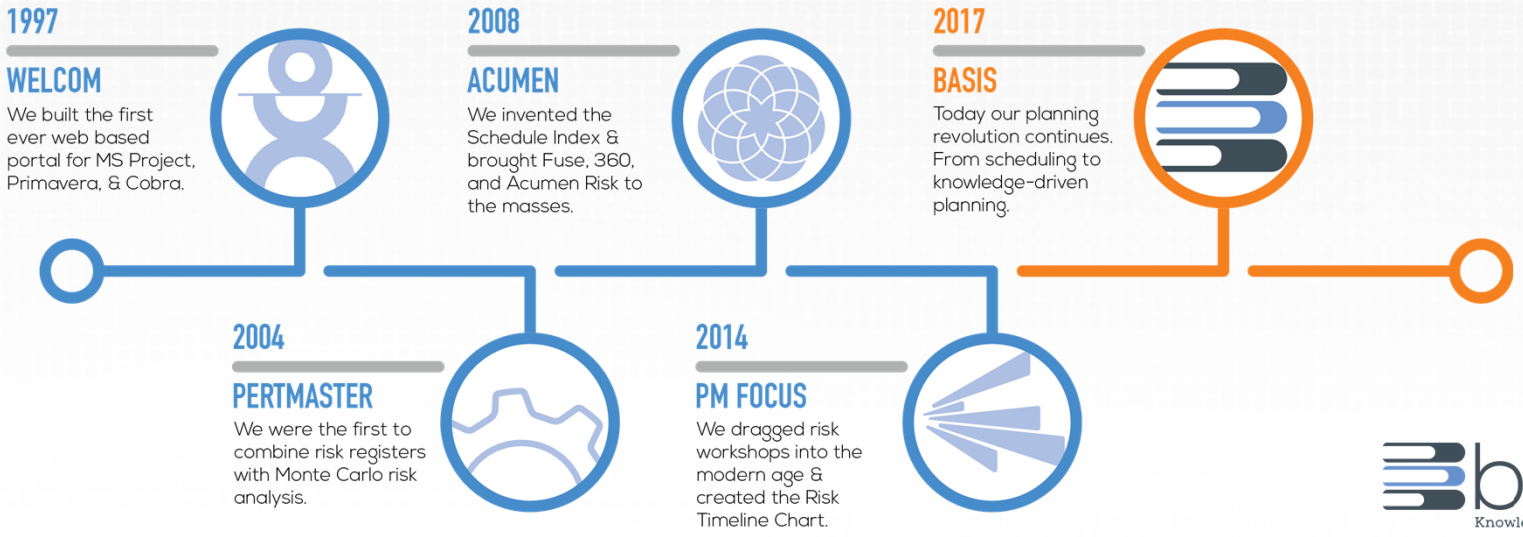
BASIS
Knowledge-Driven Planning

Dr. Dan Patterson

We've Come a Long Way

- Two decades of analytics: bettering project plan integrity
- Evolved CPM through risk-adjusted scheduling & critiquing
- Most major planning organizations globally now use our solutions
- The next step is driving plan realism



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Meet BASIS

AI Planning Assistant

- Knowledge-driven plan creation
- Benchmark-based critique
- Forum for project buy-in

Planning Knowledge Hub

- Schedule/cost/risk consolidation
- Doesn't require commonality
- Enables re-use of expertise

Pre-planning & Planning

Always-on Analytics

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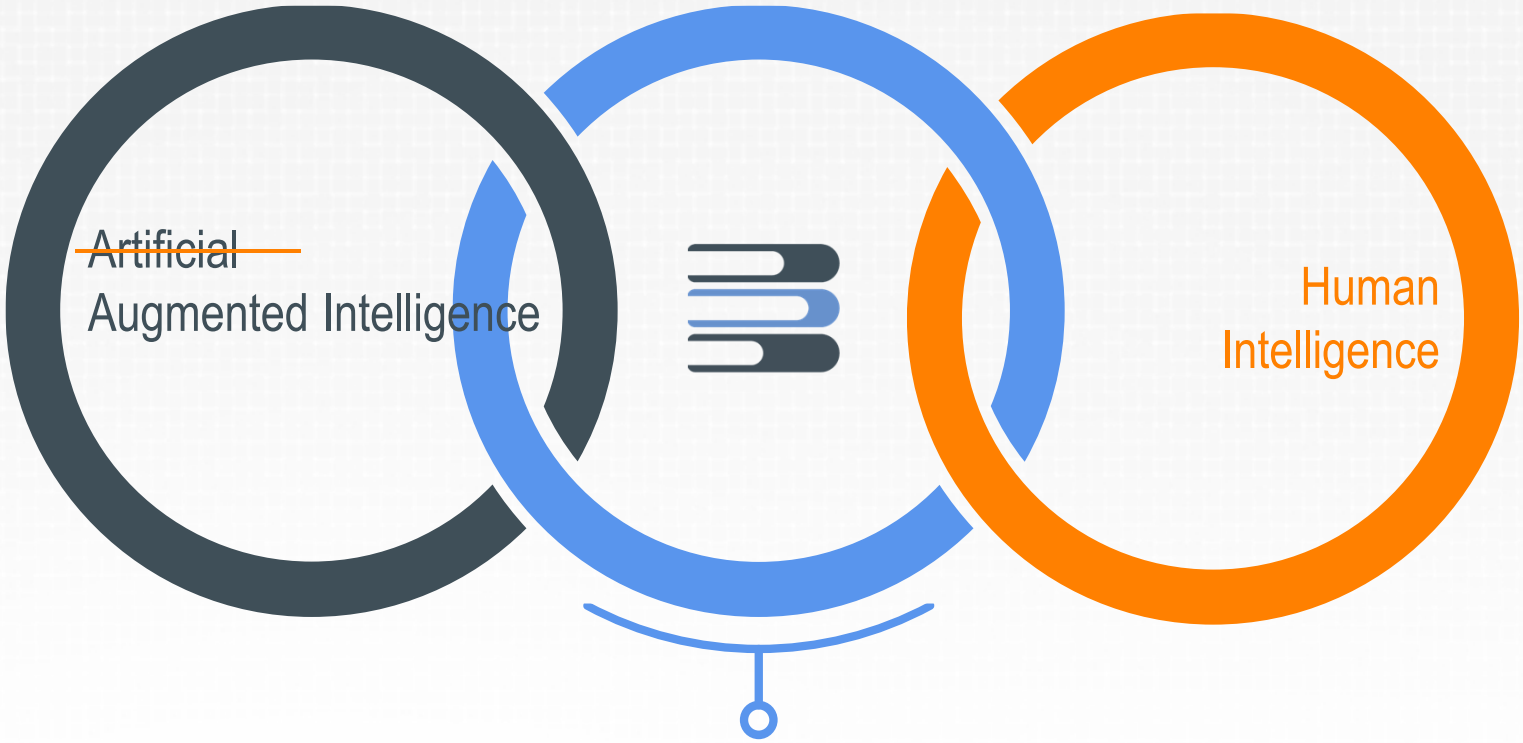
Knowledge-Driven Planning with BASIS

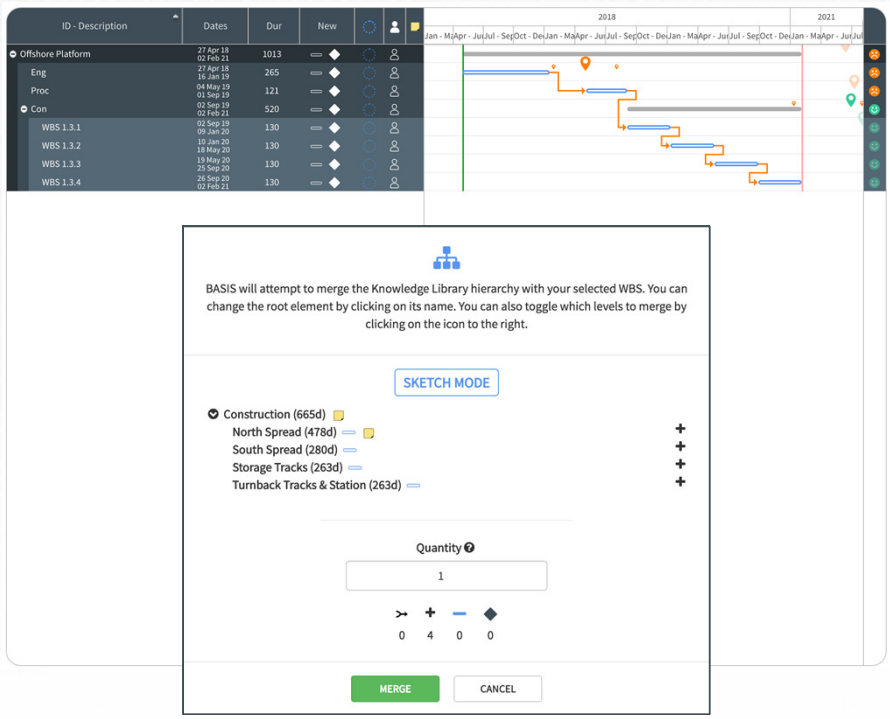


BASIS connects historical experience, standards and team member expertise.
The result: a consensus-based, achievable plan.

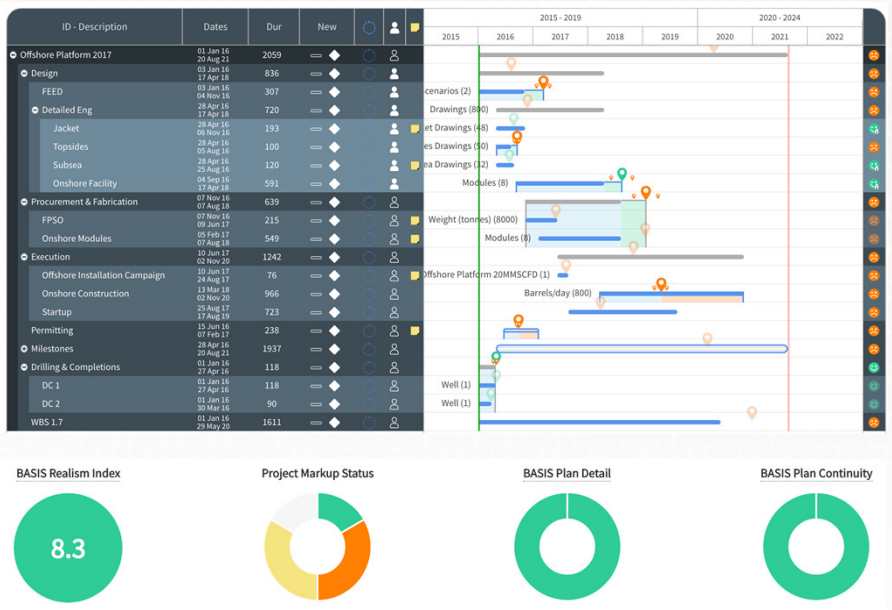
1) Smart Planning

The freedom to create while leveraging the science of CPM

Build from Scratch



Benchmark Existing Plans



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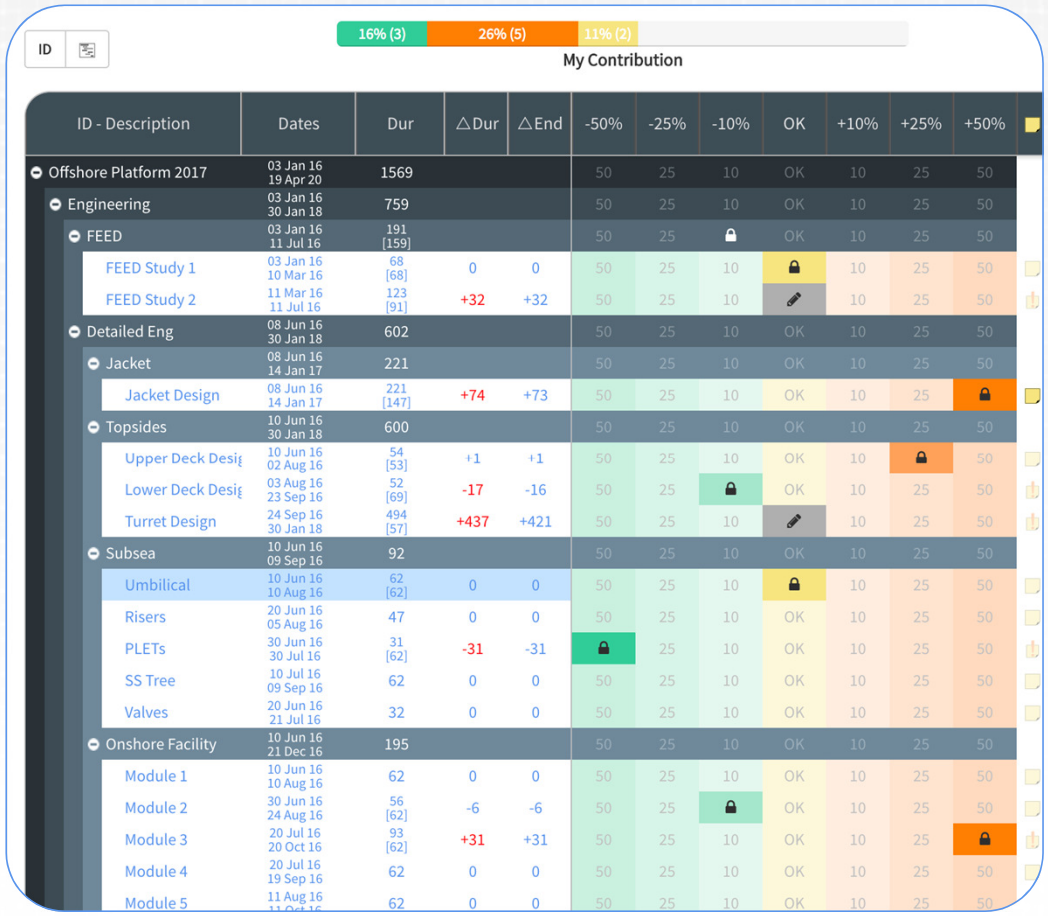
2) Team Member Markup

"It's OK to Push Back"



ID - Description	Dates	Dur	△Dur	△End	-50%	-25%	-10%	OK	+10%	+25%	+50%
Offshore Platform 2017	03 Jan 16 19 Apr 20	1569			50	25	10	OK	10	25	50
Engineering	03 Jan 16 30 Jan 18	759			50	25	10	OK	10	25	50
FEED	03 Jan 16 11 Jul 16	191 [159]			50	25	🔒	OK	10	25	50
FEED Study 1	03 Jan 16 10 Mar 16	68 [68]	0	0	50	25	10	🔒	10	25	50
FEED Study 2	11 Mar 16 11 Jul 16	123 [91]	+32	+32	50	25	10	✎	10	25	50
Detailed Eng	08 Jun 16 30 Jan 18	602			50	25	10	OK	10	25	50
Jacket	08 Jun 16 14 Jan 17	221			50	25	10	OK	10	25	50
Jacket Design	08 Jun 16 14 Jan 17	221 [147]	+74	+73	50	25	10	OK	10	25	🔒
Topsides	10 Jun 16 30 Jan 18	600			50	25	10	OK	10	25	50
Upper Deck Desig	10 Jun 16 02 Aug 16	54 [53]	+1	+1	50	25	10	OK	10	🔒	50
Lower Deck Desig	03 Aug 16 23 Sep 16	52 [69]	-17	-16	50	25	🔒	OK	10	25	50
Turret Design	24 Sep 16 30 Jan 18	494 [57]	+437	+421	50	25	10	✎	10	25	50
Subsea	10 Jun 16 09 Sep 16	92			50	25	10	OK	10	25	50
Umbilical	10 Jun 16 10 Aug 16	62 [62]	0	0	50	25	10	🔒	10	25	50
Risers	20 Jun 16 05 Aug 16	47	0	0	50	25	10	OK	10	25	50
PLETs	30 Jun 16 30 Jul 16	31 [62]	-31	-31	🔒	25	10	OK	10	25	50
SS Tree	10 Jul 16 09 Sep 16	62	0	0	50	25	10	OK	10	25	50
Valves	20 Jun 16 21 Jul 16	32	0	0	50	25	10	OK	10	25	50
Onshore Facility	10 Jun 16 21 Dec 16	195			50	25	10	OK	10	25	50
Module 1	10 Jun 16 10 Aug 16	62	0	0	50	25	10	OK	10	25	50
Module 2	30 Jun 16 24 Aug 16	56 [62]	-6	-6	50	25	🔒	OK	10	25	50
Module 3	20 Jul 16 20 Oct 16	93 [62]	+31	+31	50	25	10	OK	10	25	🔒
Module 4	20 Jul 16 19 Sep 16	62	0	0	50	25	10	OK	10	25	50
Module 5	11 Aug 16	62	0	0	50	25	10	OK	10	25	50

Basic Markup

- Simple Scorecard
- Request plan modifications

Advanced Markup

- True delegated planning
- Make plan modifications

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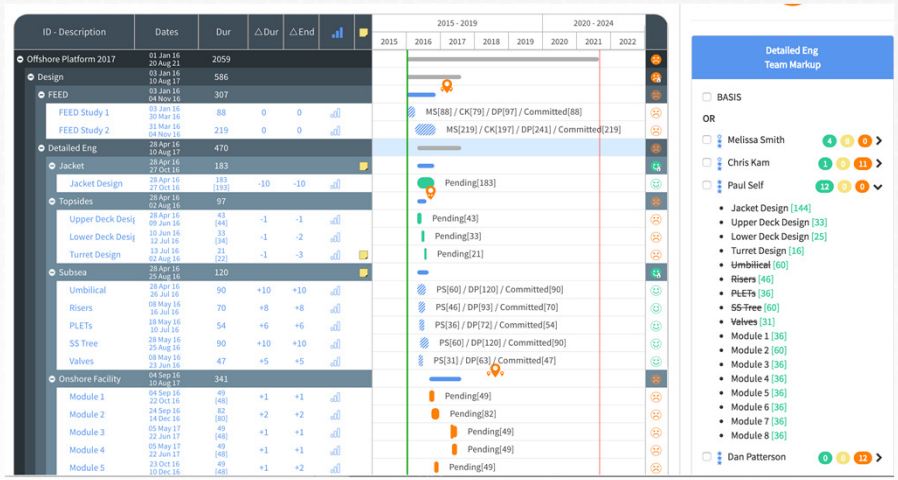
3) Review

"Let's Agree to Disagree"

Interactive Planning Workshop

- One view, multiple contributors
- Consensus gets applied to plan
- Insight into buy-in
- Analysis of difference of opinion
- Team member voice tracked

Simple Interface



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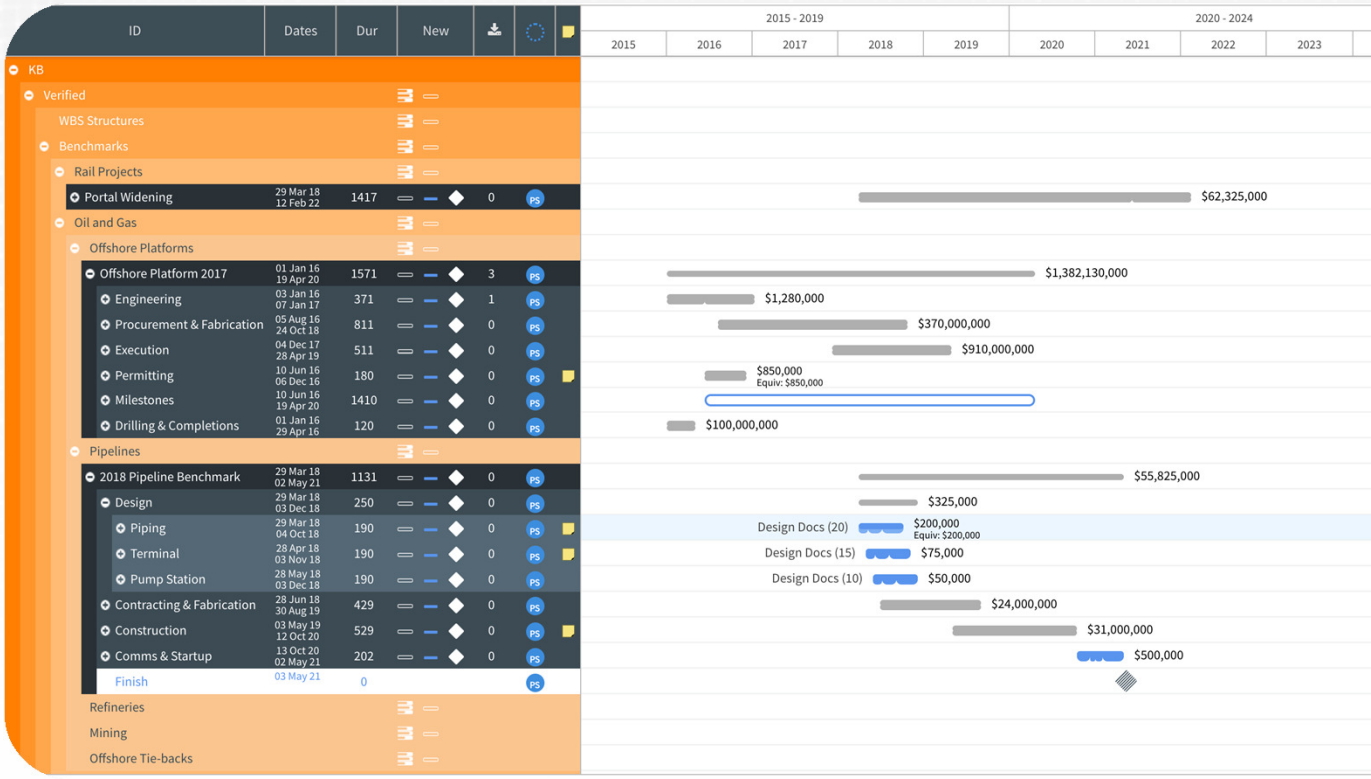
The BASIS Knowledge Library

- Knowledge hub
  - Central, secure
- Multi-dimensional
  - Cost, schedule, risk
- Knowledge Tags
  - Levelness descriptors
  - Drives context awareness
- Learn & teach
  - Keeps getting smarter
- 'Big data' not required
  - Start small



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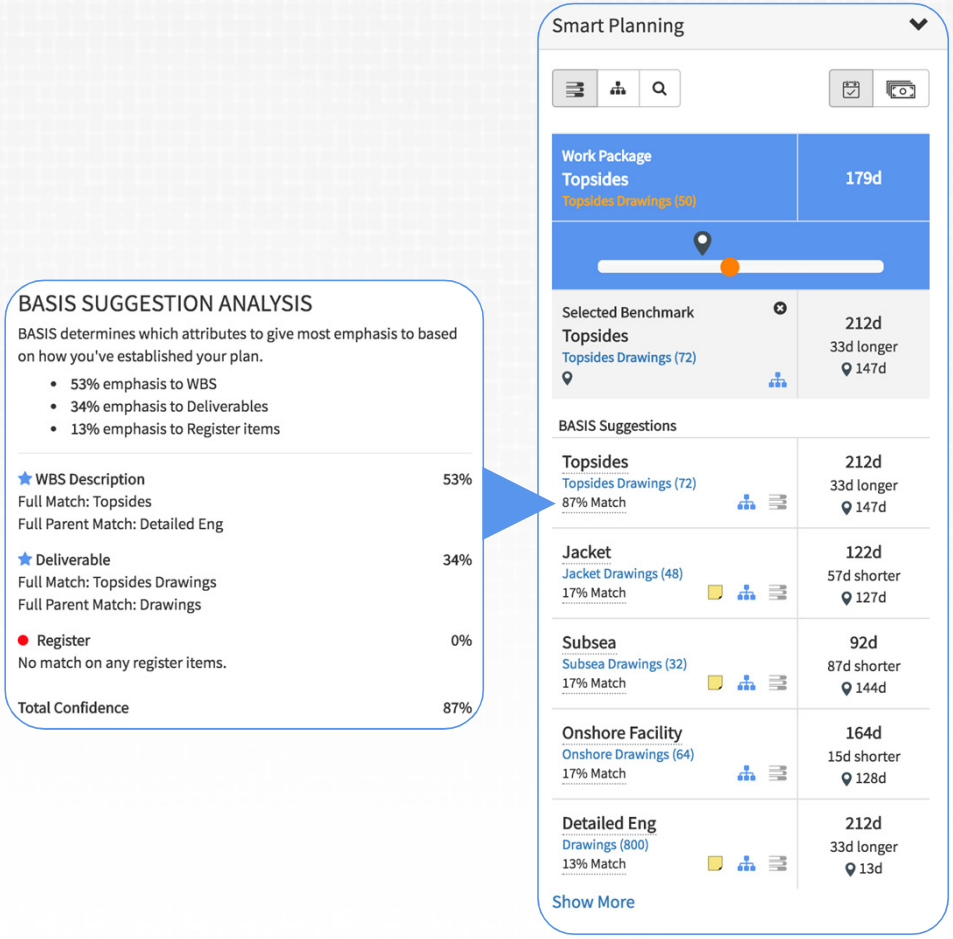
Always-on Suggestions

- AI Inference Engine
- Multi-dimensional awareness
  - WBS, unit, deliverable
  - Parent, risks
  - Knowledge Tags
    - Location
    - Contractor
    - Type of project
- Returns multiple suggestions
- Provides confidence score



Demonstration

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The Original Objective: Establish a Realistic Plan

Calibration: Artificial Intelligence (A.I.)

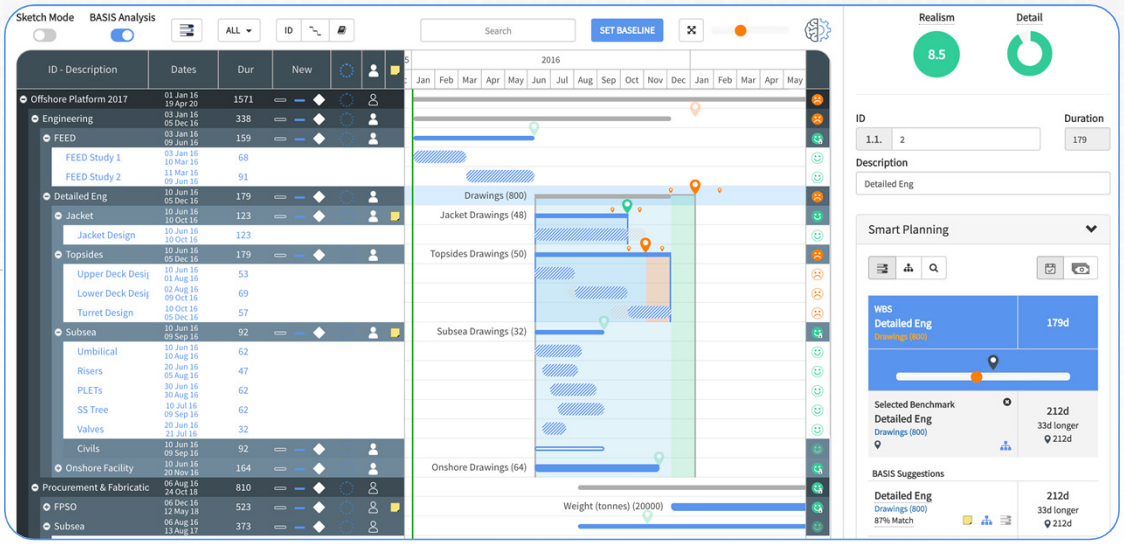
Validation: Human Intelligence (H.I.)

A.I.

Benchmarking & suggestions

H.I.

Team markup & review



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