Workforce Management Labor Planning

Examples for optimizing Critical Planning, Earned Value and completing the Cycle

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Meet The Experts



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This presentation and the accompanying commentary may contain forward-looking statements that are based on our management's current expectations and projections about future events and trends that we believe may affect our business, financial condition, operating results and growth prospects. Forward-looking statements include all statements other than statements of historical fact, including information relating to future events, our future financial or operating performance, projections of product or service availability, and statements concerning new, planned or upgraded services or technology developments. Forward-looking statements are subject to substantial risks, uncertainties and other factors. These factors may cause our actual results, events or circumstances to differ materially from those described in our forward-looking statements. You should not rely upon forward-looking statements as predictions of future events.

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— ARCORO; WFM SUMMIT

Workforce Management

Peace across Labor Planning; Critical Planning, Earned Value, Completing the Cycle

[40min]



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- 05. Review/Q&A [5min]



Today's Intent & Workforce Management

[5min]



Today's Key Takeaways

Critical & accurate workforce planning made feasible.

Earned Value

processes

continuously

tied back to

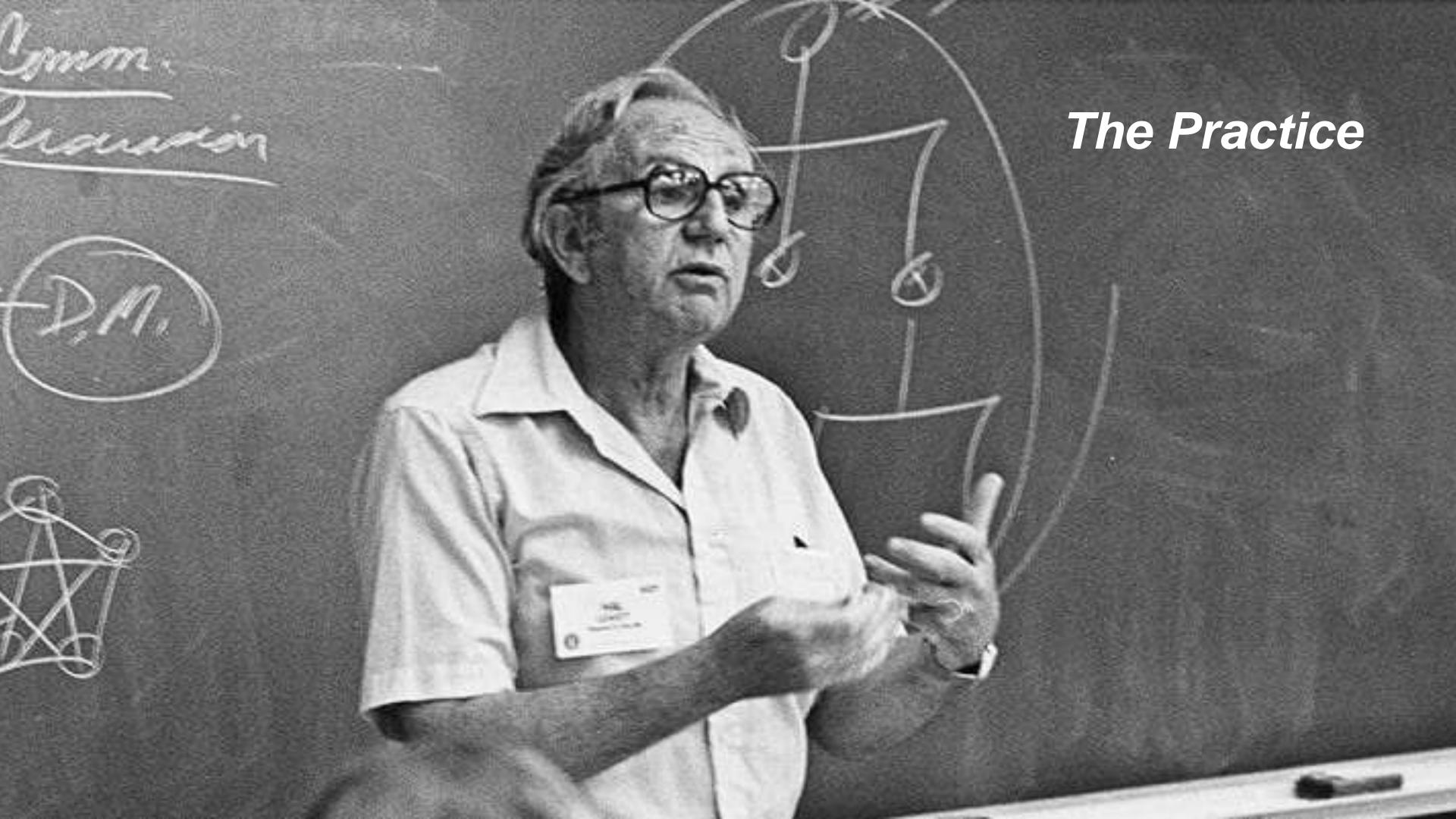
the labor plan.

Stabilize WIPs,
Forecasts, &
the Workforce



A Complex Ever-Changing Problem





WFM is a Business Practice

People

Who should be involved

Process

How it should be done

Technology

Enable people, support process



People, Process, Technology (P.P.T.) has been the framework for business practices.

[EST 1964; Harold Leavitt]

PEOPLE

Who should be involved.

[HINDERED]

PROCESS

What should they be doing and when.

[OBSTRUCTED]

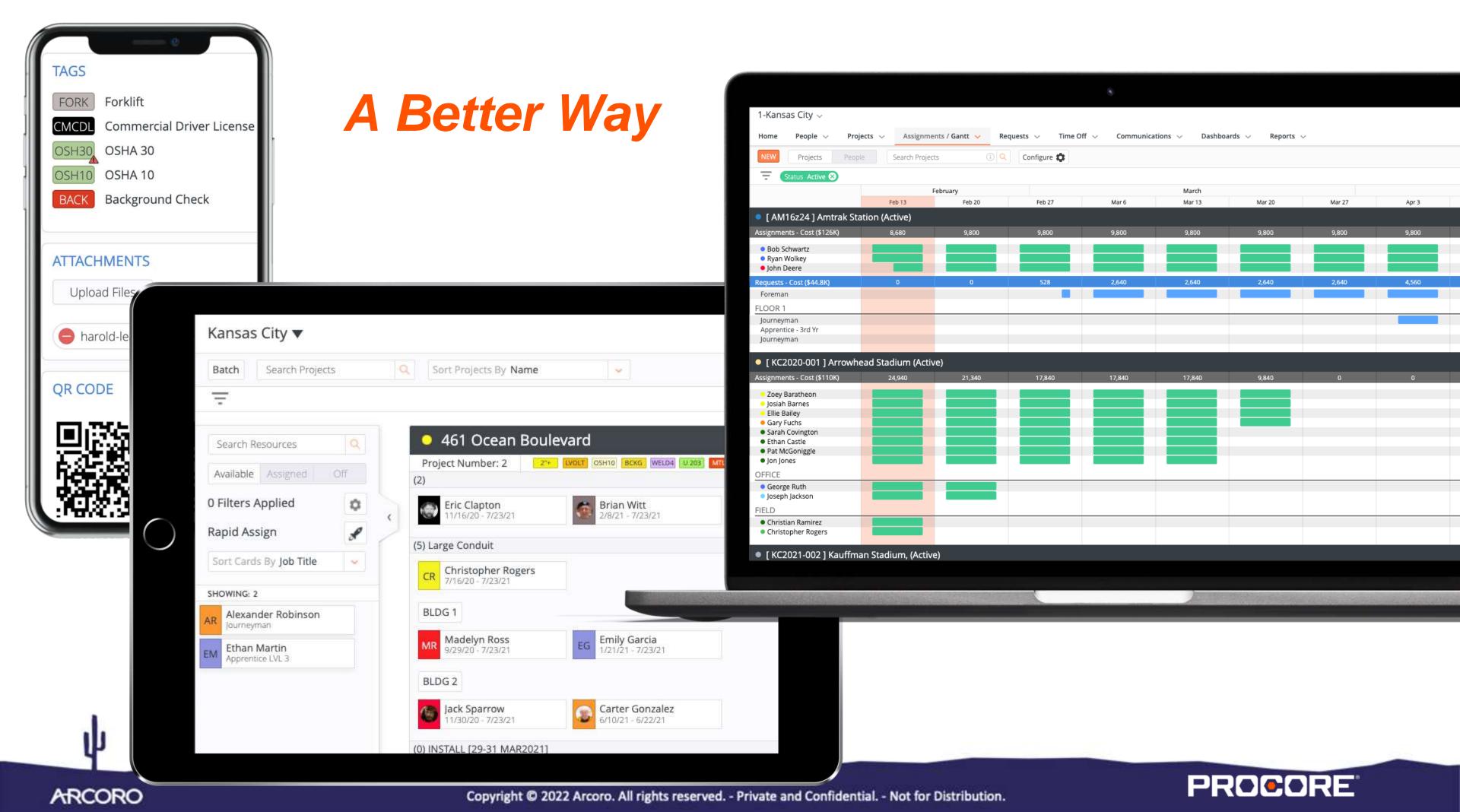
TECHNOLOGY

Tool that enables people and supports the process.

[WAS MISSING]



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WFM Categories

Rostering

- + Scheduling
- + Forecasting
- + Data Management
- + Communications
- + Actuals & Analytics
- = Workforce Alignment



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WFM

WFM Categories

Rostering

+ Scheduling

Workforce Plan

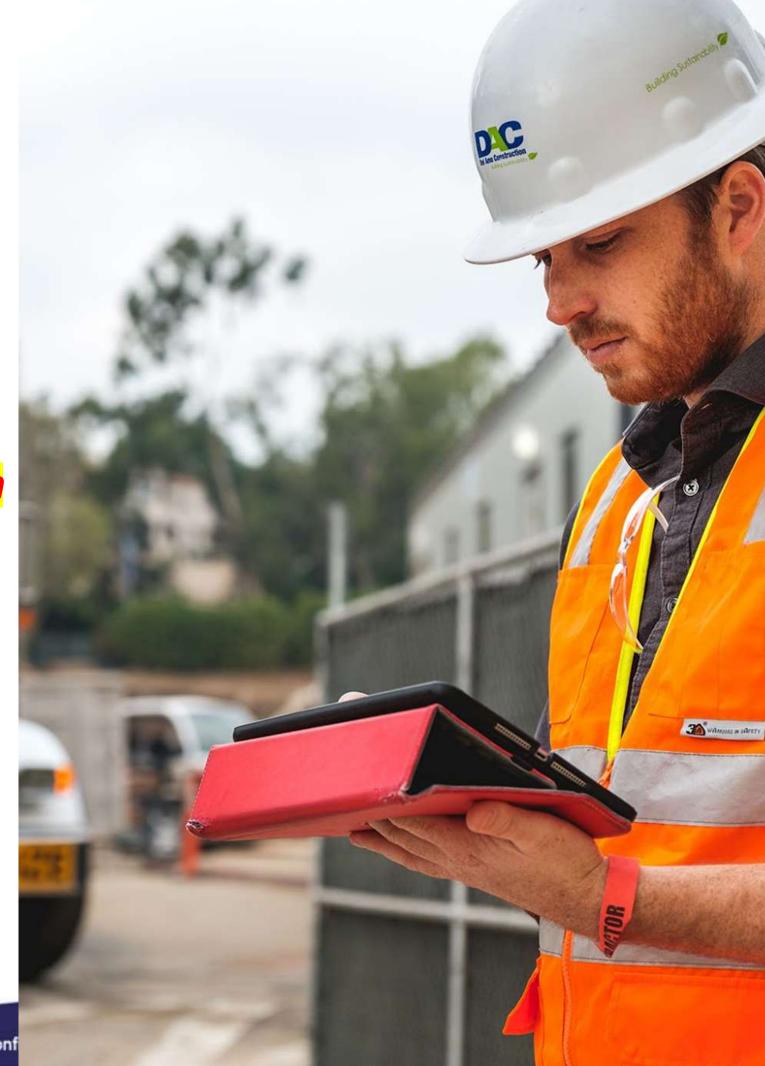
Forecasting

+ Data Management

+ Communications

+ Actuals & Analytics

= Workforce Alignment





WFM

The Workforce Plan; Feasible & Critical

[10min]



Workforce Planning for every person across every project is <u>critical</u>...

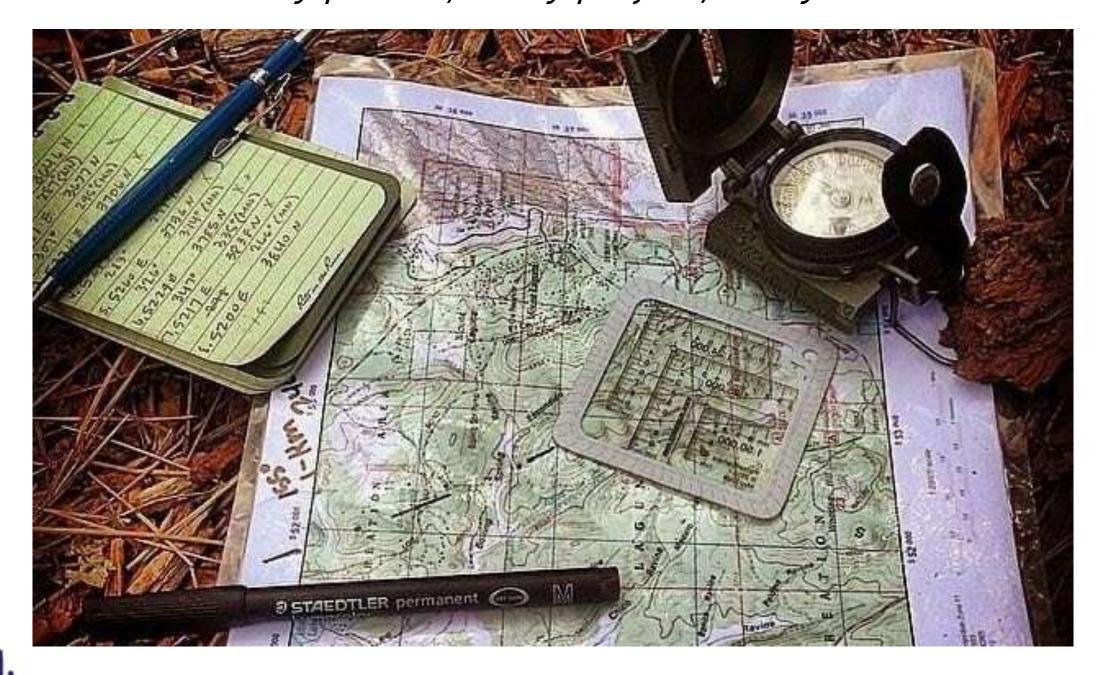
but typically <u>unfeasible</u>...

without the proper tools...

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Workforce Planning is <u>critical</u>.

Despite ever changing conditions and Murphy's Law, we should plan every person, every project, every time...













Construction Workforce Plan:

a projection of what your people and your equipment are going to do to complete a construction project or projects.

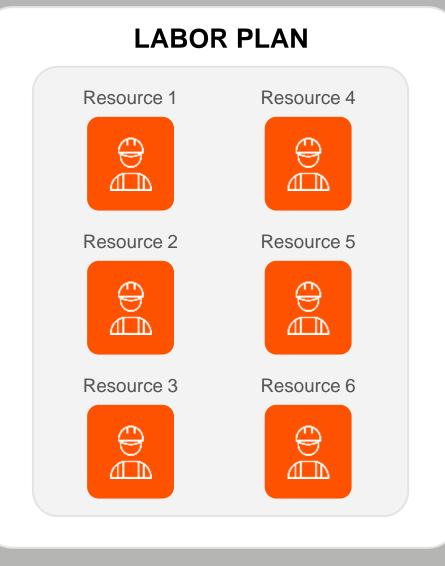


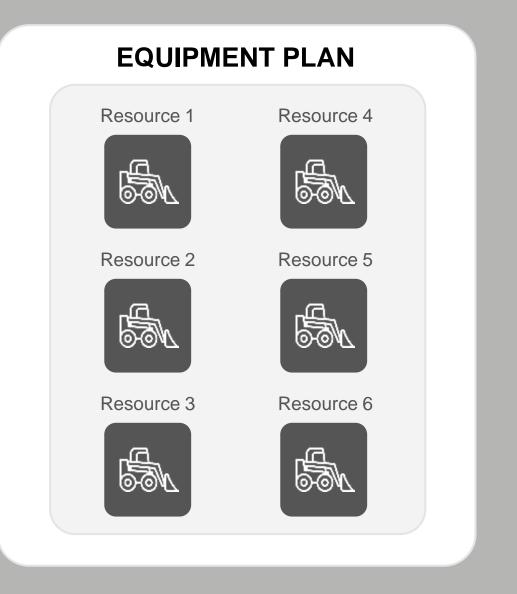
PROJECT A

PROJECT SCHEDULE

WORKFORCE PLAN

Resource 2 Resource 3 Resource 3





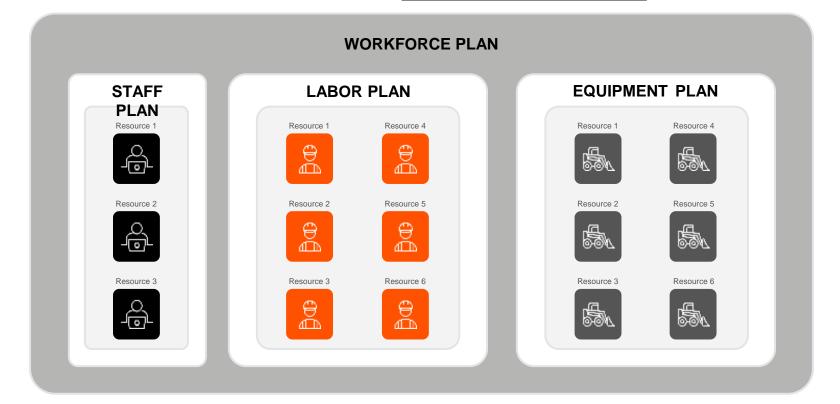


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— THE WORKFORCE PLAN; FEASIBLE & CRITICAL

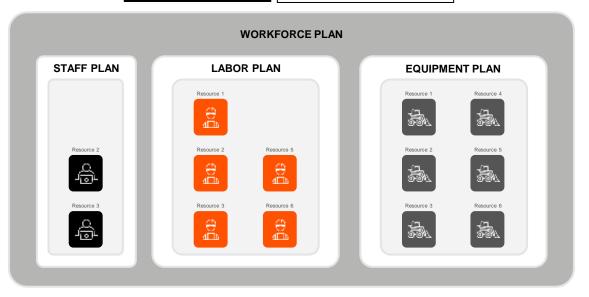


PROJECT SCHEDULE



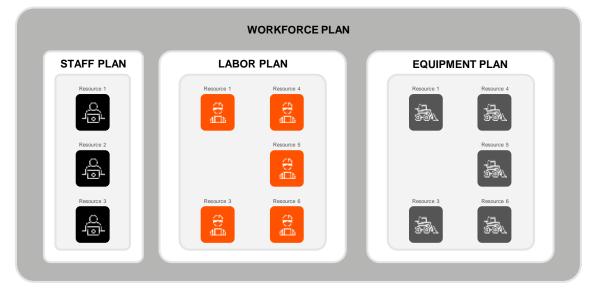


PROJECT SCHEDULE

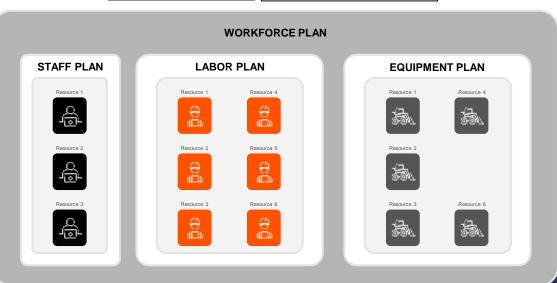


PROJECT C PROJECT

PROJECT SCHEDULE

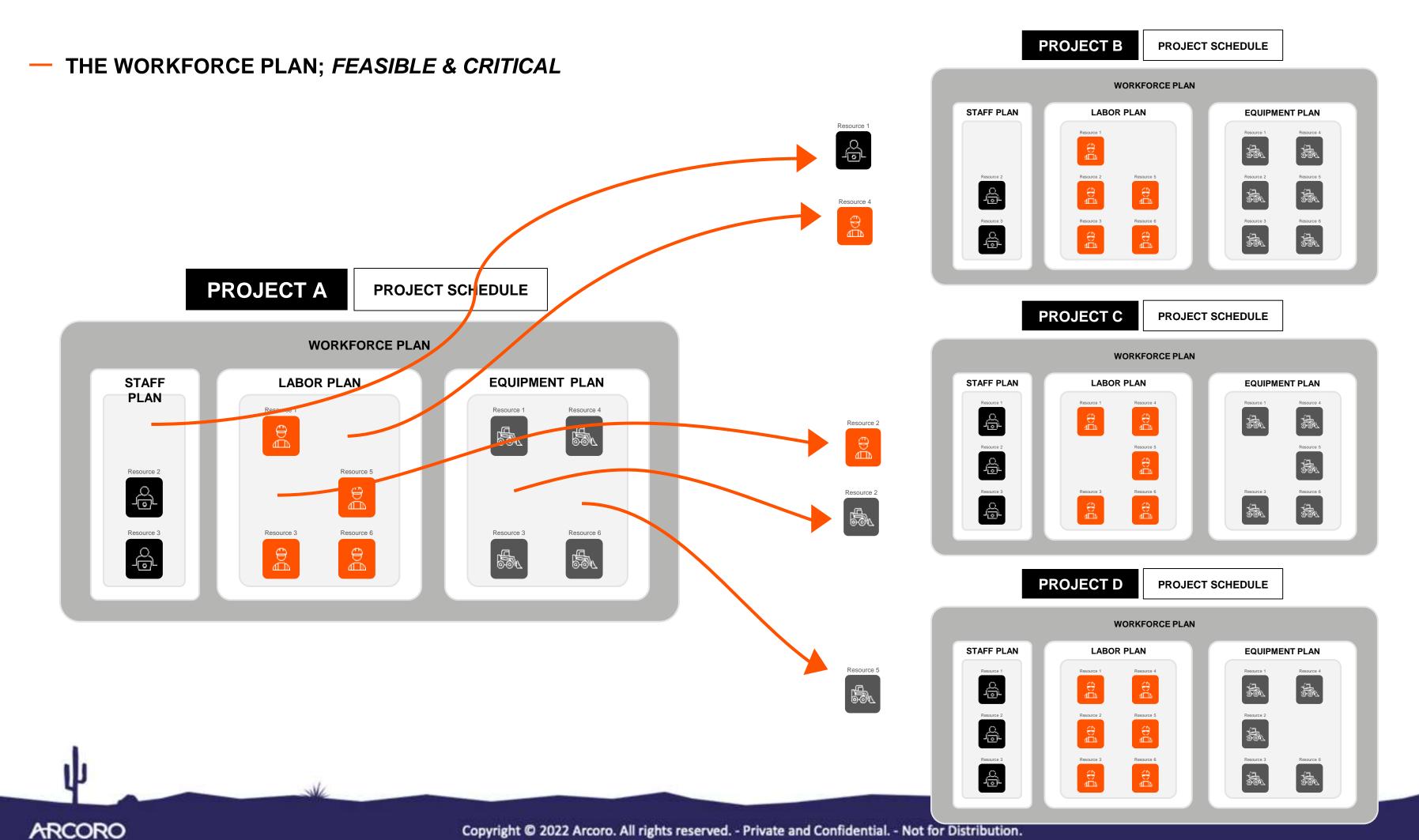


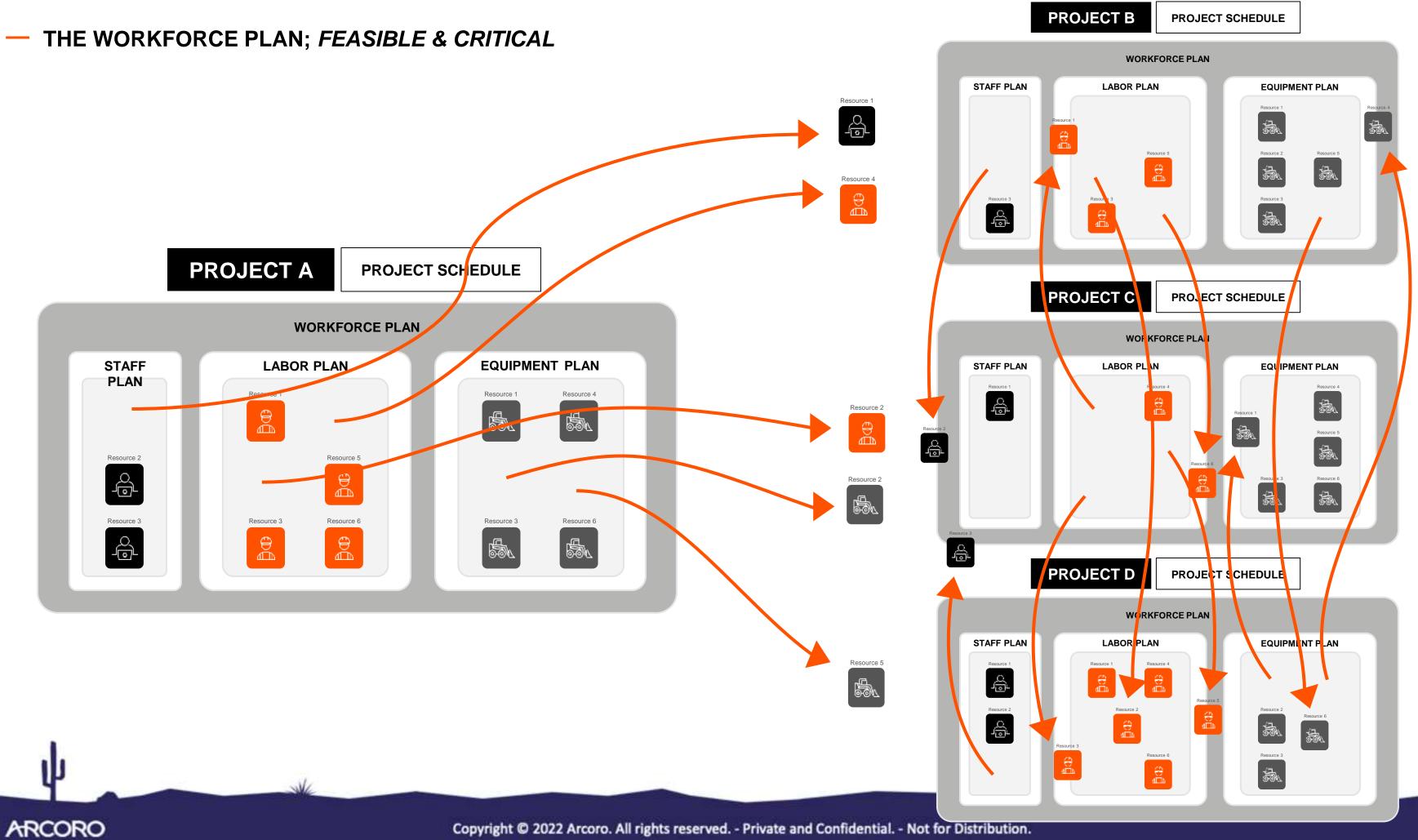
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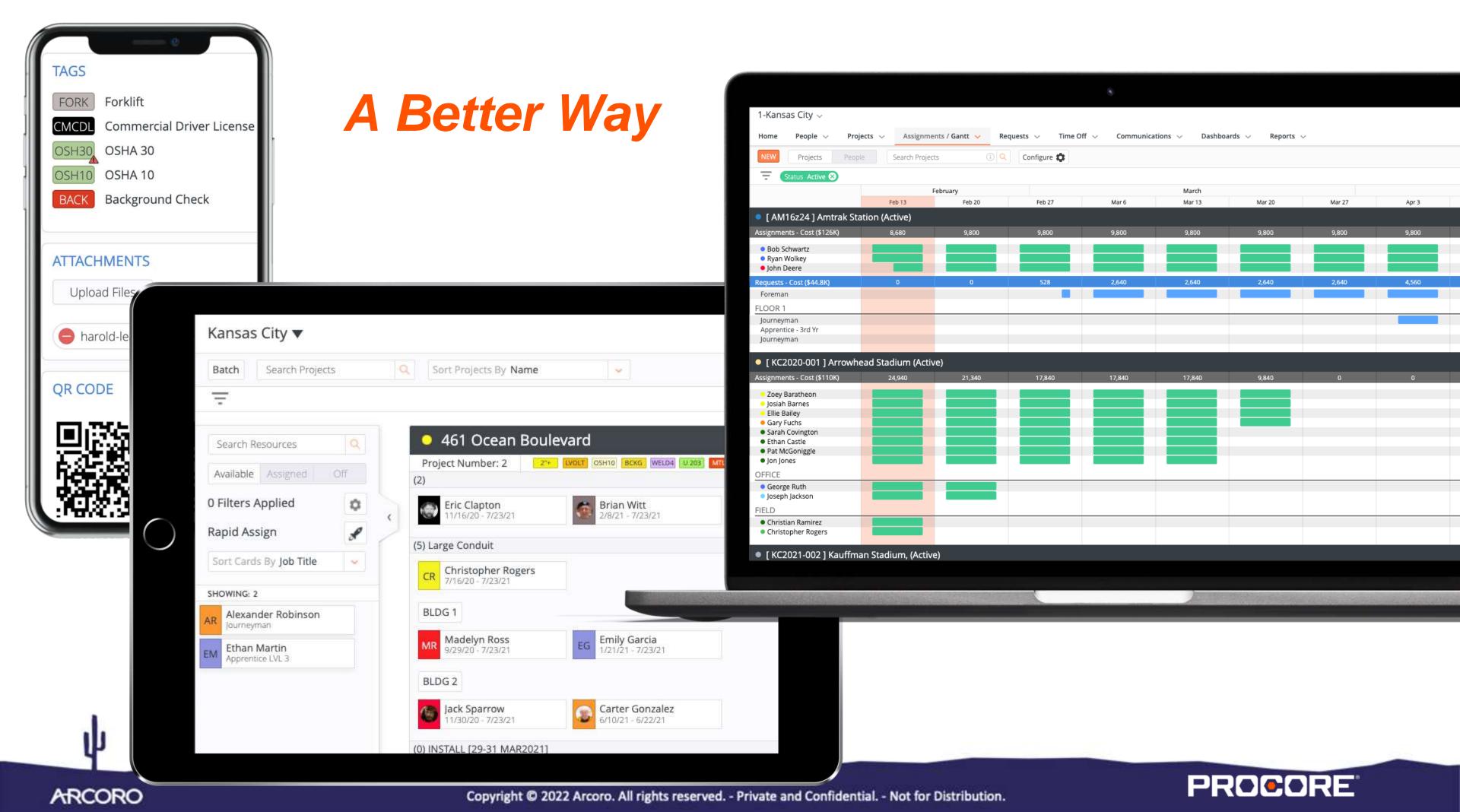






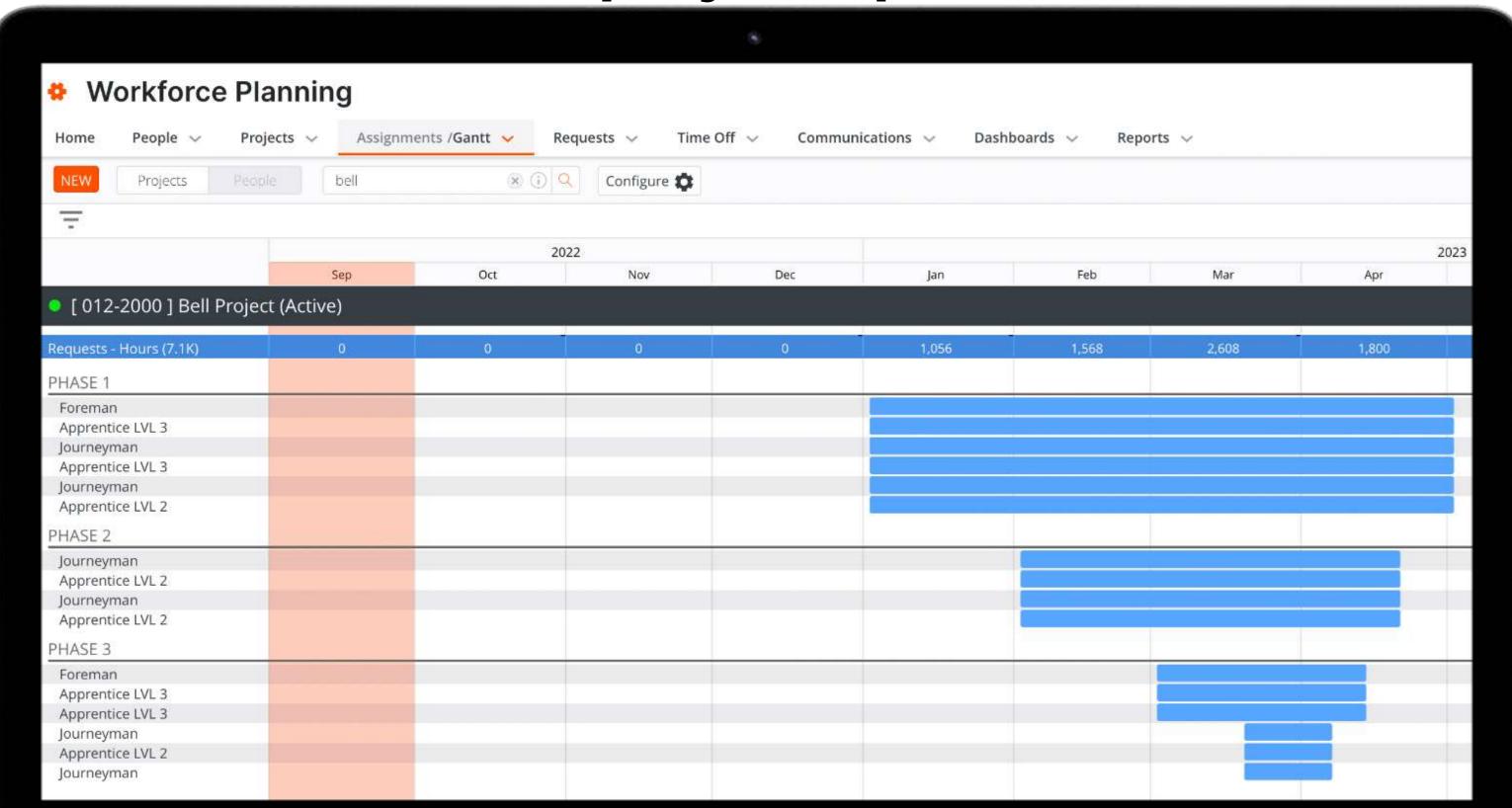






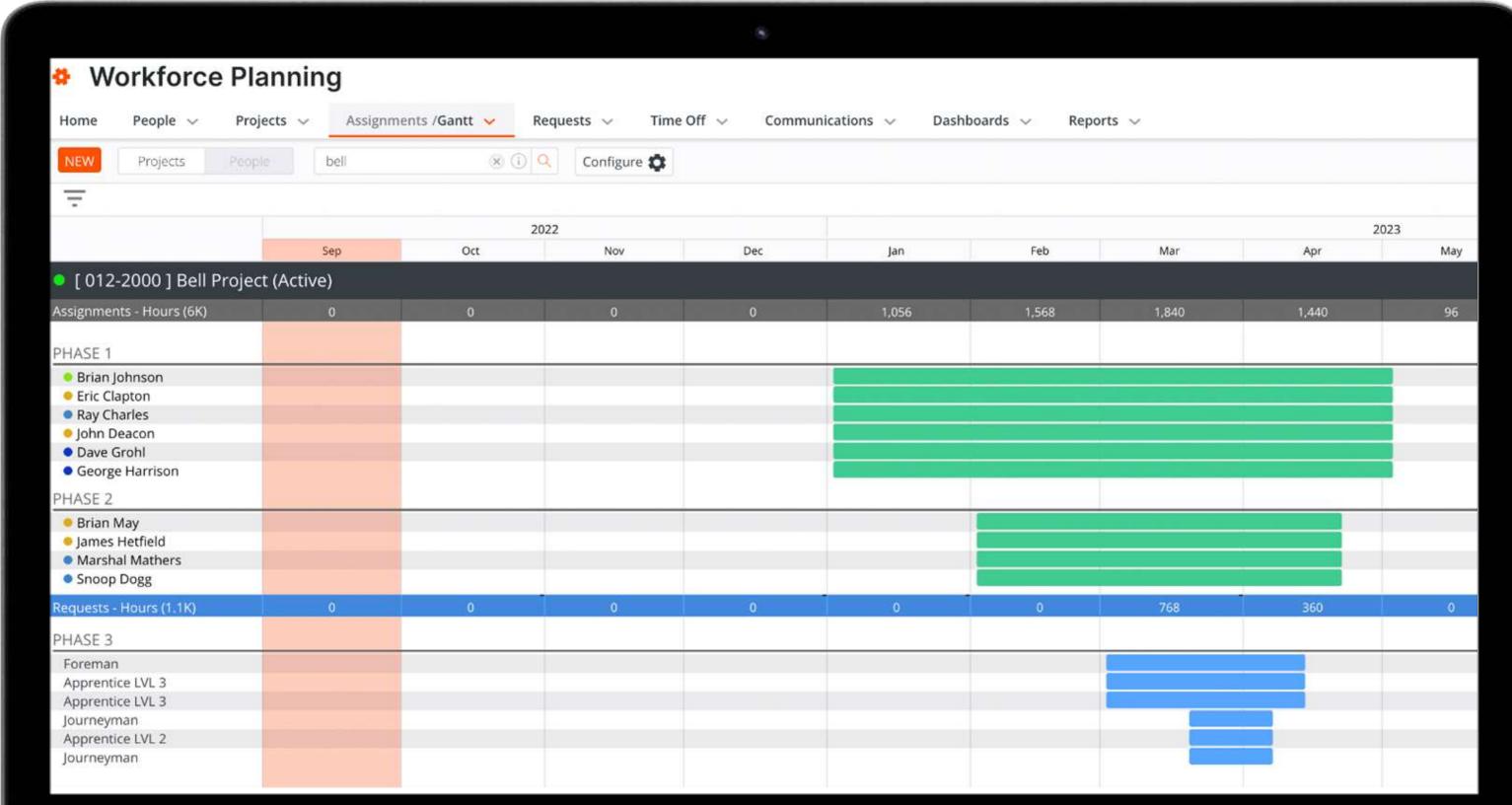
— THE WORKFORCE PLAN; FEASIBLE & CRITICAL

All our projects planned...



THE WORKFORCE PLAN; FEASIBLE & CRITICAL

All our projects planned... at every stage...



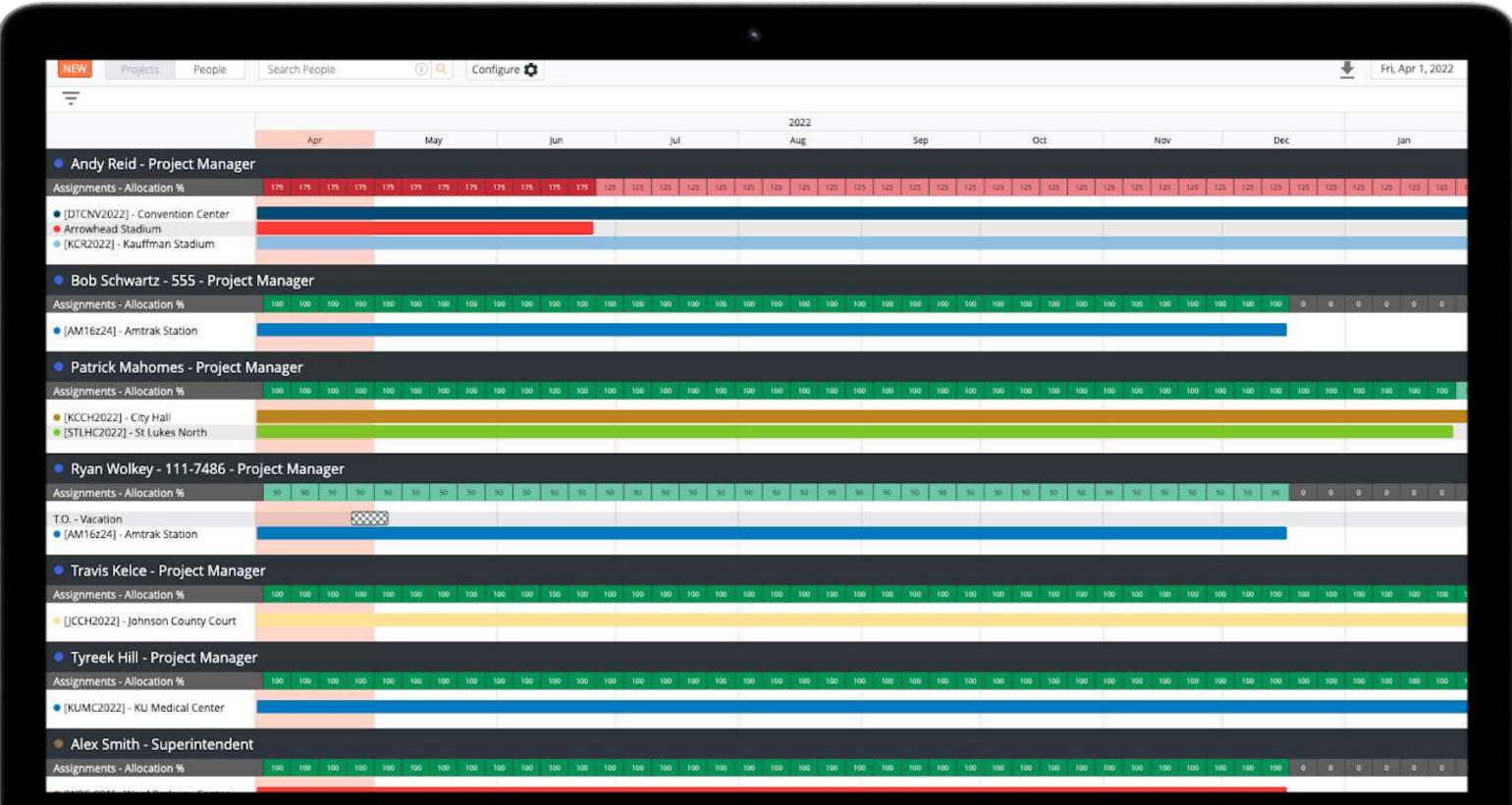
THE WORKFORCE PLAN; FEASIBLE & CRITICAL

All our people planned... from field...



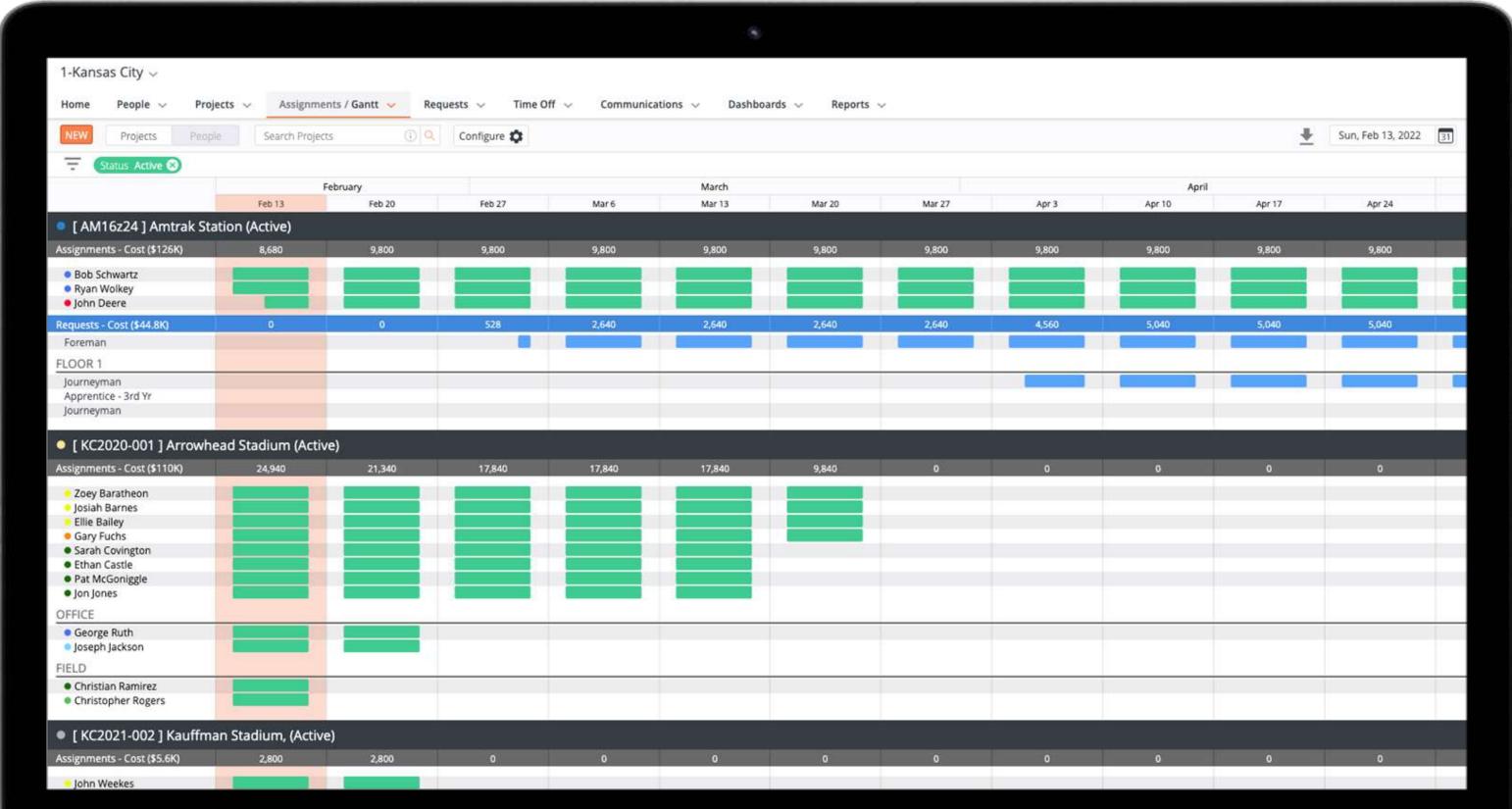
— THE WORKFORCE PLAN; FEASIBLE & CRITICAL

All our people planned... to office...



— THE WORKFORCE PLAN; FEASIBLE & CRITICAL

All our people planned... across all our projects...



Other areas of the business become beneficiaries of a standardized WFM practice...

We can make the transition to a team-oriented approach.

Visibility

Accountability

Data



Aligning Earned Value & the Labor Plan

[15min]



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Earned Value Analysis (EVA):

An industry standard method of measuring a project's progress at any given point in time. Compares the planned amount of work with what has actually been completed to determine if the cost, schedule, and work accomplished are progressing in accordance with the plan. **EVA provides** a measurement of productivity and a basis for course correction during a project.

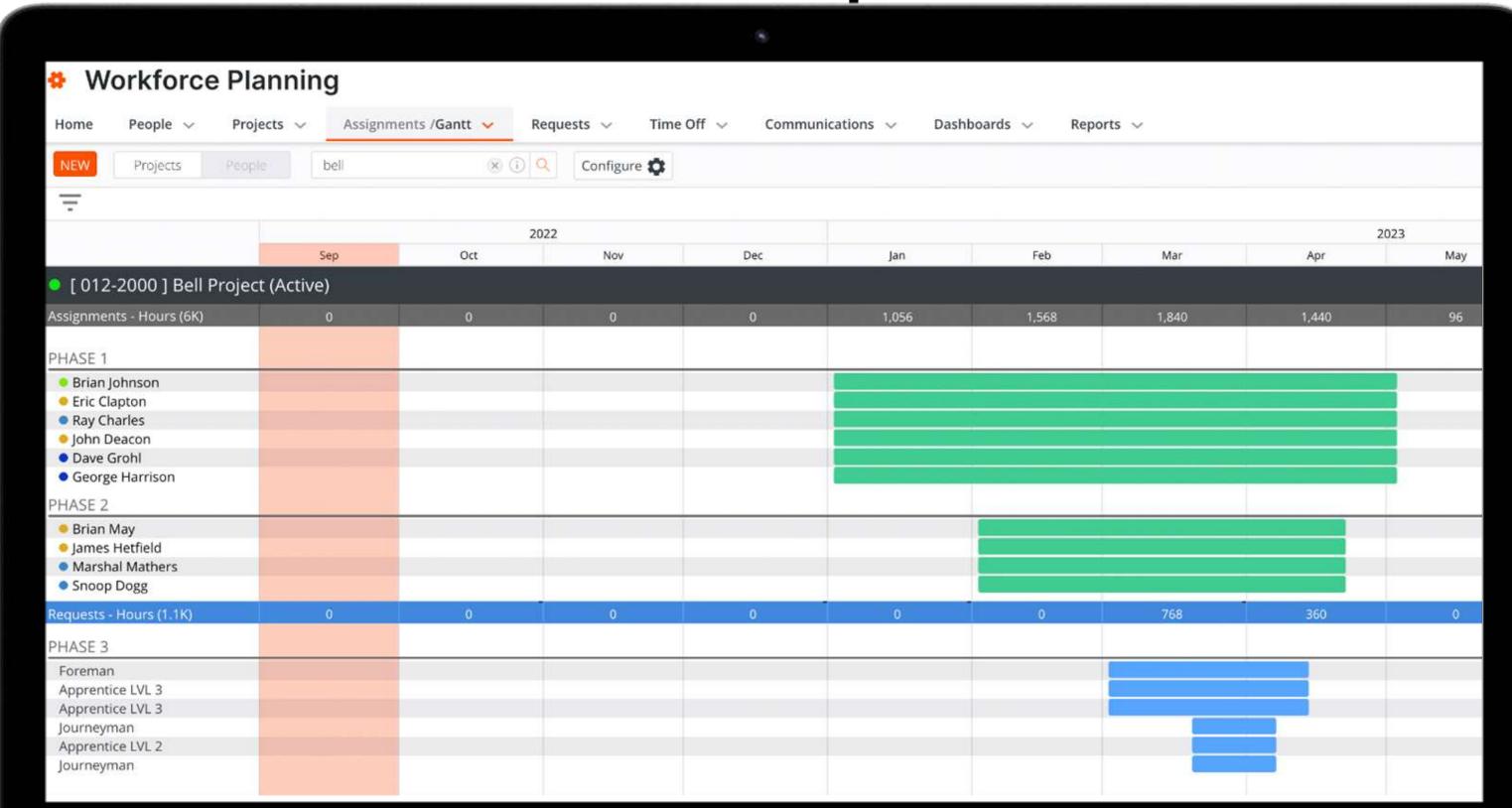
EVA tells us:

"Are we trending ahead, behind, or on-track of budget?"



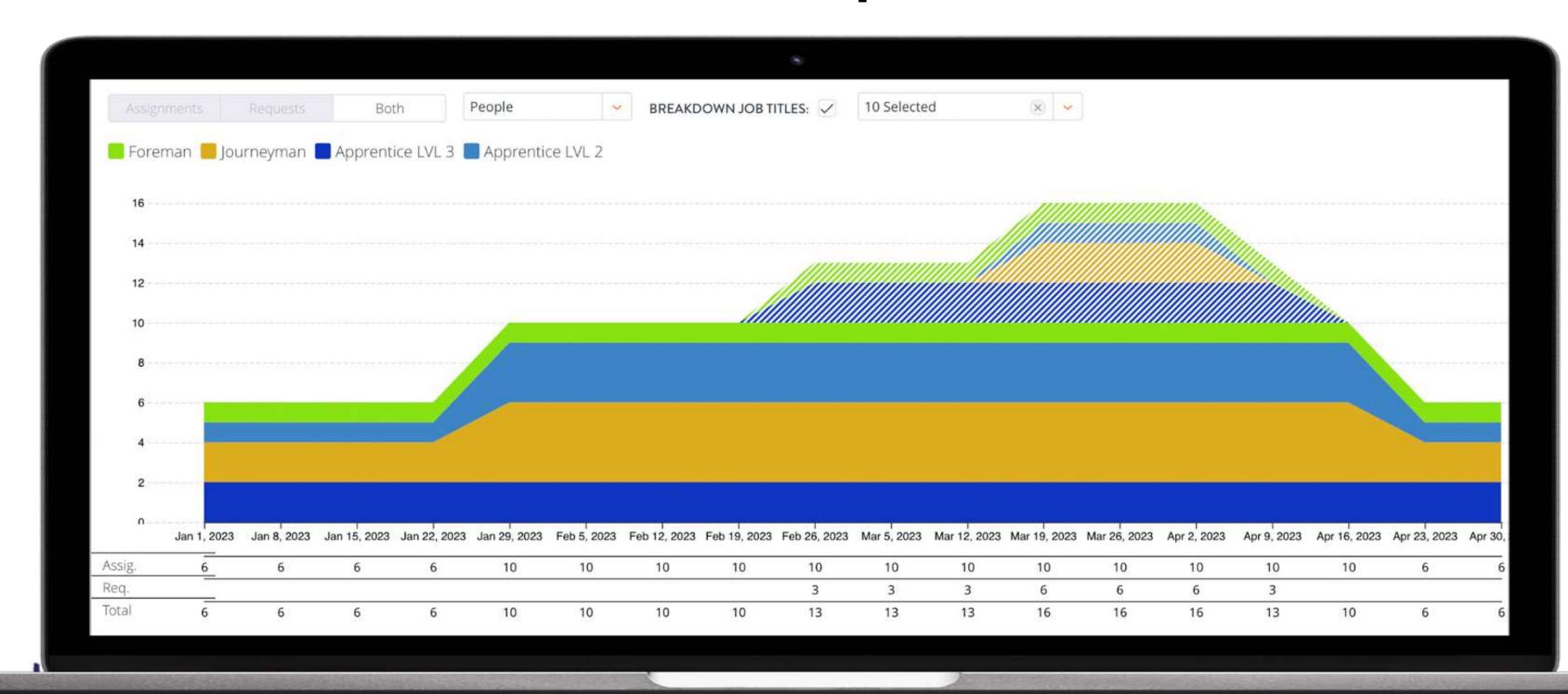
ALIGNING EARNED VALUE & THE LABOR PLAN

Our labor plan...



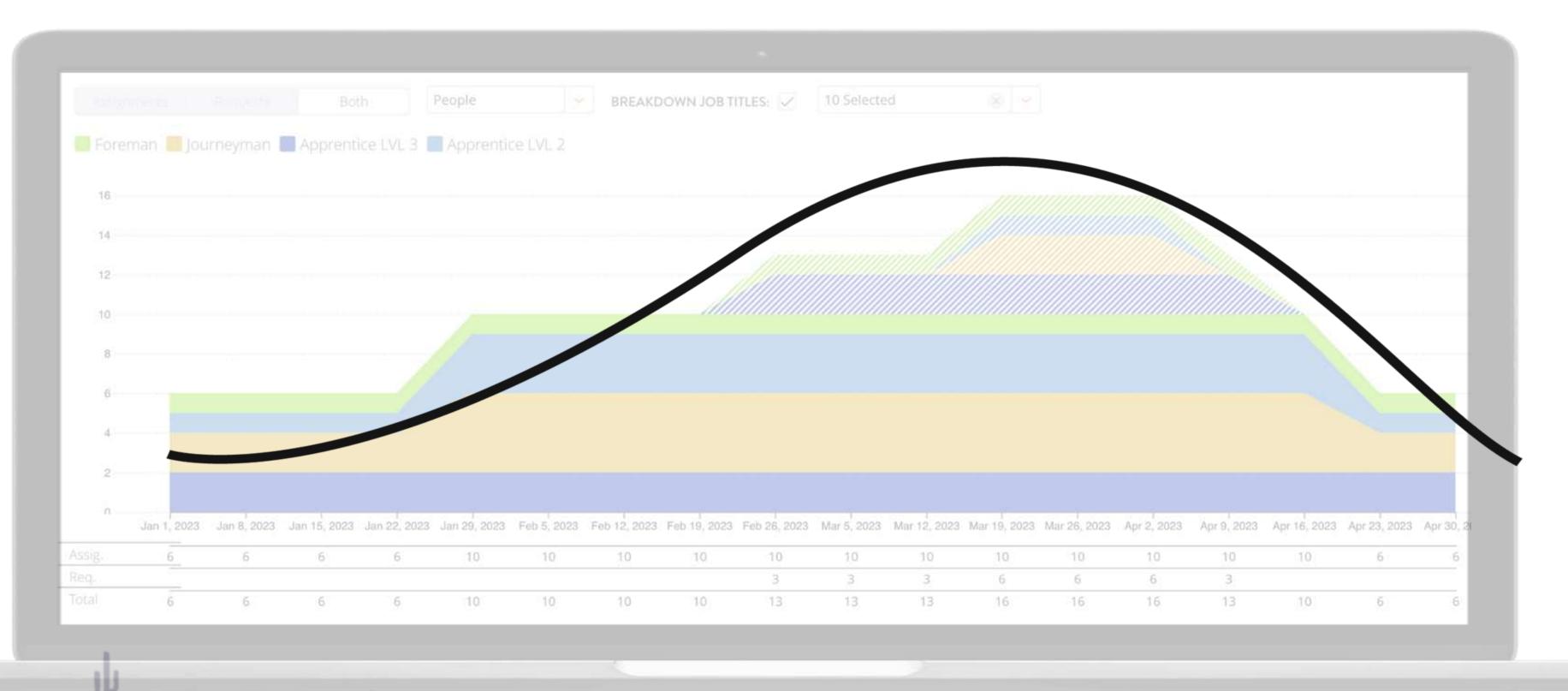
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Our labor plan...



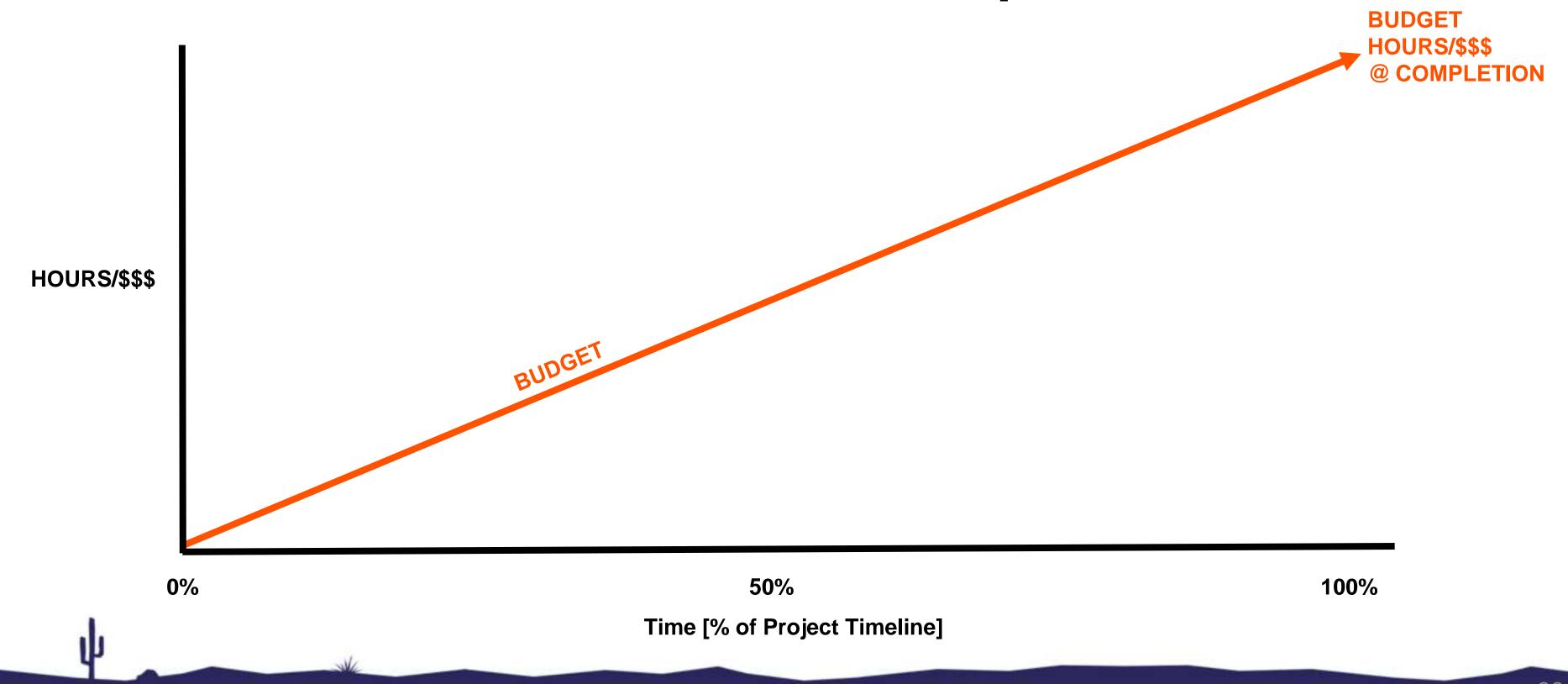
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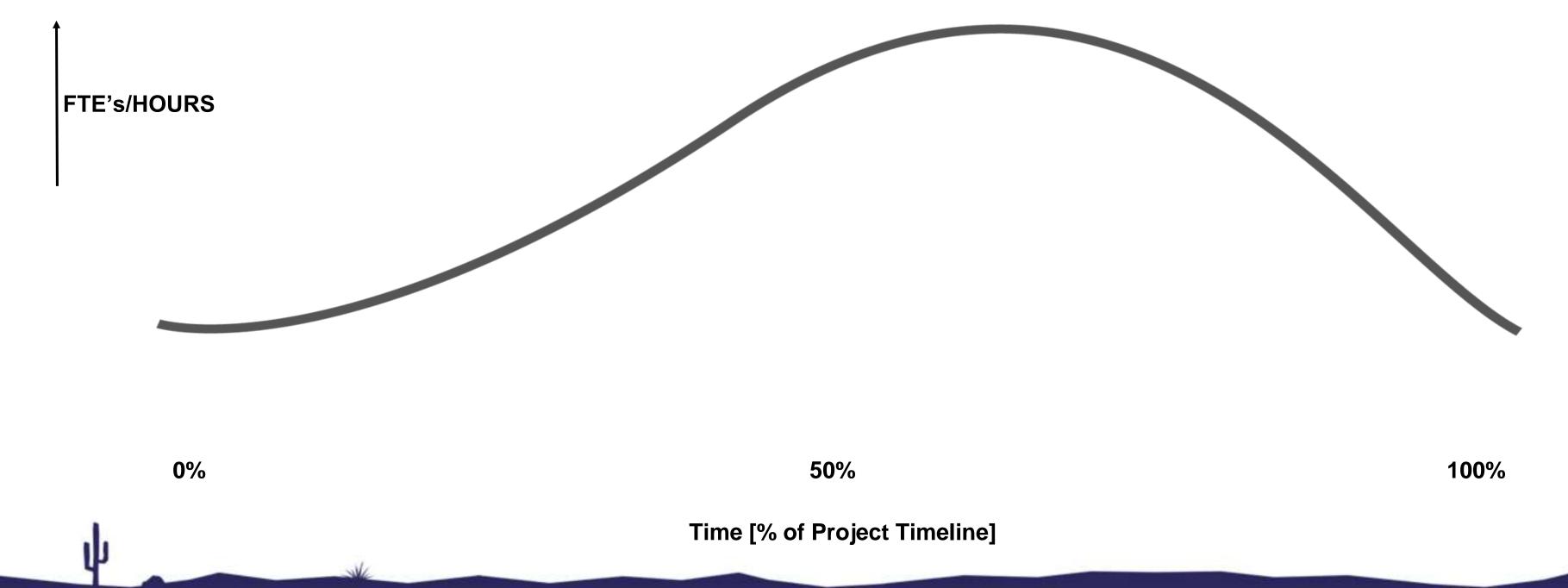
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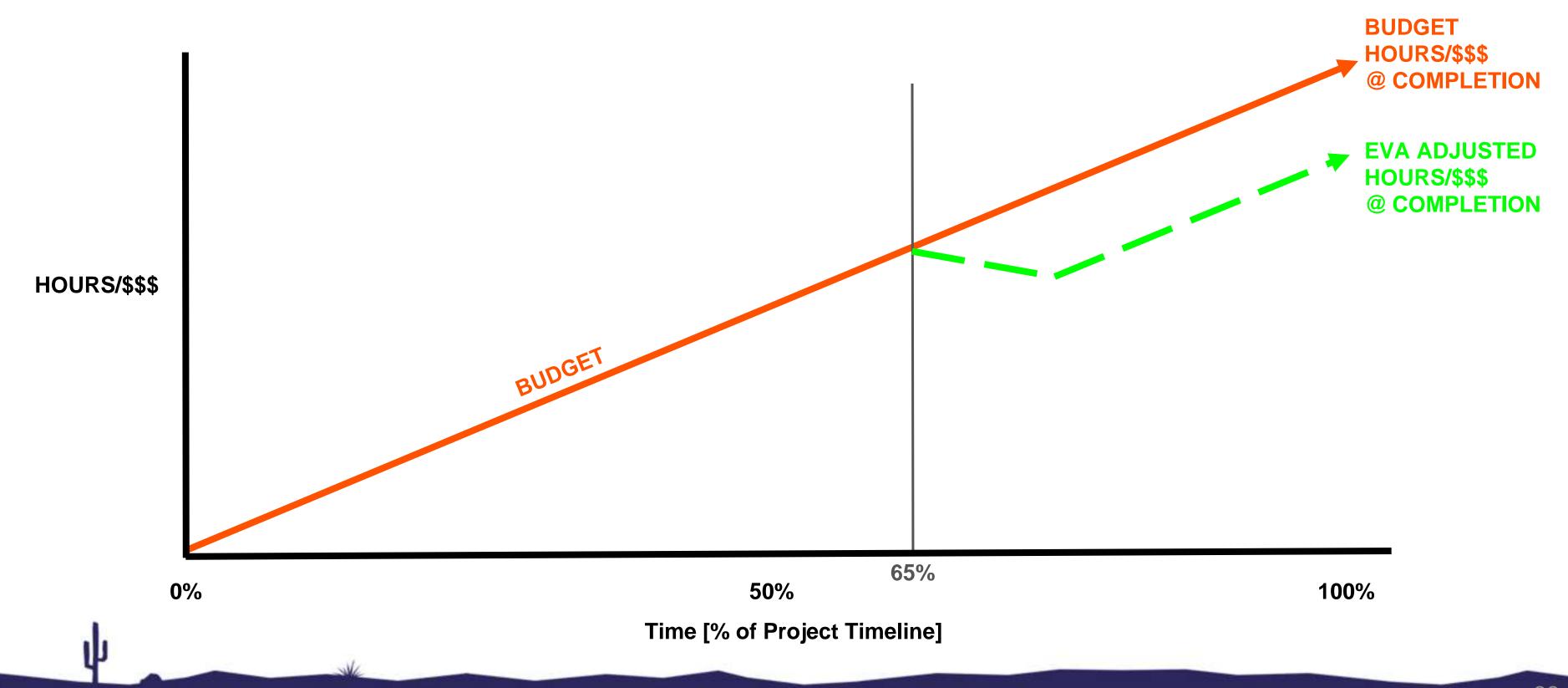
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Our labor plan...

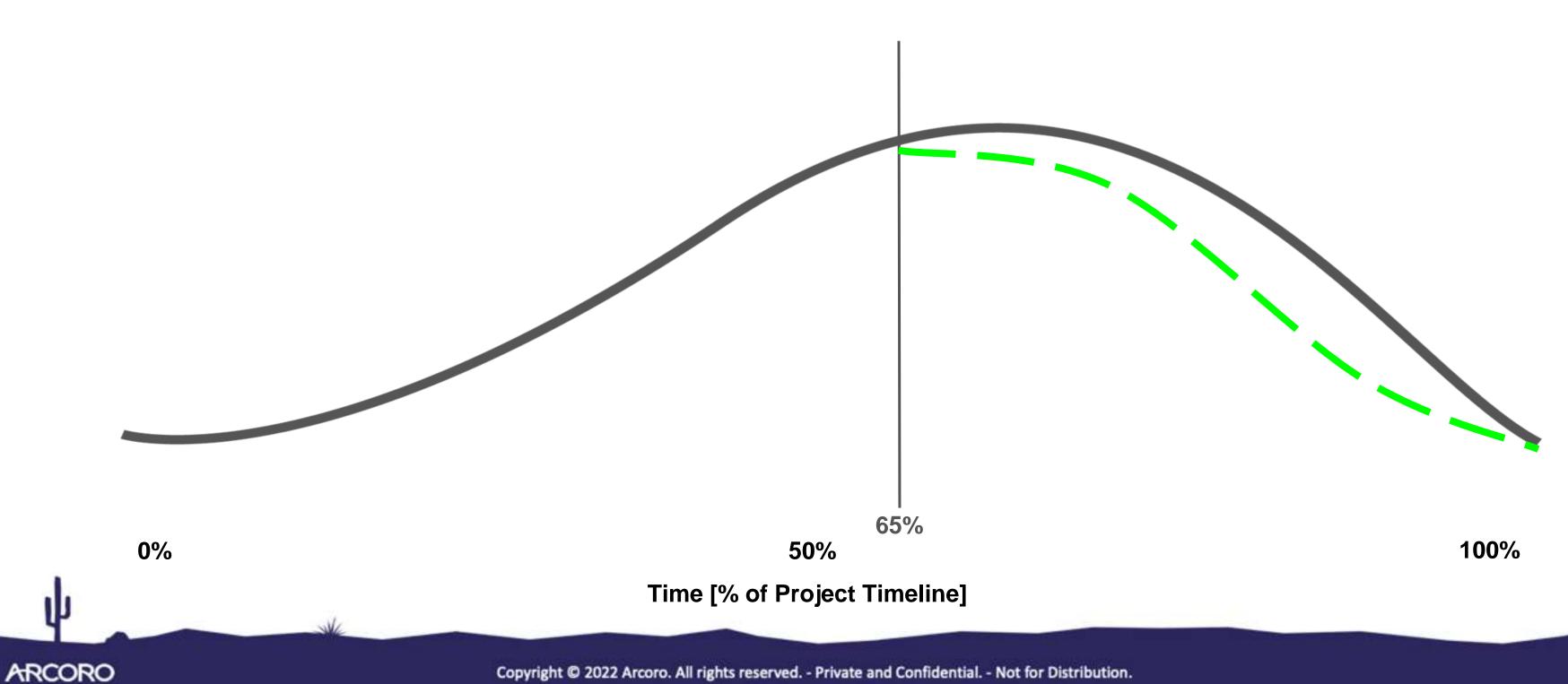


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Our Earned Value w/ Assessed Profit...

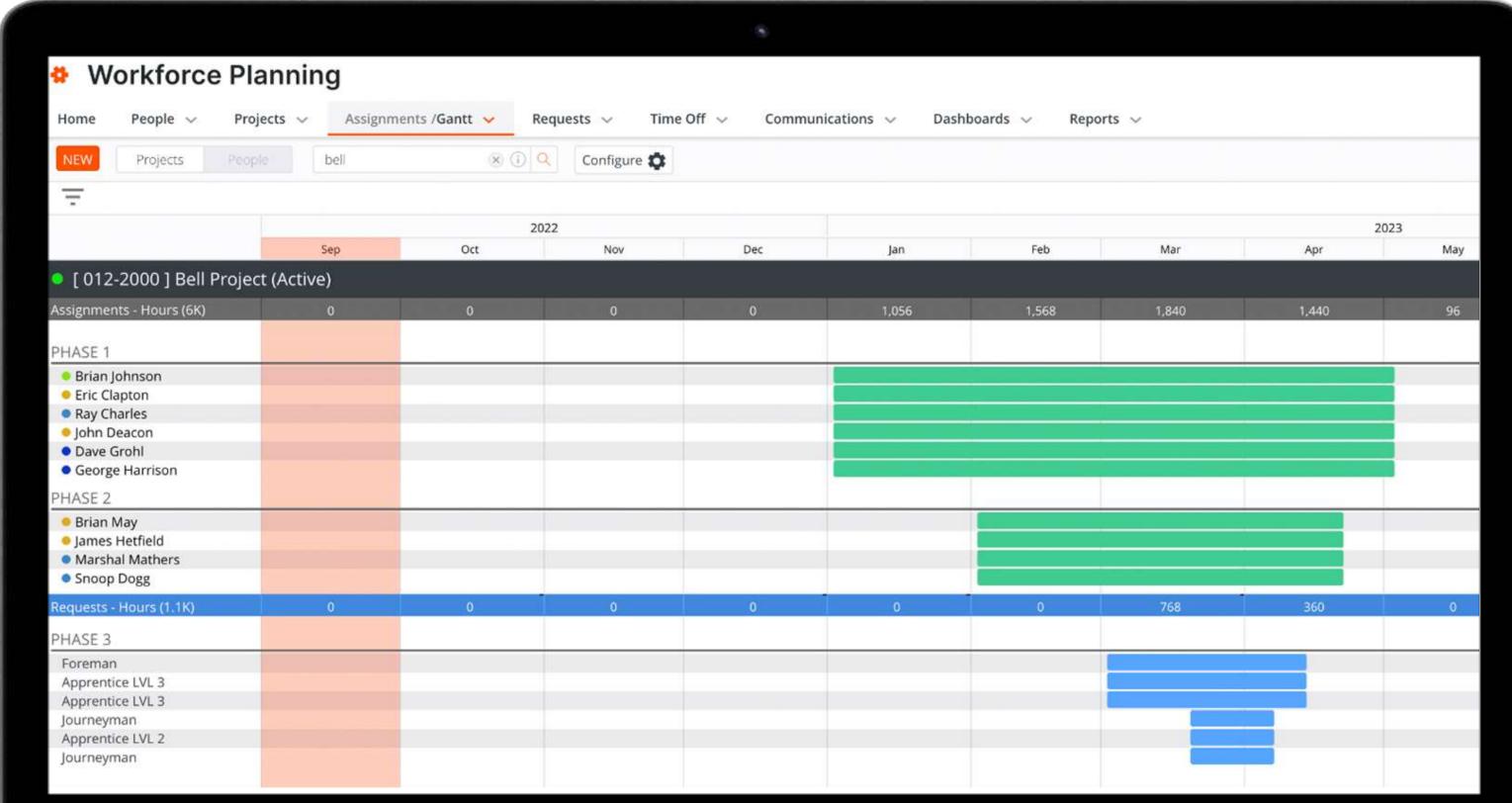


Update the plan... or lose the earnings in the end.



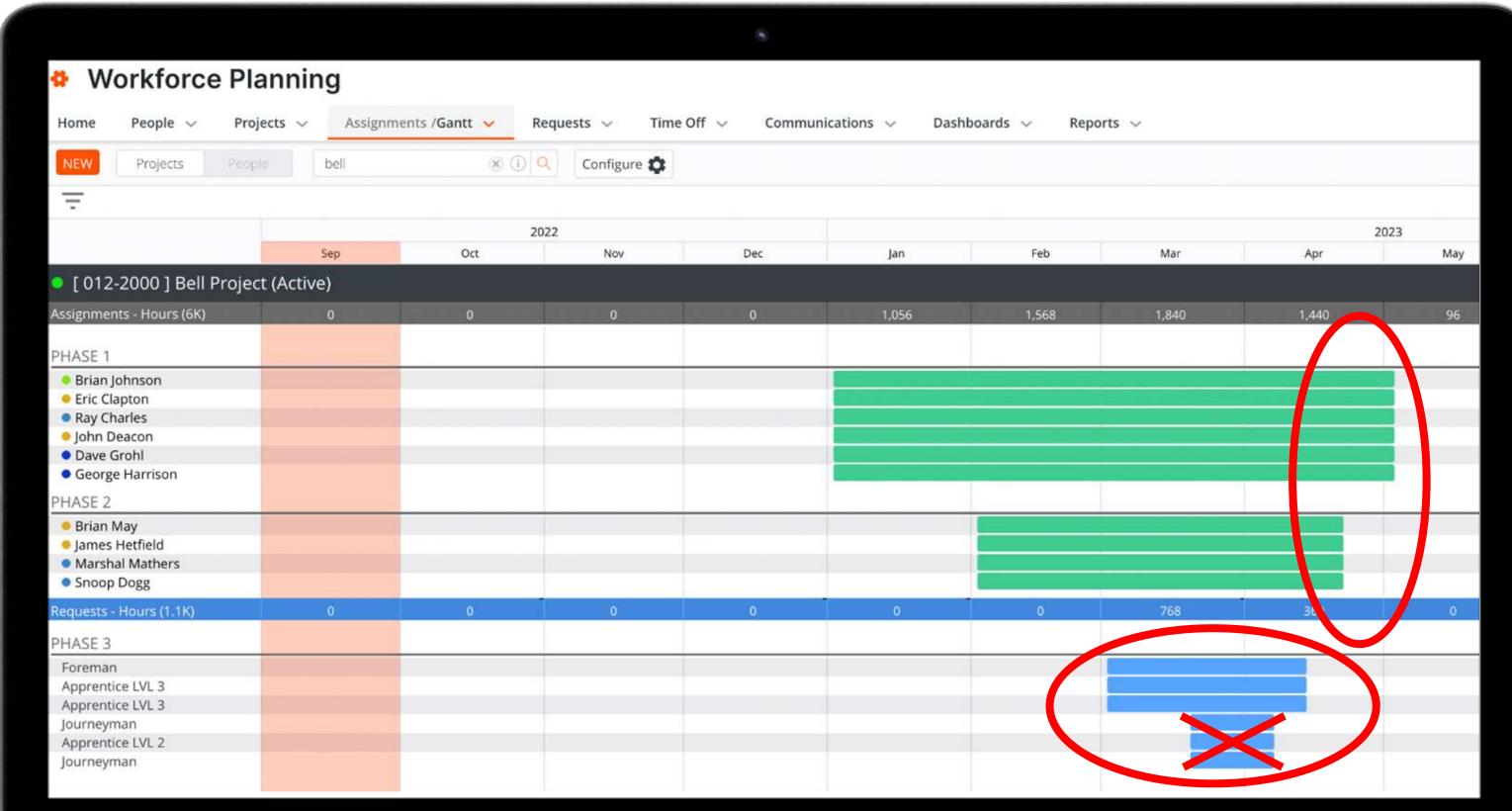
— ALIGNING EARNED VALUE & THE LABOR PLAN

Update the plan... or lose the profits in the end.



— ALIGNING EARNED VALUE & THE LABOR PLAN

Update the plan... or lose the profit in the end.



Stabilize WIPs, Forecasts, & the Workforce

[5min]



Plan and conduct EVA across every project

PROJECTS	EVA HOURS/\$\$\$ @ COMPLETION	HOURS/\$\$\$ PLANNED	SYNCED?
Project #1	1000	1000	YES
Project #2	500	500	YES
Project #3	1500	1500	YES
Project #4	100	150	NO
Project #5	500	400	NO



Stabilize WIP's, Forecasts, & the Workforce

PROJECTS	EVA HOURS/\$\$\$ @ COMPLETION	HOURS/\$\$\$ PLANNED	SYNCED?
Project #1	1000	1000	YES
Project #2	500	500	YES
Project #3	1500	1500	YES
Project #4	100	100	YES
Project #5	400	400	YES



PM TEAM

— STABILIZE WIP'S, FORECASTS, & THE WORKFORCE

Accurate Company-Wide Forecasts

Active Resources: 32)22	,		,			2023
I Marie Marie Control of Control	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Assigned - Hours (26.3K)	5,450	4,272	4,664	4,320	2,592	1,592	1,840	1,440	96
Requested - Hours (1.2K)		80					768	360	
Total - Hours (27.5K)	5,450	4,352	4,664	4,320	2,592	1,592	2,608	1,800	96
	2022							2023	
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
[007-1935] BACC REFINERY									
Assigned - Hours (2.8K)	1,576	1,040	232						
Requested - Hours (80)		80							
Total - Hours (2.9K)	1,576	1,120	232						
• [008-1904] BALLPARK RENO	VATION								
Assigned - Hours (2)	2								
Requested - Hours (0)									
Total - Hours (2)	2								
● [012-2000] BELL PROJECT									
Assigned - Hours (6K)					1,056	1,568	1,840	1,440	96
Requested - Hours (1.1K)							768	360	
Total - Hours (7.1K)					1,056	1,568	2,608	1,800	96
• [005-1913] GULF COAST DES	SAL PLANT								
Assigned - Hours (4K)		432	1,584	1,584	384				
Requested - Hours (0)									
Total - Hours (4K)		432	1,584	1,584	384				
[002-1911] INTERNATIONAL	AIRPORT								
Assigned - Hours (2.1K)	1,760	360							
Requested - Hours (0)									
Total - Hours (2.1K)	1,760	360							
● [004-1912] LIGHT RAIL MHSI	R								

— 05

Review

[5min]



— REVIEW OF CONTENTS

- 01. Defined Workforce Management
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Critical & accurate workforce planning made feasible.

Earned Value

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Thank You! Questions? -Please come ask us.







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