NetPoint+GPM CONFERENCE

May 16, 2024 | **Online**

Enhancing Stakeholder Understanding of Complex What-if Analysis



Presented by:

Seve Ponce de Leon
Alexander Neary
Gerald Rosario

Presentation Team



Seve Ponce de Leon

Senior Director,
Product Management, Innovation
PMA Consultants

seve@pmaconsultants.com



Alexander Neary

Senior Associate,
Product Management
PMA Consultants

aneary@pmaconsultants.com



Gerald Rosario

Principal Civil Engineer
Stantec

gerald.a.rosario@stantec.com

STANTEC & PMA

7 Projects Since 2017



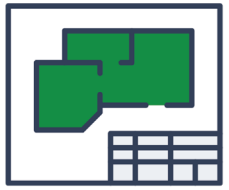
3 Transportation



2
Water/Wastewater



1
Healthcare



1 Government and Public Facilities

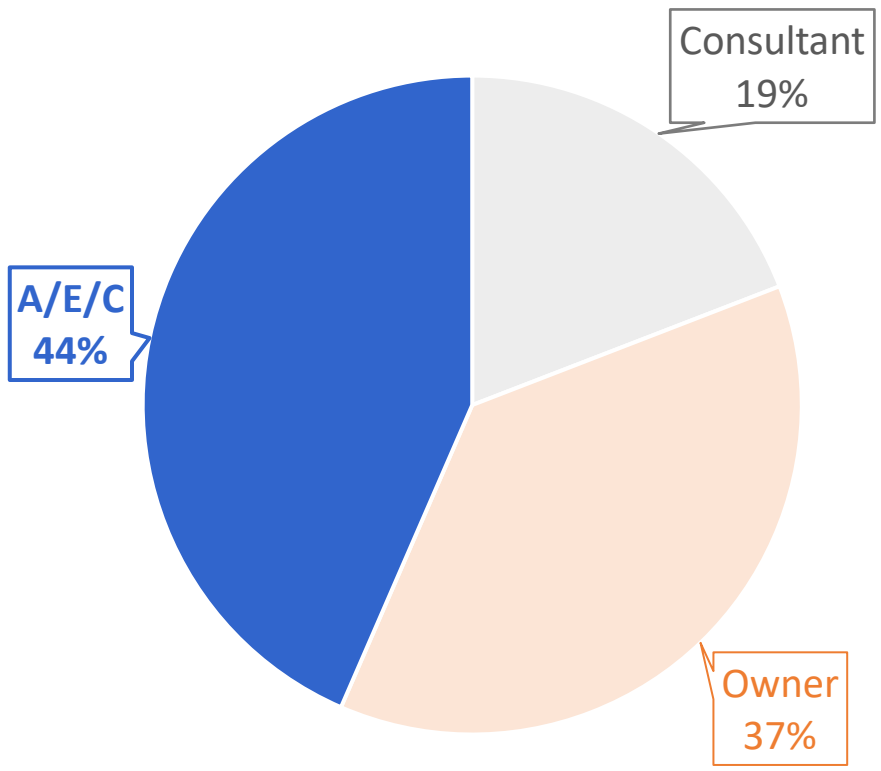
NetPoint®

First License 2020

Total Licenses 1

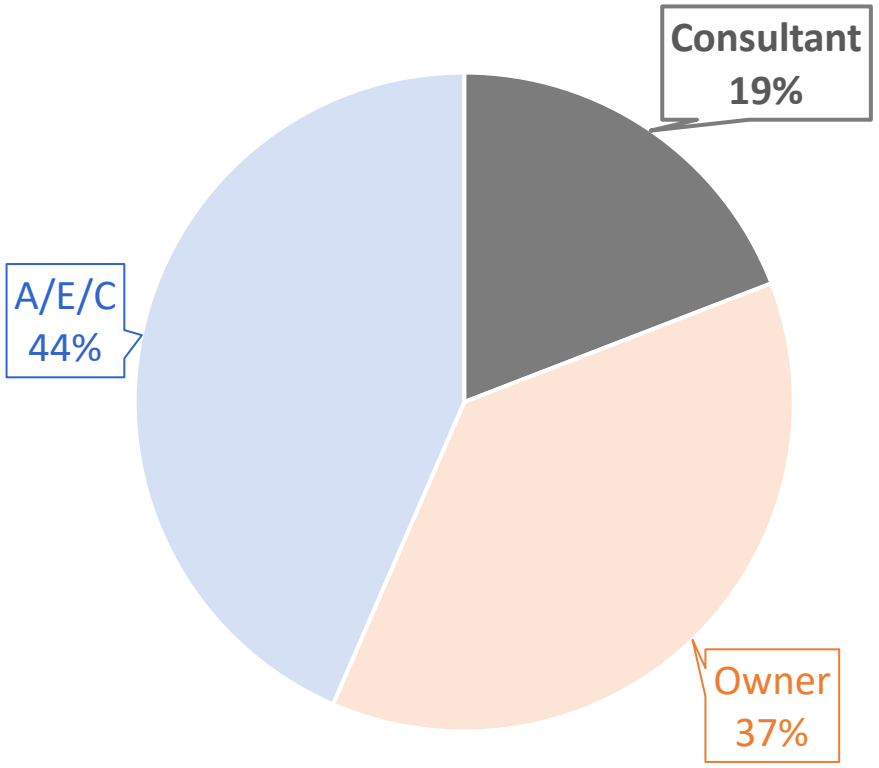
Total Users 3

Current NetPoint Customer Segments – A/E/C

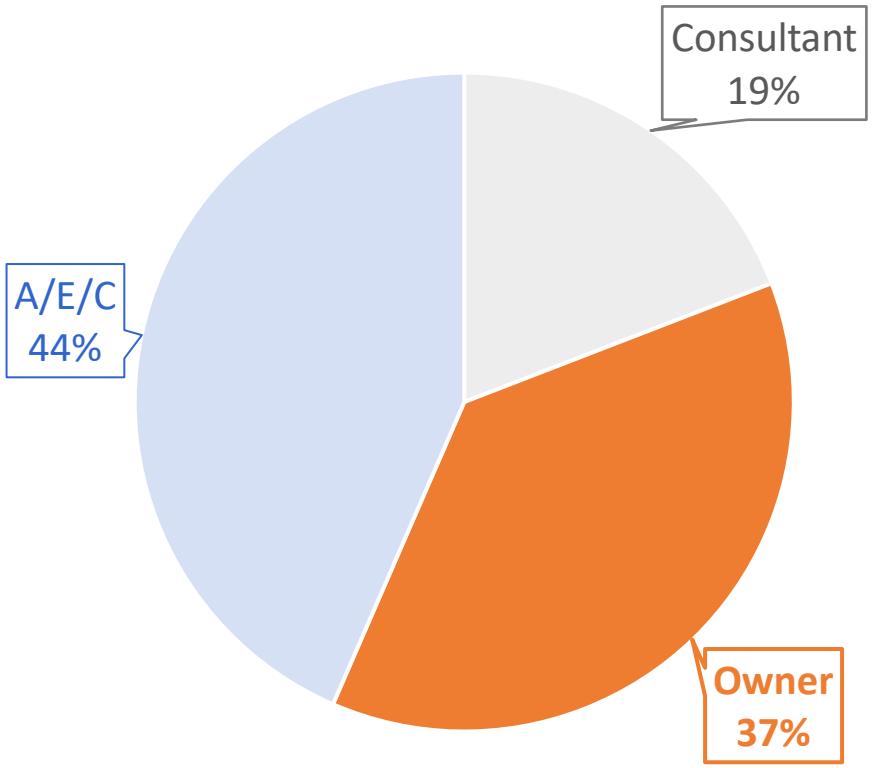


AECOM · Ørsted · ARCADIS · CAJUN INDUSTRIES, LLC · Barton Malow · ATKINS · CCG Coastal Construction Group LLC · DPS GROUP · Eichleay · FLUOR · FRASER CONSTRUCTION · EMSI · MCS international · hargrove · Gilbane · HDR · Golder Associates · JACOBS · MADDOX ELECTRIC • TELECOM • UTILITY · JESA · MONCON CONSORTIUM · Stantec · reliablecontrols CORPORATION · Turner · WT WHITING-TURNER · VIGEN CONSTRUCTION · wood. · MMR · AoA · WSP · Worley energy | chemicals | resources · URBAN ENGINEERS · HATCH · ASPECT ENGINEERING GROUP · MILLENIA ENGINEERING · ATIXIS · PATON · KBR · CDI BUILDING STRONGER COMMUNITIES · MEP ENGINEERING · INDEMAND INDUSTRIAL SERVICES · eci group ECI · Simon Carves · ITEC · BURNS McDONNELL · Alberici · FORGES TARDIEU INNOVATIVE ENGINEERING · Kiewit · REDPATH · BLACK & VEATCH · MEGA

Current NetPoint Customer Segments – Consultants

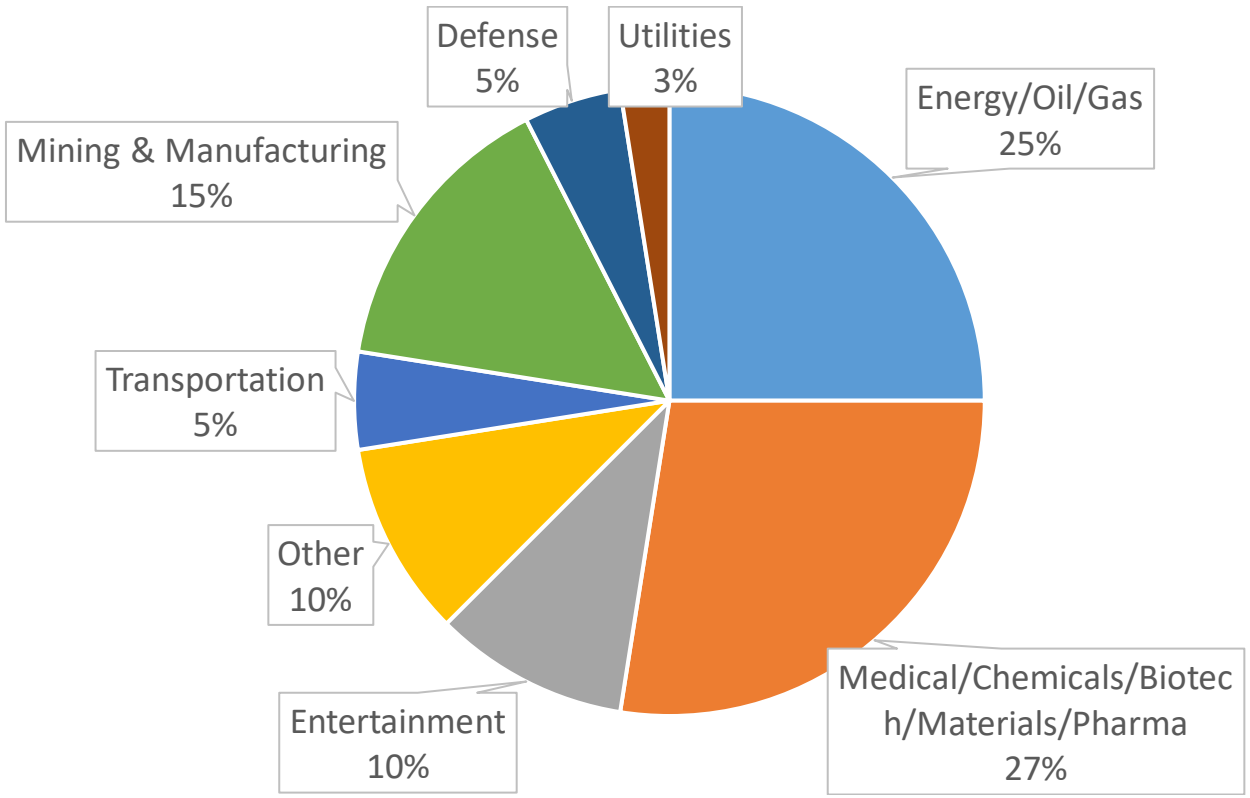


Current NetPoint Customer Segments – Owners



INEOS
BEACH ENERGY
The Walt Disney Company
FLINT HILLS resources
INVISTA
Genentech
KOCH
Los Alamos NATIONAL LABORATORY
MARATHON
MEG ENERGY
MEOW WOLF
bp
NACERO
novozymes
OBAMA FOUNDATION
Port of LONG BEACH THE PORT OF CHOICE
SHANGHAI DISNEY RESORT 上海迪士尼度假区
SIEMENS Healthineers
Southern New Hampshire University
TRANSNET BW
WEC Energy Group
AIR PRODUCTS
FMG Fortescue
DOW
lendlease
Cargill
EVRAZ
RUC MINING CERTAINTY UNDERGROUND
JIGPC
RioTinto
NJTRANSIT The Way To Go.
centrica
Johnson & Johnson MEDTECH
Takeda
ORIGIN
US Army Corps of Engineers Louisville District
BOEING
YARA
MERLIN ENTERTAINMENTS
Invenergy
LIBERTY
Spark THERAPEUTICS
HARMONY

Current NetPoint Customer Segments – Owners by Industry

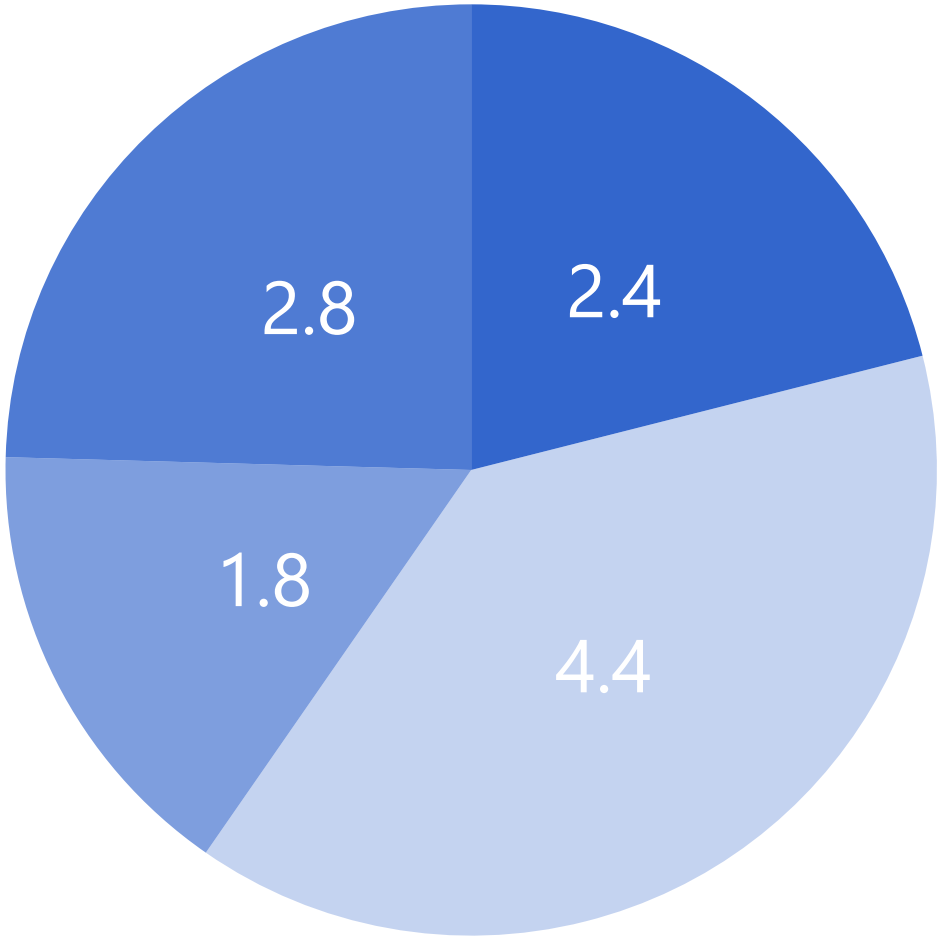


INEOS · Beach Energy · Flint Hills Resources · Invista · Genentech · Koch · Los Alamos National Laboratory · Marathon · MEG Energy · Meow Wolf · bp · Nacero · novozymes · Obama Foundation · Port of Long Beach The Port of Choice · Shanghai Disney Resort 上海迪士尼度假区 · Siemens Healthineers · Southern New Hampshire University · TRANSNET BW · WEC Energy Group · FMG Fortescue · Dow · lendlease · Cargill · Evraz · RUC Mining Certainty Underground · JIGPC · Rio Tinto · Air Products · Johnson & Johnson MedTech · Takeda · NJ TRANSIT The Way To Go. · centrica · YARA · Merlin Entertainments · Invenergy · Liberty · Spark Therapeutics · Harmony

Poll

What type of company are you working for?

a) AEC/EPC
b) CM/PM Consultants
c) Owner



Agenda

Project Summit

Scheduling Use Cases

Stantec & Project Summit

Demo

Roadmap

Q&A

The Project Summit Difference

NetPoint+ GPM CONFERENCE

Stakeholder Understanding of What-Ifs

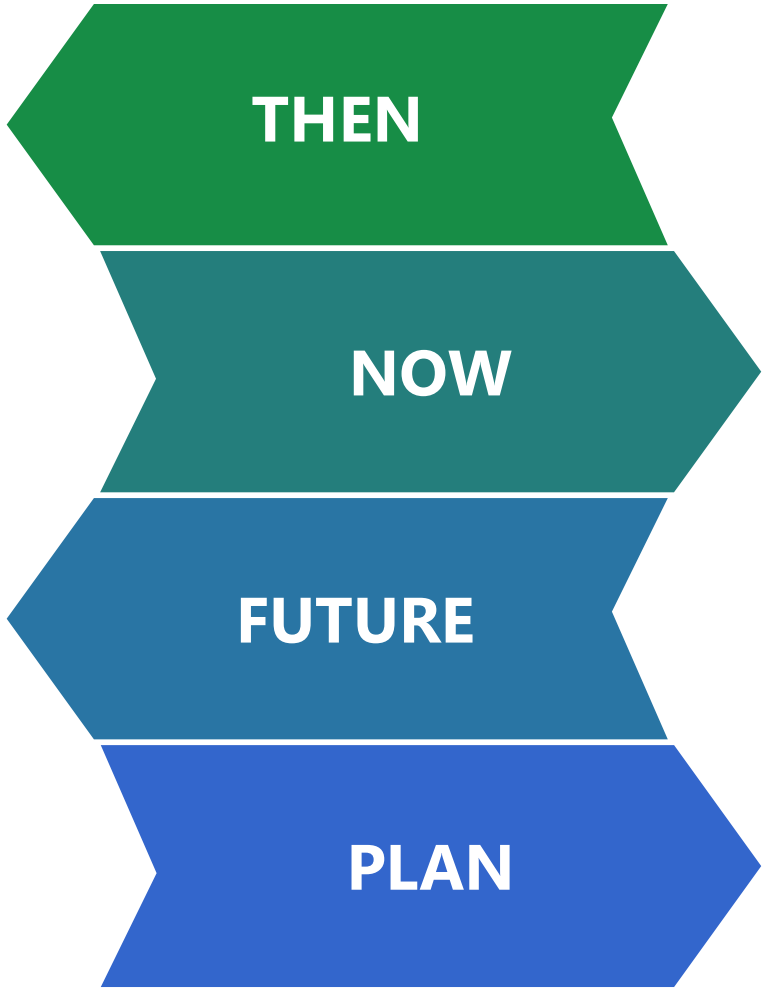
Schedules as Stories and Narratives

Where The Project Was

Schedules communicate actual progress, providing stakeholders with insight into deviations from the original plan and lessons learned

Where a Project Can Go

Schedule "What-if" scenarios illustrate potential outcomes based on different decisions and events, offering stakeholders a range of possible paths to project completion



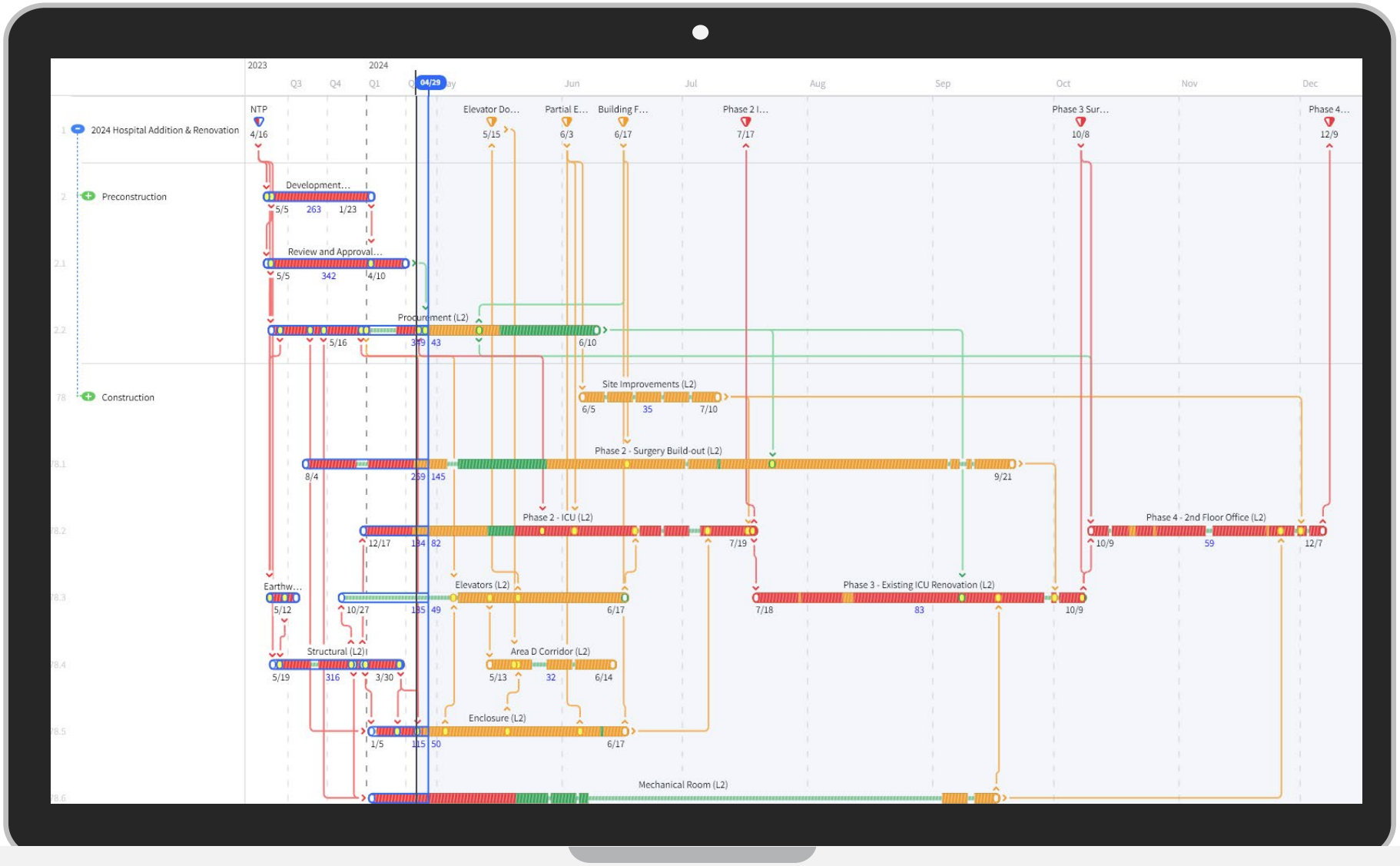
Where the Project Is

Schedules outline the current progress on tasks and remaining activities, helping stakeholders understand today's project's status and project forecasted completion

What is the New Project Plan

Merging a revised plan integrates the best activity sequences and recovery strategies, enhancing the likelihood of project success

Forensic Critical Paths



CPM Forensic Scheduling

Time-consuming critical path analysis

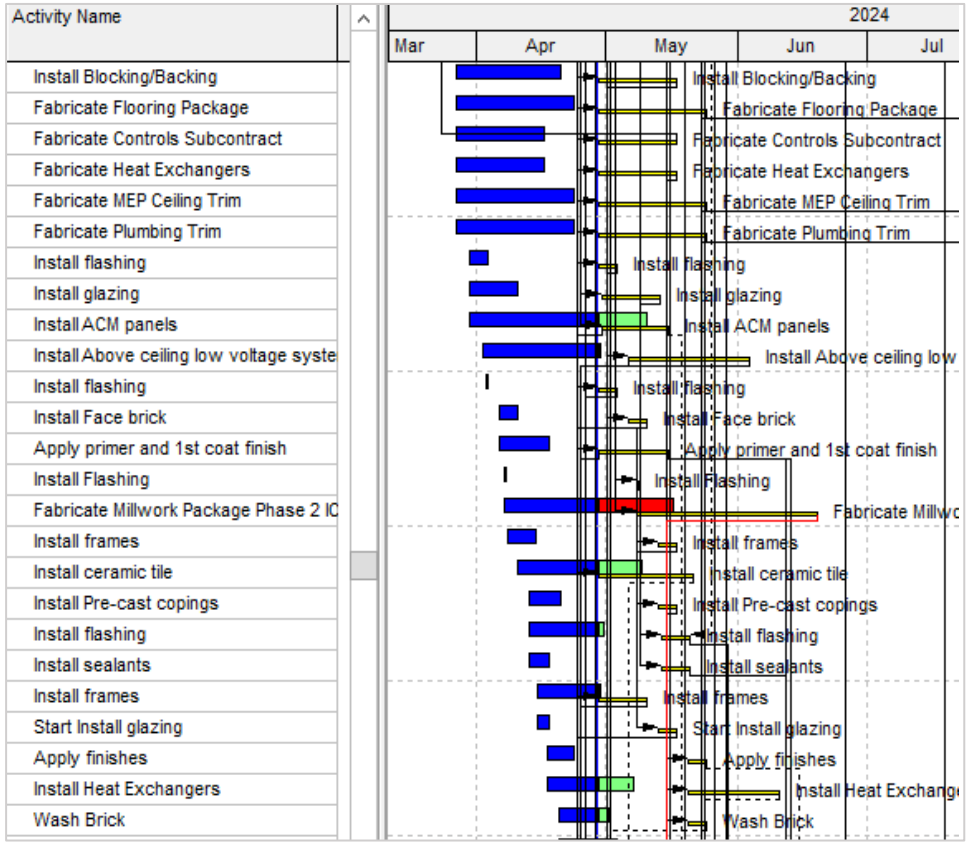
Once activities are actualized in a CPM network, total float data to the left of the data date is lost

Forensic critical paths using CPM is time consuming and requires specialized skills

Windows Analysis | Time Impact Analysis (TIA)

Real-time strategic use of forensic critical paths in CPM is unfeasible

Lessons Learned | Addressing Time-Impact



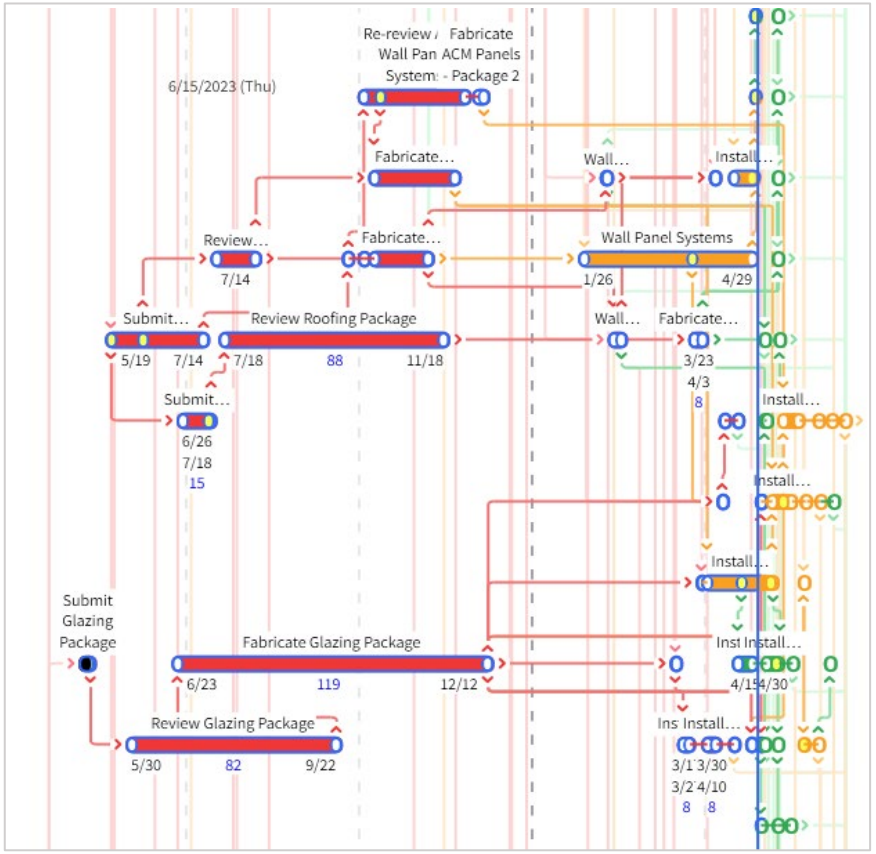
GPM Forensic Scheduling

As-built critical path solution

- Total Floats are Calculated Left of Data Date
- As-Built Critical Path Exists for Actualized Activities

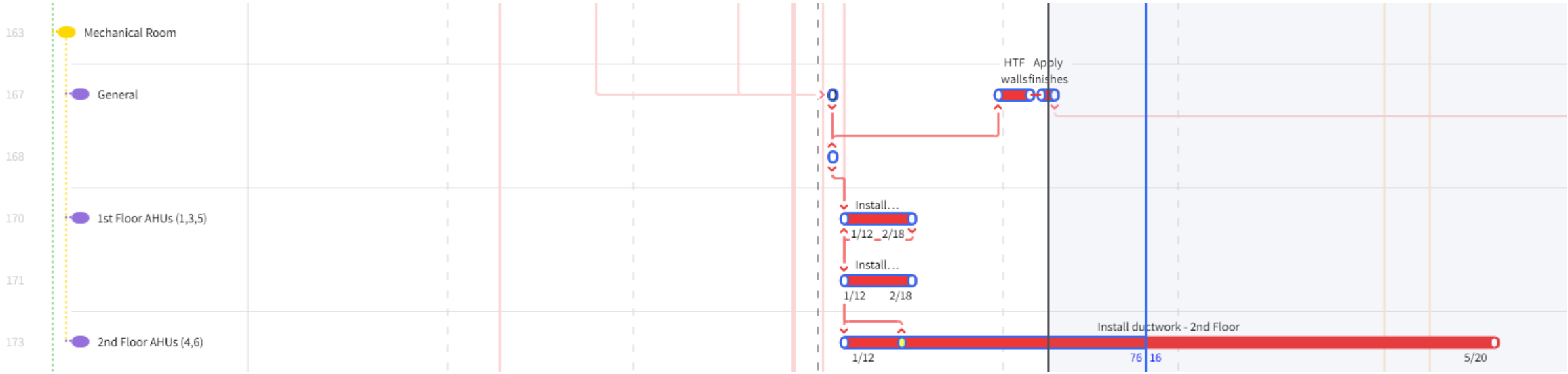
NetPoint Strengths

- Higher Level Planning
- Importing Small Schedules
- Manual Summarization for Larger Schedules



GPM Forensic Scheduling

Project Summit: An Evolutionary Step



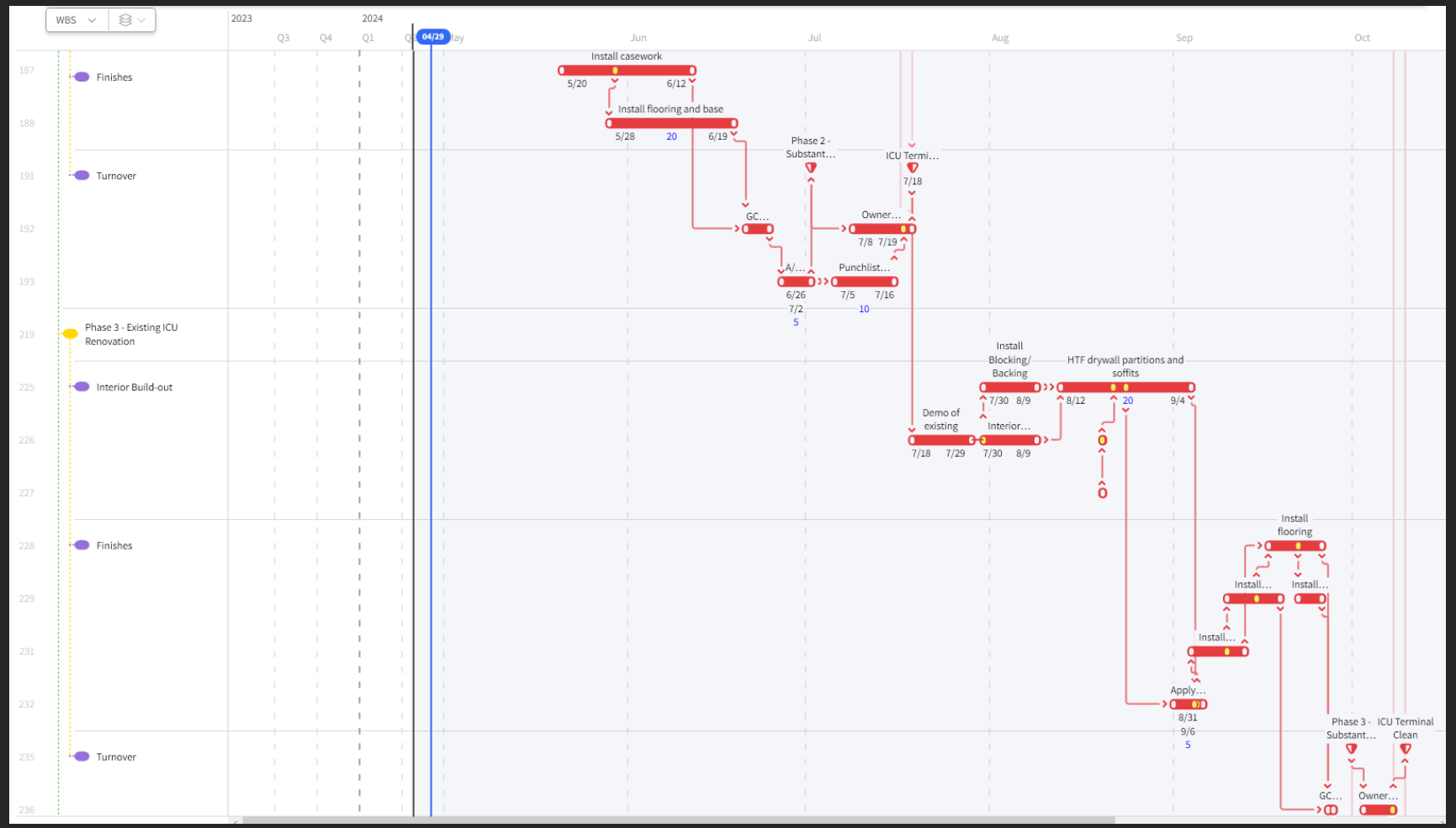
The benefits of GPM forensic schedule analysis

Efficient import and review of large (+1000 activity) schedules

Maintain schedule detail without time consuming and error prone manual synthesis

Comparing baselines?

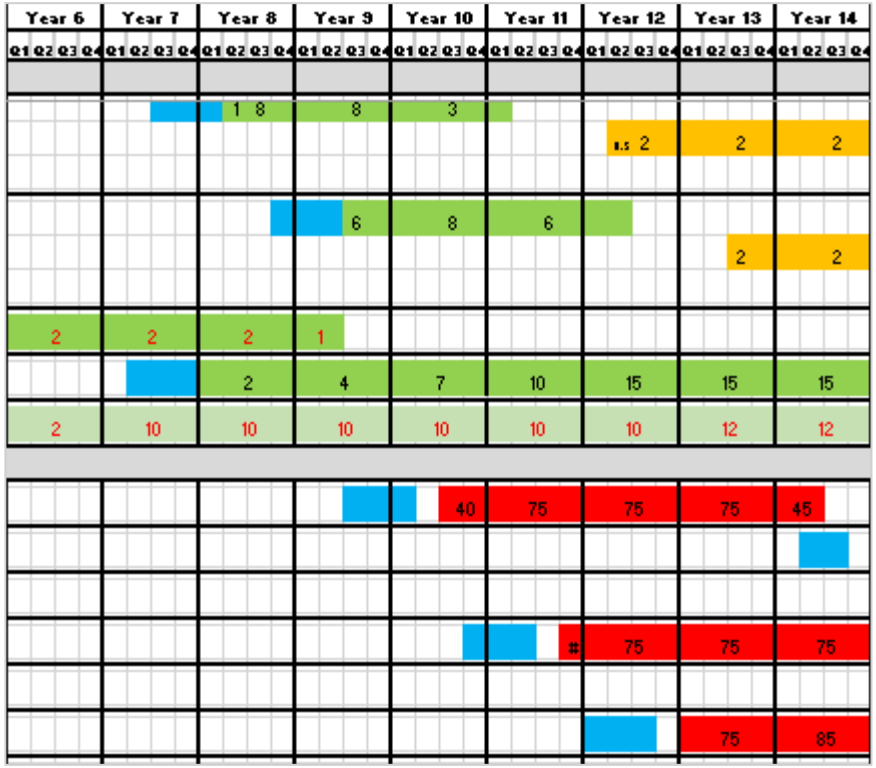
Schedule Communication



Communicating Complex Schedules

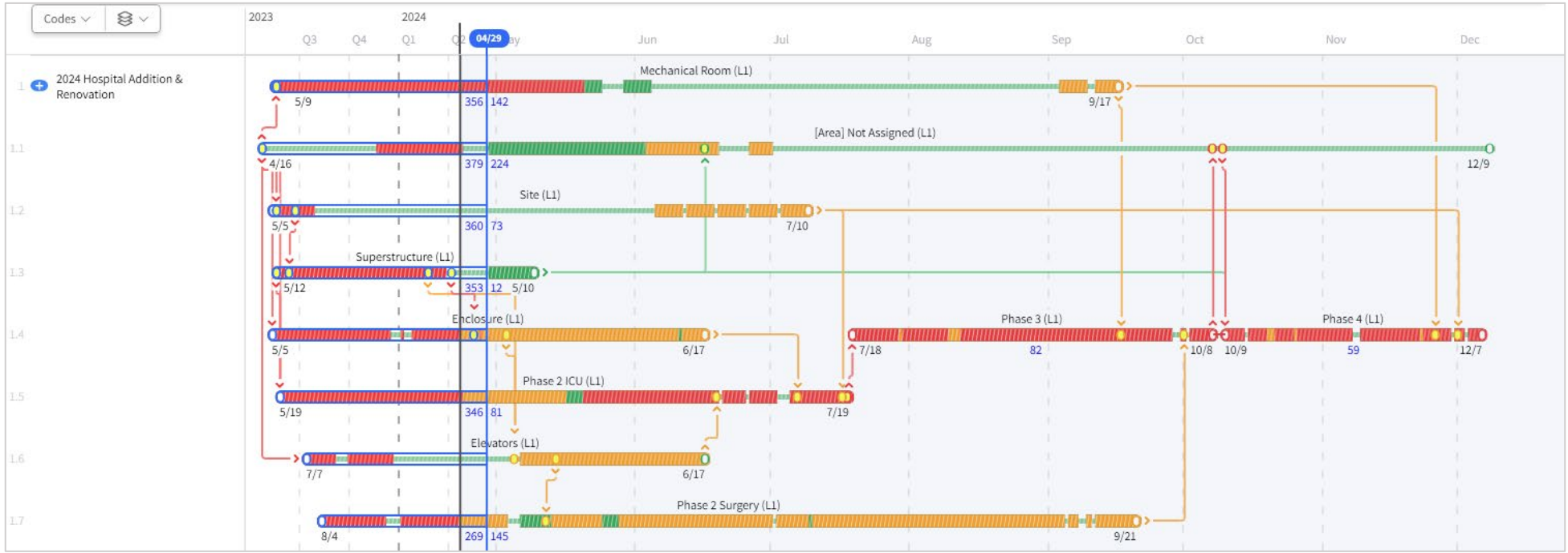
Current Solution Landscape

- Non-scheduler stakeholders require distilled schedule information
- Communication requires manual effort
  - Building manual summaries
  - Adjusting layouts
- Detail can be lost
- Outcomes may not be optimal



Project Summit Narratives

Communicate Efficiently with Detail



Concise, easy to follow schedule layouts

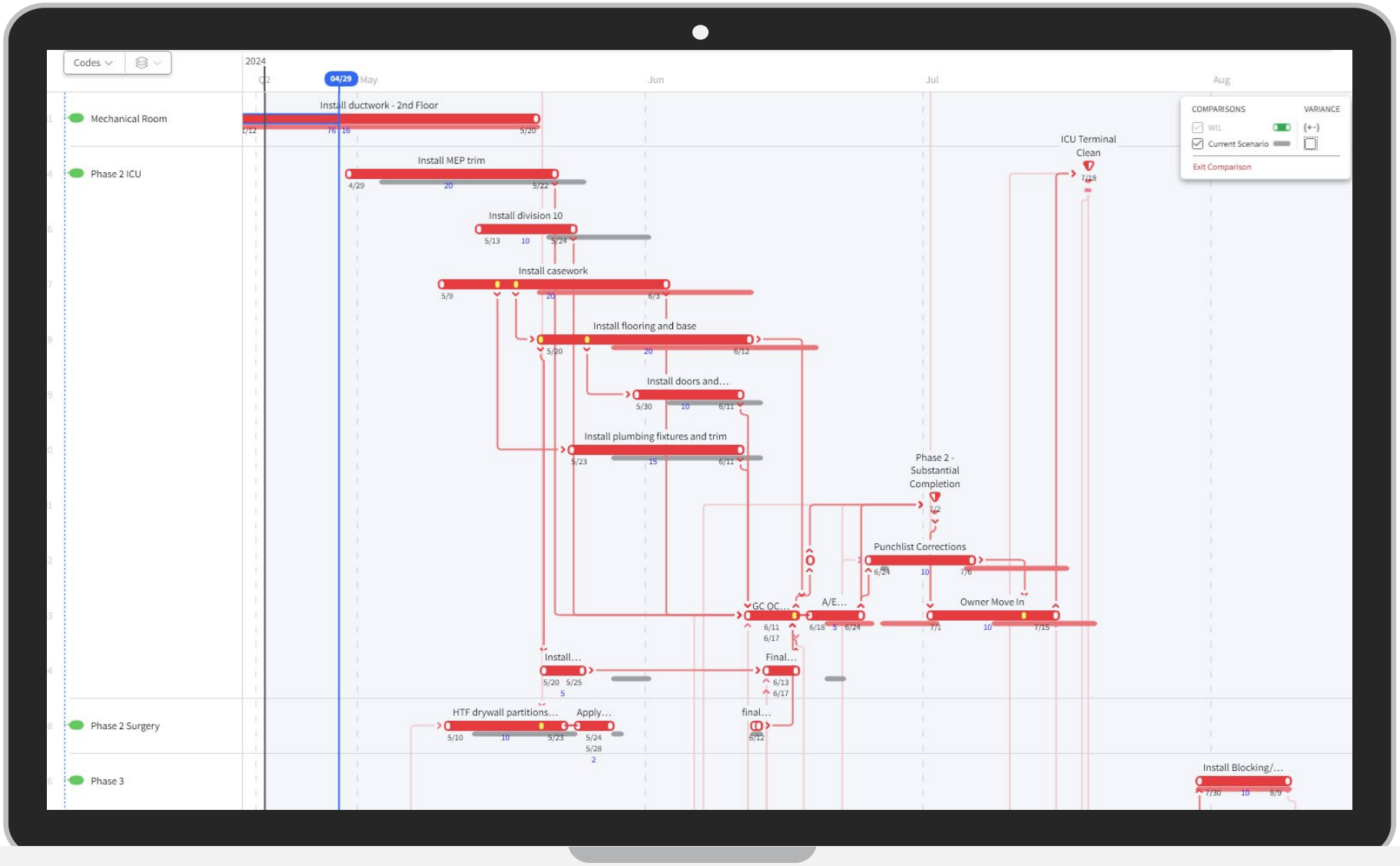
Quick creation of new layouts for multiple narratives

Automatic summaries supported by detail

Clear critical path analysis

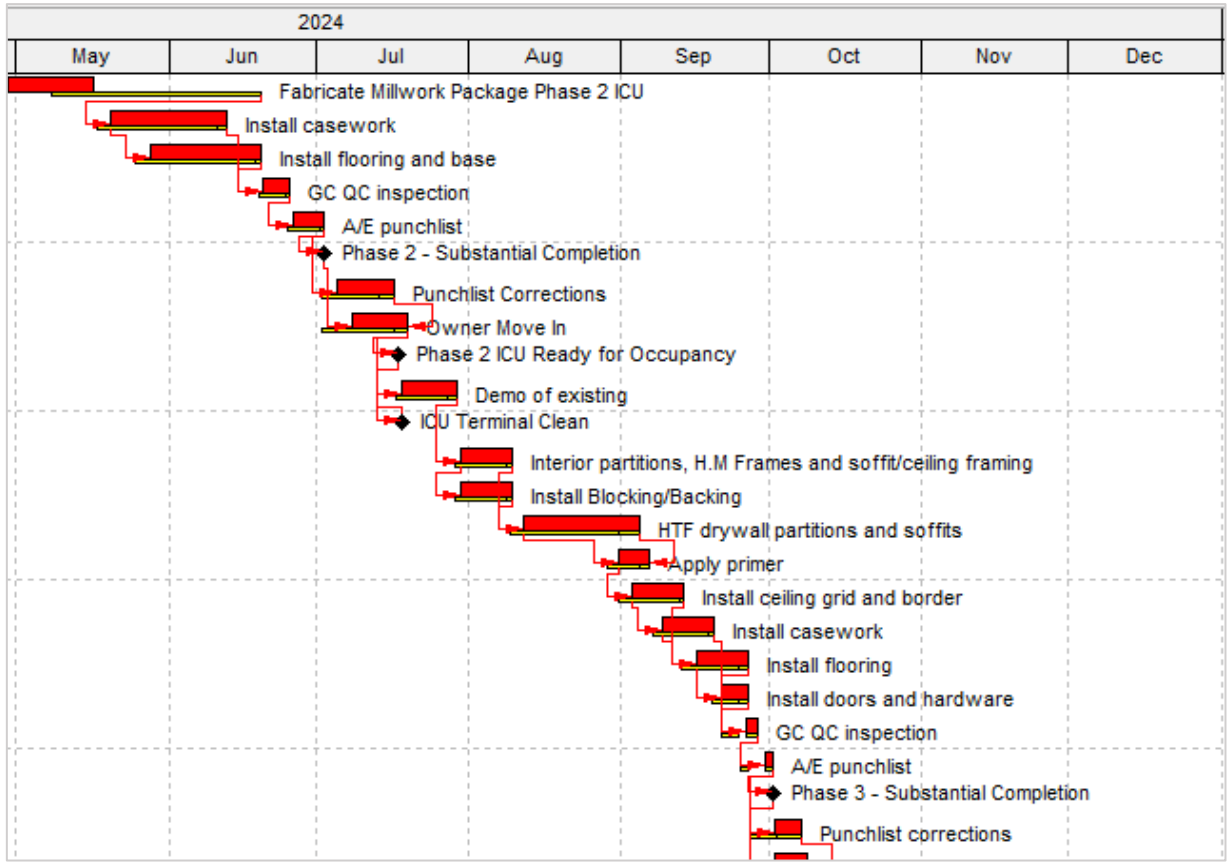
Result:
More informed stakeholder decision making

What-If Collaboration



Schedule What-If Scenarios

An Essential Planning Process



What-if scenarios require efficient collaboration

Details are important for accuracy

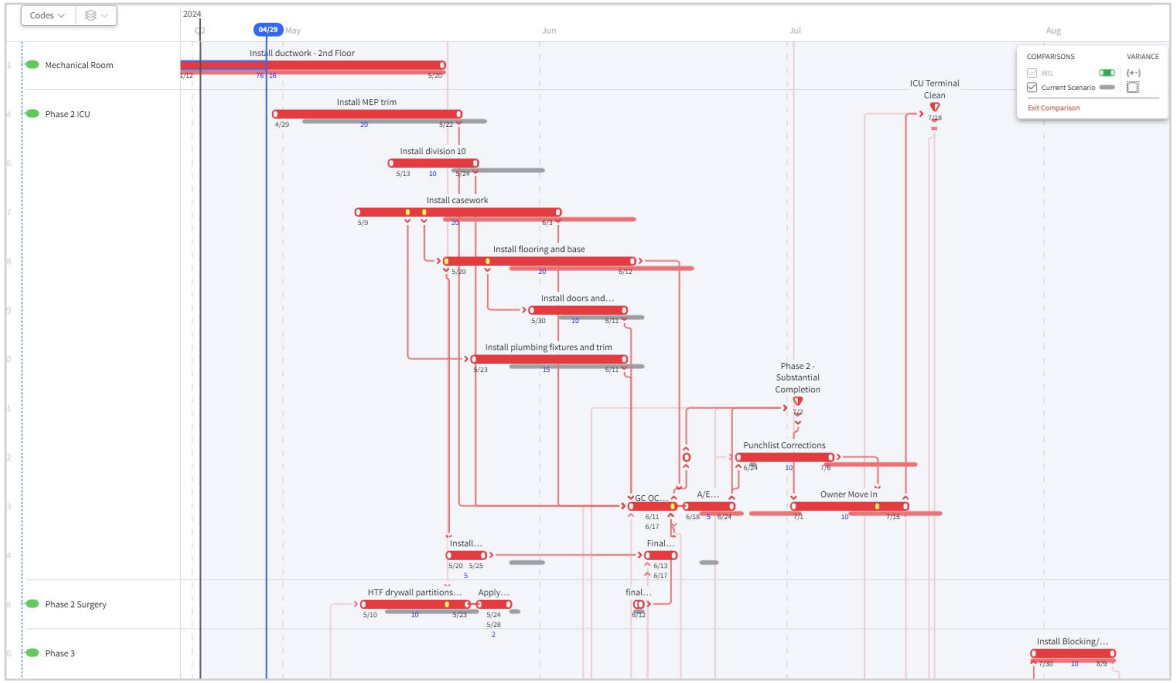
Mainstream Schedule Applications

Time-consuming to create and manage multiple what-if scenarios

Limited visualization capabilities for comparing different plans

Real-Time What-Ifs

Stakeholder Engagement with Project Summit



01. **Streamlined**

Streamline the process of creating and comparing multiple scenarios

02. **Visual**

Visual and data-driven basis for discussions among project stakeholders

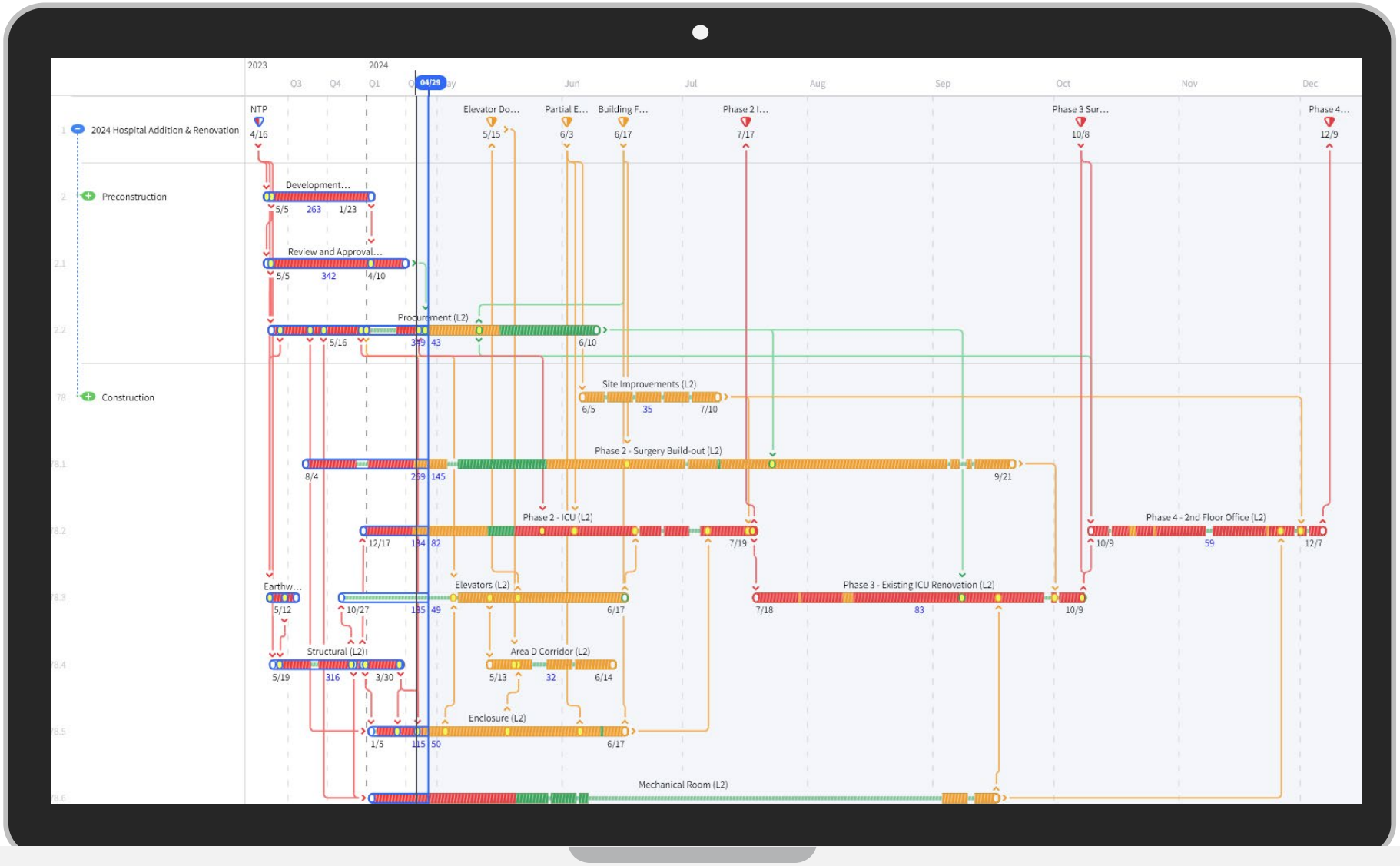
03. **Planned Dates**

Quickly adapt and collaboratively respond to new information

04. **Real-Time Logic**

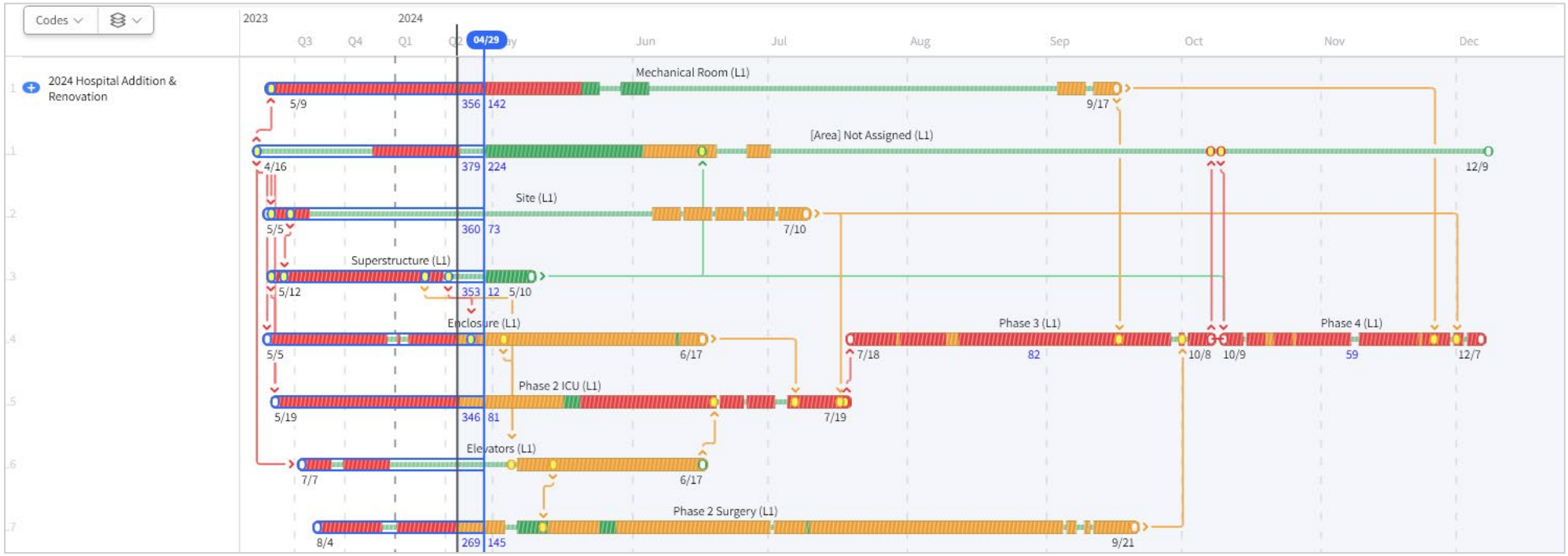
Build stakeholder confidence through transparent and thorough exploration of options and outcomes

Reporting Out on Narratives



Merge and Export Current Plan

Project Summit's Advantages



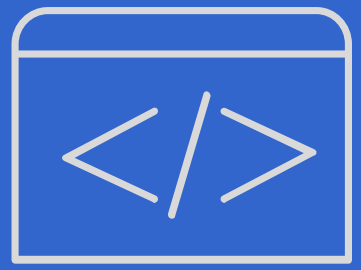
Merge what-if scenarios into an optimal plan

Report different aspects of relevant schedule information

Comparisons to baseline

Export decisions to P6 for integration with schedules of record

About Project Summit



Smart automation of routine tasks



User-friendly interface

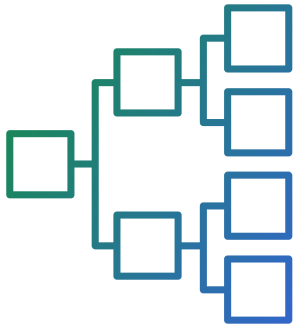


Integration with other tools like NetPoint, P6, and MS Project



Instant insights at a glance

Project Summit Use Cases



High level schedule analysis



Communicating complex schedules to a client



Clients who want proof of schedule detail



Clients who want to interact with schedule detail

Project Summit Results



Improved communication to stakeholders



Enhanced productivity for schedulers



A competitive edge in scheduling

Project Summit at Stantec

NetPoint + GPM CONFERENCE



At Stantec, we recognize we are better together. The Stantec community unites more than 30,000 employees working in over 400 locations across 6 continents. Our local strength, knowledge, and relationships, coupled with world-class expertise, allow us to go anywhere and meet our clients' needs in more creative personalized ways.

To find out more, visit **Stantec.com.**



The Mistissini Wooden Bridge – Mistissini, Quebec

7.8 billion

MARKET CAP ($CAD)

30,000

EMPLOYEES GLOBALLY

STN

TRADED ON NYSE & TSX

6

CONTINENTS WE OPERATE IN

400+

LOCATIONS WORLDWIDE



Tamiami Trail Bridge Elevation Project

8 TOP 500 DESIGN FIRMS
(ENR, 2023)

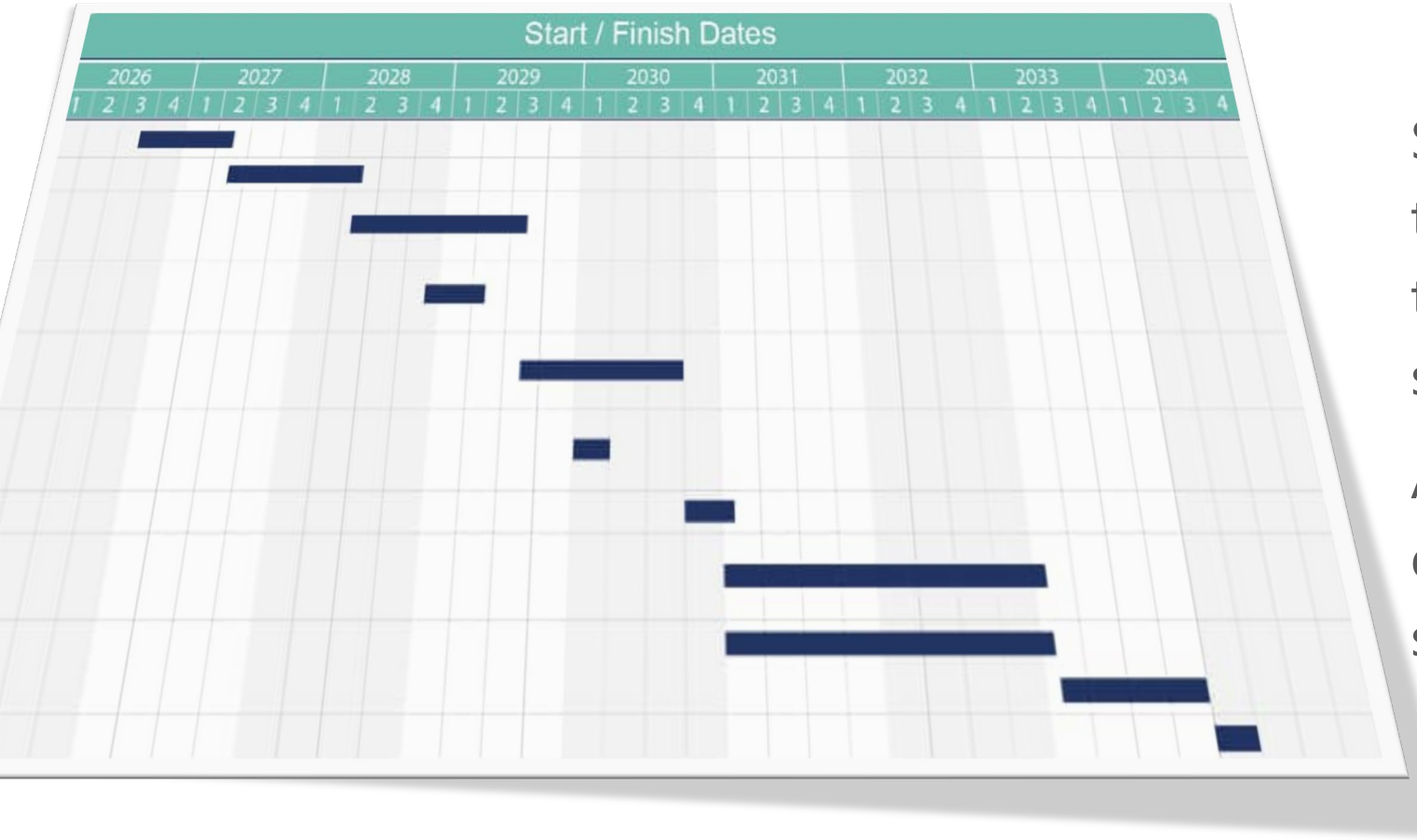
11 TOP 150 GLOBAL DESIGN FIRMS
(ENR, 2023)

7 TOP 225 INTERNATIONAL DESIGN FIRMS
(ENR, 2023)

2 TOP 10 INTERNATIONAL WATER MARKET FIRMS
(ENR, 2023)

14 TOP 200 ENVIRONMENTAL FIRMS
(ENR, 2023)

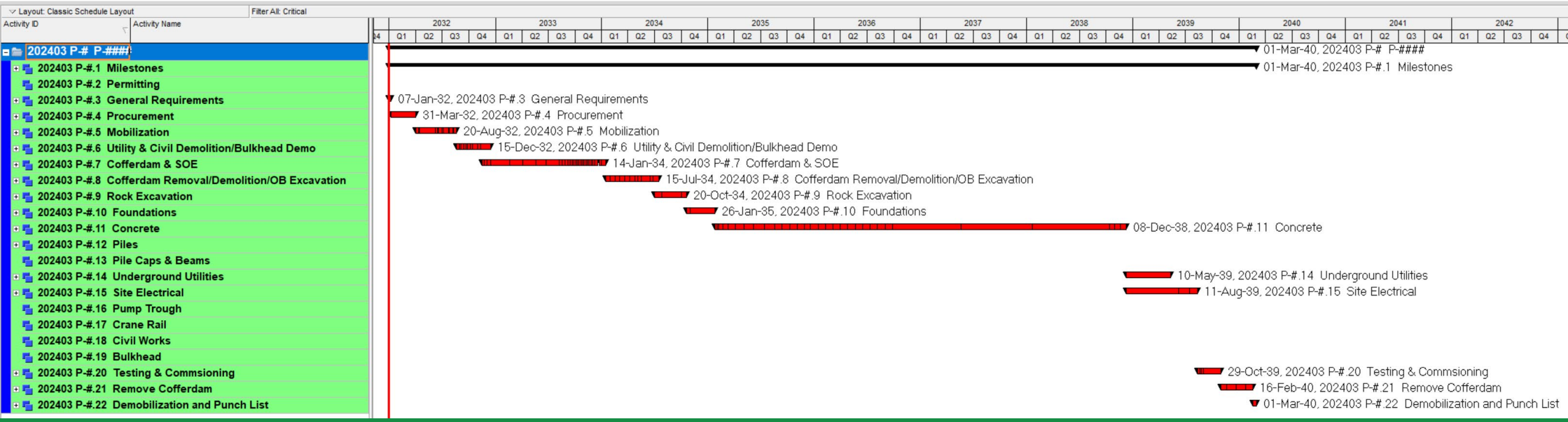
Typical Critical Path Summary



Some visuals are more effective than others when communicating the critical path of complex schedules.

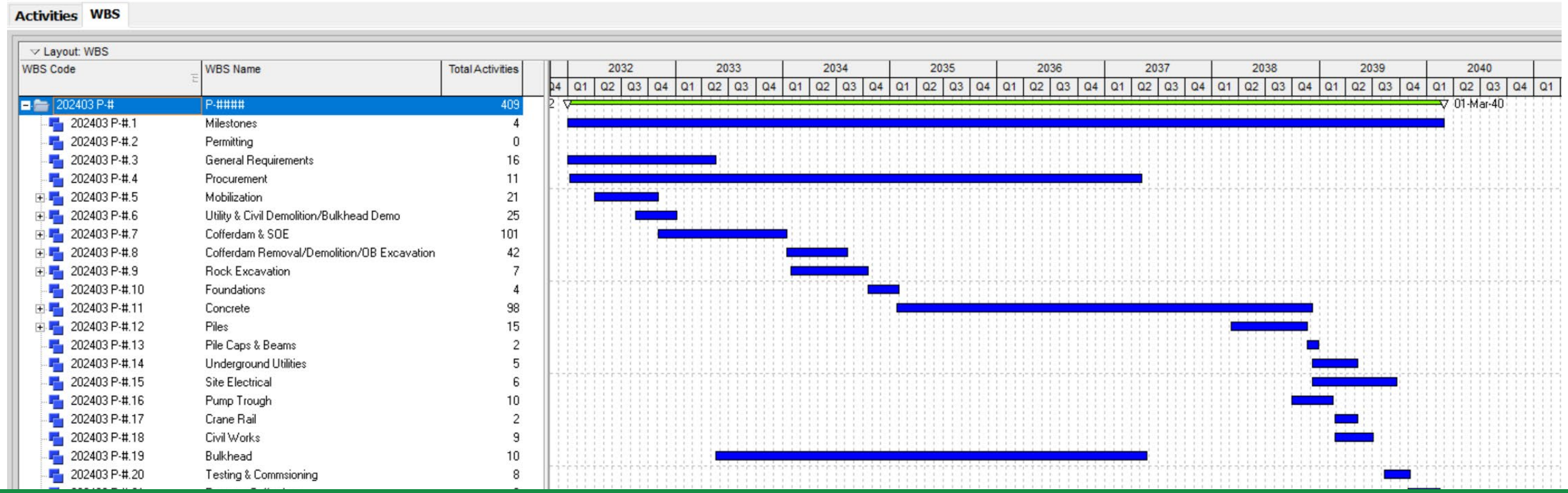
Although this information is distilled, it serves only as a snapshot in time.

Typical Primavera P6 Critical Path Filter



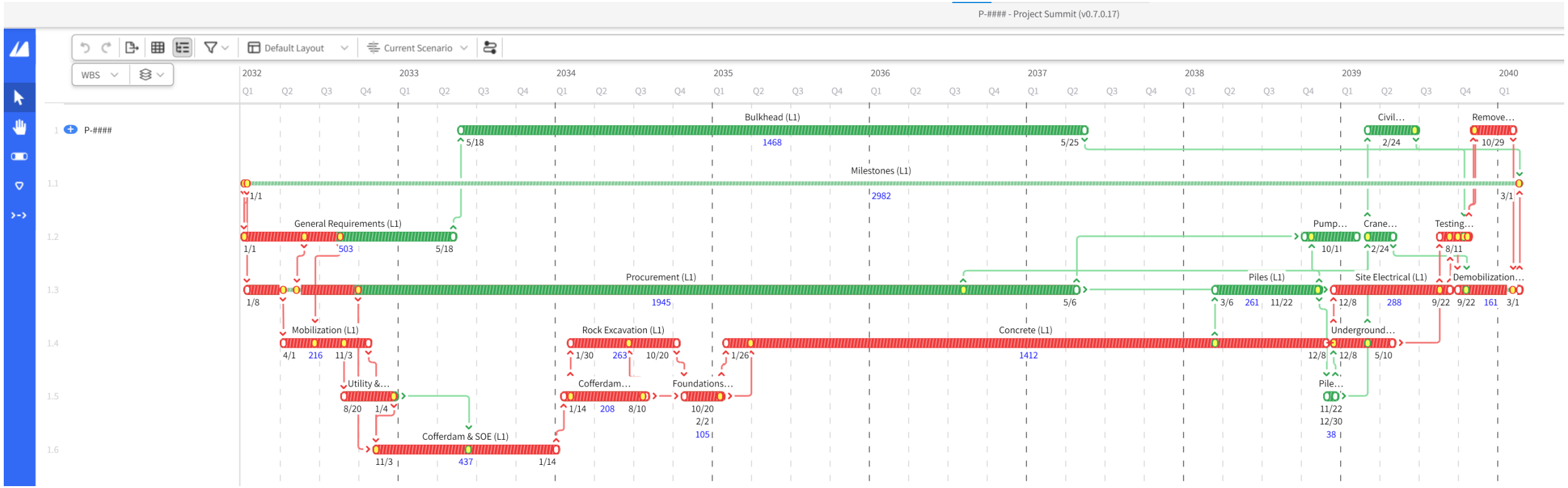
Activity view collapsed to WBS Level 2

Typical Primavera P6 WBS View



WBS view collapsed to WBS Level 2 (409 Activities)

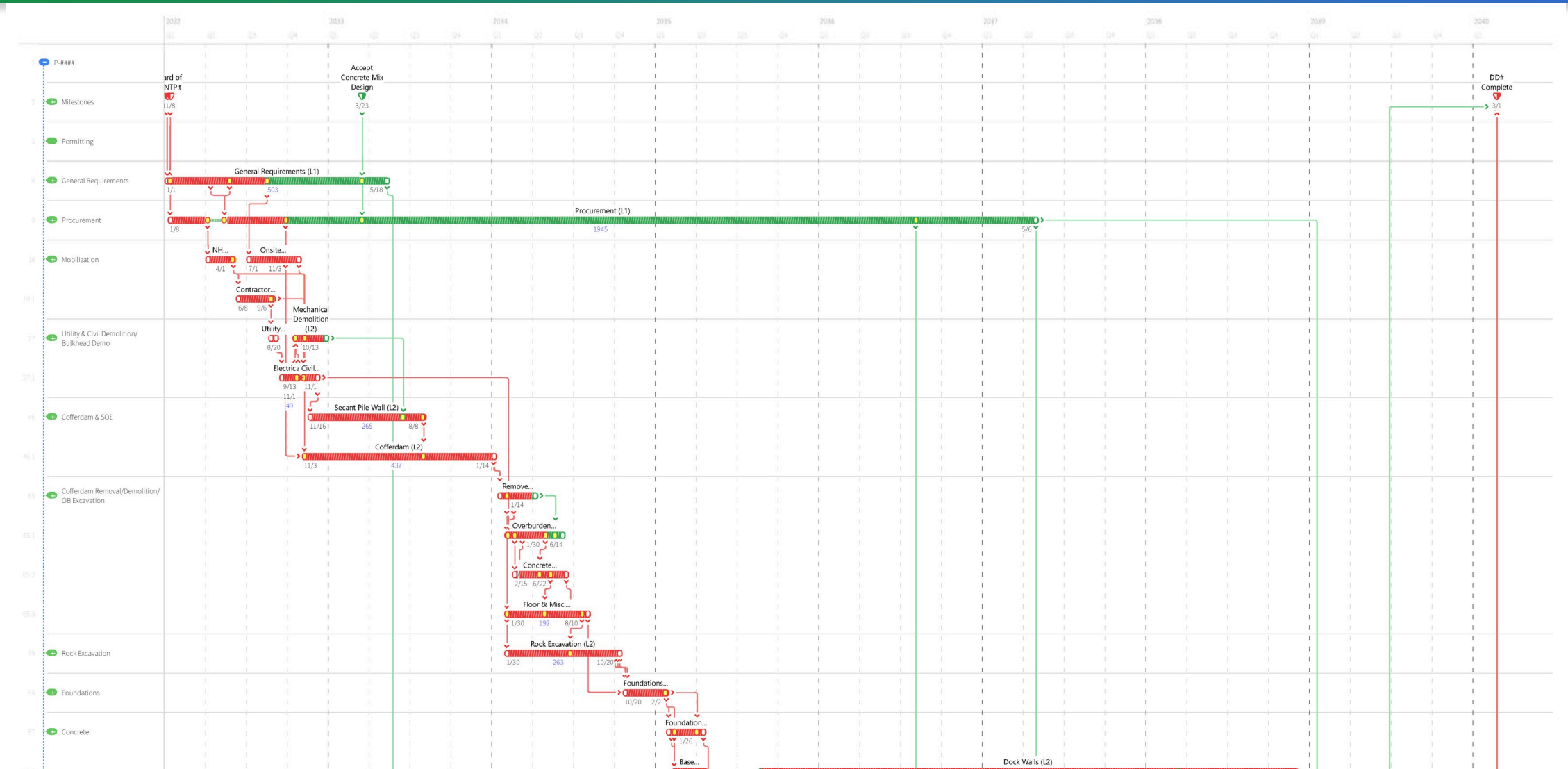
Project Summit



Level 0 Summary

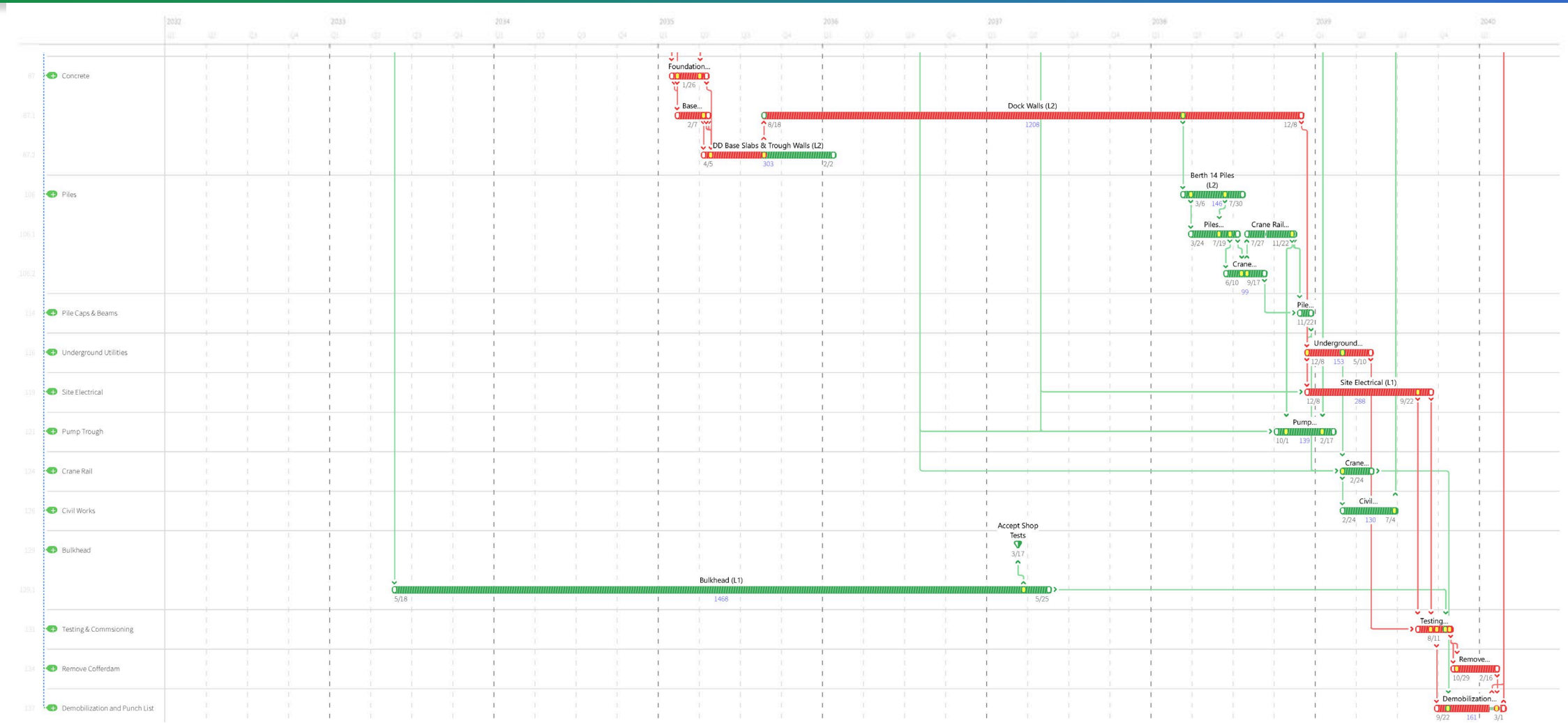
Project Summit

Level 1 Summary

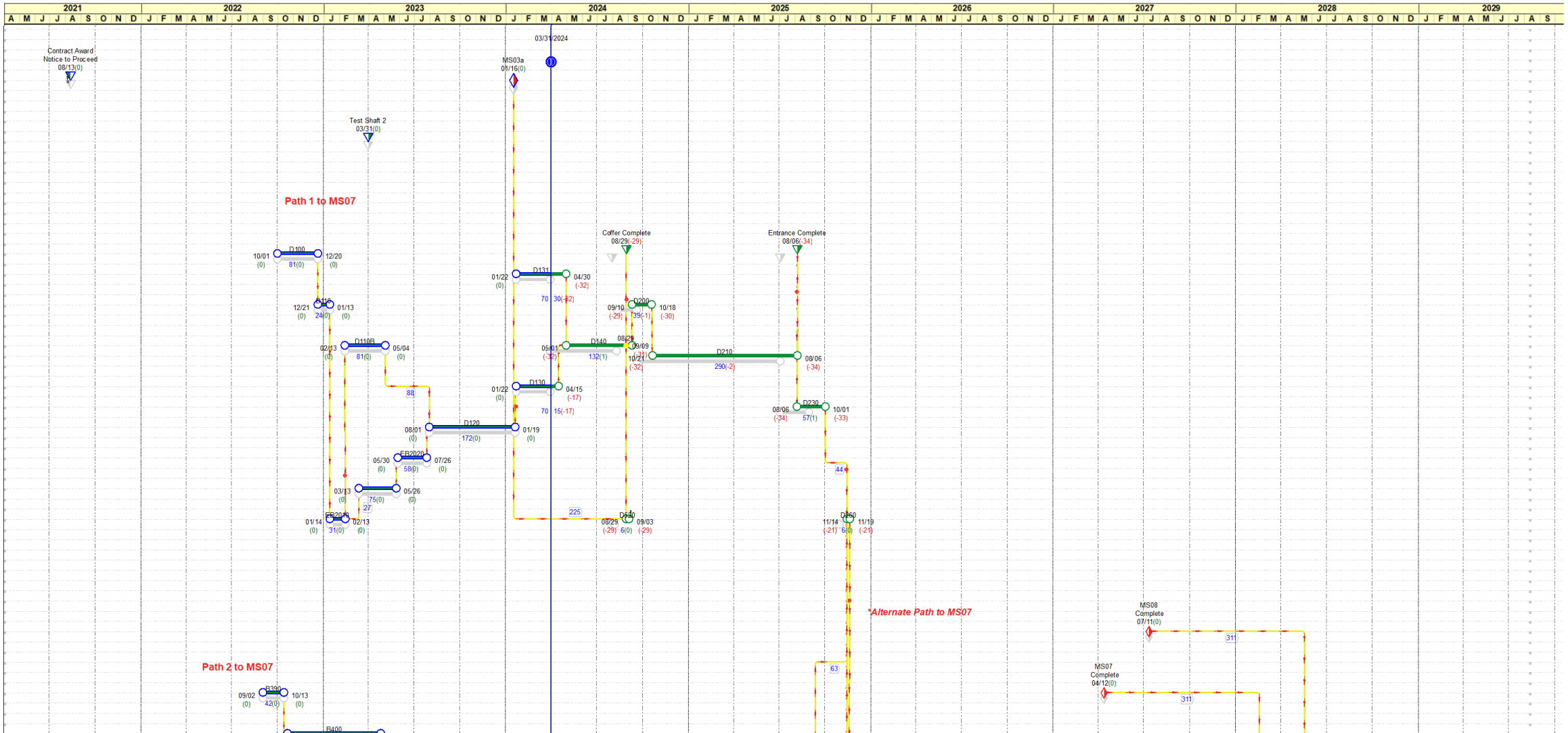


Project Summit

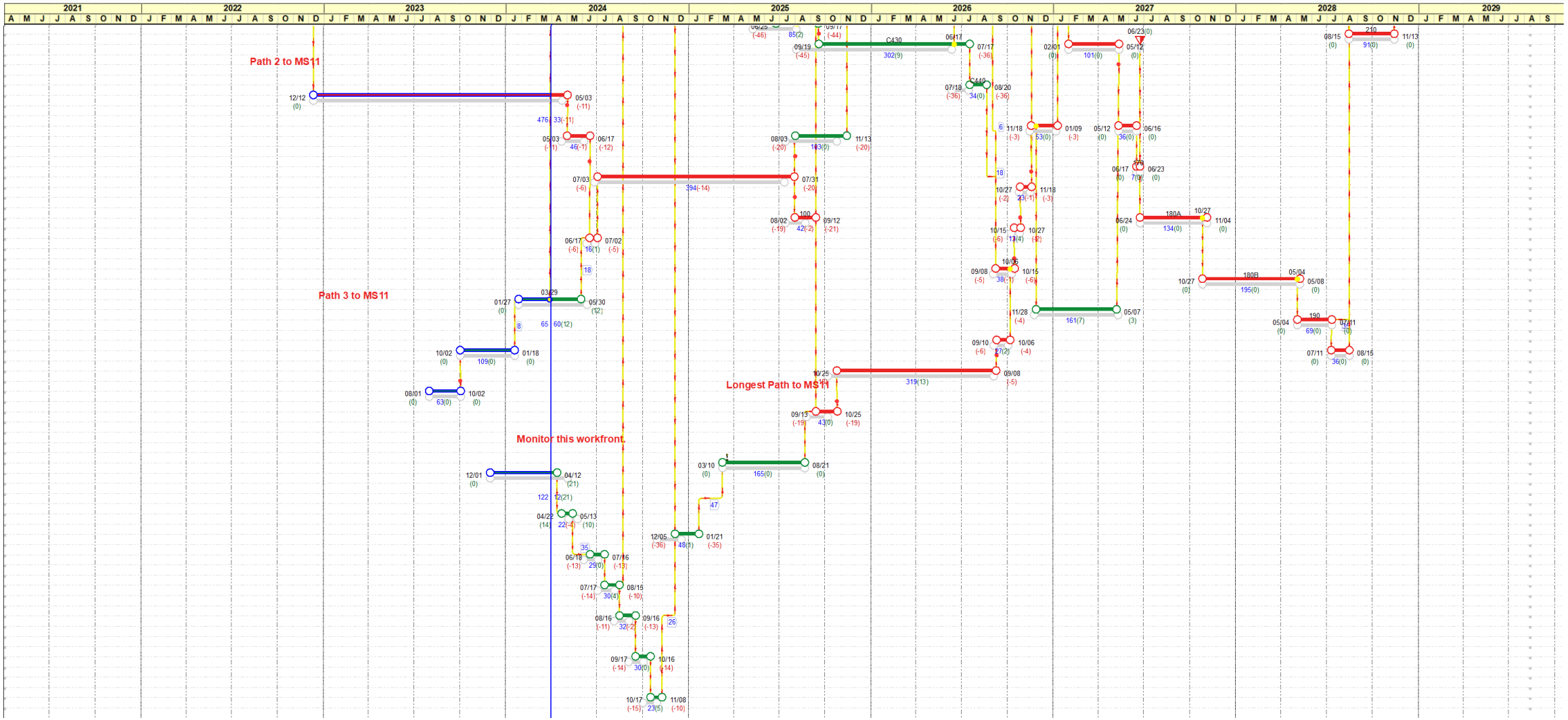
Level 1 Summary



NetPoint Multiple Float Path Analysis



NetPoint Multiple Float Path Analysis



Demo

NetPoint + GPM
CONFERENCE

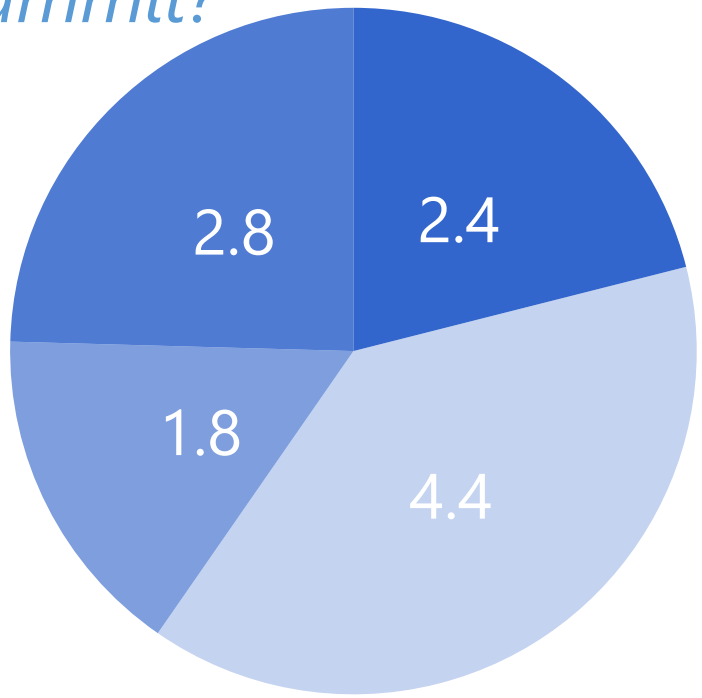
Roadmap

The story behind your schedule, understood by everyone

	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
			Concurrent Collaboration
			Turnaround Planning
			Building a Summary for Claims/Delay Analysis
			Building a Summary for Risk Analysis

Poll

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



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

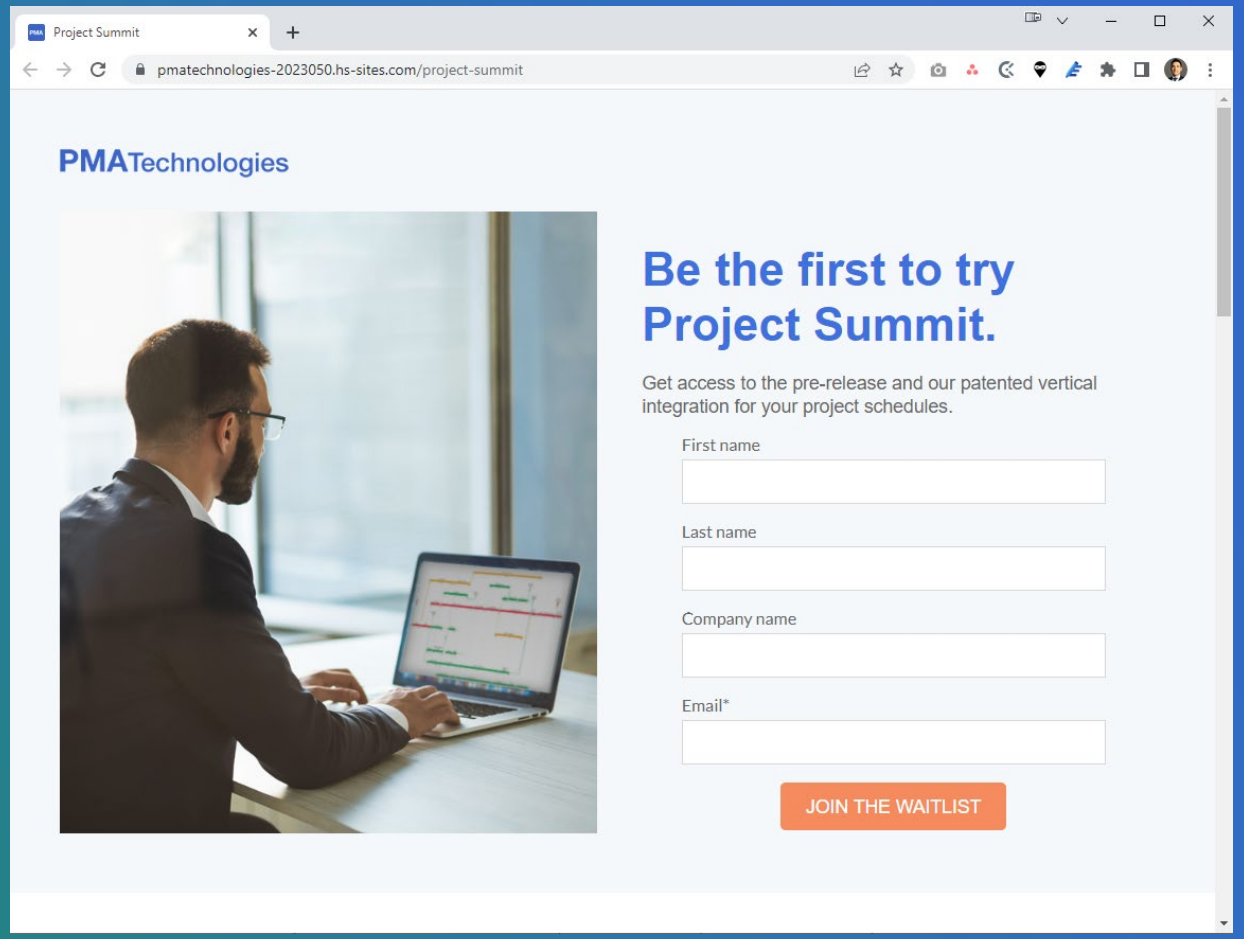
f) Claims/Delay Analysis

g) Schedule Quality Validation

Stay Updated!

Email, Lounge, Announcement





NetPoint+GPM CONFERENCE

May 16, 2024 | **Online**

Any Questions?

Thank you for joining our session!

Seve Ponce de Leon

Senior Director, PMA Technologies

seve@pmaconsultants.com

Alexander Neary

Senior Associate, PMA Technologies

aneary@pmaconsultants.com

Gerald Rosario

Principal Civil Engineer, Stantec

gerald.rosario@stantec.com

Thank You to the Development Team!



Alex Siedband
UI/UX



Anuraag Srivastava
Software Engineering



Arunee Prather
QA Engineering



Jose Fernandez
Software Engineering



Juan Carlos Angeles
Software Engineering



Mohammad Yardehnavi
Project Management



Sergio Ponce de Leon
UI/UX



Stacy O'Malley
Software Engineering



Vivek Puri
Operations