ICCP

WEBINAR SERIES

Disruptions: How to Quantify the Costs

Presented by
Christiaan GROSSKOPF
christiaan.grosskopf@gmail.com

"House rules"

Introductions

Problem Statement

Overview

TODAY'S WEBINAR

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

- The Problem
- Challenges
- Possible Solutions
- CLC Process
- Q&A

The Challenge

Possible "Measuring Sticks"

MEASURING STICKS

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

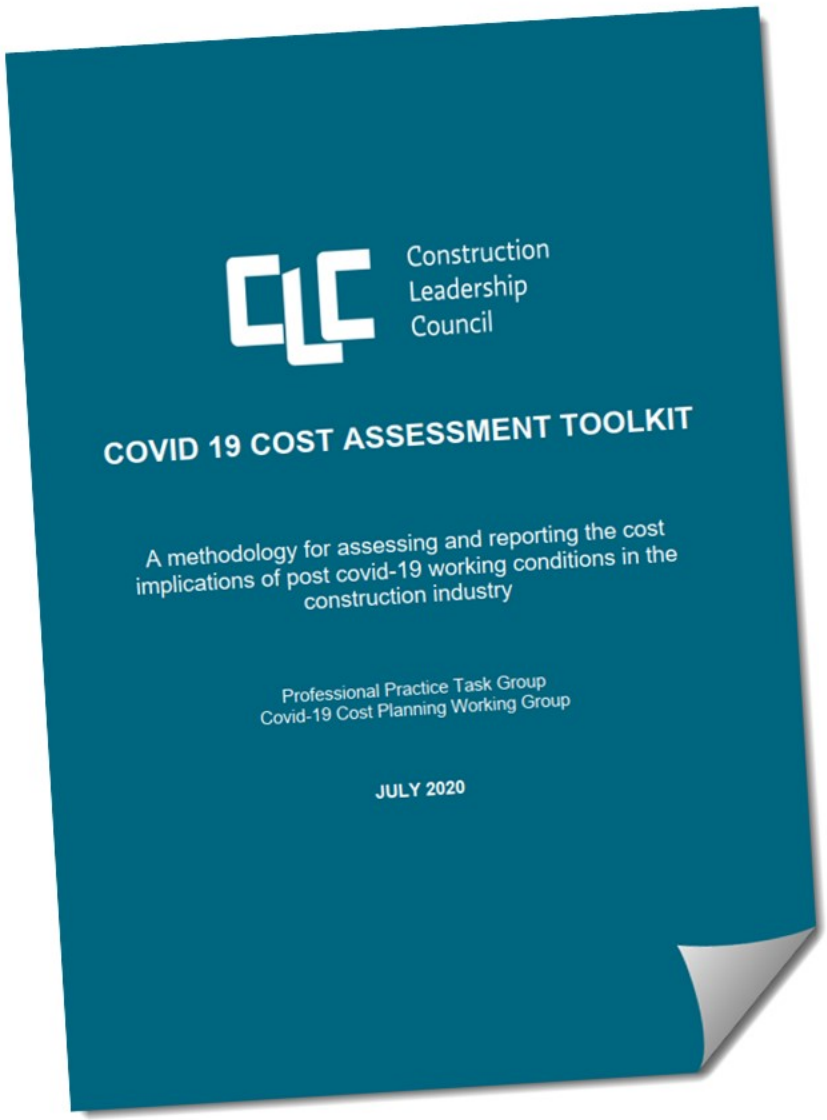
Productivity-based methods	Cost-based methods
1. Project-Specific	1. Estimated vs incurred labour
(a) Measured mile	2. Estimated vs used costs
(b) Earned value analysis	
(c) Program analysis	
(d) Work or trade sampling	
(e) System dynamics modelling	
2. Project-comparison studies	
3. Industry studies	

CLC Toolkit

The CLC COVID-19 Cost Assessment Tool Kit is available here.

CLC TOOLKIT

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS



TOOL 1:
COVID-19 PRODUCTIVITY MEASURES

Simple assessment methodologies designed for use on projects on site using information that can be readily accessed from site records to enable a consistent assessment of impacts on site productivity to be prepared.

TOOL 2:
ESTIMATES ADJUSTMENT METHODOLOGY

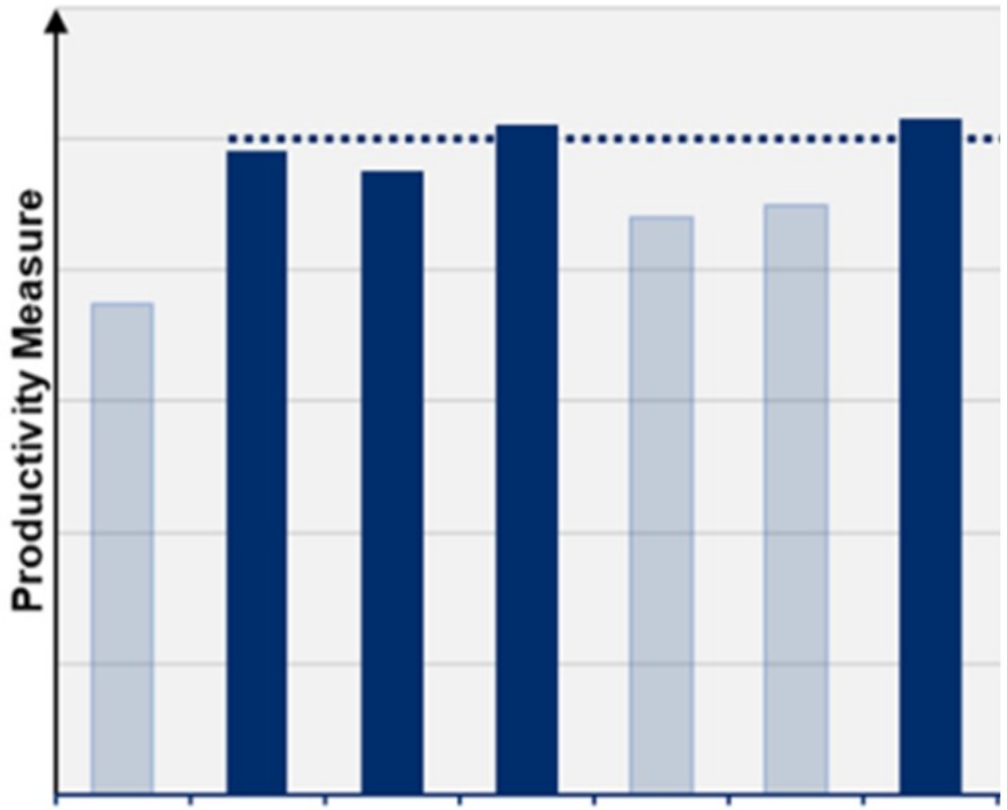
Methodology for adjustment to resource-based estimates for new projects, considering productivity changes and market adjustments.

TOOL 3:
QUALIFICATION STATEMENT FOR ESTIMATES

Standard qualification wording for estimates clearly setting out the extent of Covid-19 related uncertainty that is included/excluded in an estimate/cost plan.

TOOL 4:
RISK ASSESSMENT FRAMEWORK FOR ESTIMATES

Standard pro-forma setting out risk allowances included within an estimate/cost plan.


Productivity Measure

CLC TOOLKIT (GATHERING DATA)

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

Month of Data Collection:	November 2019
Project:	

HEADING

1 PLANNED v ACTUAL REVENUE

a Monthly Planned Revenue	
b Monthly Actual Revenue	

Indicator to be supplied: Proportion of Planned Revenue recovered as Actual (%)

2 WORKFORCE INDICATOR

a Total Actual Number of Workers on Site in Month	41 940 workers
b Working Days in Reporting Month	30 days

Indicator to be supplied: Average Number of Workers on Site per Day (Nr) 1398

3 OUTPUT INDICATOR OF REVENUE

a Monthly Actual Revenue from 1a above

CLC TOOLKIT (GATHERING DATA)

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

Indicator to be supplied: Average Number of Workers on Site per Day (Nr)	1398

3 OUTPUT INDICATOR OF REVENUE

a Monthly Actual Revenue from 1a above	[redacted]
b Total Actual Number of Workers on Site from 2a above	41 940 workers
Indicator to be supplied: Revenue Generated per Worker (PKR)	7889

4 PRODUCTIVITY INDICATOR

a Total Actual Revenue from 1b above	[redacted]
b Total Actual Man-Hours Worked in Reporting Month	334 285 man-hours
Indicator to be supplied: Revenue Generate per Man -Hour (PKR)	990

5 PRELIMINARIES (TOTAL PROJECT LIFE)

a Planned Total Preliminaries Costs	[redacted] 69 065 422
b Actual / Anticipated Total Preliminaries Costs	[redacted] 69 065 422
Indicator to be supplied: Actual / Anticipated Total Preliminaries v Planned (%)	100%

CLC TOOLKIT (SUMMARY)

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

	INDICATOR	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
1	PLANNED v ACTUAL REVENUE							
2	WORKFORCE INDICATOR	1 451	1 533	1 620	1 615	1 194	965	968
3	OUTPUT INDICATOR OF REVENUE	6 757	7 046	8 222	8 622	8 015	11 283	10 266
4	PRODUCTIVITY INDICATOR	894	891	972	1 029	999	1 262	1 397
5	PRELIMINARIES (TOTAL PROJECT LIFE)	100%	100%	100%	223%	361%	377%	332%

Productivity Measure
Pre-COVID-19 Average
Productivity Impact (%)
Post-COVID-19 Rolling Average
Aug 19
Sep 19
Oct 19
Nov 19
Dec 19
Jan 20
Feb 20
Mar 20
Apr 20
May 20
Jun 20
Jul 20
Omit early project stages
Omit Christmas disruption
Omit shut down & restart (if any)

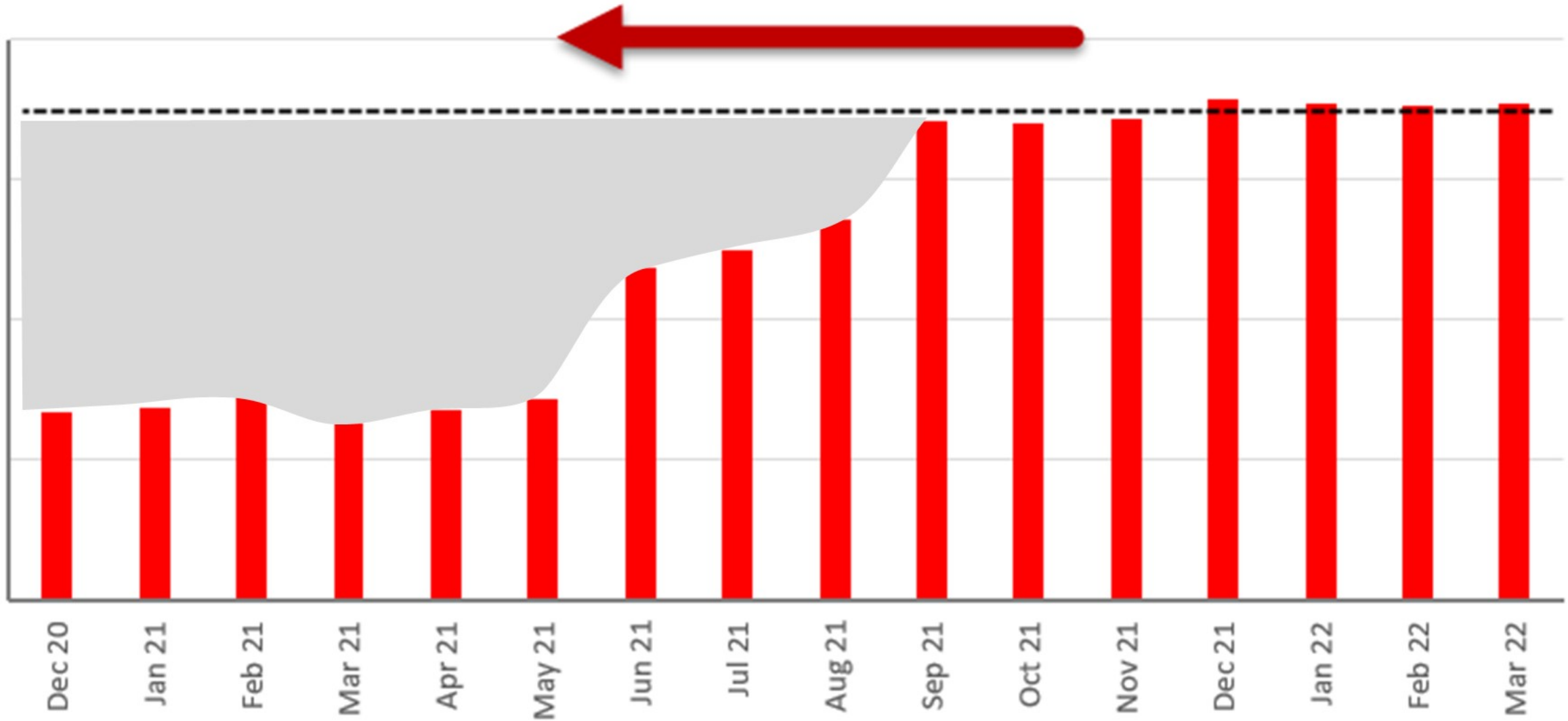
CLC TOOLKIT (DATA TO MONEY)

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

		Baseline		Indicators compared to Baseline		
	INDICATOR		**Average: Last 3 months**	**Apr-20**	**May-20**	**Jun-20**
1	**PLANNED v ACTUAL REVENUE**		95%	70.2%	79%	69%
2	**WORKFORCE INDICATOR**		1 589	75.1%	61%	61%
3	**OUTPUT INDICATOR OF REVENUE**		7 963	87%	89%	92%
4	**PRODUCTIVITY INDICATOR**		964	91%	93%	93%
5	**PRELIMINARIES (TOTAL PROJECT LIFE)**	100%	223%	361.4%	377%	332%

CLC TOOLKIT (DATA TO MONEY)

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS



QUESTIONS

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

CONTACT DETAILS

INSTITUTE OF CONSTRUCTION CLAIMS PRACTITIONERS

TELL ME MORE

To learn more about the ICCP please visit:
www.instituteccp.com.

For general enquiries please contact Jen Smith:
jennifer.smith@instituteccp.com

For membership specific enquiries please contact: **membership@instituteccp.com.**