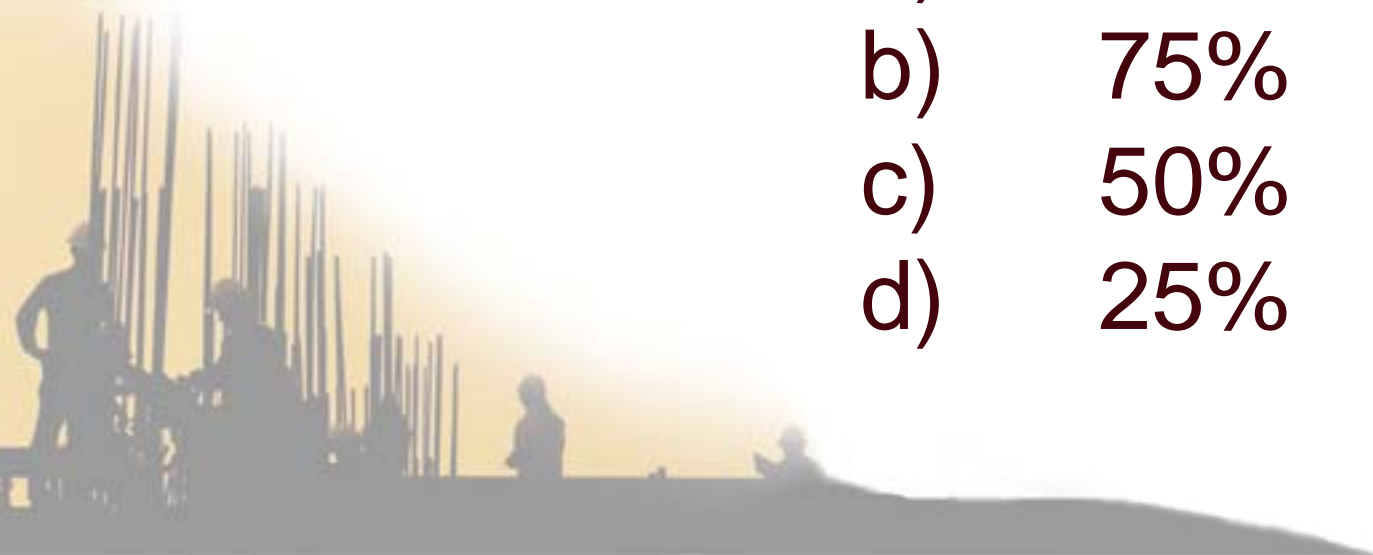
- a) Yes both internal and external
- b) Yes only external
- c) Yes only internal
- d) No



Question 2

2) In phase II of the COAA major projects benchmarking initiative, my company plans to input _____% of our projects completing by winter 2012?

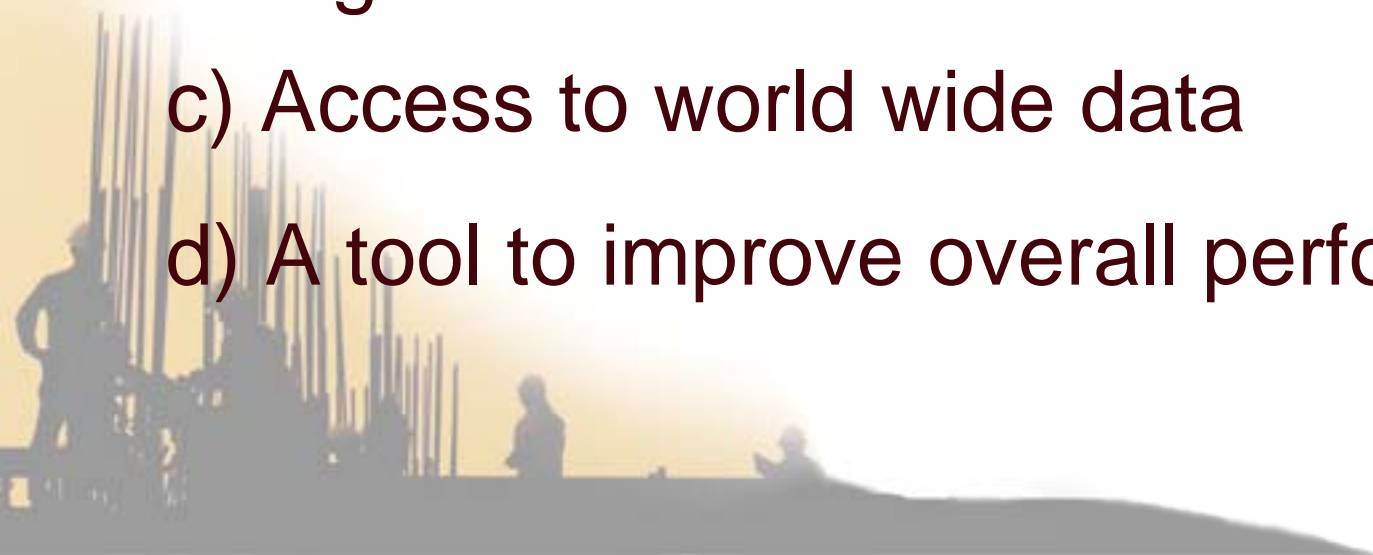
- a) 100%
- b) 75%
- c) 50%
- d) 25%



Question 3

3) What are the most important benchmarking benefits to your firm?

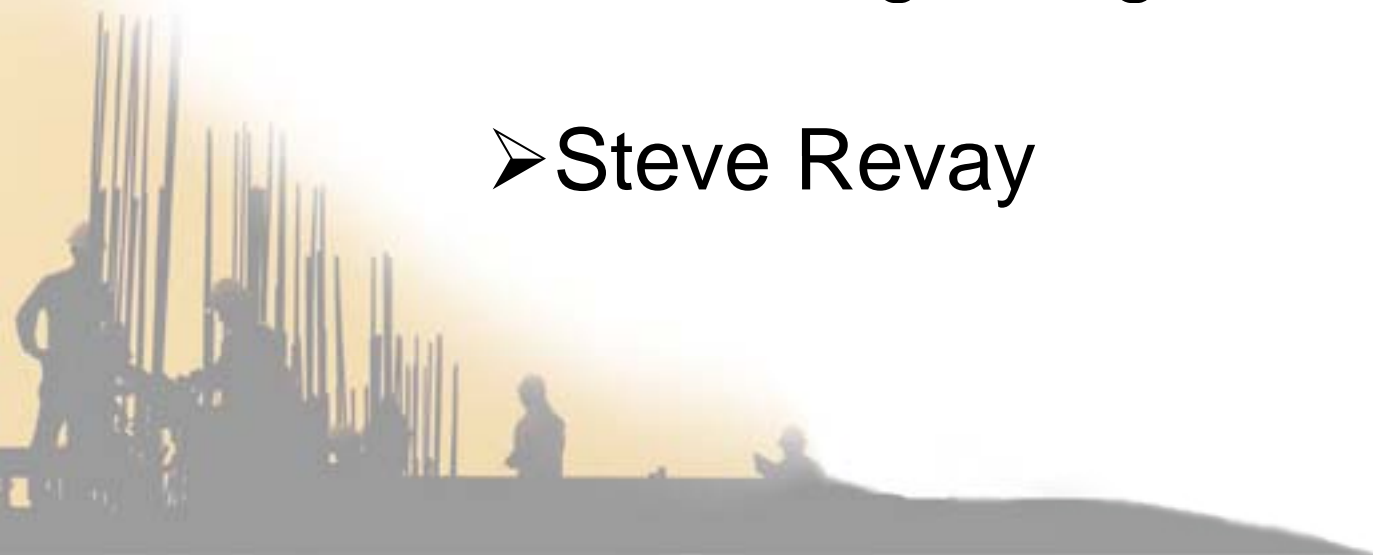
- a) Data provides a reality check on internal estimating
- b) Can check performance and internal and against others
- c) Access to world wide data
- d) A tool to improve overall performance



Productivity Initiative

Co-Chairs

- Dr. George Jergeas
- Steve Revay



Productivity Initiative

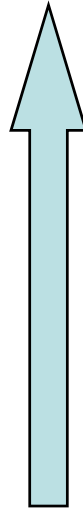
Mandate

Productivity 

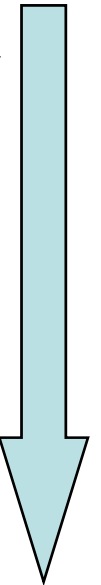


Productivity Initiative

PRODUCTION



PRODUCTIVITY



**ACCELERATION: INCREASED WORK WEEK,
OVERMANNING, CONGESTION**

Productivity Initiative

Progress to date

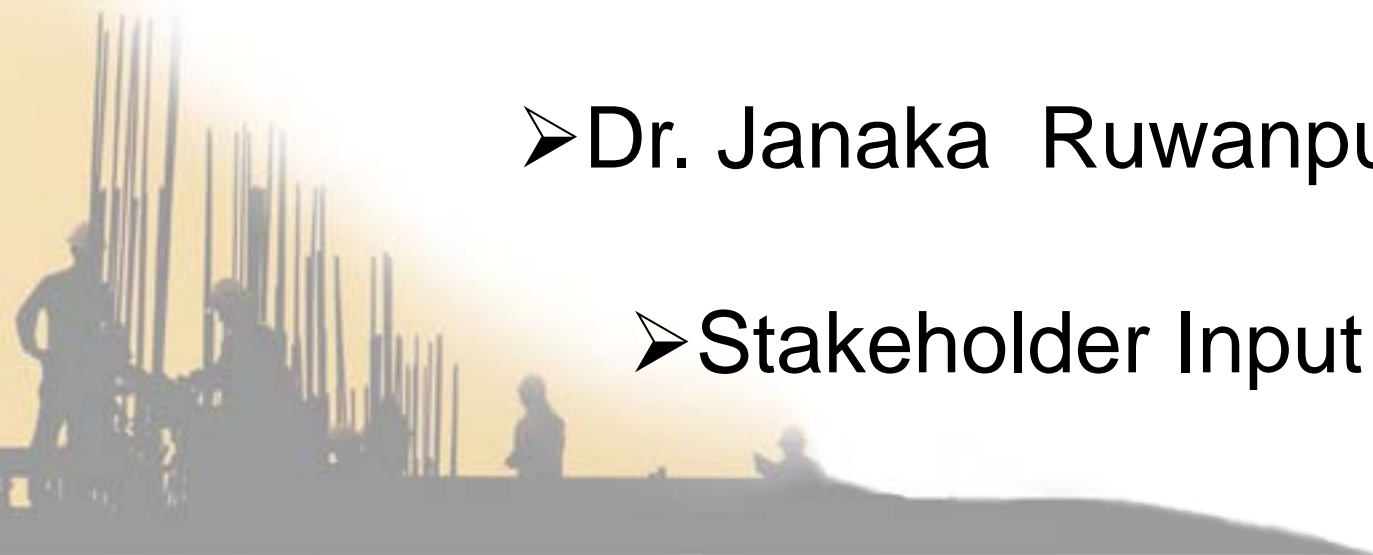
- Assessing Task
- Determining Best Bang for the Buck
- Getting Input from Stakeholders



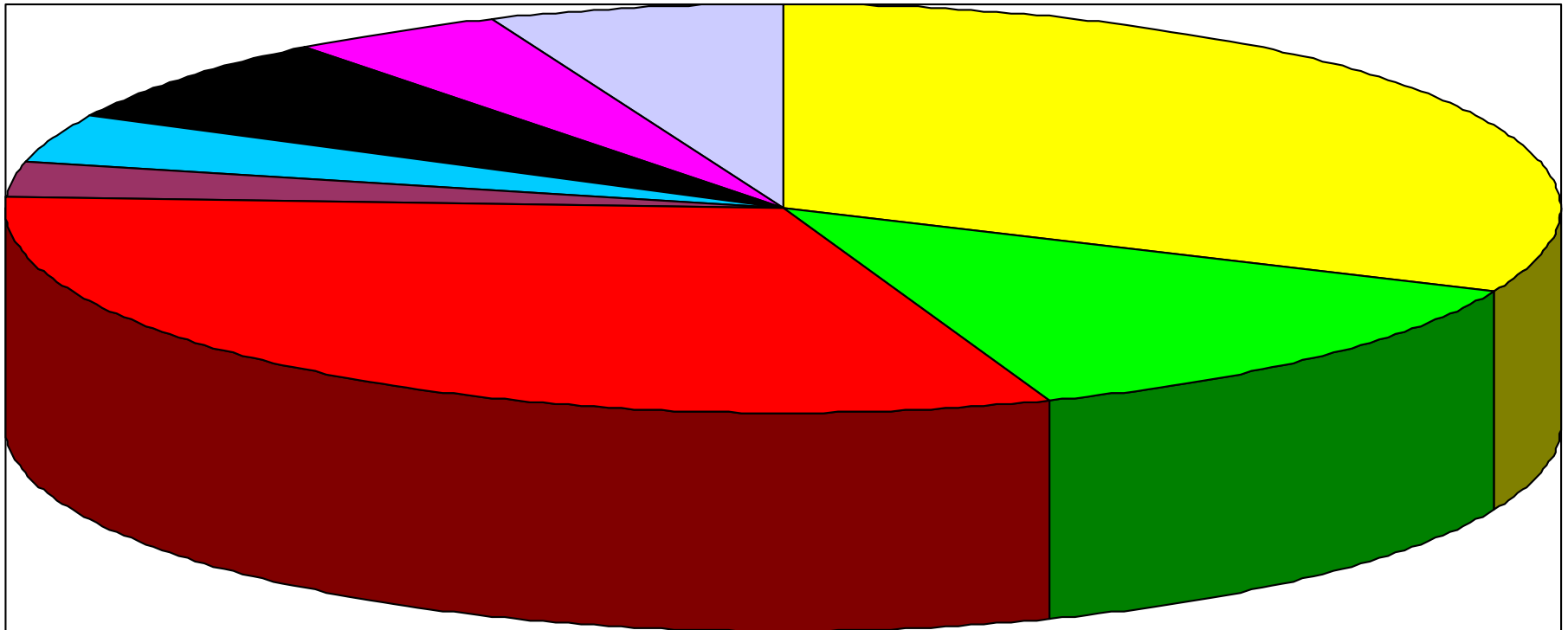
Productivity Initiative

Workshop Agenda

- Introductory Comments
- Overview Productivity Alberta
 - Dr. Janaka Ruwanpura
 - Stakeholder Input



WorkHour Study CII



- | | |
|----------------------|----------------------|
| Direct Work - 32% | Travelling - 13% |
| Waiting - 32% | Late & Early - 3% |
| Personal Breaks - 4% | Tools/Materials - 7% |
| Transporting - 4.6% | Drawings - 6.4% |

Question 4 Tool Time

Do you think that the time on the tools for the trades is:

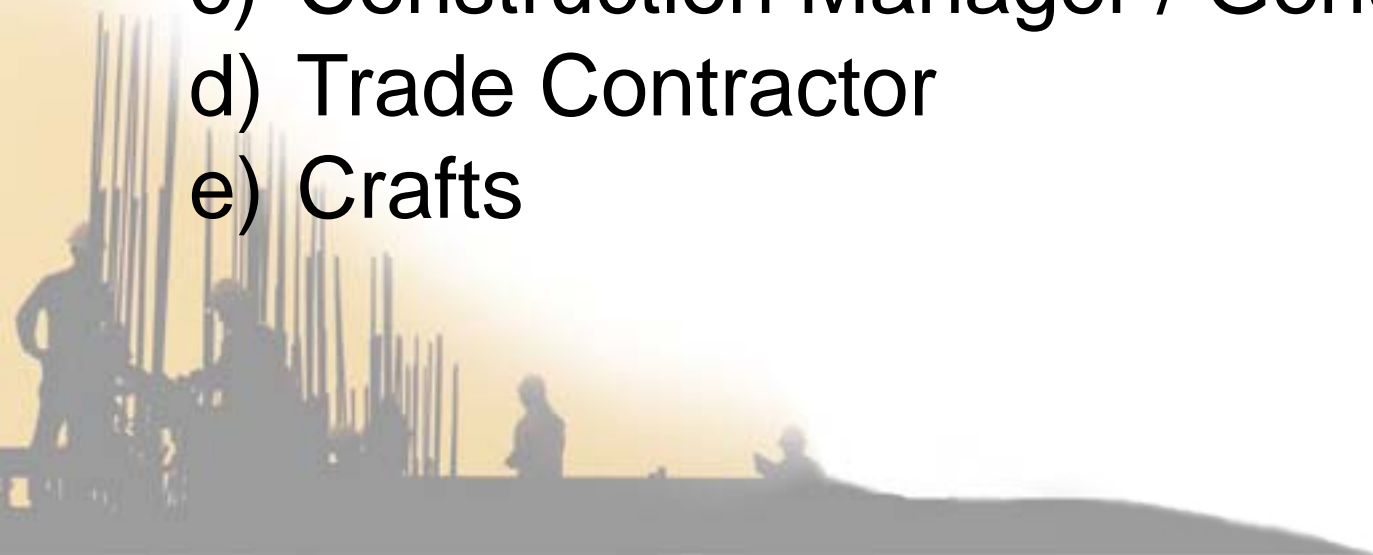
- a) More than 32%
- b) About 32%
- c) Less than 32%



Question 5 Responsibility

Whose behavior / culture do we need to change to have the greatest improvement on productivity?

- a) Owner
- b) Engineer
- c) Construction Manager / General Contractor
- d) Trade Contractor
- e) Crafts



Question 6 Impact Factors

What factor has the greatest impact on productivity?

- a) Fast Tracking
- b) Size of Project
- c) Site / Camp Conditions
- d) Location

