

NetPoint + GPM CONFERENCE

May 11 & 12, 2023

Software Innovations for Modeling Acceleration and Recovery at *Gilbane*

Presented by:
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Seve Ponce de Leon

PMI-RMP, PMI-ACP

Seve leads product management for innovation and software at PMA Consultants. He has over 10 years of experience including user research, design, testing, agile methodologies, product strategy, planning, scheduling, and risk management. Seve earned a Bachelor of Science from the University of Wisconsin-Madison.

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Zach Wotherspoon

Gilbane Building Company

At Gilbane, Zach leads the Midwest Scheduling Department. He has 19 years of experience in the Engineering and Construction market, 17 of them spent with Gilbane. Zach also leads the company's Scheduling Peer Group. He is a LEED accredited professional. Zach earned a Bachelor of Science from the Wentworth Institute of Technology in Boston. Zach's passion is focused around building high-quality schedules during the Preconstruction phase of the project and managing schedule risk during the Construction phase.

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AGENDA

Gilbane

&

NetPoint®

What-if Analysis

Project Summit

Demo

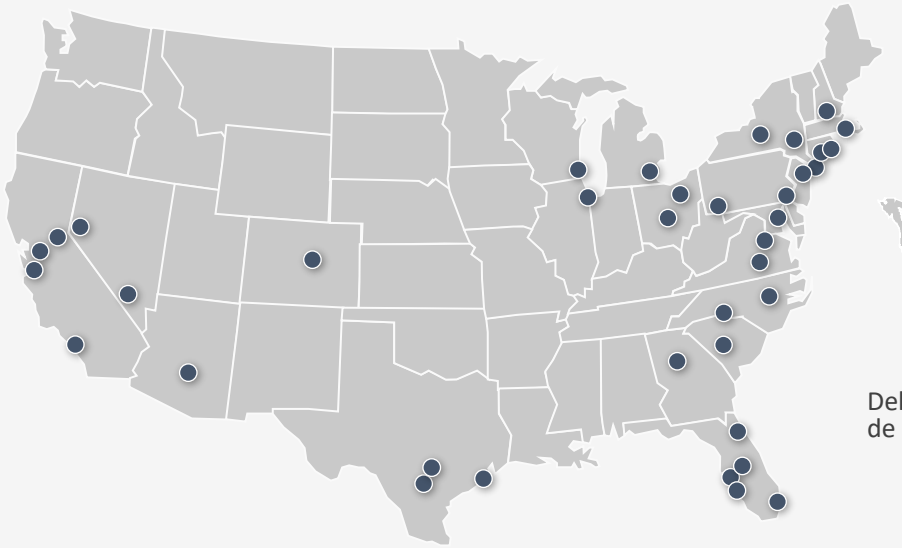
Roadmap

Q&A

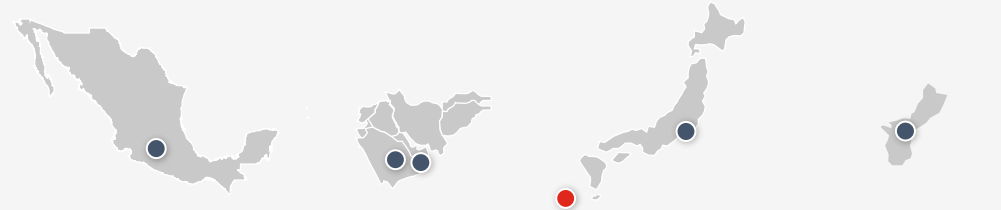
Gilbane & NetPoint

How Gilbane uses NetPoint for planning and scheduling

Gilbane



45+ Offices Worldwide



Deleg, Cuajimalpa de Morelos, Mexico

Riyadh, Saudi Arabia
Dubai, UAE

Okinawa, Japan
Tokyo, Japan

Hagatna, Guam

Our Core Values

- Teamwork
- Integrity
- Tough-mindedness
- Dedication to Excellence
- Loyalty
- Discipline
- Caring
- Entrepreneurship

Founded in
1870

Employees
3,100+

Annual Revenue
$6.5 billion

Over
75%
of our work is from repeat clients

GILBANE & PMA

15+ Projects Since 2004



5 K-12

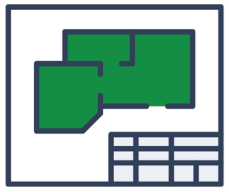
3 Higher Education





3 Transportation

1 Amphitheater





1 Pharma

1 Utility





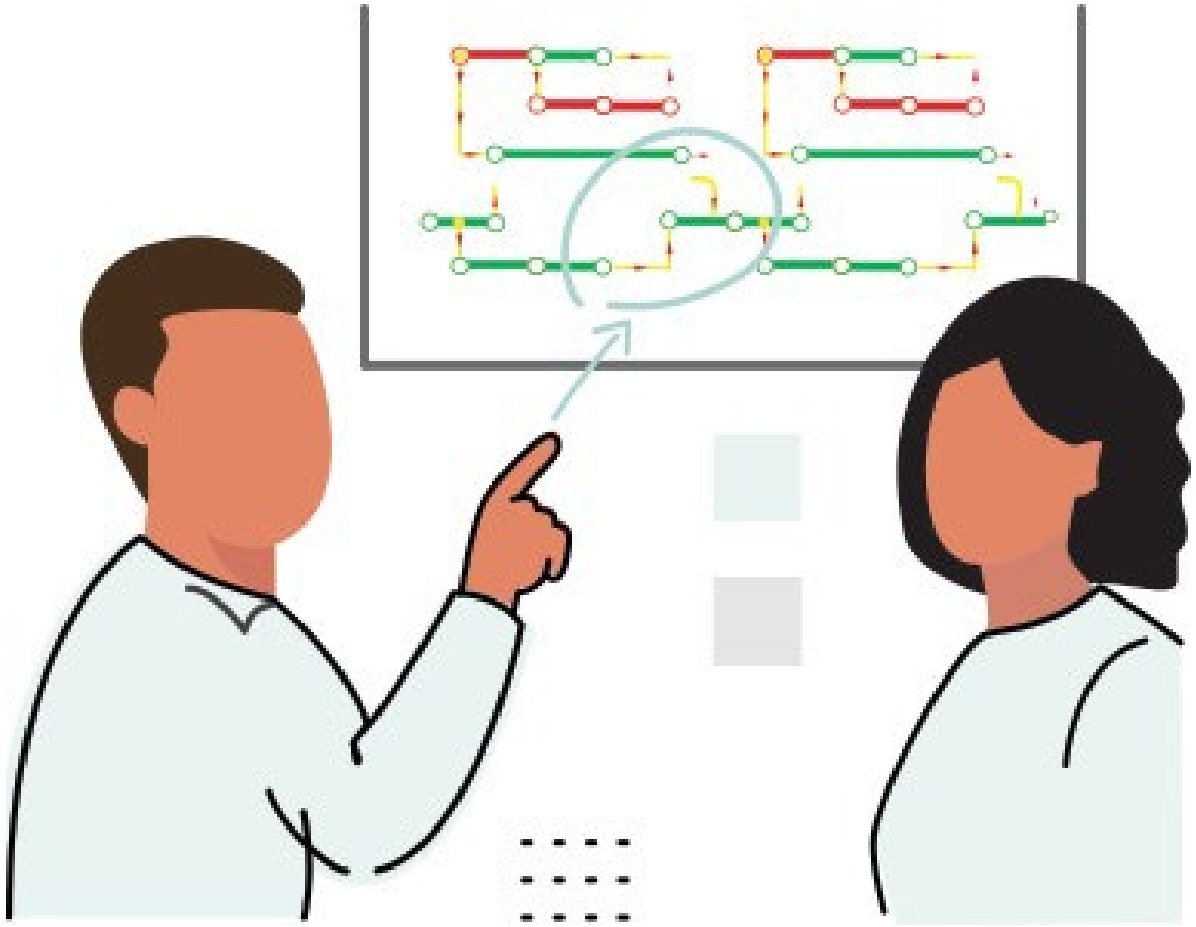
1 Corporate

NetPoint®

First License	2009
Total Licenses	12
Total Users	20

NETPOINT AT GILBANE

- Initially, Netpoint is used to develop our baseline schedule
- We start at a high level with extended-duration activities to put together a Level 1 schedule
- Through scheduling workshops with the necessary stakeholders, we will utilize Netpoint to build the client's portion of the project or a specific phase with the subcontractor
- Gilbane also utilizes Netpoint to conduct push and pull plans

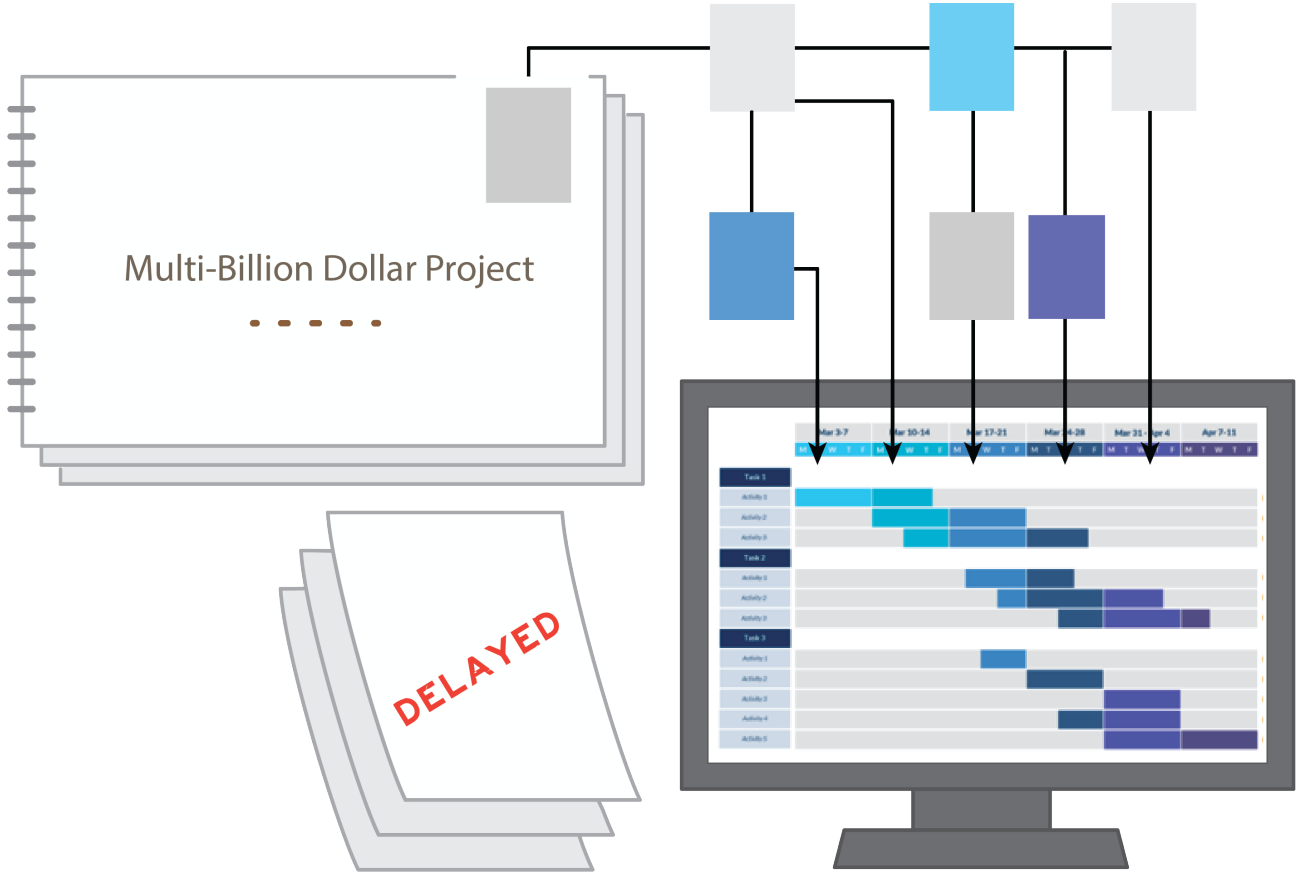


What-if Analysis

An overview of the current process
for modeling recovery
and acceleration at Gilbane

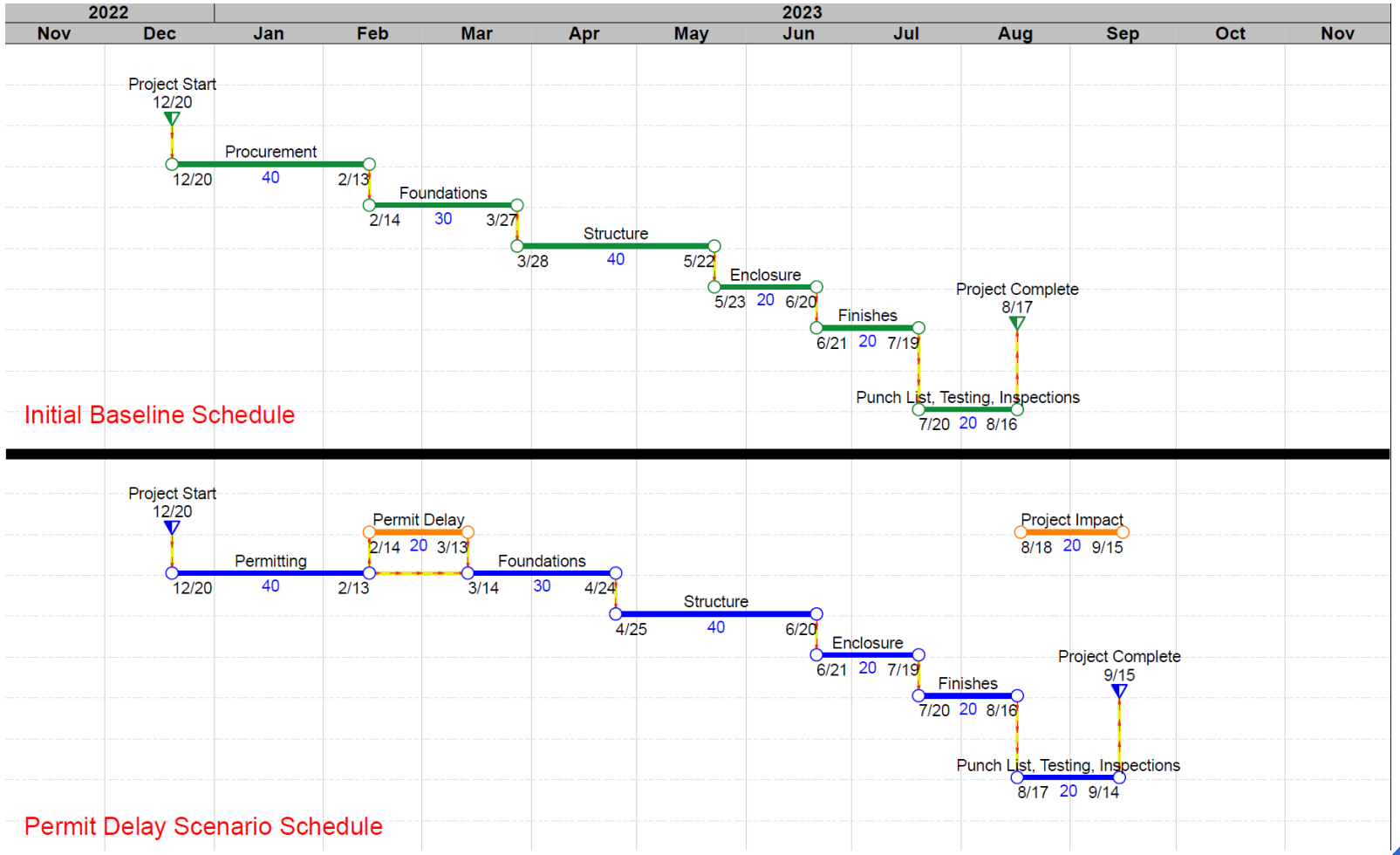
What-if Scenario Analysis

- Gilbane also uses Netpoint to perform schedule scenarios
- Netpoint allows us and our client or other stakeholders on projects to visually see the delay that a decision or impact may be having on the project schedule
- With GPM, the display is often more understandable than you may find in other scheduling software



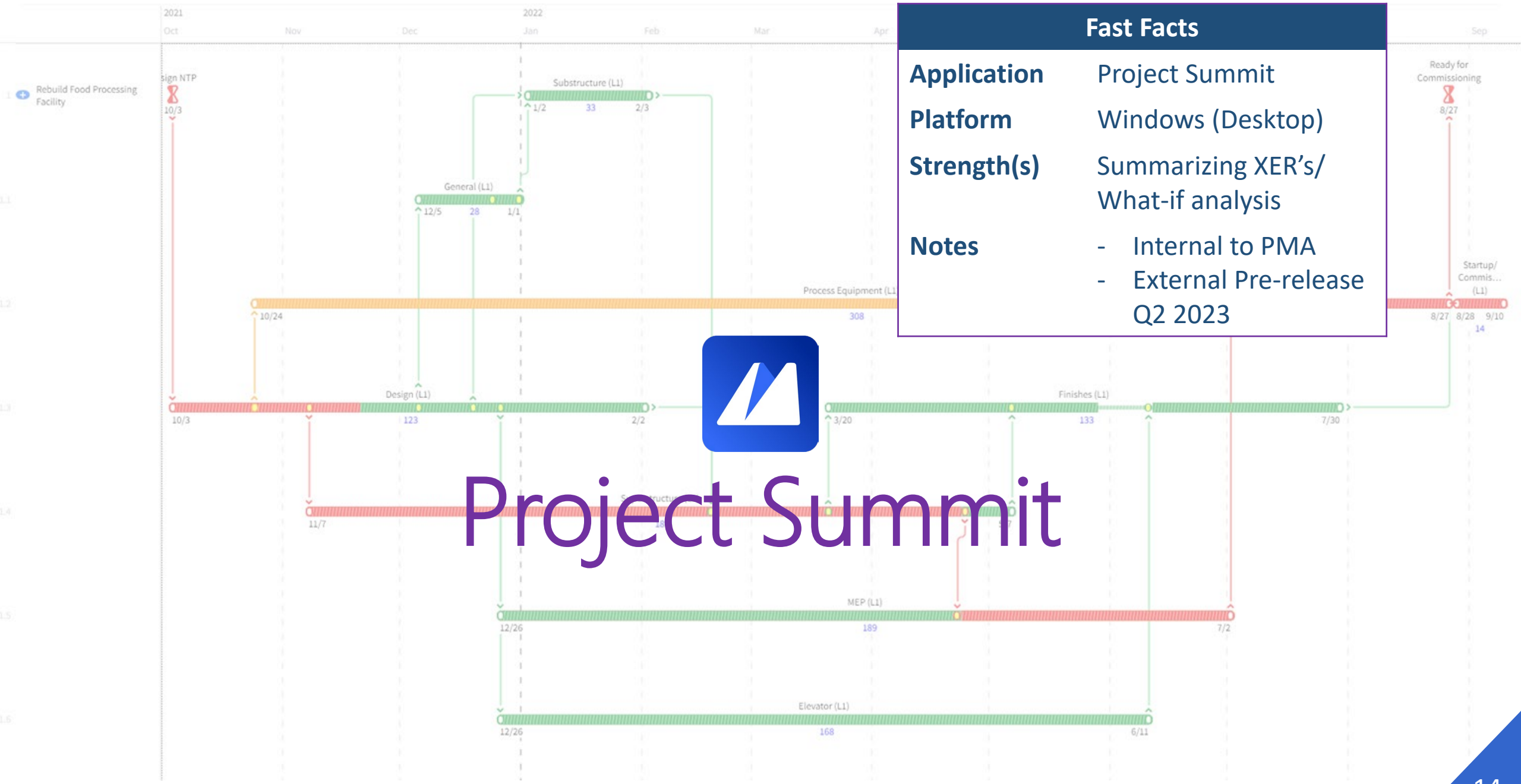
What-if Scenario Analysis

- We will overlay our original plan with a scenario that may have an impact or delay to the project.
- This is a simple and effective way of showing how a permit delay or extension will impact your critical path
- A major challenge is printing to one page to effectively show all the detail necessary and ensuring there is connectivity to your master/contract schedule



Project Summit

What is Project Summit and how it can be used for collaborative what-if scenario analysis



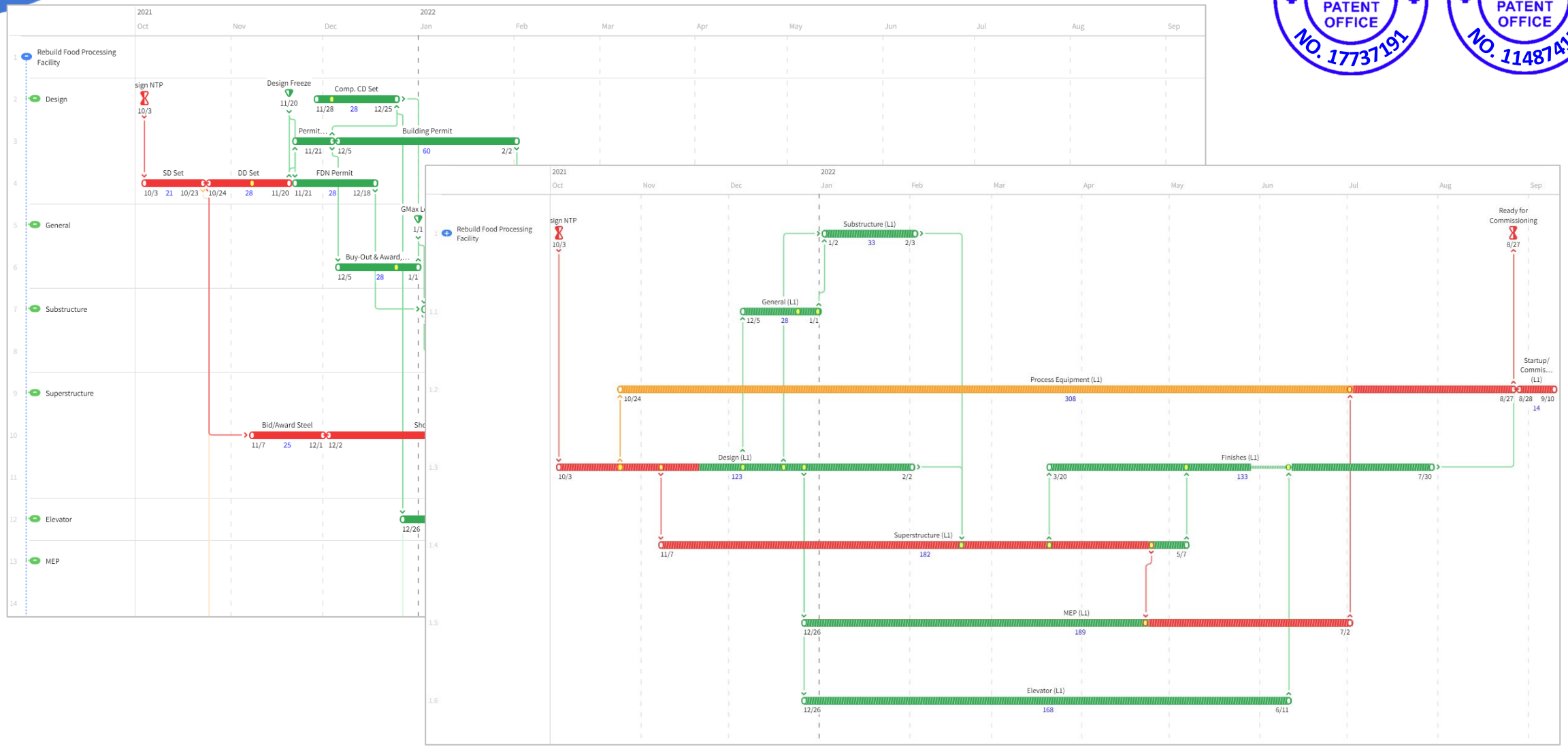
Fast Facts	
Application	Project Summit
Platform	Windows (Desktop)
Strength(s)	Summarizing XER's/ What-if analysis
Notes	- Internal to PMA - External Pre-release Q2 2023

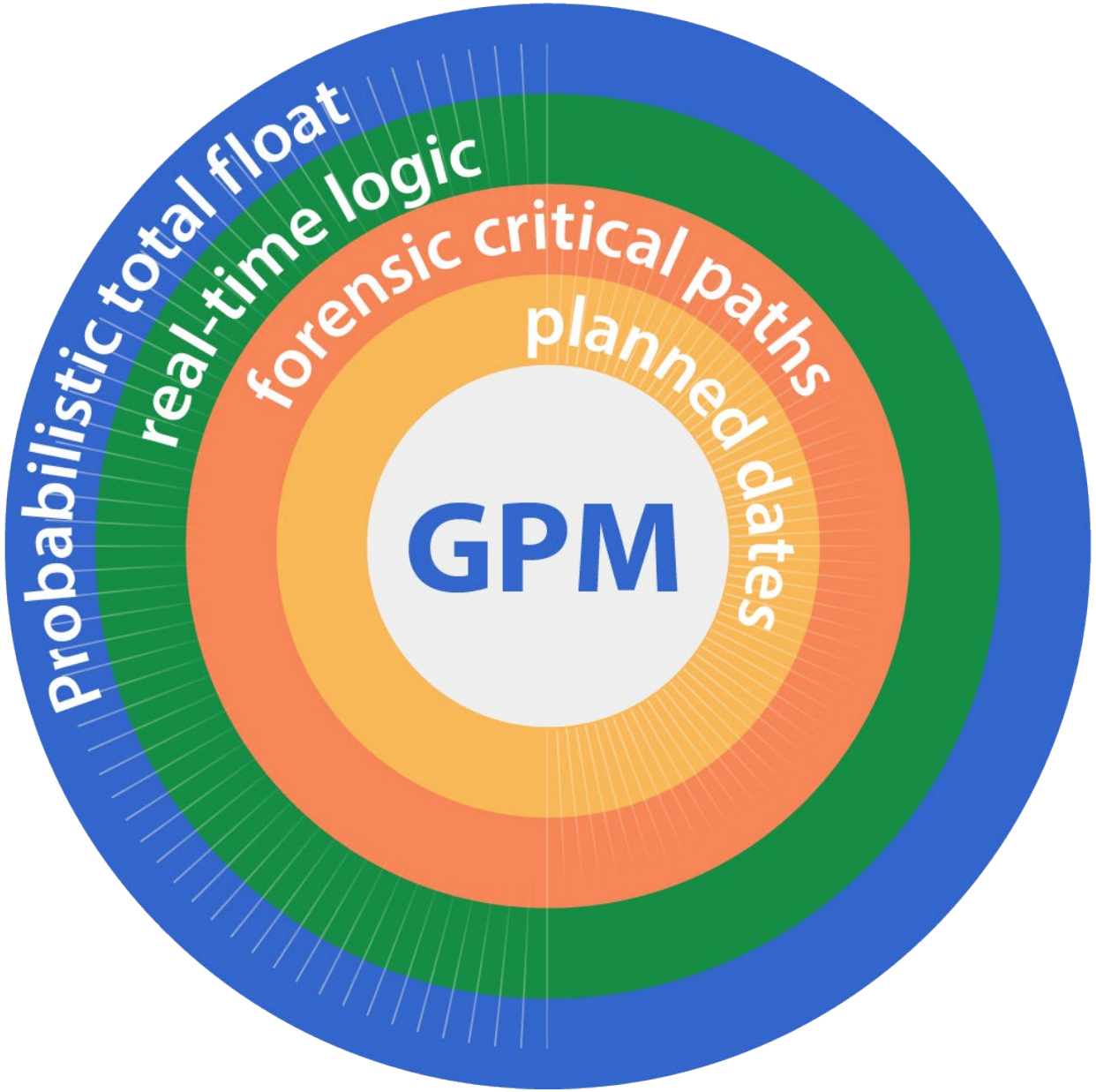
Project Summit

Summarizing



1. Engaging non-scheduling stakeholders in replanning to recover delay
2. Attaching a one-page schedule in monthly progress reports
3. Building summarized, equivalent schedule models for risk assessments
4. Performing observational as-planned vs. as-built delay analyses
5. Visually explaining to stakeholders schedule issues needing resolution

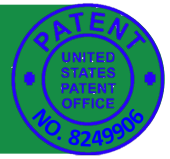

2021
Oct
Nov
Dec
2022
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Rebuild Food Processing Facility
Design
General
Substructure
Superstructure
Elevator
MEP
sign NTP
10/3
Design Freeze
11/20
Comp. CD Set
11/28
28
12/25
Permit...
Building Permit
11/21
12/5
60
2/2
SD Set
DD Set
FDN Permit
10/3
21
10/23
10/24
28
11/20
11/21
28
12/18
GMax L...
1/1
Buy-Out & Award,...
12/5
28
1/1
Bid/Award Steel
11/7
25
12/1
12/2
12/26
Substructure (L1)
1/2
33
2/3
General (L1)
12/5
28
1/1
Ready for Commissioning
8/27
Process Equipment (L1)
10/24
308
Startup/ Commis... (L1)
8/27
8/28
9/10
14
Design (L1)
10/3
123
2/2
Finishes (L1)
3/20
133
7/30
Superstructure (L1)
11/7
182
5/7
MEP (L1)
12/26
189
7/2
Elevator (L1)
12/26
168
6/11


Probabilistic total float
real-time logic
forensic critical paths
planned dates
GPM

The GPM Difference

GPM

Real-time logic
The schedule updates instantly ***while moving the mouse.*** Unrivaled for interactive planning sessions, collaboration, what-ifs, etc.



Planned dates
Flexibility to ***place activities freely*** instead of using constraints and breaking float continuity



forensic critical paths
Total floats and critical path/s ***continue on left of the data date*** for forensic delay analysis



probabilistic total float
See the effect of float-use on completion distributions. ***Mitigate the risk of float-use*** with "safe float" thresholds



Traditional CPM

Batch forward/backward pass scheduling algorithm requires F9 or letting go of the mouse to see updates

Must use no-earlier-than start dates which ***sacrifice float continuity***

Total floats and critical path/s ***do not exist left of the data date without cumbersome workarounds***

Activities simulated on ***early dates only*** with ***no insight*** into how float-use affects p values

Demo

Roadmap

What's coming up?

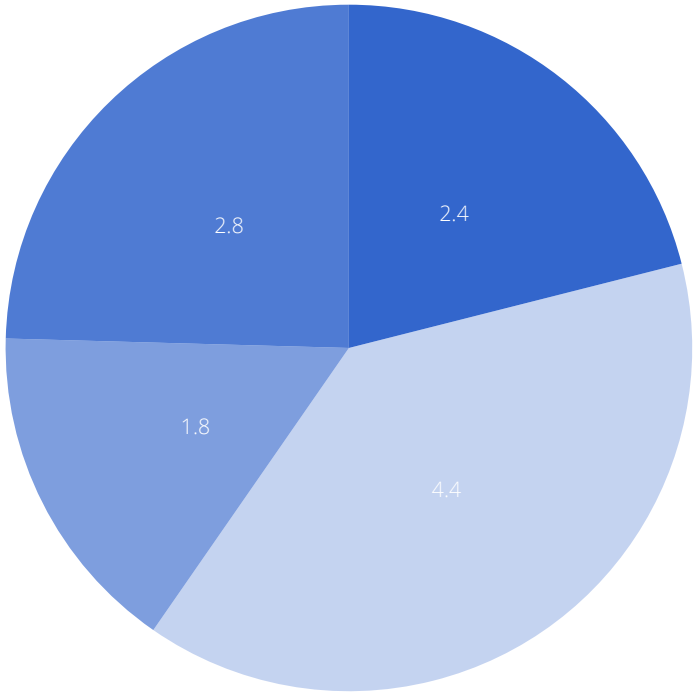
ROADMAP

A single schedule for every planner and scheduler, owner and contractor alike

	NOW	NEXT	LATER
Build & Maintain Schedules at Multiple Levels of Detail in Less Time	Building a Summary for/of a Collaborative What-if Scenario Analysis	Maintaining a Summary for Monthly Progress Reporting	Building an Up-front Plan for IPS
		Building a Summary of Multiple Projects/Portfolios	Look-aheads/Detailed Schedule Development
		Building a Summary for Risk Analysis	Concurrent Collaboration
			Turnaround Planning
			Building a Summary for Claims/Delay Analysis

POLL

What would you most like to see tackled using the Project Summit platform?



a) FTE Hours-based Resource Analysis across Multiple Projects

b) Building an Upfront Plan for IPS

c) Look-ahead's or Detailed Schedule Development

d) Real-time Concurrent Collaboration

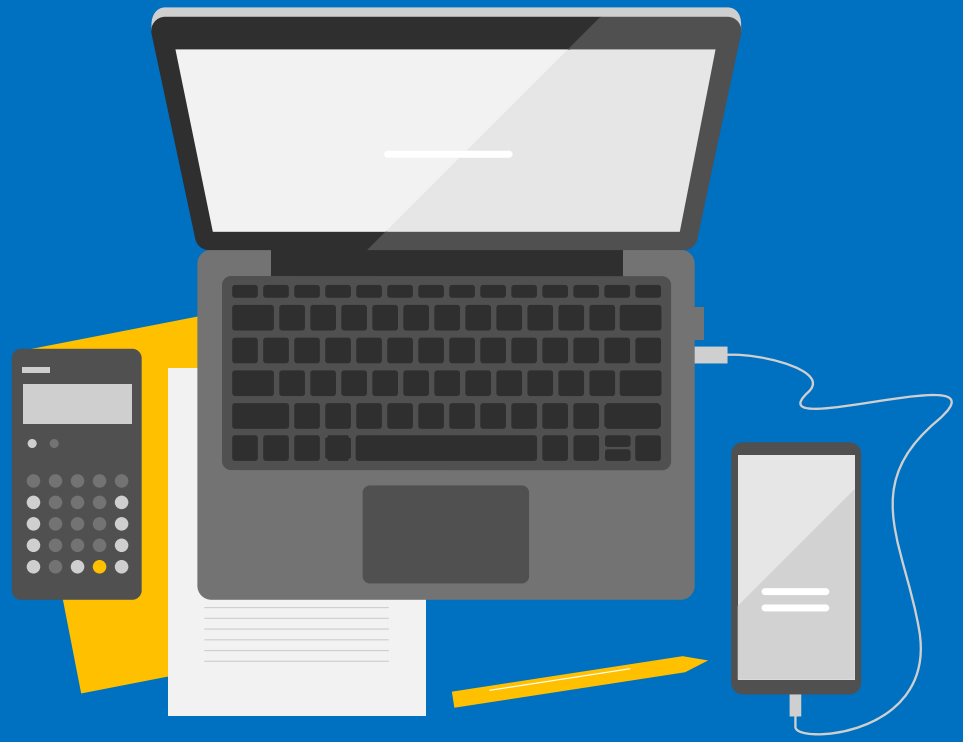
e) Turnaround Planning

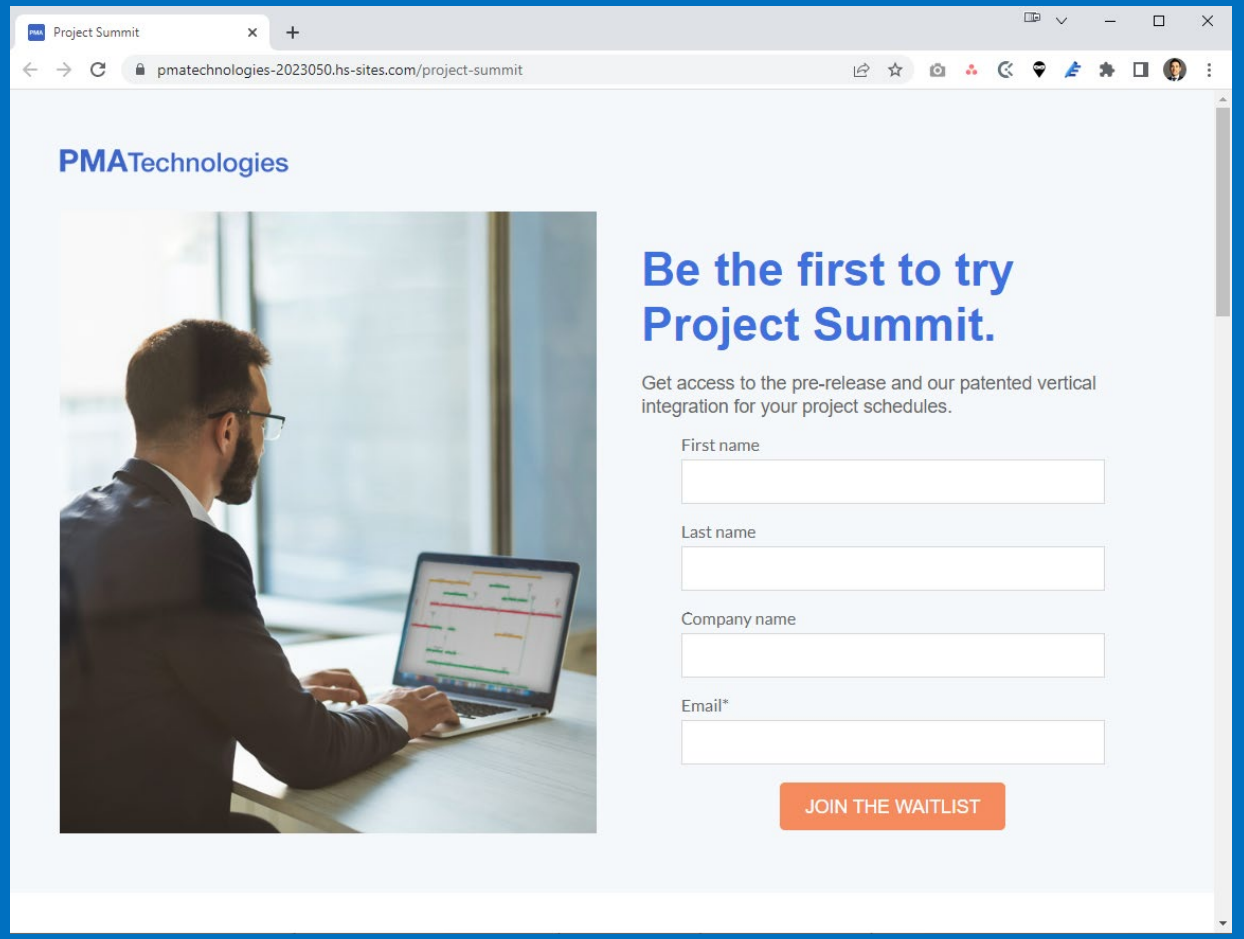
f) Claims Delay Analysis

g) Schedule Quality Validation

Stay Updated

- Pre-release Q2
- Email, Lounge, Announcement





Q&A

Thank you to the Development Team!



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Agile Project Delivery



Alex Siedband
Product Design



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Software Engineering



Arunee Prather
QA Engineering



Jose Fernandez
Software Engineering



Juan Carlos Angeles
Software Engineering



Sergio Ponce de Leon
Product Management



Stacy O'Malley
Software Engineering



Vishal Mhatre
QA Engineering



Vivek Puri
Operations



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