

# Best Practices Committee Reports





# Construction Performance

## VISION & OBJECTIVES

- World-class productivity in heavy industrial construction and industrial maintenance

## STRATEGIES

- Develop next-generation tools for AWP
- Champion implementations of WFP / RR
- Develop Alberta Benchmarking culture
- Identify productivity improvement 'big prizes'

## Benchmarking

- Phase 1 & 2 Reports completed
- Phase 3 – start Spring 2017
- Introduce 10-10

## Advanced Work Packaging

- Remove barriers to implementation of AWP
- Strategies – communicate BP, determine ROI, guidance for small projects

## Project Productivity Implementation Plan

- Pre-mobilization checklist
- Easy web-based access for frontline supervision
- Webinar series - construction productivity

## Modularization

- Expand Best Practice developed for Alberta Projects based on industry feedback

# AWP Committee

## VISION & OBJECTIVES

Twice as Safe and Twice as Productive

- Focus on implementing AWP and removing barriers

## STRATEGIES

- Enhanced communication of AWP (website update)
- Present solid ROI for implementation
- Effectiveness outside Large Capital Projects

## AWP Best Practices

- Organizational Structure to support AWP
- Path of Construction & Rules of Credit for EWP's

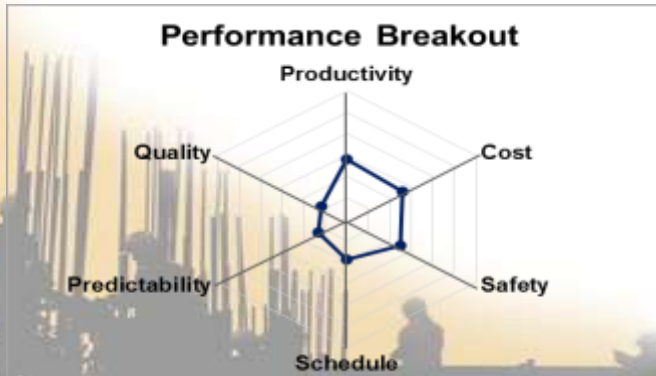
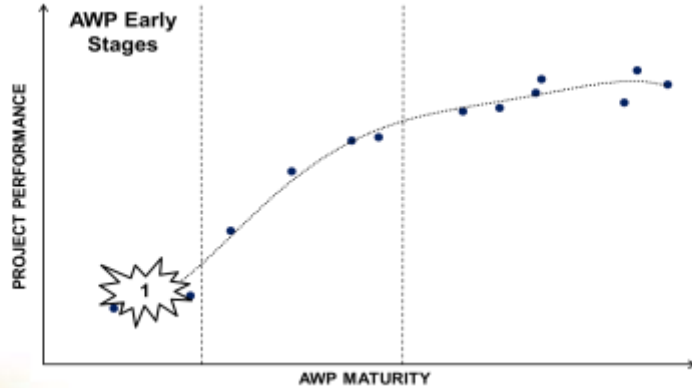
## AWP Leadership







- Commitment of owner group
- Alignment with Productivity Matrix

## Risk Tolerance

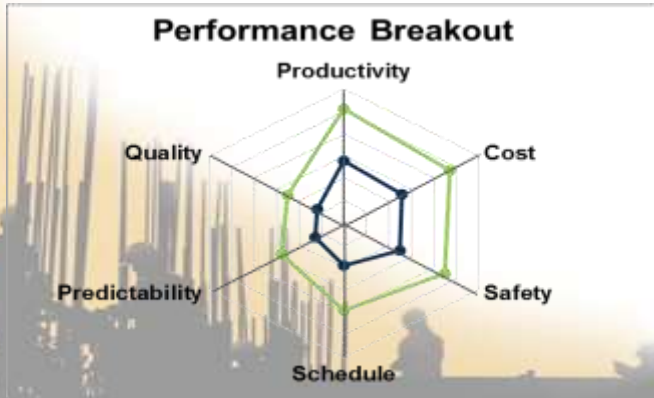
- Promote AWP Strategy as risk mitigator and to enhance
  - Cost certainty
  - Material certainty
  - Schedule certainty

# AWP MATURITY MODEL – AWP EARLY STAGES



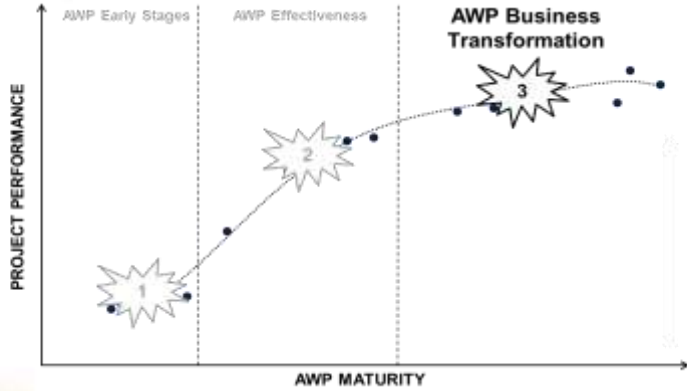
Performance Dimension	Maturity Stage		
	1 – AWP Early Stage	2 – AWP Effectiveness	3 – AWP Business Transformation
Productivity	 Around 10% improvement	Around 25% improvement	Around 25% improvement
Cost	 Project on budget	TIC 10% below estimates	TIC 10% below estimates
Safety	 0 lost-time accident (TRIR below company average)	0 lost-time accident (TRIR improves with sporadic first-aids / near misses)	0 lost-time accident (TRIR improves with sporadic first-aids / near misses)
Schedule	 Project experienced minor delays	Project slightly ahead of schedule during execution	Project slightly ahead of schedule during execution
Predictability	 Significant deviation from baseline estimates	Minor changes to execution schedule	Execution schedule to plan
Quality	 Rework in line with previous quality performance	Rework slightly below company's average	Rework substantially below company average + substantial reduction in RFIs

# AWP MATURITY MODEL – AWP EFFECTIVENESS

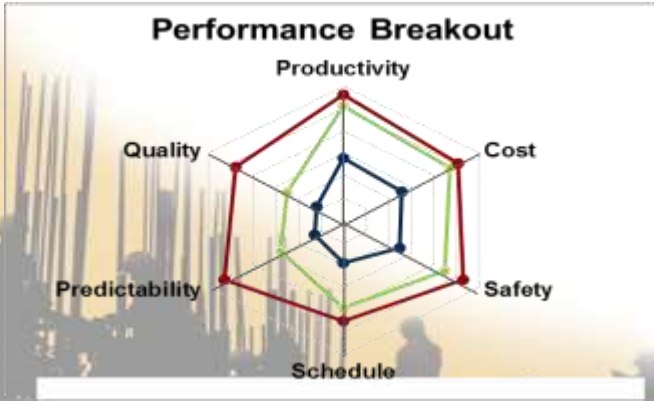


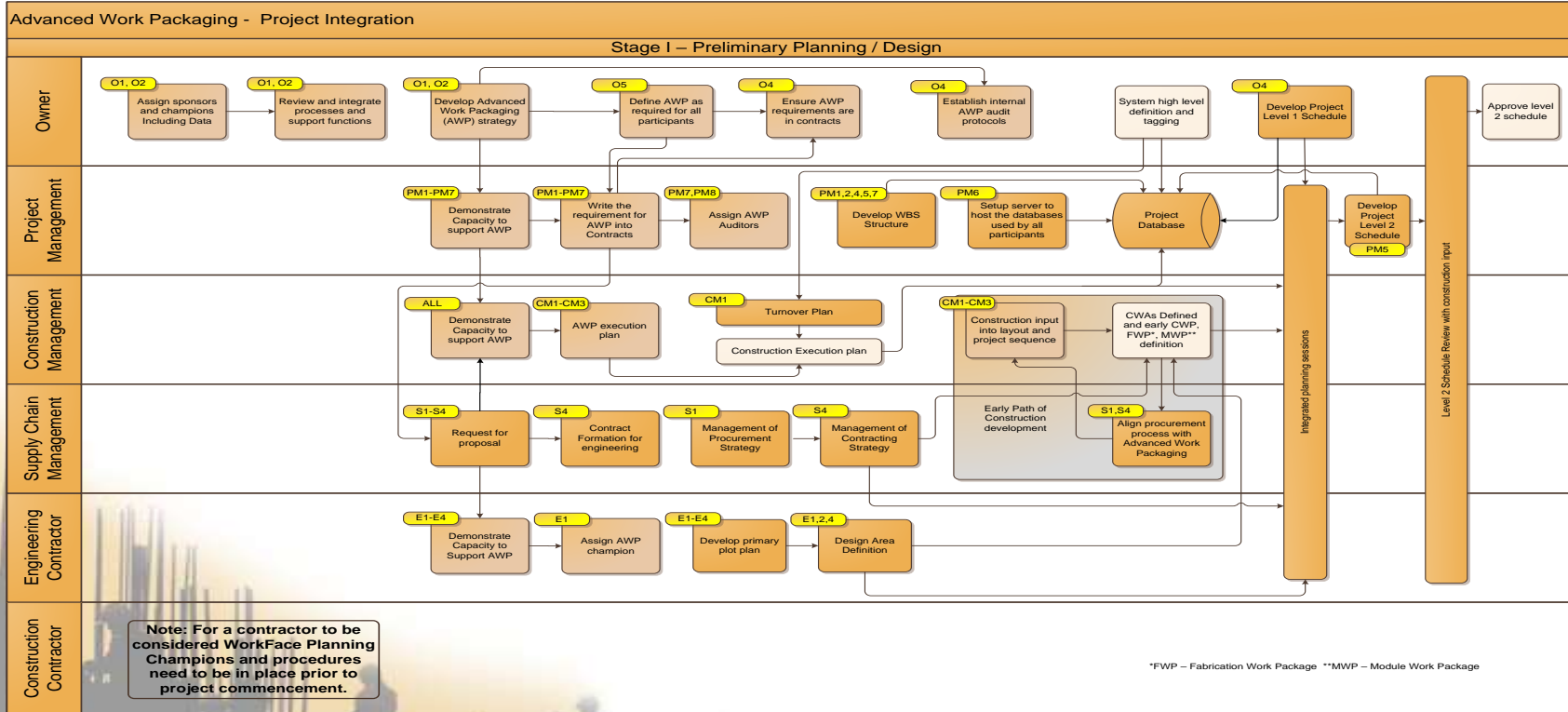
Performance Dimension	Maturity Stage		
	1 – AWP Early Stage	2 – AWP Effectiveness	3 – AWP Business Transformation
<b>Productivity</b>	Around 10% improvement	↑ Around 25% improvement	Around 25% improvement
<b>Cost</b>	Project on budget	↑ TIC 10% below estimates	TIC 10% below estimates
<b>Safety</b>	0 lost-time accident (TRIR below company average)	↑ 0 lost-time accident (TRIR improves with sporadic first-aids / near misses)	0 lost-time accident (TRIR improves with sporadic first-aids / near misses)
<b>Schedule</b>	Project experienced minor delays	↑ Project slightly ahead of schedule during execution	Project slightly ahead of schedule during execution
<b>Predictability</b>	Significant deviation from baseline estimates	↘ Minor changes to execution schedule	Execution schedule to plan
<b>Quality</b>	Rework in line with previous quality performance	↘ Rework slightly below company's average	Rework substantially below company average + substantial reduction in RFIs

# AWP MATURITY MODEL – BUSINESS TRANSFORMATION



Performance Dimension	Maturity Stage		
	1 – AWP Early Stage	2 – AWP Effectiveness	3 – AWP Business Transformation
<b>Productivity</b>	Around 10% improvement	Around 25% improvement	➔ Around 25% improvement
<b>Cost</b>	Project on budget	TIC 10% below estimates	➔ TIC 10% below estimates
<b>Safety</b>	0 lost-time accident (TRIR below company average)	0 lost-time accident (TRIR improves with sporadic first-aids / near misses)	➔ 0 lost-time accident (TRIR improves with sporadic first-aids / near misses)
<b>Schedule</b>	Project experienced minor delays	Project slightly ahead of schedule during execution	➔ Project slightly ahead of schedule during execution
<b>Predictability</b>	Significant deviation from baseline estimates	Minor changes to execution schedule	⬆ Execution schedule to plan
<b>Quality</b>	Rework in line with previous quality performance	Rework slightly below company's average	⬆ Rework substantially below company average + substantial reduction in RFIs





Application of Advanced Work Packaging



Standard Project Procedure



Integration of AWP and Standard Procedure