ProChase

REVOLUTIONIZES EPC PROJECT MANAGEMENT....

.....ADVANTAGE AI ML

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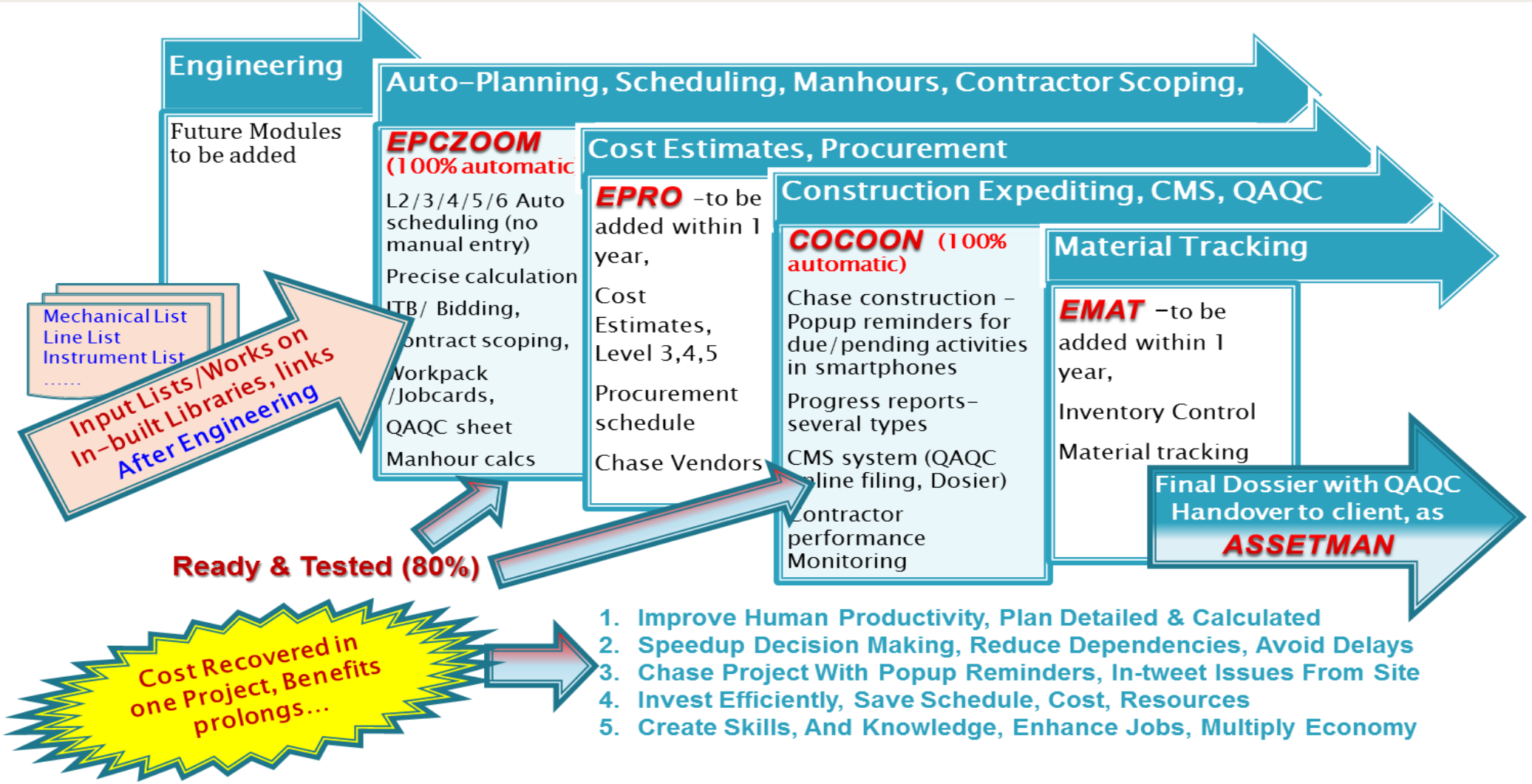
Excellence comes thru Practices

PROJECT SIMULATOR – AN OVERVIEW

Pro-chase = Planing Simulations + Project Chaser



Early Planning with Micro Details

Don't Plan == Plan to Fail

Don't Plan in Micro Details == Plan to Delay Projects

People get busy thinking what to do- how to do

Pro-Chase does 80% of Brain works of

HO Planning Teams,

& Site Execution teams

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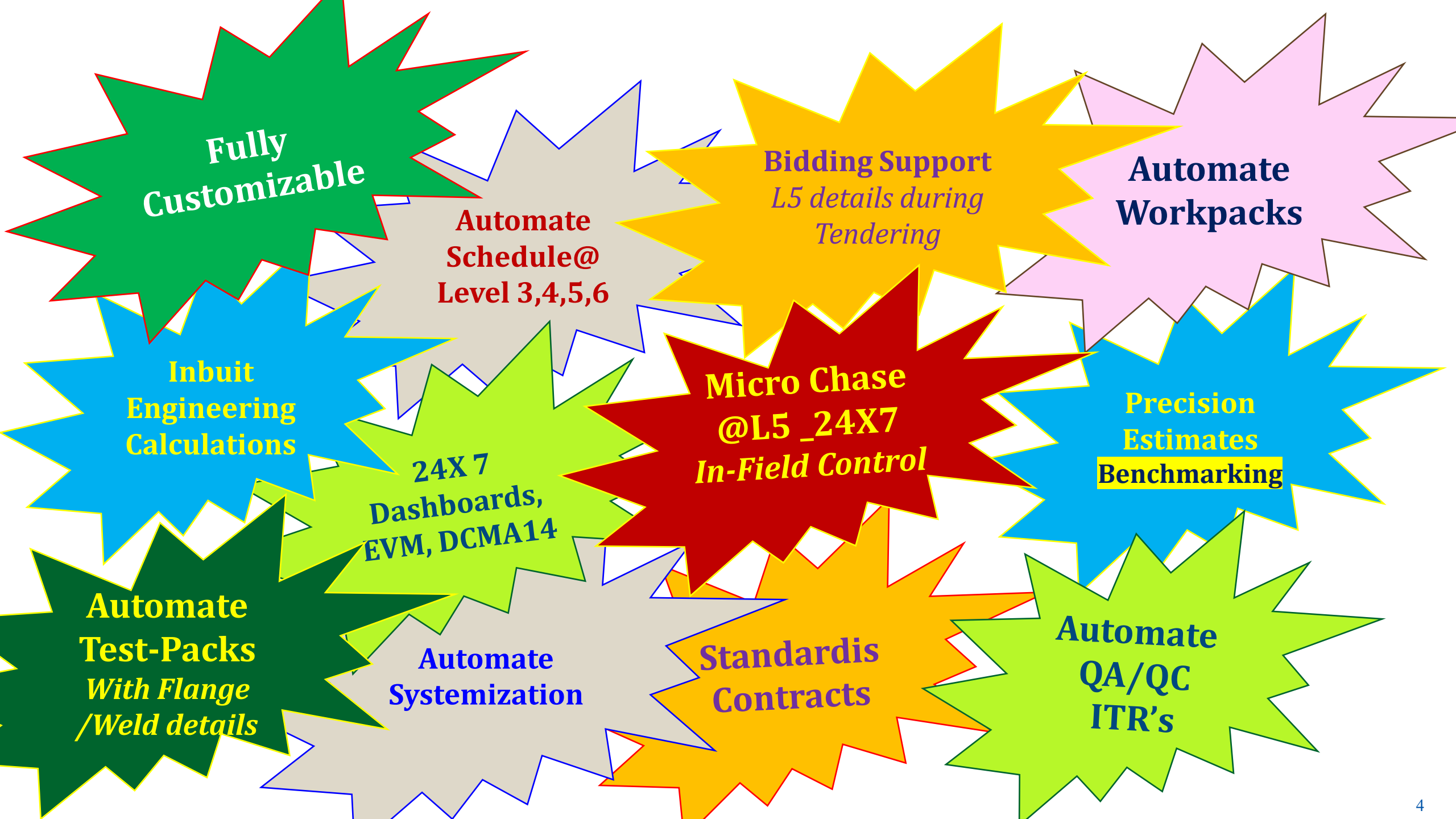

Fully Customizable
Automate Schedule@ Level 3,4,5,6
Bidding Support
L5 details during Tendering
Automate Workpacks
Inbuit Engineering Calculations
24X 7 Dashboards, EVM, DCMA14
Micro Chase @L5 _24X7
In-Field Control
Precision Estimates
Benchmarking
Automate Test-Packs
With Flange /Weld details
Automate Systemization
Standardis Contracts
Automate QA/QC ITR's

What Prochase does for you.....

1 > Auto Creates Test Packs,

2 > Auto Develop System Reports,

3 > Auto Develop WBS Reports,

4 > Auto Develop L1 to L5 Schedule

5 > Auto Creates ITRs/QAQC forms

6 > Chases Activities via Email or User Dashboard

7 > Fetches Actual Progress to get REALTIME Schedule Progress from the ground

8 > Auto creates Look Ahead 3D/3W/3M

9> Assess Teams, Subcons Performance

10> Highlights Issues on Real Time Dashboard

11> Reduces Planning Efforts upto 80%

12> Automate WorkPacks, with manpower Machine tools, safety

13> Delay analysis

14> EVM , DCMA 14 Analysis

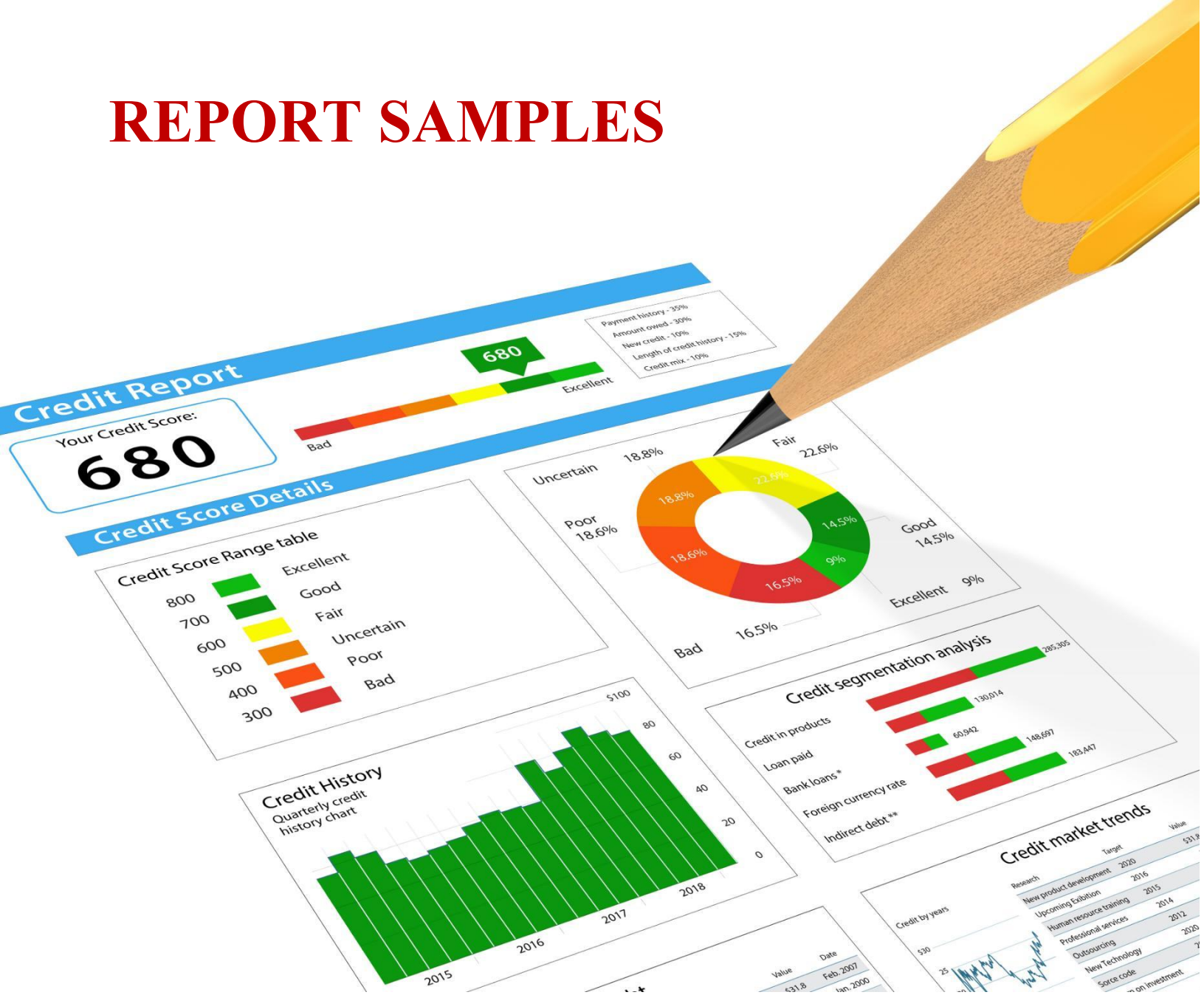
15> Recovery Schedule automated

L-5, the true controller at the ground

Schedule Levels in Construction (Hierarchy)

Level	Description	Typical Use	Detail Level	Audience	Responsibilities
L0 (Level 0)	Master Project Plan (High-Level) Contract Mile stones Schedule	Shows major phases/milestones (e.g., "Design Complete," "Construction Start," ,Completion, Commissioning, and "Handover").	Very high-level, no tasks.	Executives, Clients, Investors	Enables Funds, and Project Management teams
L1 (Level 1)	Summary Schedule Critical Milestones	Breaks L0 into key stages (e.g., "Foundation," "Structural Work," "Major MEP deliveries").	Major deliverables, ~5-20 tasks.	Senior Management, Project Sponsors controlled	Enables E,P,C Execution teams and engage subcntracts
L2 (Level 2)	WBS or System level Control Schedule	WBS, Building, or System level completions, major MEP PO, Arrival, Erection, MCC, SCC, RFSU	Used for project control, ~50-500 tasks. Mostly independent , parallel works	Project Managers, Displine Manager /Lead Engineers Controlled	Enable execution, achieve Progress, provide man, machineries, materials , engineering deliverbaes, subcontracts and POs
L3 (Level 3)	Sub WBS, Sub system Level Execution Schedule or Major Activity Categories	Itemized details within system, Building and WBS (e.g., Slab works," "HVAC Installation"), Panels or equipment installations.	Dependant Discipline, subcontract or Vendor Integration matters for Daily/weekly planning, subcontractor tasks.~500-2,000	Site Engineers and Subcontractor, vendor controlled	Mobilize, man, machine, materials, and prepare method statements and track logistics -Achieve Progress
L4 (Level 4)	Micro-Schedule (Eqipmen wise, detailed sequenc eof activities, integrating multi displimnes)	Task-level breakdown (e.g., "Rebar frames for Slab 1, Electrical conduite, or cable pulling, Compressor rotor Alignment").	Used for short-term execution.Discipline, subcontract or vendor to control progress independantly, to meet L3 level dependency~2,000-20,000 tasks	Field Supervisor, foreman controlled	On ground Actions: conversion of Plan in Paper to Real Life Assets-Achieve Progress
L5 (Level 5)	Subcon's Micro-Schedule (Eqipmen wise, detailed sequenc eof activities, integrating multi displimnes)	Hourly/daily tasks, crew assignments, material tracking. Who, when, where, what, how explained	Used for short-term execution.Discipline, subcontract or vendor to control progress independantly, to meet L3 level dependency ~ 20,000-200,000 tasks	Field Technicians, Sub-subcontractors or labor supervisor controlled	Day-to-day Plan-do-Act: Conversion of Plan in Paper to Real Life Assets-Achieve Progress

REPORT SAMPLES



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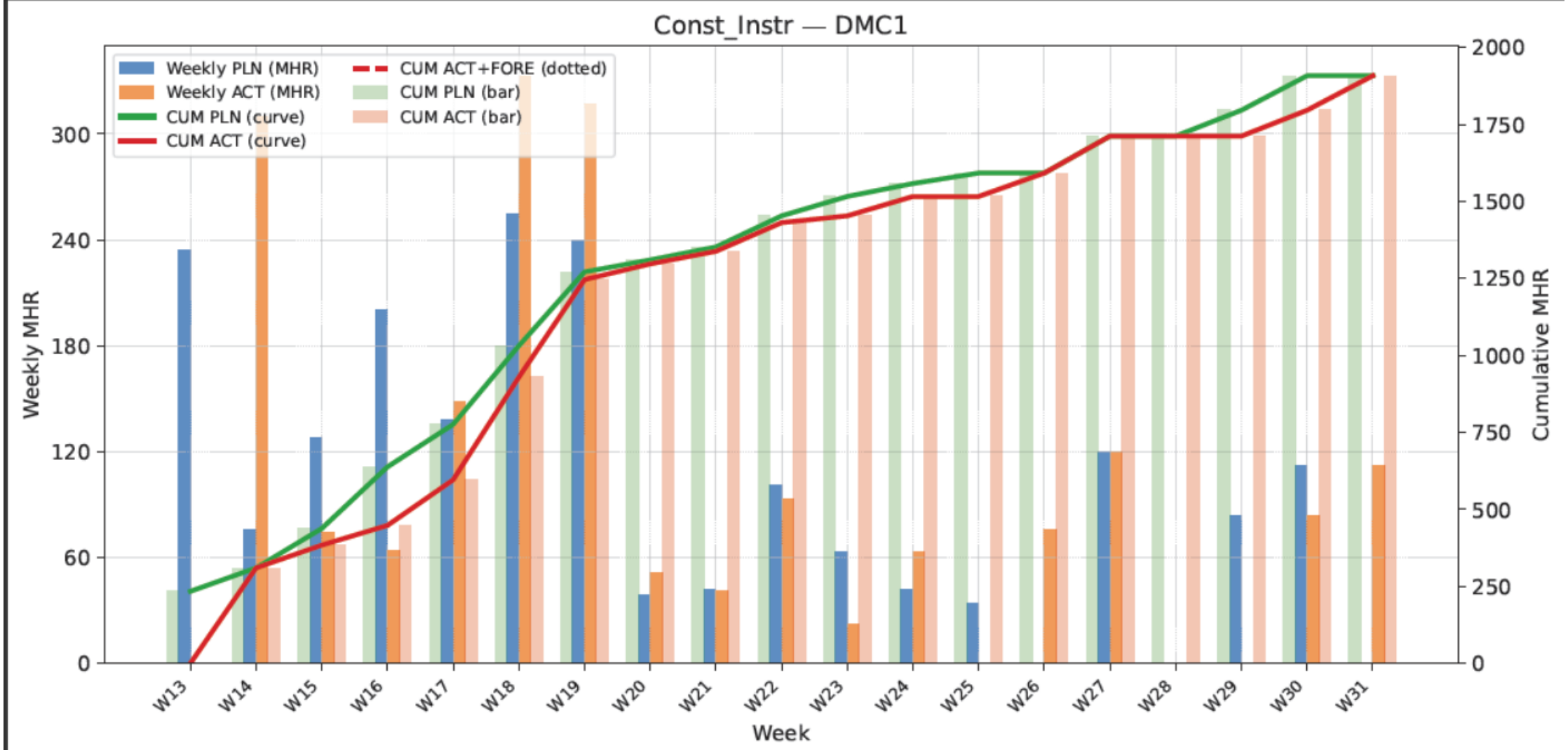
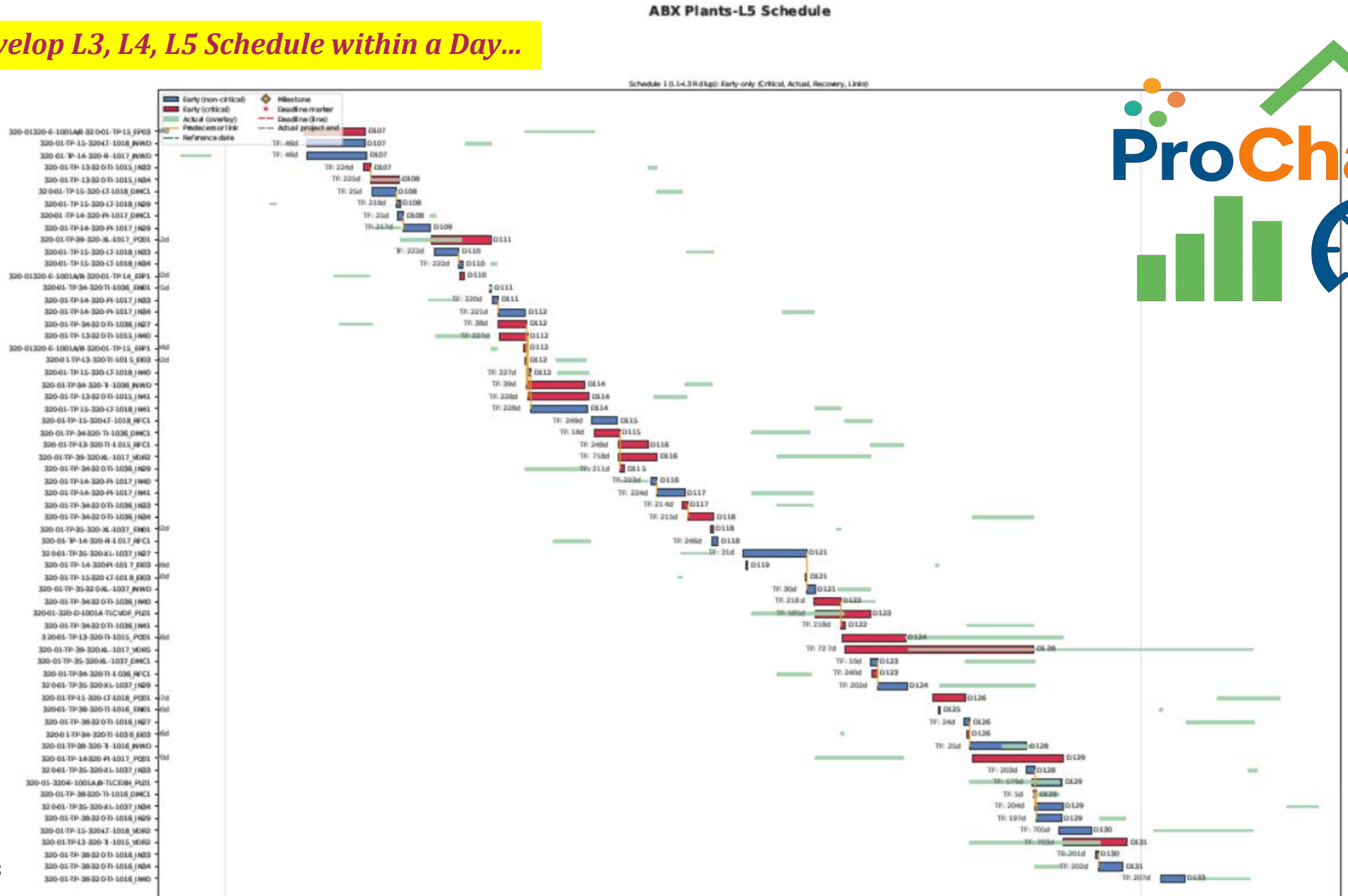
PLAN L-5 & CHASE

ON DAILY- HOURLY BASIS, SUING YOUR DASHBOARDS…



	Week	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28	W29	W30	W31
Weekly PL		234.00	76.00	128.00	200.00	138.00	255.00	240.00	39.00	42.00	101.00	63.00	42.00	34.00	0.00	120.00	0.00	84.00	112.00	0.00
Weekly AC		0.00	310.00	74.00	64.00	148.00	333.00	317.00	51.00	41.00	93.00	22.00	63.00	0.00	76.00	120.00	0.00	0.00	84.00	112.00
CUM PLN		234.00	310.00	438.00	638.00	776.00	1031.00	1271.00	1310.00	1352.00	1453.00	1516.00	1558.00	1592.00	1592.00	1712.00	1712.00	1796.00	1908.00	1908.00
CUM ACT		0.00	310.00	384.00	448.00	596.00	929.00	1246.00	1297.00	1338.00	1431.00	1453.00	1516.00	1516.00	1592.00	1712.00	1712.00	1712.00	1796.00	1908.00
CUM ACT+F		0.00	310.00	384.00	448.00	596.00	929.00	1246.00	1297.00	1338.00	1431.00	1453.00	1516.00	1516.00	1592.00	1712.00	1712.00	1712.00	1796.00	1908.00

Develop L3, L4, L5 Schedule within a Day…



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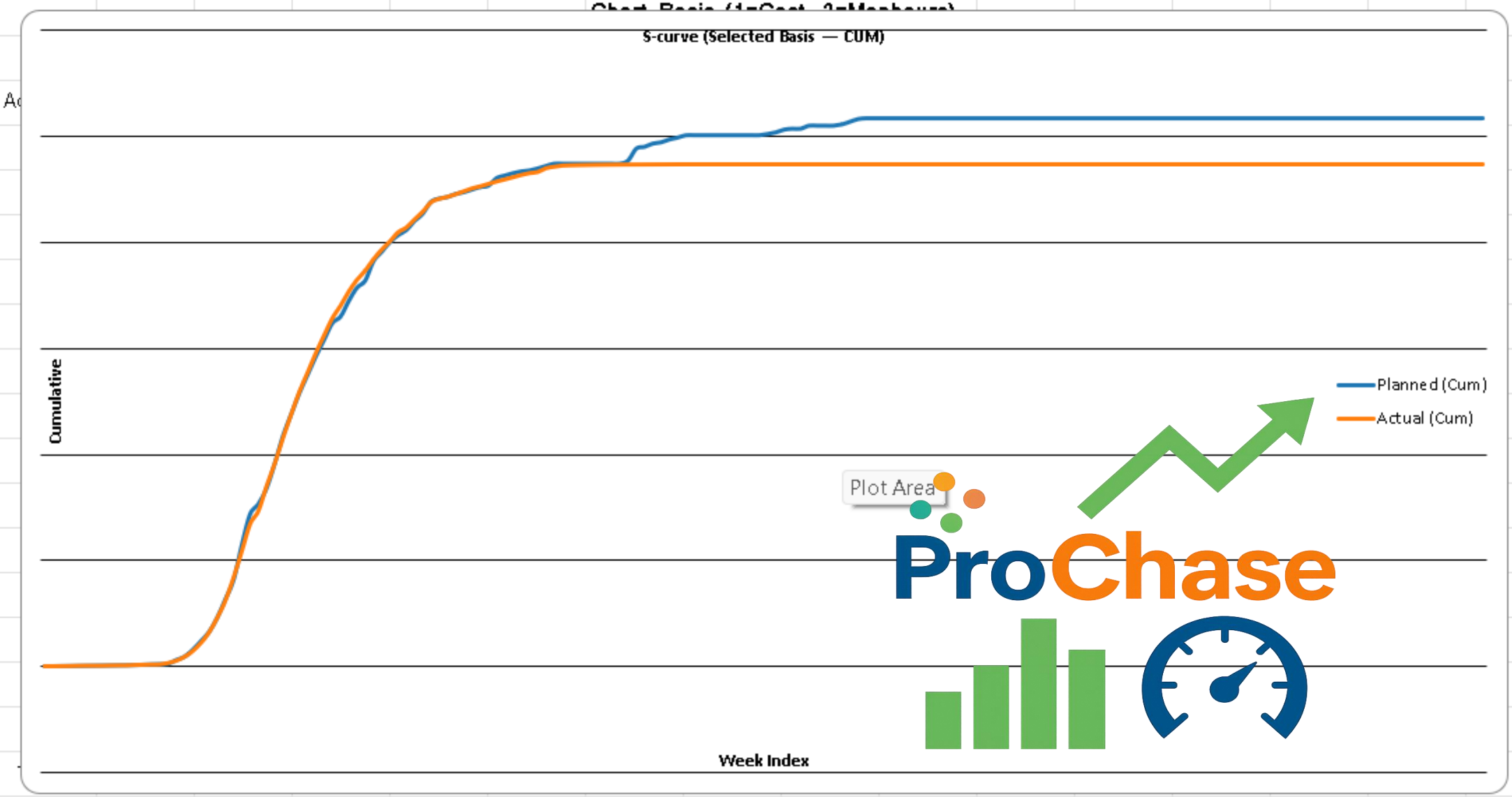
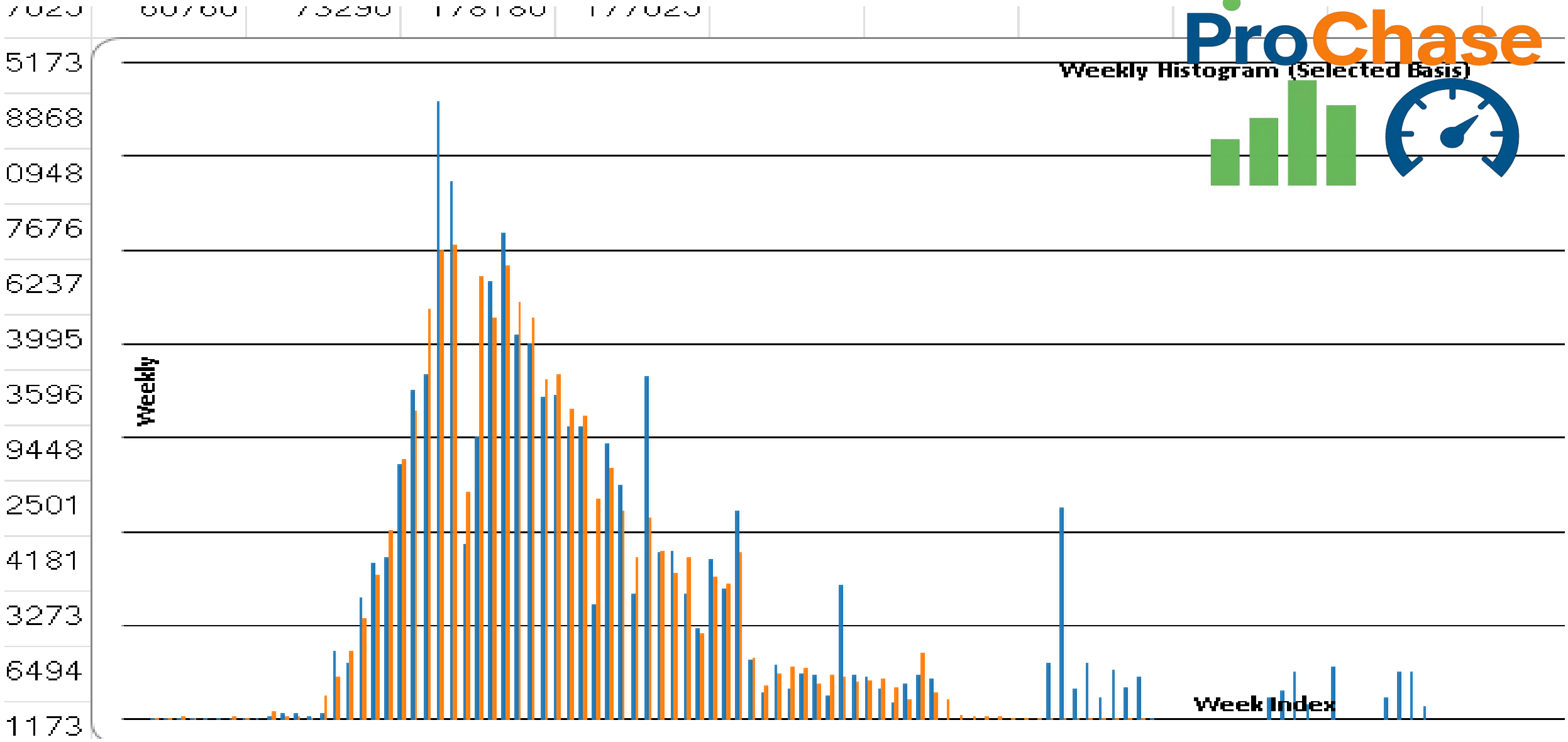
MH	Planned	Ac
19	2000	
38	4000	
76	6000	
95	8000	
95	10000	
95	12000	
33	14000	
52	16000	
52	18000	
28	22000	
56	28000	
04	34000	
23	38000	
27	44000	
.5	117420	





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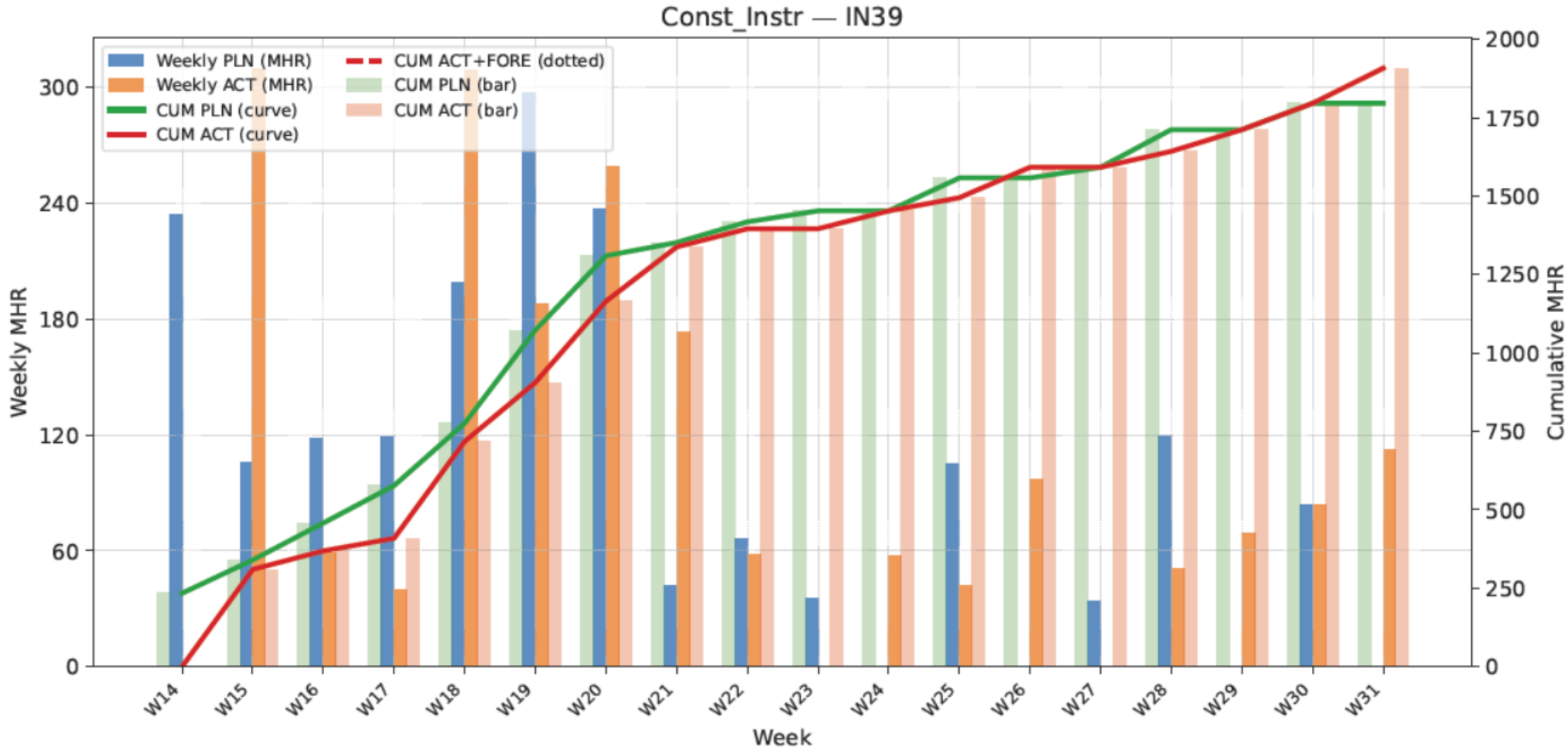
Weekly Histogram (Selected Basis)



Week	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28	W29	W30	W31
Weekly PL	234.00	106.00	118.00	119.00	199.00	297.00	237.00	42.00	66.00	35.00	0.00	105.00	0.00	34.00	120.00	0.00	84.00	0.00
Weekly AC	0.00	310.00	59.00	40.00	309.00	188.00	259.00	173.00	58.00	0.00	57.00	42.00	97.00	0.00	51.00	69.00	84.00	112.00
CUM PLN	234.00	340.00	458.00	577.00	776.00	1073.00	1310.00	1352.00	1418.00	1453.00	1453.00	1558.00	1558.00	1592.00	1712.00	1712.00	1796.00	1796.00
CUM ACT	0.00	310.00	369.00	409.00	718.00	906.00	1165.00	1338.00	1396.00	1396.00	1453.00	1495.00	1592.00	1592.00	1643.00	1712.00	1796.00	1908.00
CUM ACT+F	0.00	310.00	369.00	409.00	718.00	906.00	1165.00	1338.00	1396.00	1396.00	1453.00	1495.00	1592.00	1592.00	1643.00	1712.00	1796.00	1908.00

EVM SUMMARY

Data Date	2025-04-07 11:37:49
BAC	10336352
PV	9982742.03
EV	9064239.46
AC	9064239.46
SV (EV-PV)	-918502.57
CV (EV-AC)	0
SPI (EV/PV)	0.908
CPI (EV/AC)	1
EAC (BAC/CPI)	10336352
ETC (EAC-AC)	1272112.54
VAC (BAC-EAC)	0
Planned Start	2023-10-21 00:00:00
Planned Finish	2025-09-08 12:12:00
Planned Duration (d)	688
Forecast Finish	2025-09-02 13:06:00
SPI(t) time-based	1.041

Actual cost is not available , hence assume dequal. Alternatively it can be proportionated to actual durations and work efficiencies, but that's is not as per PMI standard.

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DCMA 14-POINT SUMMARY

Point	Metric	Target	Pass
01 Missing pred/succ links	0.0%	≤ 5%	TRUE
02A Leads (FS strict)	0.0%	0	TRUE
02B Leads (FS tol −8h)	0.0%	0	TRUE
03 Lags (positive lag)	2.8%	≤ 5%	TRUE
04 FS relationship share	99.3%	≥ 90%	TRUE
05 Hard constraints (heuristic LLI lock)	0.0%	≤ 5% (heuristic)	TRUE
06 High float (>44d)	76.5%	≤ 5%	FALSE
07 Negative float	0.0%	≤ 0%	TRUE
08 Long durations (>44d)	0.5%	≤ 5%	TRUE
09 Invalid/Missing Dates	0.8%	≈ 0%	TRUE
10 Resources coverage	100.0%	≈ 100%	TRUE
11 Missed tasks	0.3%	≤ 5%	TRUE
12 CPLI	100.0%	>= 1.00	TRUE
13 Critical Path Integrity	100.0%	Exists & logical	TRUE
14 BEI (Actual/Planned completes)	95.1%	≈ 1.00	TRUE
15 SPI(t) time-based	104.1%	>= 1.00	TRUE
16 Out-of-Sequence Progress	57.4%	≈ 0%	FALSE

Total Flots: high because not all systems, and WBS covered, so final mechanical completion and hand over could not be linked to system mechnaical completion and handover. Once this is done, flot will be very less.

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CONSTRUCTION CONTROL

In-situ Project Chase thru' Discipline and Contractor 's

Personalized Dashboards

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UI Under Progress

Mechanical Dashboard

PROJECT CHASE BEGINS.....

LOOKAHEADS...

Lookahead 3D	Lookahead 3W	Lookahead 3M	Pending Activities
3	13	50	65

Viewing Lookahead: my_schedule1_lookahead_new.xlsx

wbsno	act_descr	prefixed_act_code	prefixed_preds	early_strt_dt	early_fin_dt	delay_reason	action_party	fore_strt_dt	fore_fin_dt	status	delayed_
002.99.002.05.2	Issue PO	320-E-1002-999-TI-1047_PO01	320-E-1002-999-TI-1047_CB01	2024-03-22T12:12:00	2024-03-23T10:24:00	same as above	0	2024-03-22T12:12:00	2024-03-27T13:56:22	Not due yet; planned start in 49 days.	0
002.99.002.05.2	Issue PO	320-E-1002-999-TI-1046_PO01	320-E-1002-999-TI-1046_CB01	2024-03-22T12:12:00	2024-03-23T10:24:00	same as above	0	2024-03-22T12:12:00	2024-03-27T13:56:22	Not due yet; planned start in 49 days.	0
002.99.002.05.2	Issue PO	320-E-1002-999-TI-1047_PO01	320-E-1002-999-TI-1047_CB01	2024-03-22T12:12:00	2024-03-23T10:24:00	same as above	0	2024-03-22T12:12:00	2024-03-27T13:56:22	Not due yet; planned start in 49 days.	0
002.99.002.05.2	Issue PO	320-E-1002-999-TI-1046_PO01	320-E-1002-999-TI-1046_CB01	2024-03-22T12:12:00	2024-03-23T10:24:00	same as above	0	2024-03-22T12:12:00	2024-03-27T13:56:22	Not due yet; planned start in 49 days.	0
002.99.003.04.3	Item dispatched, Packing list Issued	320-E-1002-999-TI-1046_DL01	320-E-1002-999-TI-	2024-04-15T10:24:00	2024-04-16T13:06:00	same as above	0	2024-04-	2024-04-	Not due yet;	

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EARNED VALUE COUNTER ...1,620,786 ManHrs Earned

Dashboard

Last Updated: 11/10/2025, 21:40:02

PENDING ACTIVITIES ....HIGHLIGHTED

Lookahead 3D	Lookahead 3W	Lookahead 3M	Pending Activities
3	13	50	65

Pending Activities

UPDATED BY USER WITH DELAY REASONS & ACTION PARTY

← Back

l Fin Dt	Fore Strt Dt	Fore Fin Dt	Status	Delayed Days	Delay Reason	Action Party	Criticality
yyyy	23-03-2024	29-07-2024	Not due yet; planned start in 50 days.	0	R1_COMP/	2	
yyyy	28-03-2024	29-03-2024	Not due yet; planned start in 55 days.	0	-- Select R		
yyyy	07-03-2024	07-03-2024	Not due yet; planned start in 34 days.	0	-- Select R		
yyyy	02-04-2024	16-09-2024	Not due yet; planned start in 60 days.	0	-- Select R		
			Not				

REAL TIME UPDATES 24X7....

-- Select Reason --
R1_COMPANY: Document/procedure/MS approval pending
R2_COMPANY: Document/procedure/MS PTW pending
R3_COMPANY: Regulatory approval or NOC pending
R4_CONTRACTOR: Document/procedure/MS submission/approval pending
R5_CONTRACTOR: Manpower not available
R6_CONTRACTOR: Subcontracting pending
R7_CONTRACTOR: Predecessor activity not finished
R8_CONTRACTOR: Management directives unclear/under discussion
R9_SUBCONTRACTOR: Manpower not available
R10_SUBCONTRACTOR: Tools/Machineries not available
R11_SUBCONTRACTOR: Method statement not submitted
R12_SUBCONTRACTOR: Temporary fittings/materials not ready
R13: Contractual issue between contractor and subcontractor
R14: Contractual issue between company and contractor
R15: High non-temperatures/winds
R16: High rains/floods at site
R17: Labour strikes

MAINTAIN THE PUSH....

ProChase

EARNED VALUE COUNTER ...1,620,786 ManHrs Earned

CONTRACTOR's Performance

Summary by Disc (completed basis: actual_dur_days>0 OR act_fin_dt not blank)

Disc	act_code_total	completed_act_code	avg_actual_dur_days	avg_eff	probability_density
Civil	7	7	1.49	0.95	0.076
Commissioning	16	16	0.87	1.05	0.078
Const_Instr	43	43	0.73	1.24	0.092
Const_mech	9	9	1.78	0.92	0.08
Construction	5	5	1.33	0.8	0.083
Electrical	4	4	1.02	1.05	0.061
Eng_Instrument	6	6	0.7	1.32	0.08
Instrument	2	2	0.37	1.5	0.06
Logistics	5	5	10.68	0.85	0.105
Mechanical	9	9	27.24	0.8	0.12
PMT	10	10	1.05	0.9	0.096
PNT	1	1	2.87	0.55	0.062
Piping	8	8	3.1	0.79	0.103
Process	4	4	1.32	0.75	0.085
Procurement	6	6	1.36	0.89	0.097
QAQC	5	5	1.04	1.05	0.072
Scaffolders	1	1	1.98	0.53	0.042
Vendor	20	20	1.43	0.9	0.095
const_piping	36	36	1.22	0.85	0.106
vendor	2	2	1.36	1.04	0.054

CONSTRUCTION ACTIVITY CORRELATIONS WITH TEAMS AND DELAY ANALYSIS

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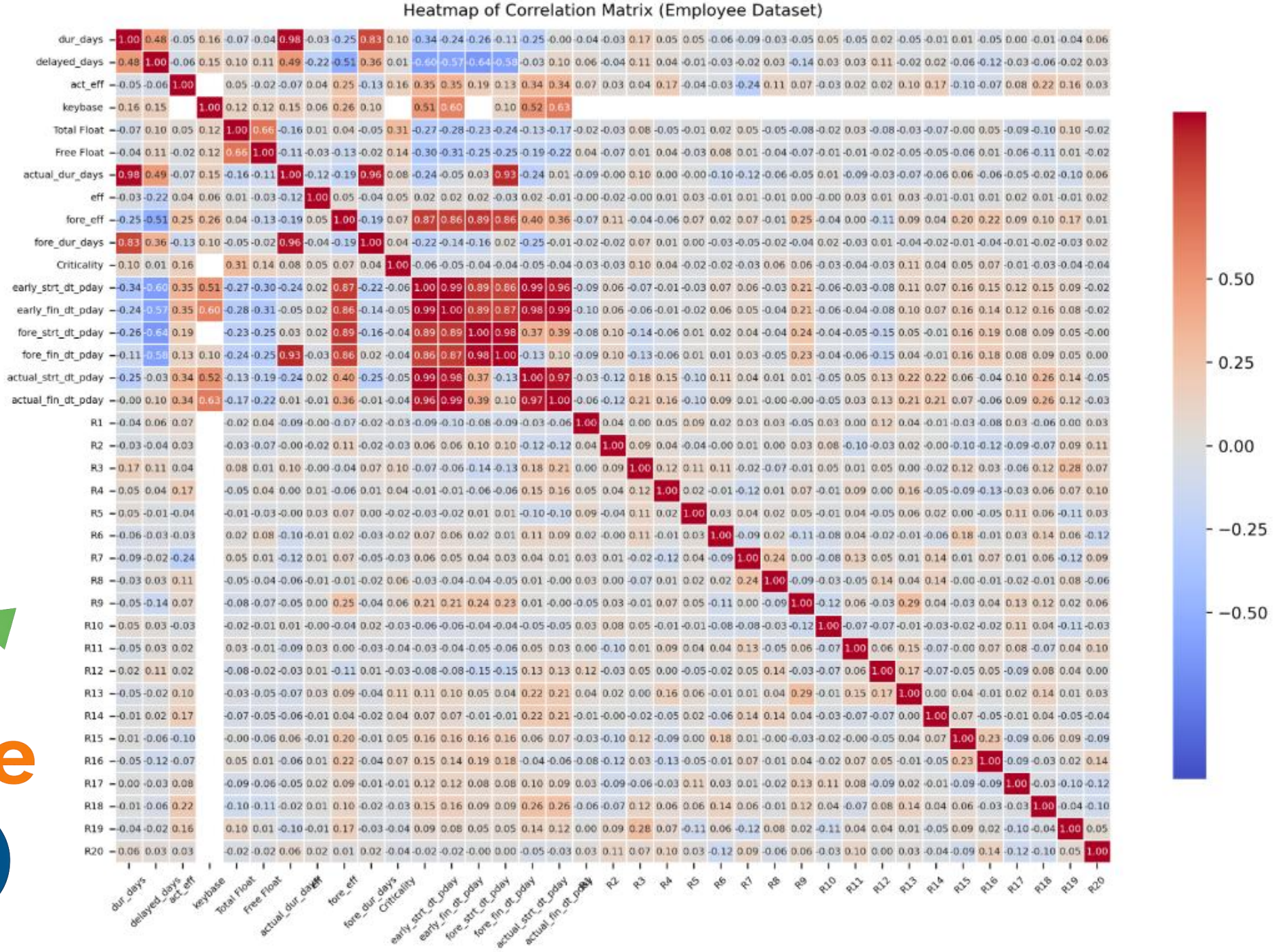


10/12/2025

TEST PACK REPORT

SYSTEM NO	SUBSYSTEM NO	TESTPACK NO	LINE NO	INLINE VALVES NO	ONLINe INSTRUMENTS
sysno	subsysno	tpsno	Line_no	inv_online	inm_online
1221	1221-03	1221-03-tps-01	1221-GN-1017-2-03G0N--	1221-PV -9401 _A	(blank)
			1221-GN-1019-2-03G0N--	1221-PV -9401 _B	(blank)
			1221-GN-1051-3-03G0N--	1224-SDV -9005	(blank)
			1221-GN-7026-2-03G0N--	1221-BDV -9501	1221-FO -9501
		1221-03-tps-02	1221-GN-1011-12-06G0N-PP	1221-PV -9101 _B	(blank)
			1221-GN-1013-20-06G0N-PP	1221-PV -9101 _A	1221-FE -9101, 1221-FT -9101, 1221-PY -9101 _B, 1221-PY -9101 _A
			1221-GN-1018-12-06G0N-PP	1221-PV -9201 _B	(blank)
		1221-03-tps-04	1221-GN-1001-20-15B0N-PP	1221-SDV -9002	1221-PI -9002, 1221-PT -9001, 1221-PT -9003, 1221-PDT -9004, 1221-PTZ -9701, 1221-PTZ -9702, 1221-PTZ -9703, 1221-XI -9001
			1221-GN-1002-3-15B0N-PP	1221-FO -9001	(blank)
			1221-GN-1009-20-15B0N-PP	1221-HV -9001	(blank)
			1221-GN-1012-20-15B0N-PP	1221-HV -9002	1221-HY -9002
	1221-04	1221-04-tps-04	1221-HC-8003-4-06G0N--	1221-SDV -9502	1221-LV -9017, 1221-LY -9017
	1221-06	1221-06-tps-01	1221-WN-6001-4-03G0N-PP	1221-SDV -9401	1221-LV -9402
1222	1222-04	1222-04-tps-01	1440-GG-1313-2-01A1-	1440-PV -9011 _B	(blank)
	1222-07	1222-07-tps-01	1224-WN-6004-2-01A3N-PP	1224-FE -9001	1224-PI -9003, 1224-FT -9001, 1224-LV -9001
			1224-WN-6010-2-01A3N-PP	1224-FE -9002	1224-PI -9006, 1224-FT -9002, 1224-LV -9003

Testpacks - Flange and Weld_Volume Details: Precisely Estimate Manpower, Cost and Durations

ASTM A312, A358, A778, A53, A106, API 5L ASME/ANSI B36.19 B36.10 & ASME 16.47 53-57

System/Subsystem/Line Number	Flange joints	Flange Bolt Counts	Weld Joints	Weld Volums (Cm^3)

Note: True Cost & Schedule is more proportionate to Bolt counts and Weld volumes, not Dia-inch, correcting rating/spec effects

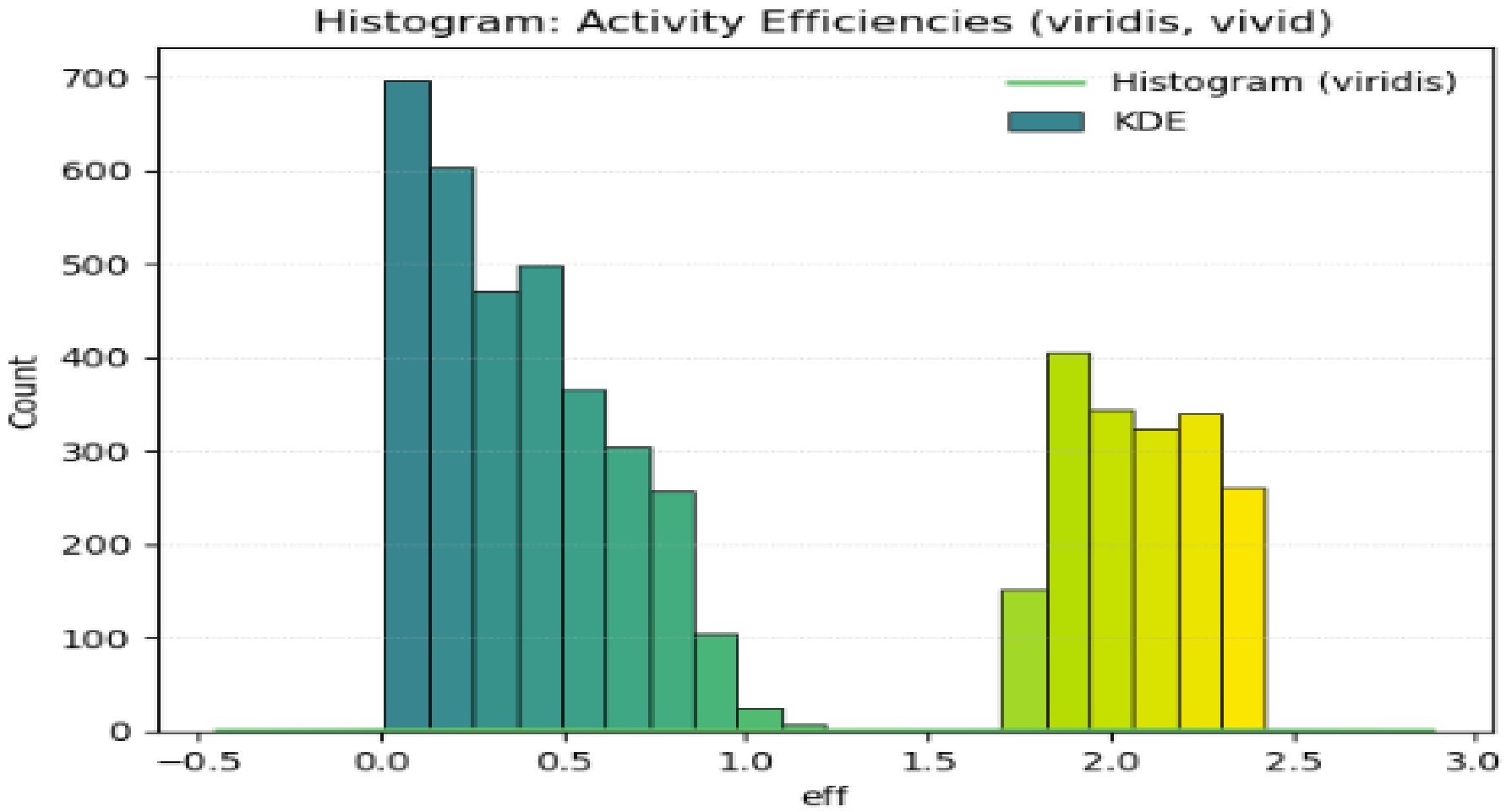
Row Labels	Sum of Line_flange_joint	Sum of Line_flange_bolts	Sum of Line_weld_joints	Sum of Line_weld_vol_cm3
1221	**339**	**3108**	**468**	**33875**
1221-01	**257**	**2236**	**358**	**26935**
1221-01-tps-01	22	280	34	3900
1221-GN-1002-15B0N	6	24	6	72
1221-GN-1009-15B0N	8	128	14	1914
1221-GN-1010-15B0N				
1221-GN-1012-15B0N	8	128	14	1914
1221-01-tps-02	44	240	46	980
1221-GN-1003-15A3N	6	24	7	78
1221-GN-1006-15A3N	11	88	13	672
1221-GN-1008-15A3N	10	40	9	38
1221-GN-1065-15A3N	6	24	4	60
1221-GN-1101-15A3N	5	40	9	112
1221-GN-7027-15A3N	6	24	4	20
1221-01-tps-03	102	1088	144	12899
1221-GN-1011-06G0N	12	144	11	1288
1221-GN-1013-06G0N	12	192	19	2697

MOCK PROJECT : BETA-1 : SYSTEM REPORT

Syst No	Subsys_No	Equipment No	Equipment valves	Instrument on Equipment	Test Packs	Lines in TestPacks	Inline Valves	Inline Instrument
1221	1221-03	1221-D-9003		1221-LAHH -9015, 1221-LALL -9015, 1221-LG -9018, 1221-LIZ -9015 _A, 1221-LIZ -9015 _B, 1221-LT -9017, 1221-LTZ -9015, 1221-PI -9501, 1221-PT -9601, 1221-TI -9017, 1221-TW -9017	1221-03-tps-05	1221-HC-8045-03G0N		
1221	1221-04	1221-D-9004		1221-PI -9006, 1221-PI -9007, 1221-PI -9008, 1221-PI -9009, 1221-XI -9002, 1221-XI -9002 _A	1221-04-tps-01	1221-DC-13001-15A3N		
1223	1223-03	1223-PM-9001A/B			1223-03-tps-02	1223-HC-8034-01A3	1223-SDV -9101, 1223-FV -9103, 1223-SDV -91700	1223-FE -9103, 1223-FT -9103, 1223-FY -9103, 1223-FE -9104, 1223-FTZ -9104, 1223-PT -9105, 1223-PTZ -9106, 1223-TW -9105, 1223-TT -9105, 1223-FT -91700, 1223-PT -91700, 1223-TW -91700, 1223-TT -91700
1224	1224-01	1224-D-9001A/B			1224-01-tps-01	1224-GF-1018-01G0N	1224-PSV -9101	
1224	1224-01	1224-D-9001A/B			1224-01-tps-01	1224-GF-1019-01G0N		
1224	1224-01	1224-D-9001A/B			1224-01-tps-01	1224-GF-1020-01G0N		1224-PDI -9101, 1224-FE -9101, 1224-FT -9101, 1224-FE -9103, 1224-FTZ -9103
1224	1224-01	1224-D-9001A/B			1224-01-tps-01	1224-GF-1025-01G0N	1224-FE -9102	1224-PDI -9102, 1224-FT -9102, 1224-FE -9104, 1224-FTZ -9104

Activity Efficiencies Plot

Monitor Fabrication, Erection, Completion, Commissioning…



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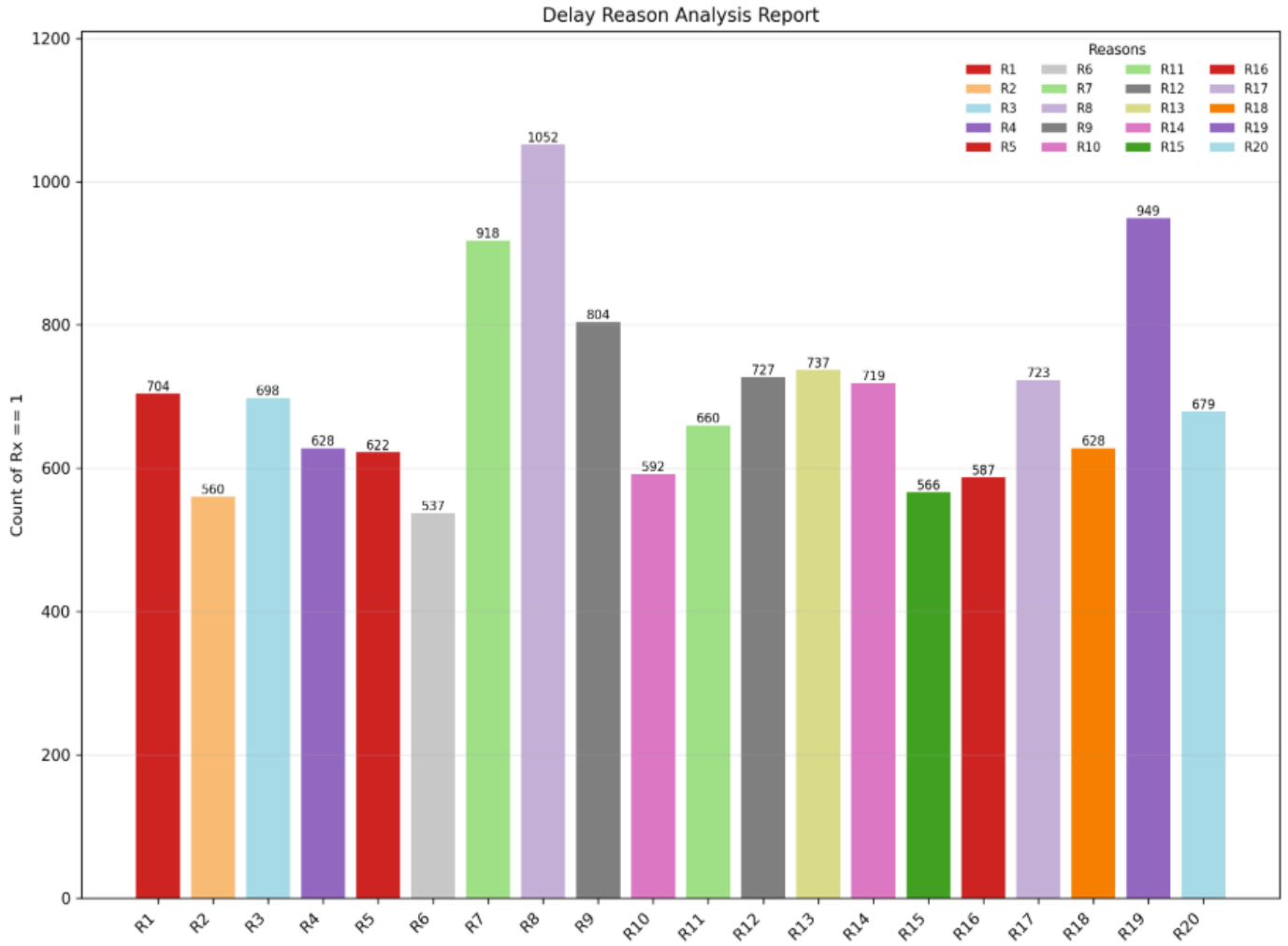
DELAY ANALYSIS



Saved:
- Delay_Reason_Analysis_Report.pdf

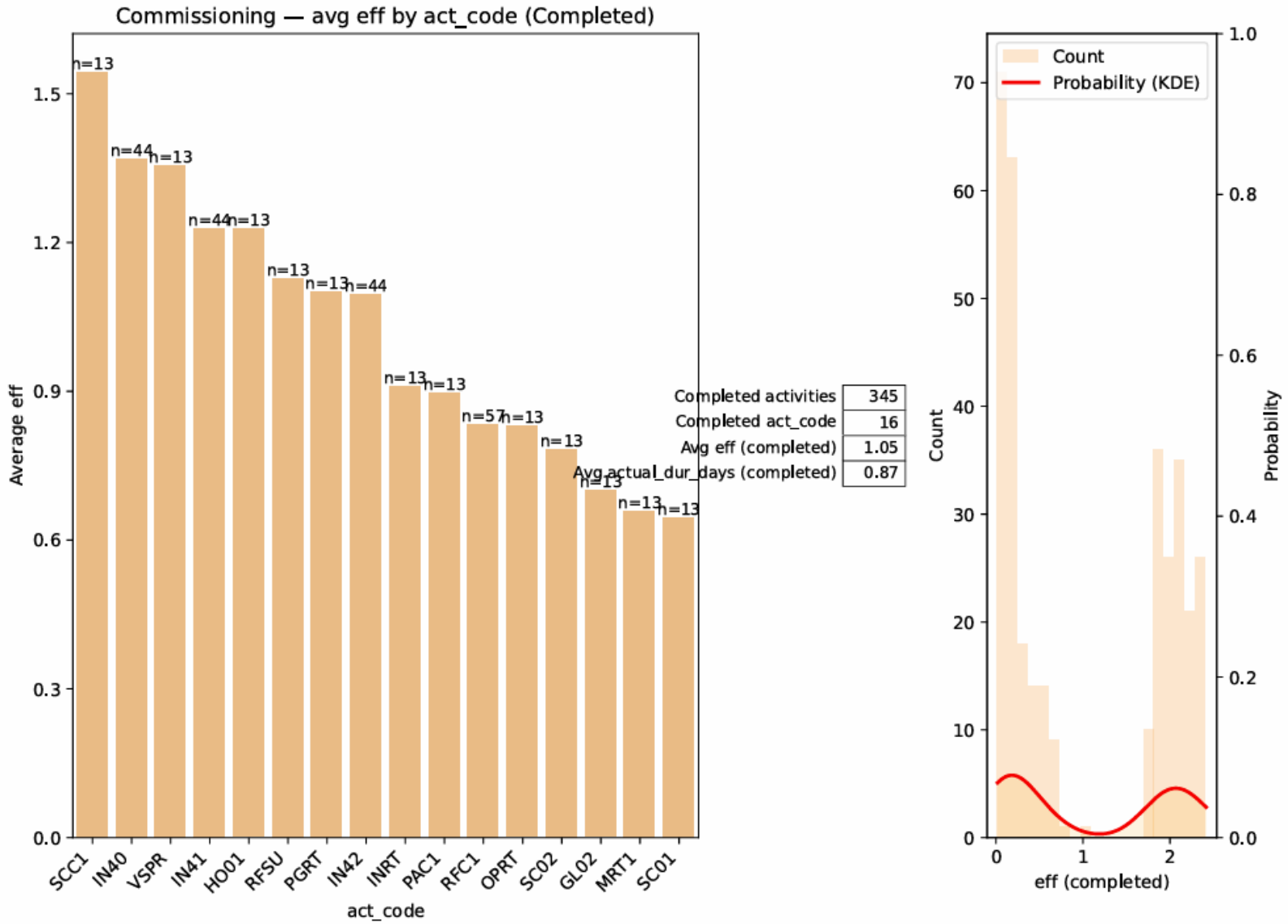
Analyze what is delaying project: _L5 Actvity level:

"R1_COMPANY: Document/procedure/MS approval pending",
"R2_COMPANY: document/procedure/MS PTW pending",
"R3_COMPANY: regulatory approval or NOC pending",
"R4_CONTRACTOR: Document/procedure/MS submission/approval pending",
"R5_CONTRACTOR: Manpower not available",
"R6_CONTRACTOR: subcontracting pending",
"R7_CONTRACTOR: predecessor activity not finished",
"R8_CONTRACTOR: Management directives unclear/under discussion",
"R9_SUB-CONTRACTOR: Manpower not available",
"R10_SUB-CONTRACTOR: Tools and Machineries/crane/DG set etc not available",
"R11_SUB-CONTRACTOR: Method statement not submitted",
"R12_SUB-CONTRACTOR: temporary fittings/scaffolds/materials not ready",
"R13_Contractual issue between contractor and subcontractor",
"R14_contractual issue between company and contractor",
"R15_high Non temperatures/winds",
"R16_high rains/floods at site",
"R17_labour strikes",
"R18_Safety training delayed",
"R19_vendor not available",
"R20_specialty parts damaged/re order delay",

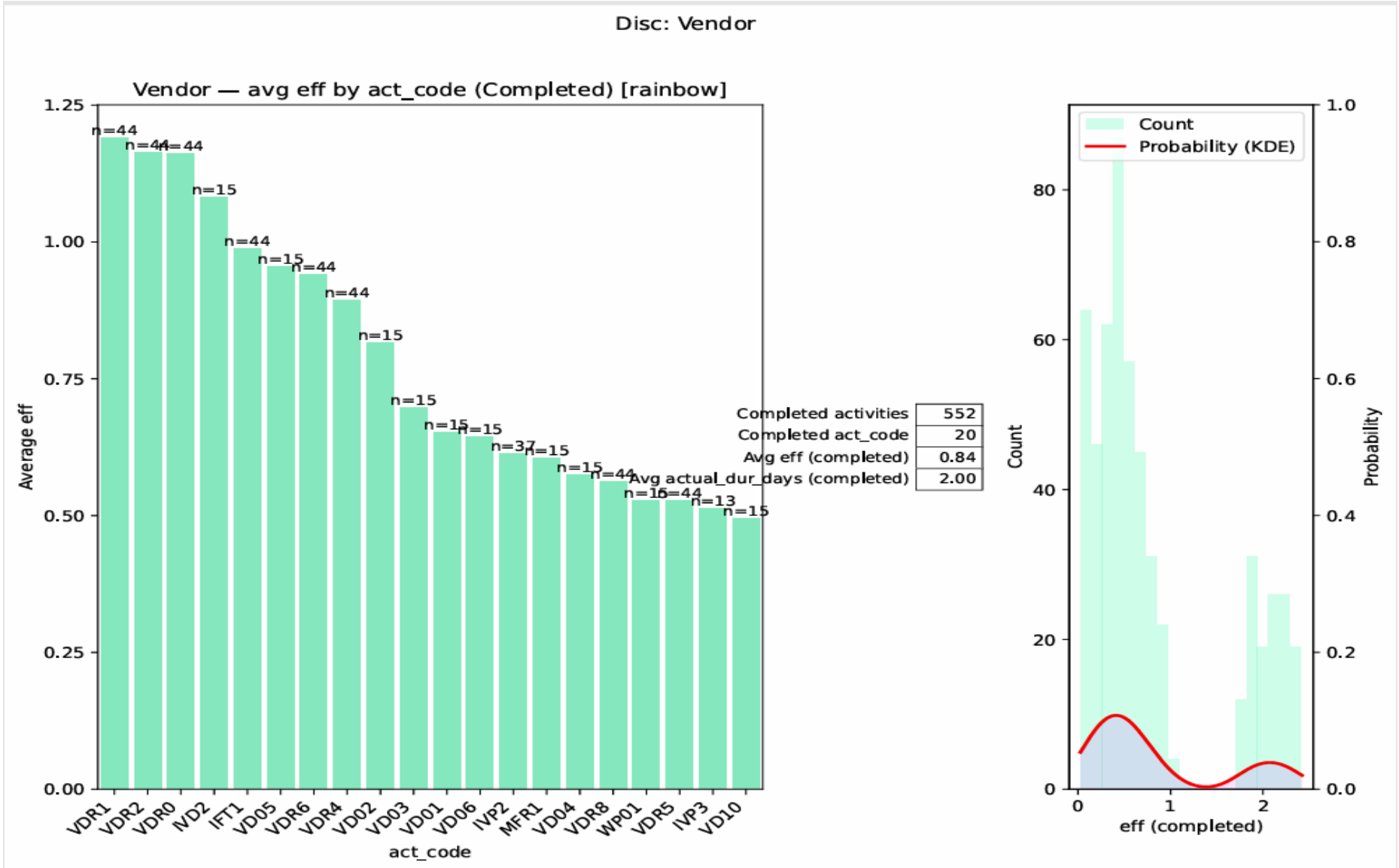
Search google for Paper published: wetting risk premium using Monte Carlo Simulations by Pramendra srivastava

DISCIPLINE's Performance

Disc: Commissioning



CONTRACTOR's Performance



PROCHASE – IT IS NOT CMS, IT IS PMS

How it works ?...Follow steps A-B-C-D

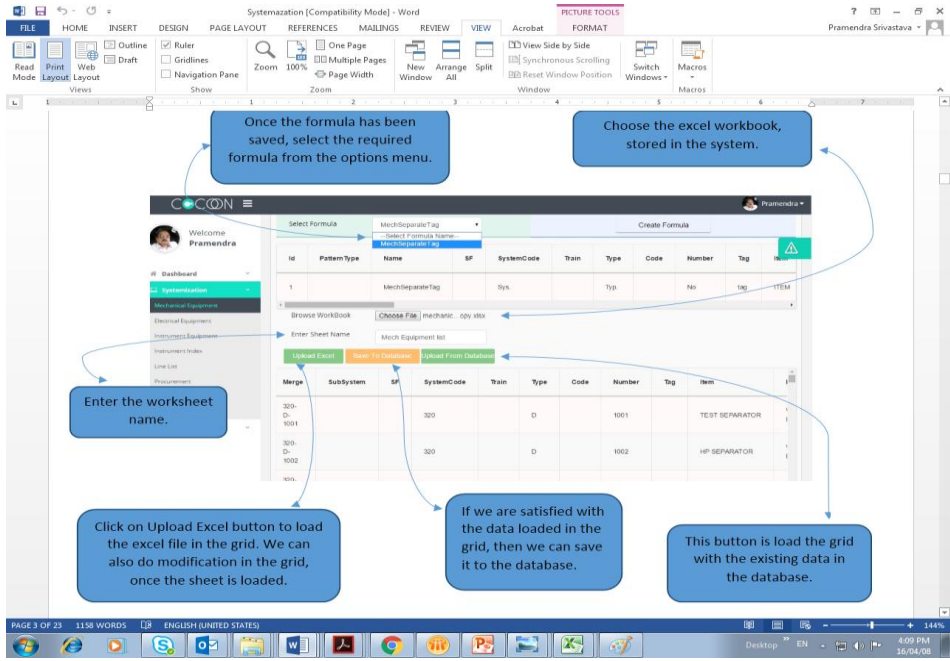
A. Load Data:

- ✓ Load Mechanical lists
- ✓ Load Electrical lists
- ✓ Instrument List..Etc..
- ✓ Civil/Structure list
- ✓ MTO's
- ✓ L1& LLI Dates
- ✓ Key base Entries (several)

EPCZOOM requires original .xls native files of lists

B. Process Data:

- ✓ Automatic Test pack generation
- ✓ Automatic Systematization
- ✓ Automatic Scheduling (Level 3,4,5)
- ✓ Automatic Job cards Creation
- ✓ Automatic Work pack Creation
- ✓ Automatic QA/QC check sheet generation
- ✓ Automatic Progress Reporting – live
- ✓ Field tabs for Lead to directly update status
- ✓ Daily reports and Popup Reminders



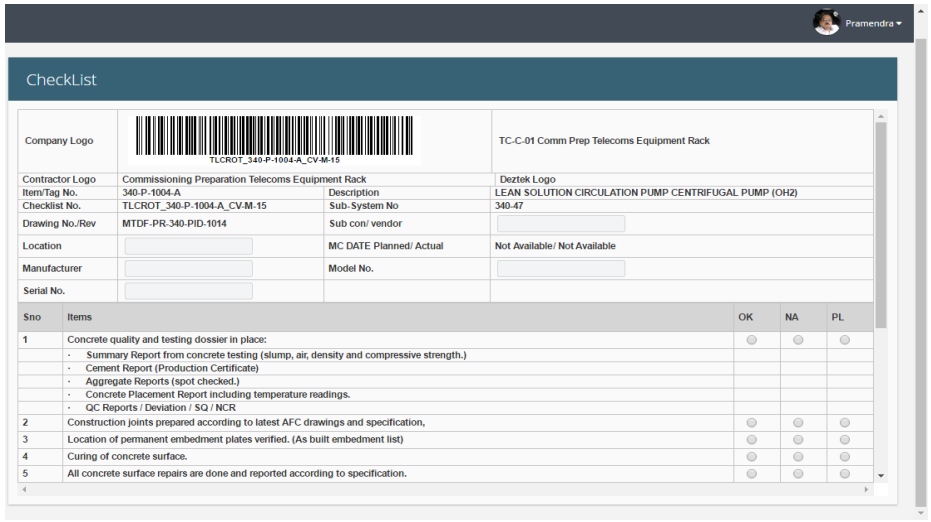
ProChase

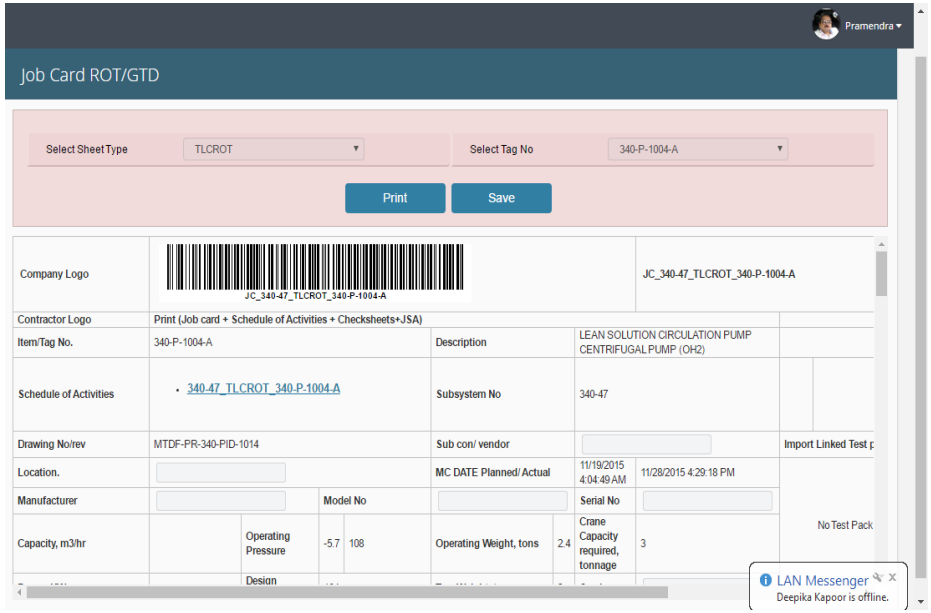
EPCSIM – STANDARDIZES ITB, AUTOMATES PROJECTS...

C. EPC Bid Packaging/ Reports:

- ✓ System Report & Tagged List of components
- ✓ Test pack reports
- ✓ Detailed Schedule –level 3, 4, 5, 6
- ✓ WorkPacks:
  - ✓ Jobcards
    - List of Activities, with start/End dates
    - QA/QC checksheets
    - Manpower Resource Histograms
    - Tools & Machineries
    - Safety PPEs
    - Data table for MSProject /Primaver
- ✓ Resource Historgrams, and manpower calcs
- ✓ Contractor's /Sub contractor Scoping:
  - List of Activities, with start/End dates
  - Manpower Resource Histograms
  - Tools & Machineries
  - Safety PPEs
  - Data table for MSProject /Primavera.
- ✓ Additional customized reports using several filters

ProChase

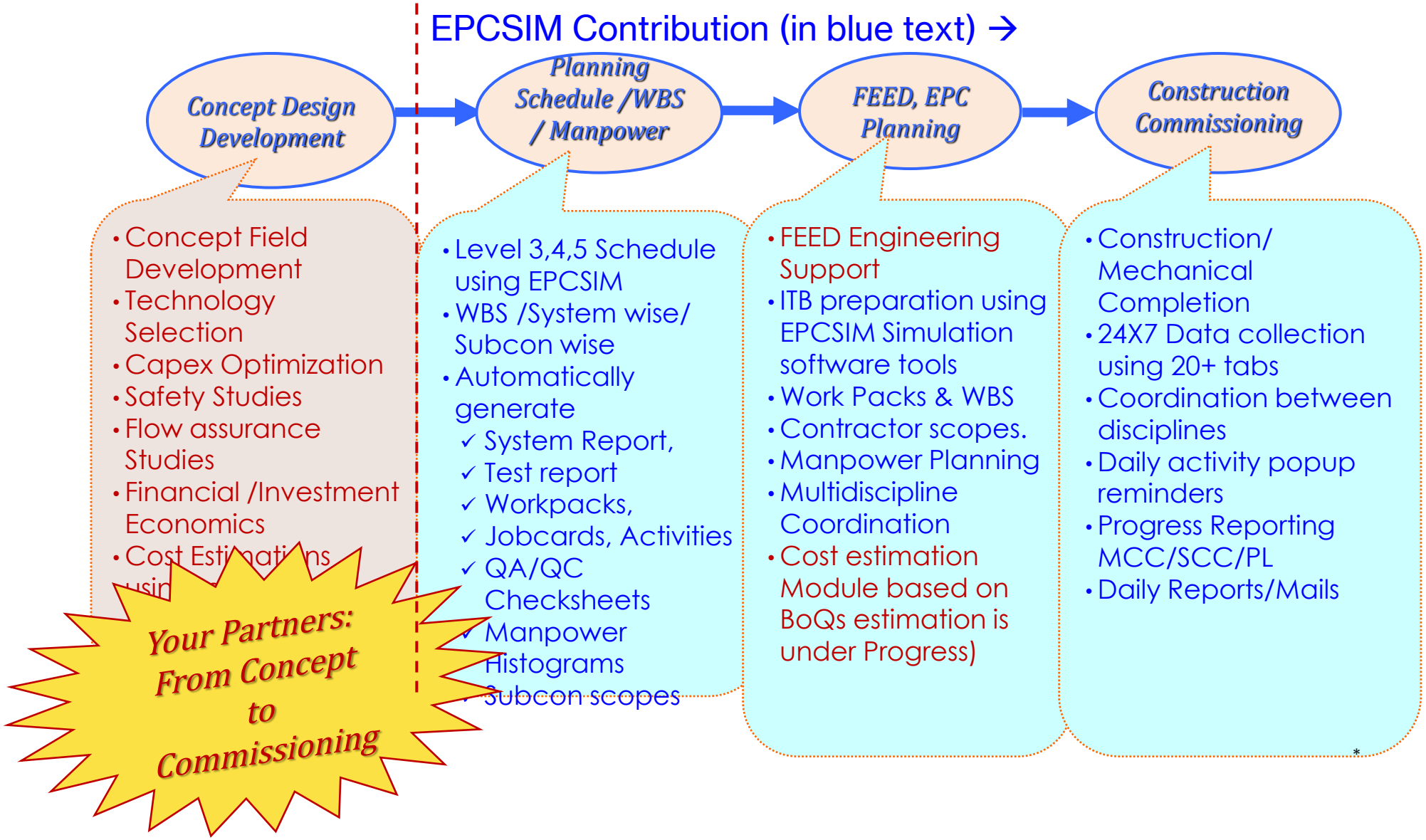




EPCSIM AUTOMATES.....

- ✓ Customized Libraries to maintain EPCC USP
- ✓ Exports Work packs/Job cards/QAQC /Progress Report document in hierarchically foldered structure.
- ✓ QAQC Paperless, but printable
- ✓ Minimize Nuisance delays by level-5/6, multidisciplinary, mulit-subcontract integration.
- ✓ Optimizes Schedule/Calculatedly advise catchup schedule,
- ✓ Develop Construction Cost & schedule estimates
- ✓ Induces High Project Management efficiency, Saves risk of Project delays
- ✓ Saves schedule 10-20%, Costs 5-10%
- ✓ EPCSIM takes 75% of the Brain work of Planners, Contract managers, Construction managers, QAQC Managers and Project managers.

PROJECT MANAGEMENT SERVICES
EPCSIM SIMULATION RENDERS...



PLANNING & MANAGEMENT ISSUES

1. Quantification of works, and breakdowns not easy
2. Subcontract scoping –often poorly covered
3. Quick and accurate tender estimates of Costs, manhours, and schedules not possible.
4. Too much bounded rationality comes along with
    - Thick margins owing to lack of detailed planningOR
    - limited integration between activities
    - Main contractor limit it to Level 2 or 3Schedule' –
    - unplanned delays OR
    - Loss of work efficiencies,
5. Difficult to monitor and control predecessors & successors @ Level 4,5,6
6. Activity wells in isolation – No or Little calculation/ integration at level 4,5,6.
7. Micro level planning is important to integrate an optimized Construction schedule.
8. Inefficiencies and high contingencies risks bids / project award
9. Unable to develop MOC basis for contracts- often a grey area.

CONSTRUCTION ISSUES

Some examples:

- "We cannot install instrument stanchion is missing" – 3 days gone to get stanchion.
- "We cannot weld 30 fittings in spools in just 2 days, need at least 4 days"
- So what if Dia inch is just 24. "We cannot weld 12" fittings,1500# in 2 days. Weld volumes is high and WPS requires more time.
- "We cannot re-instate this test pack in 2 days, There are so many bolted fittings".
- "We cannot install these spools, waiting for main equipment first".
- "Equipment is waiting, but Crane tonnage is not sufficient". Bigger crane is awaited.
- "What about piping in system 120, its ready? Sir, We did not have priority list for Spool fabrication. Sub-Contractor decided sequence at its own.
- "Sir our team is idling at site for clearance to install insulation, else change order for over stay"
- "I cannot clear for insulation, because tracers, pending".
- "Tracers got damaged as during Gross leak a flange leaked and we needed to replace gasket"
- Why tracer installed before gross leak? Sir, we had to meet scheduled target, and it was due. Contractor was going to another site as per schedule.
- .....Thousands of them.....

Together we can...

Change the World

Thank you

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