NetPoint + GPM
CONFERENCE
May 13 & 14, 2021



Interactive Planning

Presented by:
Daniel Hamilton



MEET THE PRESENTER

Daniel Hamilton

Daniel Hamilton is a global project controls leader with Worley with extensive experience in project controls, project management, planning and scheduling. Daniel is the lead in house expert in using NetPoint® for Interactive Planning within Worley and supports end users around the globe.

Governance & IAP Requirements

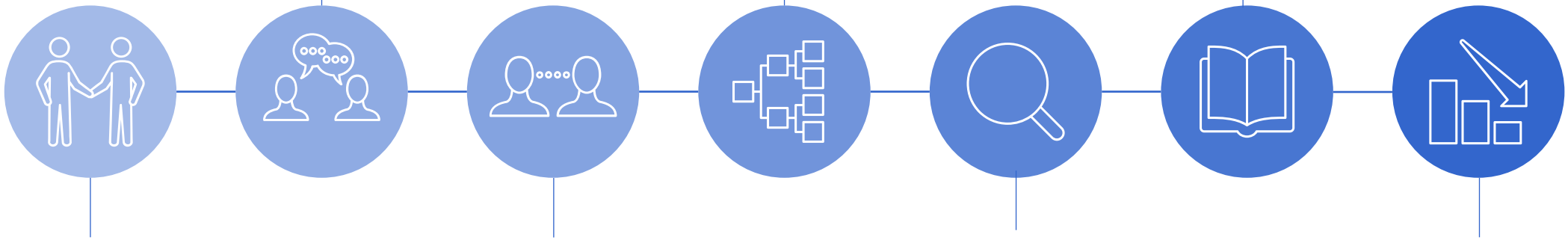


Project Framing & Requirements

Project Size	Reimbursable Contract Value Range	Lumpsum/ Risk Contract Value Range	Interactive Planning Requirements
MEGA	> US$**150m**	> US$ **100M**	**Mandatory**
LARGE	US$**15 - 150m**	US$**10 - 100M**	**Mandatory**
MEDIUM	US$**2 - 15m**	US$**1 -10m**	**Mandatory**
SMALL	< US$ **2m**	< US$**1m**	Recommended

Interactive Planning & Why?

The objective is to establish a project schedule baseline.



Effective team building session with the team

Open and transparent communication forum

Collaborative effort to remove clashes amongst disciplines and bring alignment

Planning and sequencing key activities to execute a project

Identifying critical activities

Important that all project team members/management be open and honest in identifying all known risks, potential risks, issues and barriers

To quantify against substantial changes that may require a schedule re-baseline

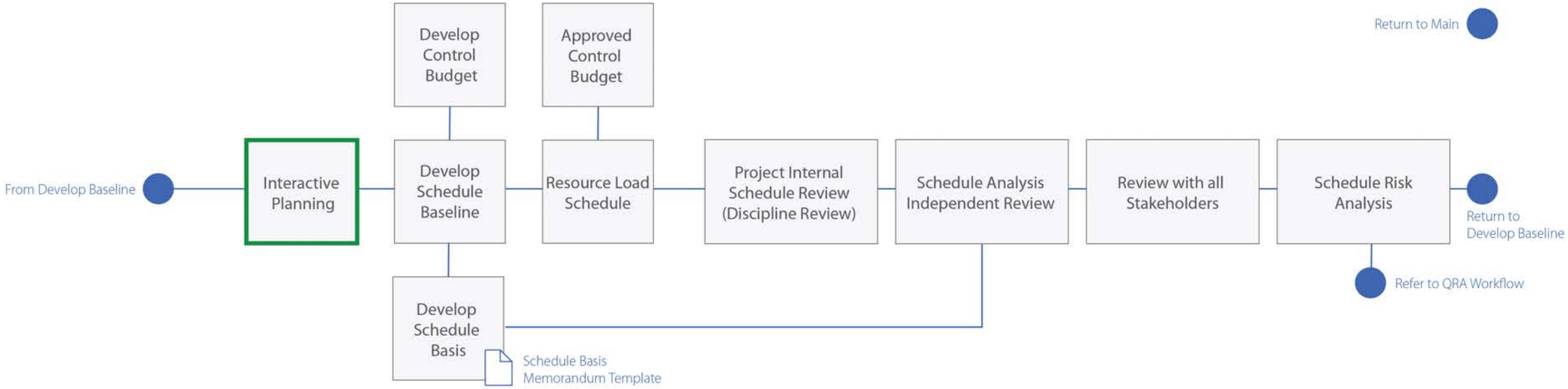
Defining Interactive Planning (IAP)



Developing A Project Schedule

…"THE WORLEY WAY"

MS-SC-BPM-0001.vsdx: **PLANNING BUSINESS PROCESS:** BASELINE WORKFLOW



Schedule Assurance Check List

This check list is to be used as a reference for review and validation of the schedule.

- ❑ Interactive Planning Session completed
- ❑ Standard planning tool used for developing the schedule
- ❑ Schedule tool settings are set to the standard settings
- ❑ Schedule is setup using approved WBS
- ❑ Schedule is resource loaded with approved estimate
- ❑ Schedule aligns with the agreed contract and scope of the project
- ❑ Schedule is free of errors (Open Ends, Constraints, etc.)
- ❑ Schedule has an agreed critical path
- ❑ Schedule meets customer requirements
- ❑ Schedule Health Check conducted
- ❑ Schedule Risk Analysis conducted
- ❑ Schedule has been reviewed and approved by stakeholders
- ❑ Schedule reports have been identified and issued
- ❑ Schedule update reporting periods established
- ❑ Schedule conforms to Worley planning and scheduling standards

INTERACTIVE PLANNING (IAP)

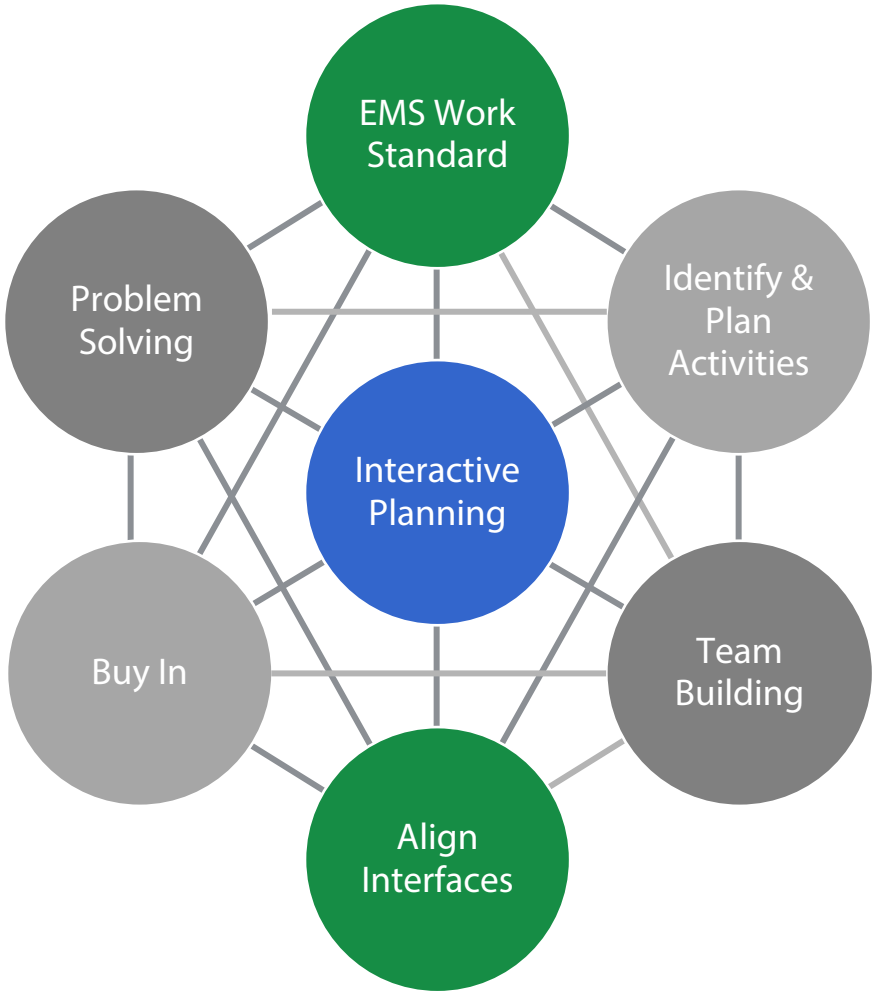
Definition & Objectives

Definition

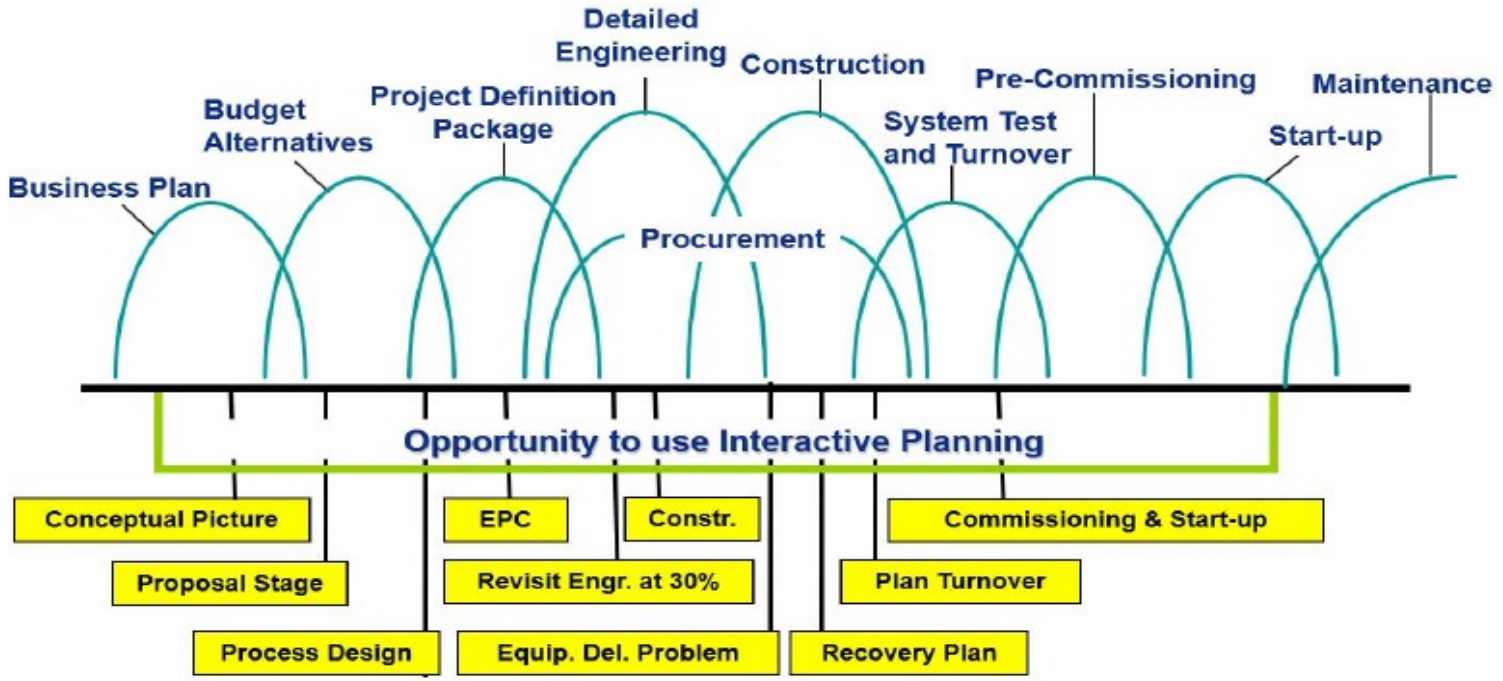
- Interactive Planning is a Worley best practice and an EMS standard work process.
- Methodology to Engage Stakeholders
- Process can be used throughout the project lifecycle

Objective

- Identify and plan the necessary activities that govern project execution.
- Session to include all stakeholders
- Create accountability



IMPLEMENTATION & APPLICABILITY

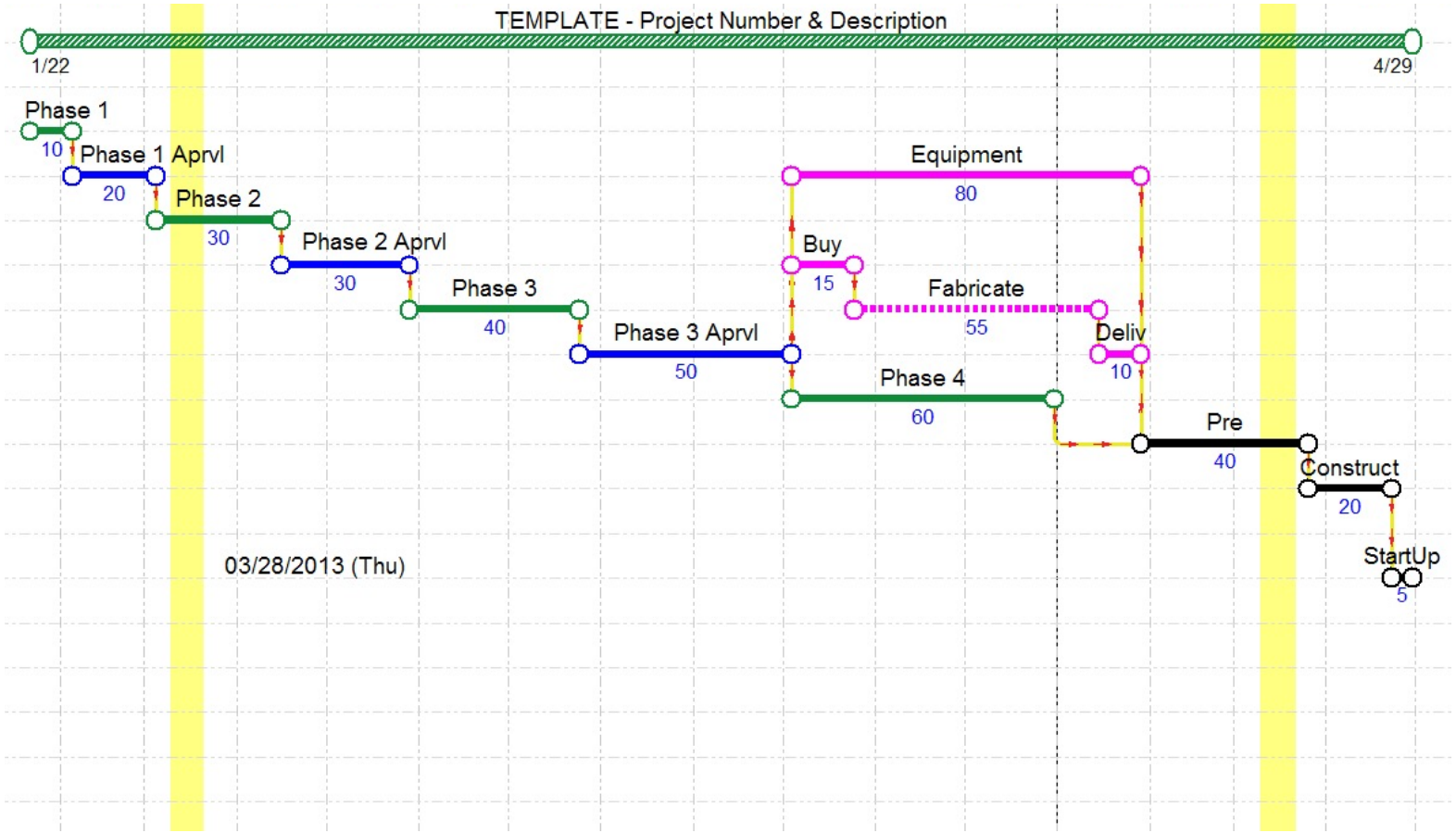


1 Identify | 2 Evaluate | 3 Define | 4 Design | 5 Build | 6 Commission & Handover | 7 Asset Management

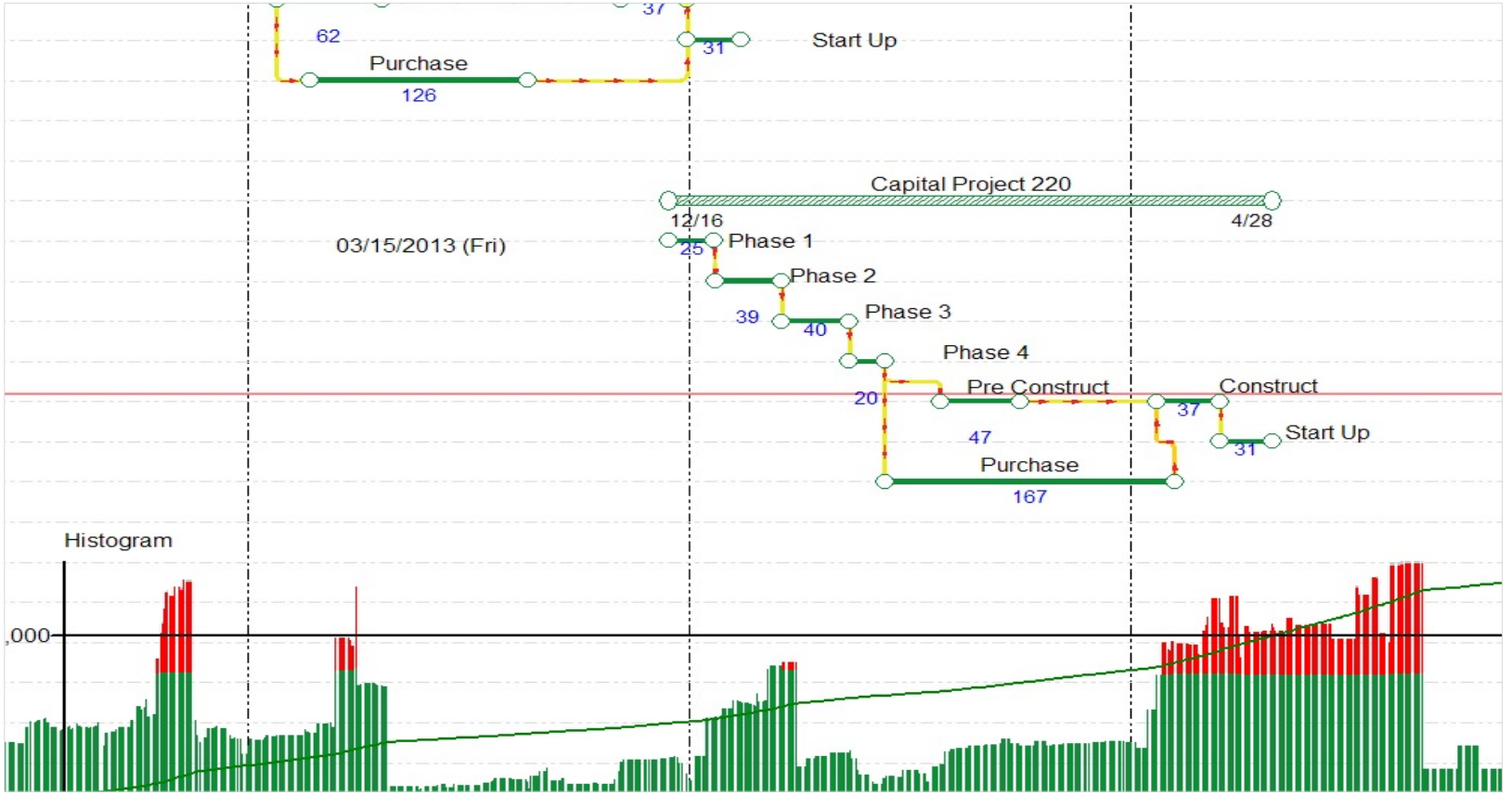
APPLICABILITY CONTINUED:
PORTFOLIO PLANNING

TIC Template	Phase 1	Phase 2	Phase 3	Phase 4	Purchasing	Pre Construct	Construct	Total
Engineering	$ 5,000	$ 10,000	$ 20,000	$ 55,000				$ 90,000
Equipment					$ 250,000			$ 250,000
Construction								$ -
Bulks					$ 100,000			$ 100,000
Indirects							$ 100,000	$ 100,000
Labor						$ 75,000	$ 200,000	$ 275,000
Consulting			$ 50,000					$ 50,000
Spares					$ 50,000			$ 50,000
Owners Cost		$ 8,000	$ 5,000	$ 20,000			$ 30,000	$ 63,000
Contingency				$ 10,000			$ 60,000	$ 70,000
Total								$ 1,048,000

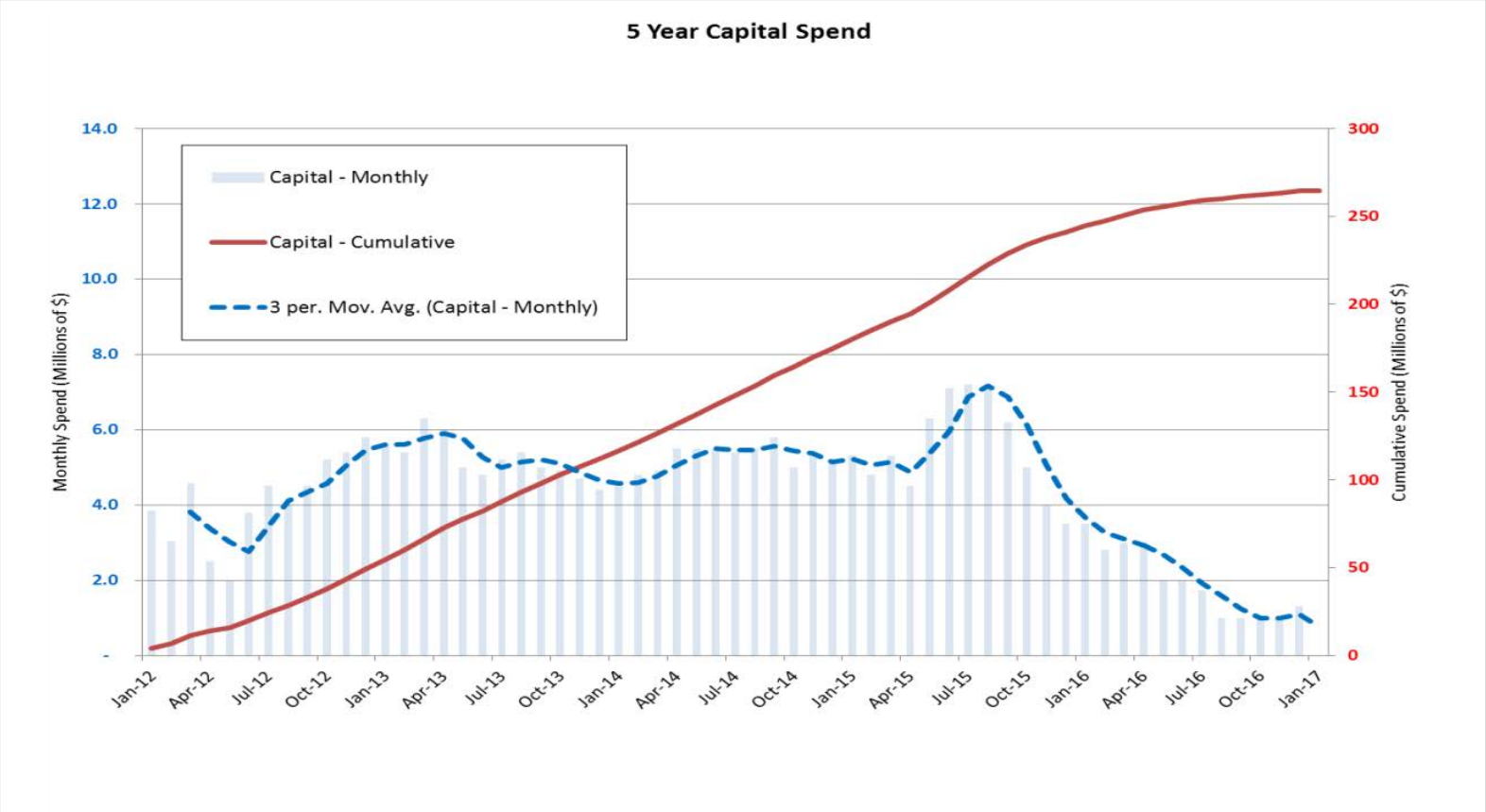
APPLICABILITY CONTINUED:
PORTFOLIO PLANNING



APPLICABILITY CONTINUED:
PORTFOLIO PLANNING



APPLICABILITY CONTINUED:
PORTFOLIO PLANNING



ROLES & RESPONSIBILITIES



Project Manager



Facilitator



Chairman



Scheduling Lead



PCM



Stakeholders



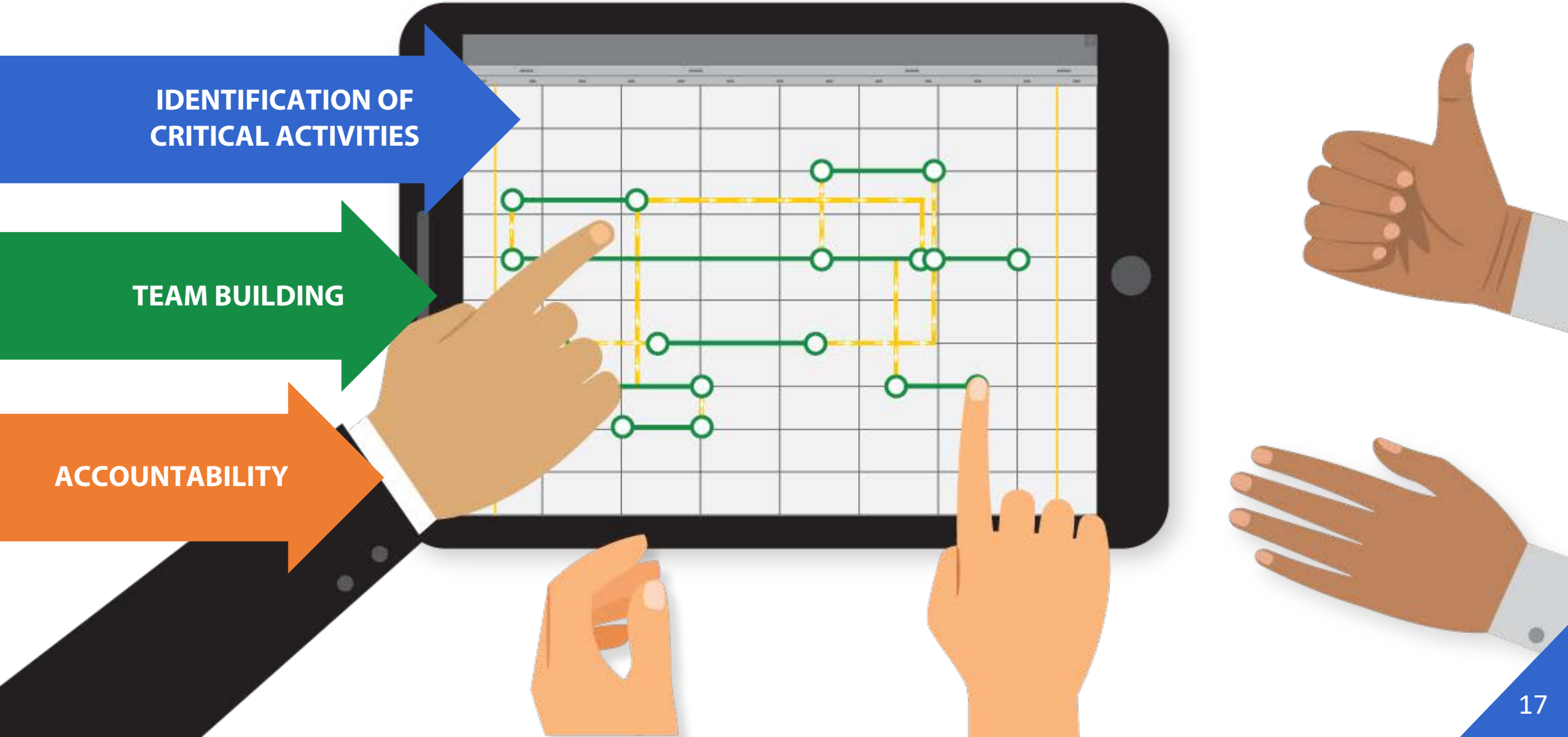
Benefits of Interactive Planning

Benefits of Interactive Planning

IDENTIFICATION OF CRITICAL ACTIVITIES

TEAM BUILDING

ACCOUNTABILITY

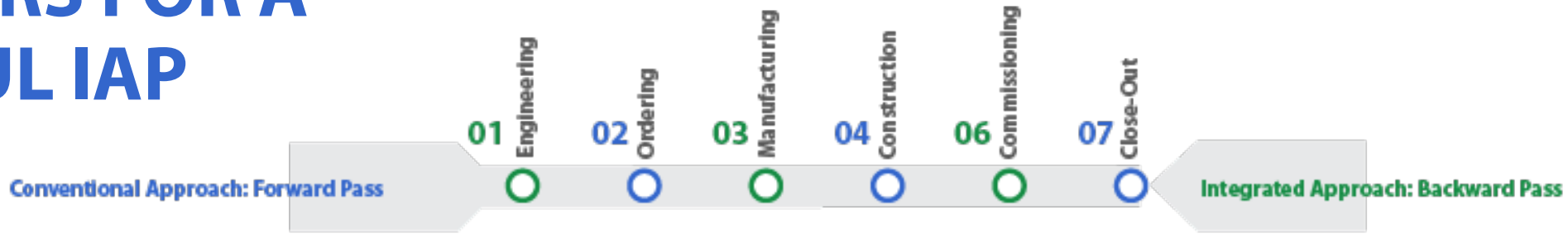


KEY FACTORS FOR A SUCCESSFUL IAP

Participation

Establish Project Baseline

Identification of Deliverables







Examples of Required Input

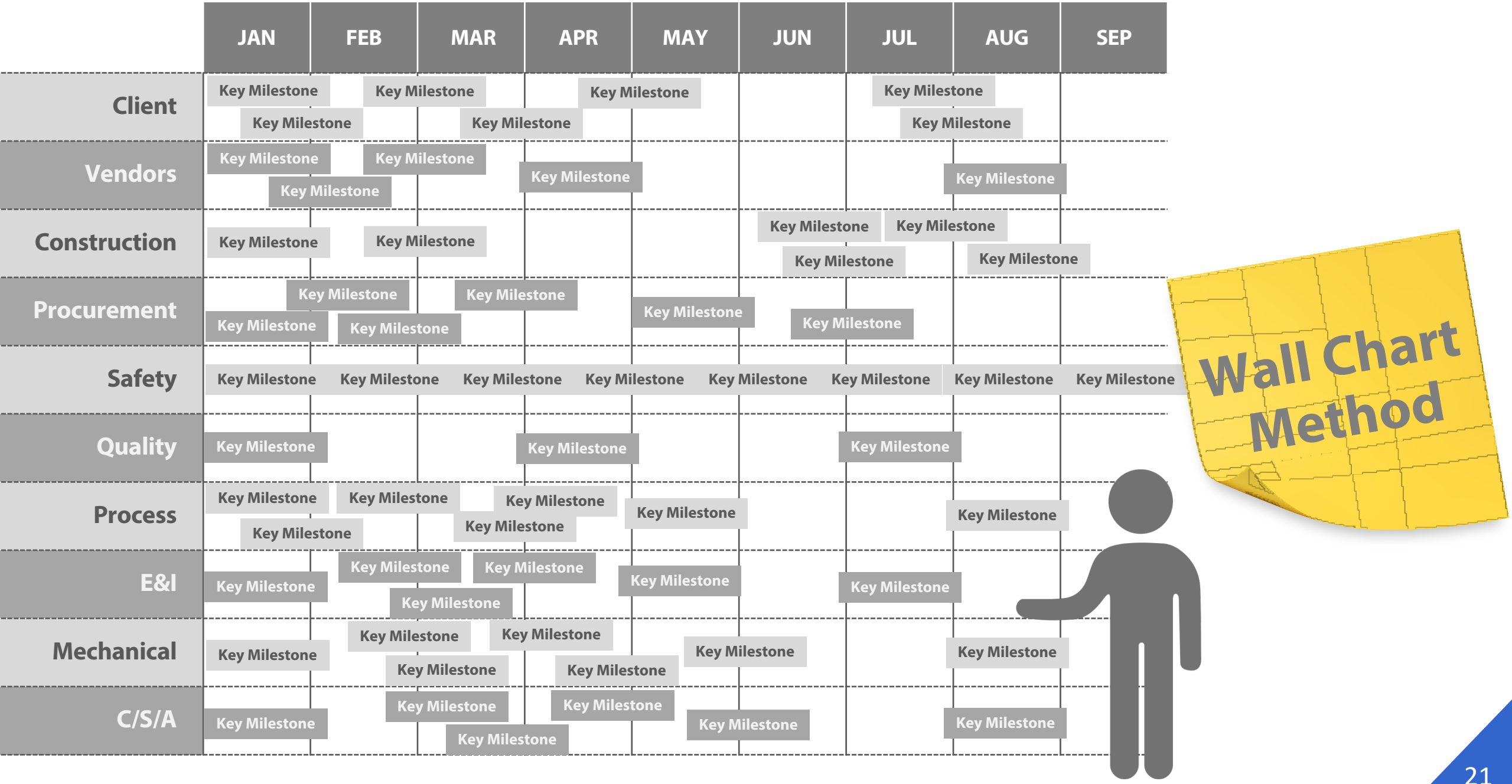
Interactive Planning: Minimum Information Requirements Checklist

- ❑ Kick-off Mtg
- ❑ Process Design Basis
- ❑ PFD's Issued
- ❑ Soils Report
- ❑ Vendor Data
- ❑ Approval Cycles
- ❑ HAZOP
- ❑ Model Review
- ❑ AFE Approval
- ❑ O/M Estimate (+/-)
- ❑ Define Estimate (+/-)
- ❑ Permits
- ❑ Mobilization in Field
- ❑ Mechanical Completion
- ❑ Turnarounds

Tools & Methods

For Interactive Planning




JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
Client
Vendors
Construction
Procurement
Safety
Quality
Process
E&I
Mechanical
C/S/A
Key Milestone
Wall Chart Method

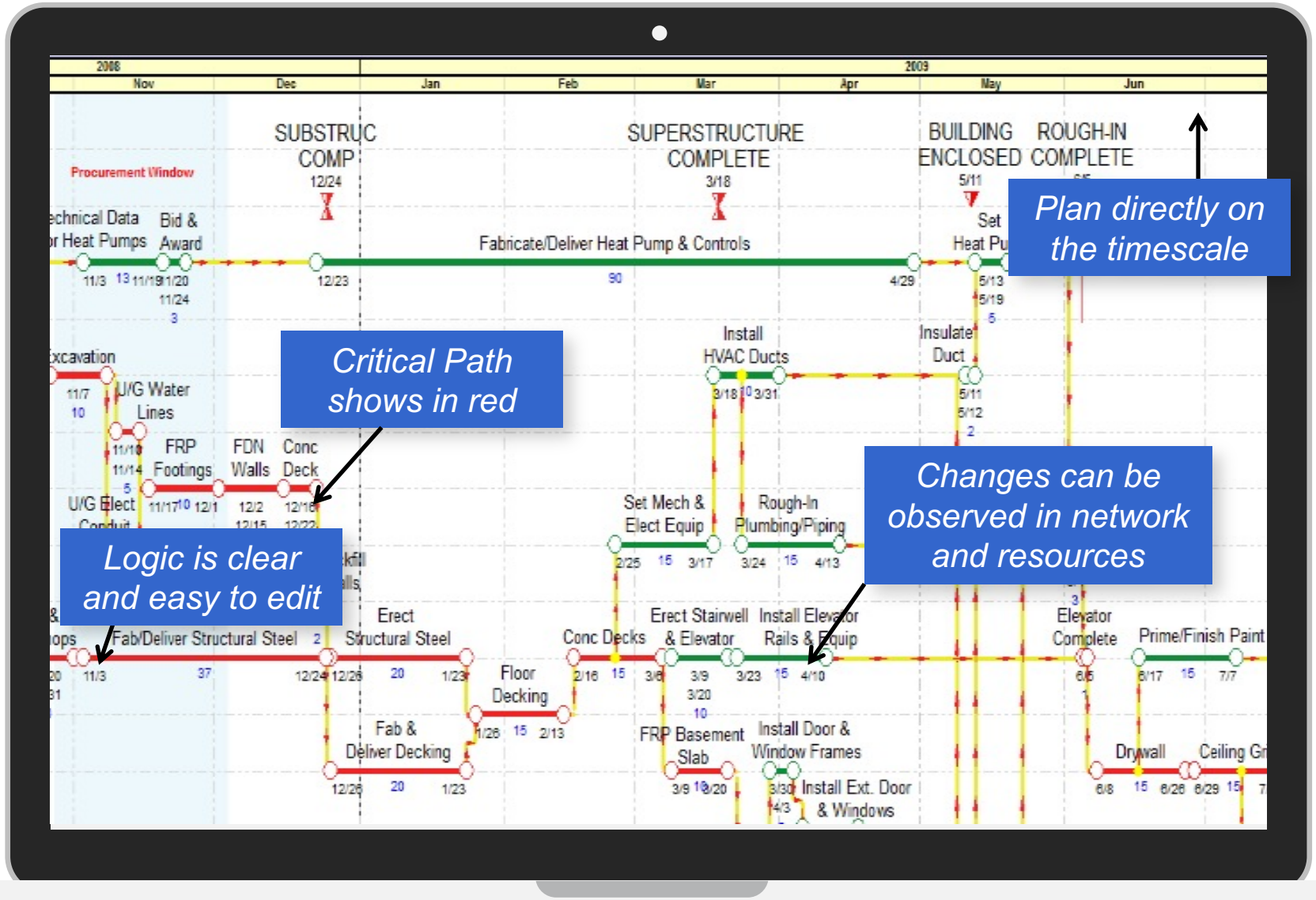


COMPARISON OF METHODS

Paper Wall Charts & Stickies

- Writing colored sticky notes
- Not logic driven
- Wall chart length
- Need to tape down to assure sticky placements
- Effort create wall charts before IAP and to scan 20’ wall charts after IAP
- Manual input into P6 schedule
- Usual issue of 1st Pass in 1-2 weeks after IAP is complete

NetPoint Introduction



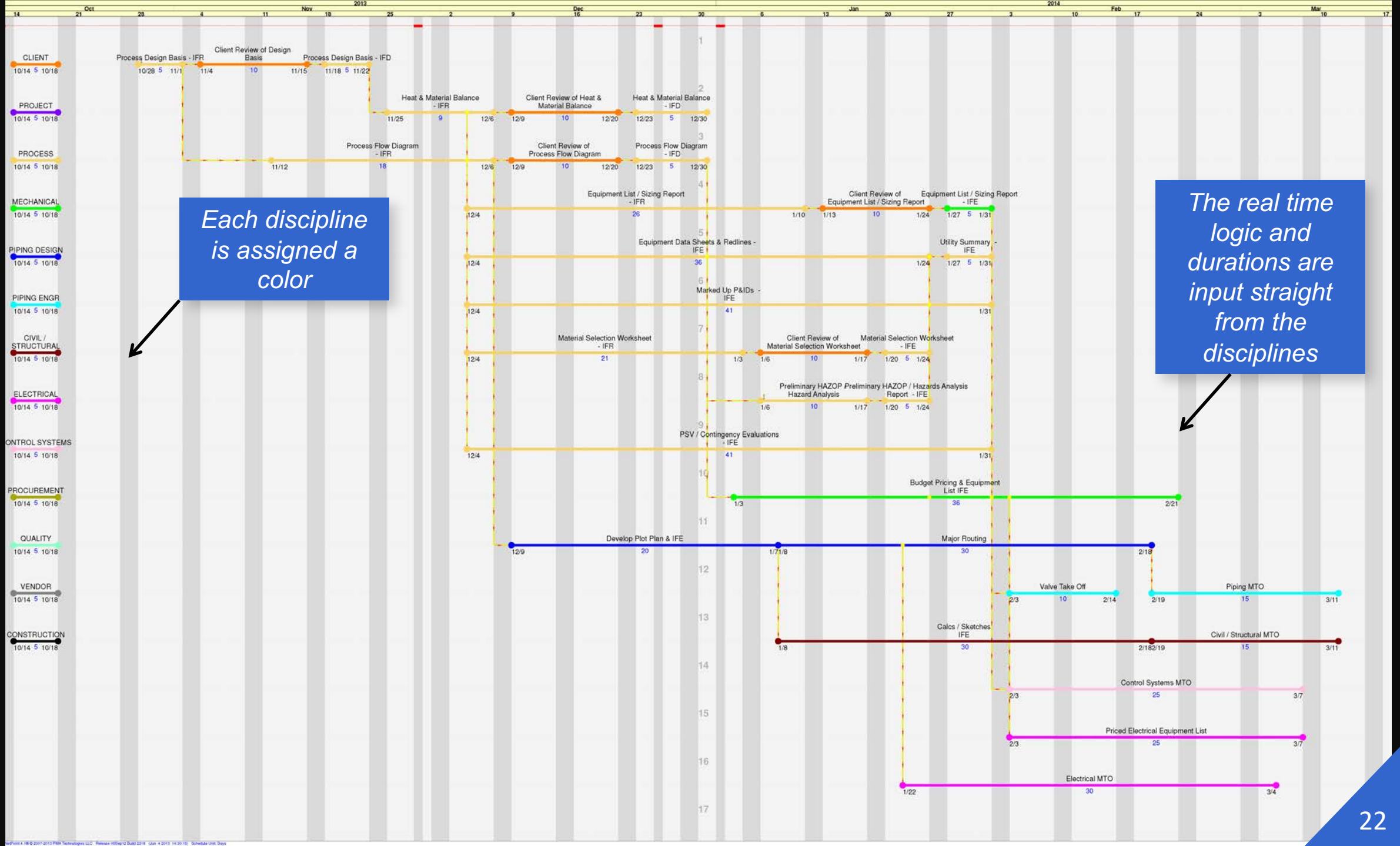


COMPARISON OF METHODS

NetPoint

- Reduced costs from 40-60 hours in time savings on deliverables
- “Real time” schedule durations & logic
- 1st Pass complete within minutes of IAP completion
- Work from home capability
- Graphically easier to read
- Pre-load frag nets / milestones / deliverables / templates
- Conduct Virtual IAPs
- Resource load & understand resources usage during IAP
- Downloads to P6

NetPoint Schedule Example I



NetPoint Demonstration of EPC Scheduling



THANK YOU

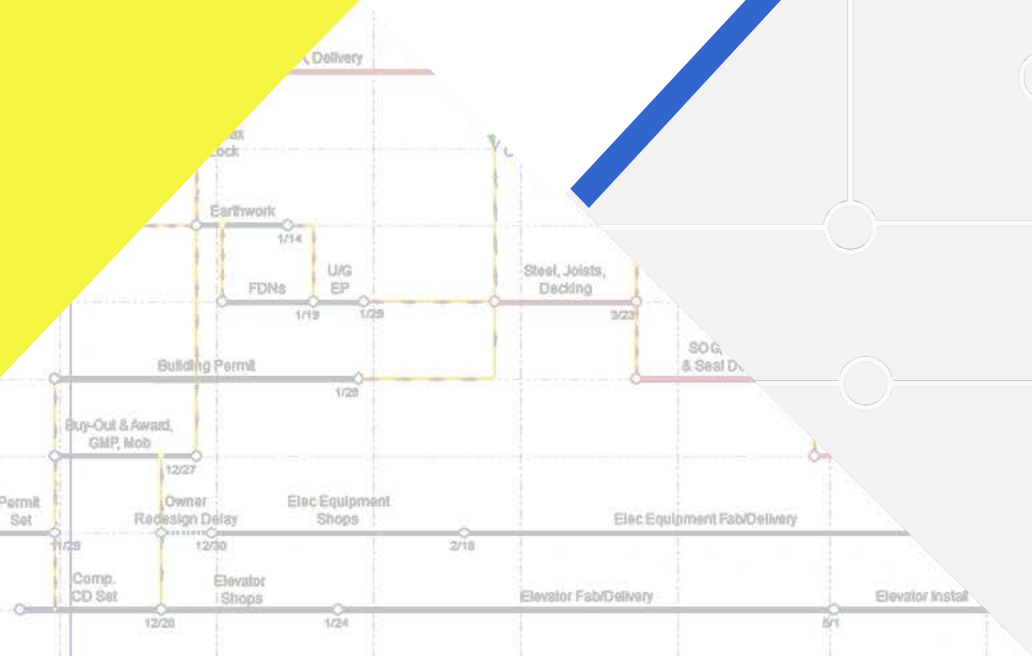


Q & A Time

Any Questions?

Worley

energy | chemicals | resources



Daniel Hamilton

Planning & Scheduling Manager, Worley

Daniel.Hamilton@Worley.com