Predictability Unicorn

Presented by Jerret Batson

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

PMP

Scrum Alliance CSM CERTIFIED

Scrum Alliance CSPO CERTIFIED

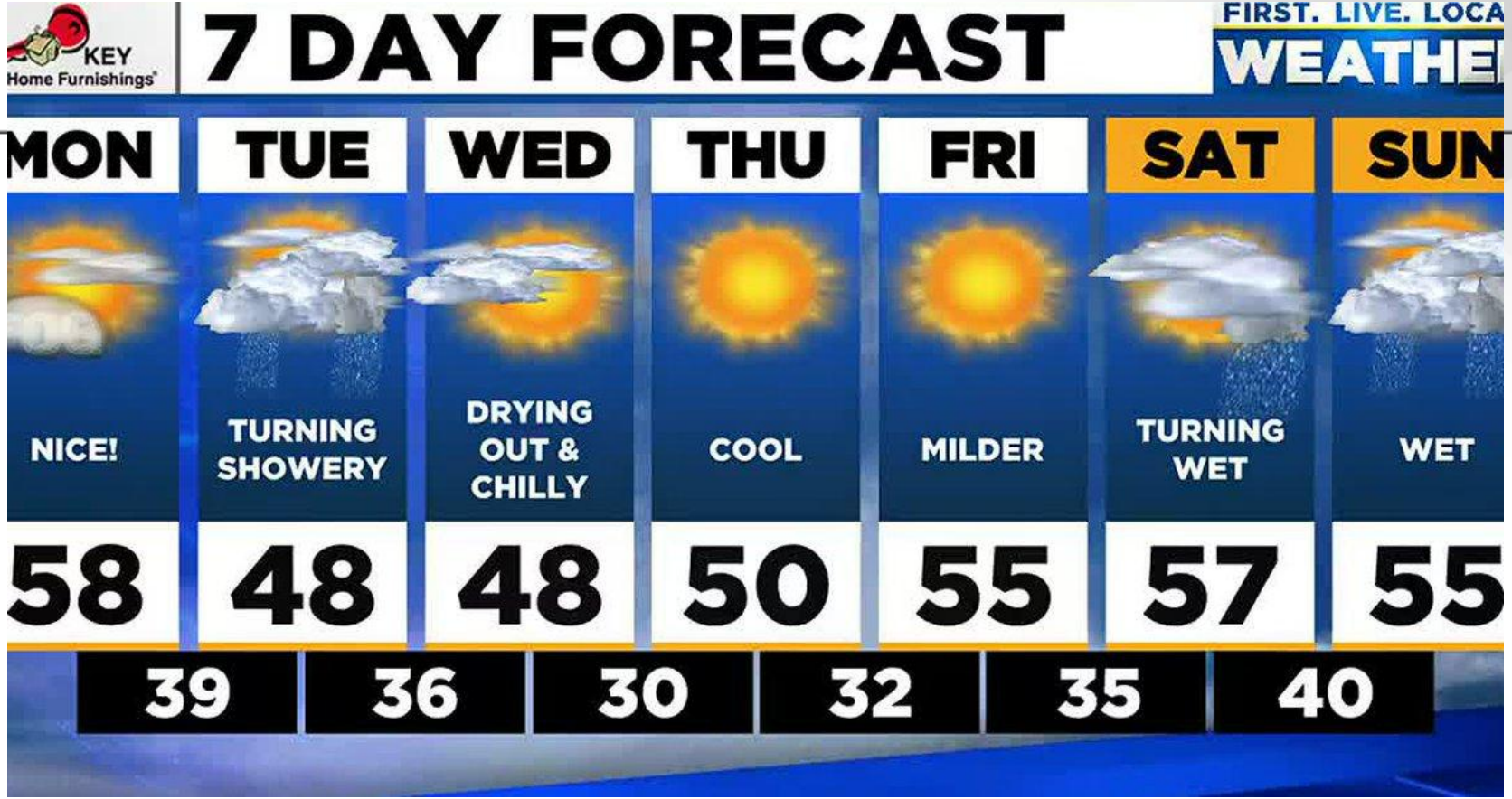
ICAgile ICP-ACC CERTIFIED PROFESSIONAL

Scrum Alliance CAL-O CERTIFIED

Scrum Alliance CAL-E CERTIFIED

Scrum Alliance CAL-T CERTIFIED

JERRET BATSON


KEY
Home Furnishings
7 DAY FORECAST
FIRST. LIVE. LOCA
WEATHE
MON
TUE
WED
THU
FRI
SAT
SUN
NICE!
TURNING SHOWERY
DRYING OUT & CHILLY
COOL
MILDER
TURNING WET
WET
58
48
48
50
55
57
55
39
36
30
32
35
40

It's just a cup of coffee

How long will it take you to go to the 1st floor Starbucks, get a cup of coffee & return to this session?

single whole number

It’s just a cup of coffee

On piece of paper answer

How long will it take you to go to 222, get a cup of coffee and return to office?

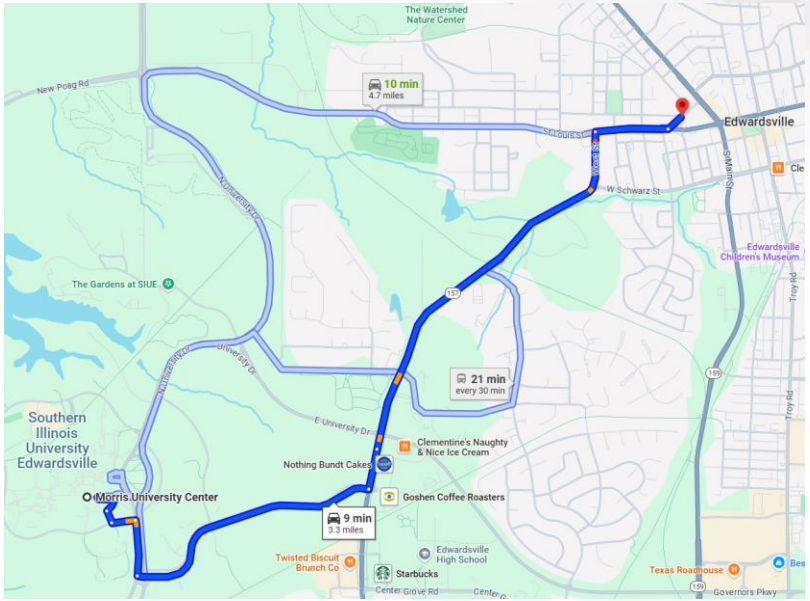
Write as single whole number

It’s just a cup of coffee

On piece of paper answer

How long will it take you to go to 222, get a cup of coffee and return to office?

Write as single whole number



Road trip (no flying)

Predictability

consistent repetition of a state, course of action, behavior, or the like, making it possible to know in advance what to expect

Probability

the extent to which an event is likely to occur,

- measured by the ratio of the favorable cases to the whole number of cases possible

Historical Data Points

14	19	10	18	20	19
18	9	23	13	19	20
12	19	18	22	13	18
20	18	13	16	11	11
10	12	23	25	28	21
16	19	15	20	14	18

Predict how long will my next coffee trip take?

Let me help you

17 Min is the average

18 Min Appears most often

18 Min is the mid point of all data

Results Are Probabilistic

Time	Likelihood
10 min or less	8.3%
15 min or less	36.1%
16 min or less	41.6%
20 min or less	83.3%
25 min or less	97.2%
28 min or less	99%

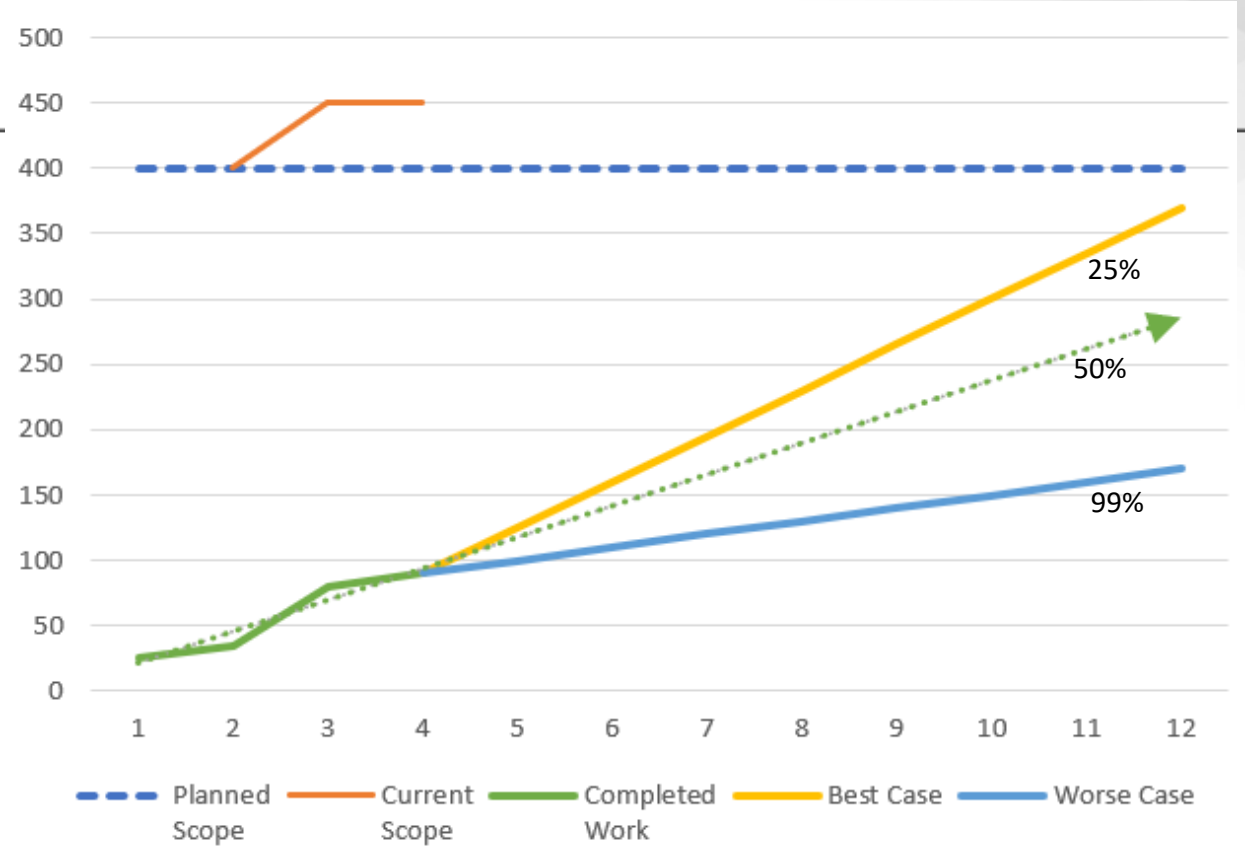
Which was the most valuable trip?

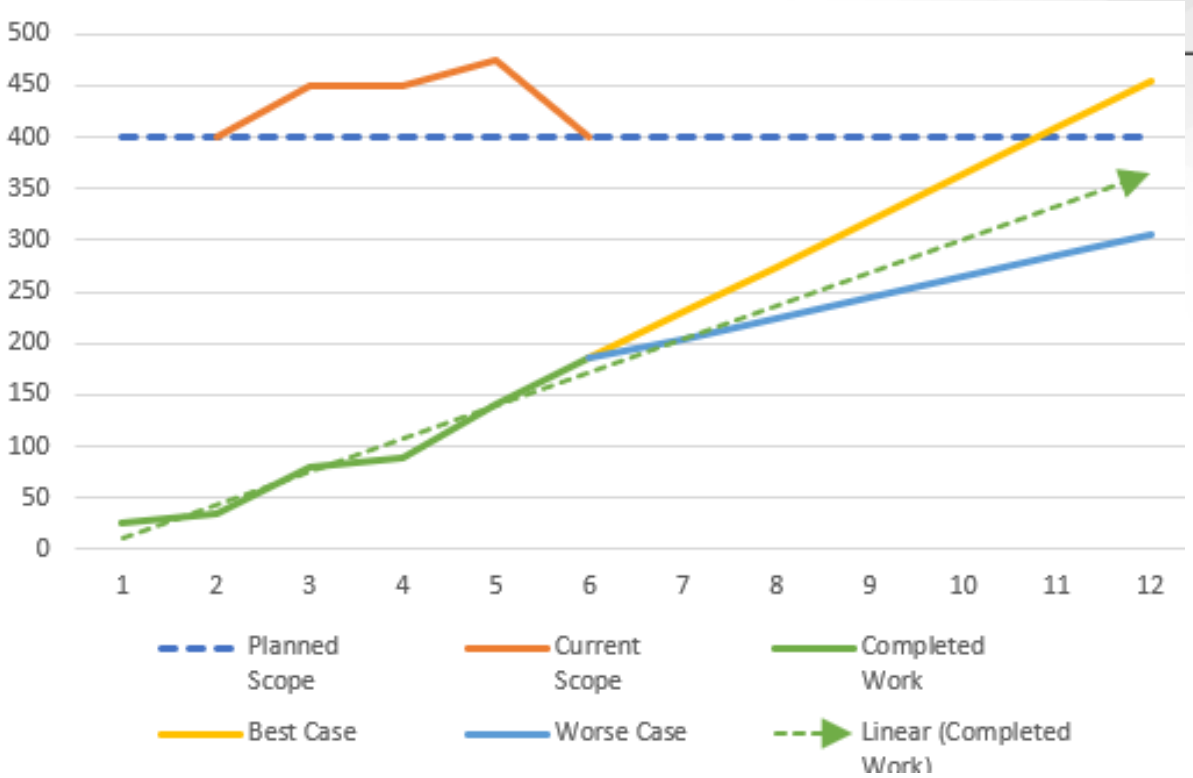
14	19	10	18	20	19
18	9	23	13	19	20
12	19	18	22	13	18
20	18	13	16	11	11
10	12	23	25	28	21
16	19	15	20	14	18

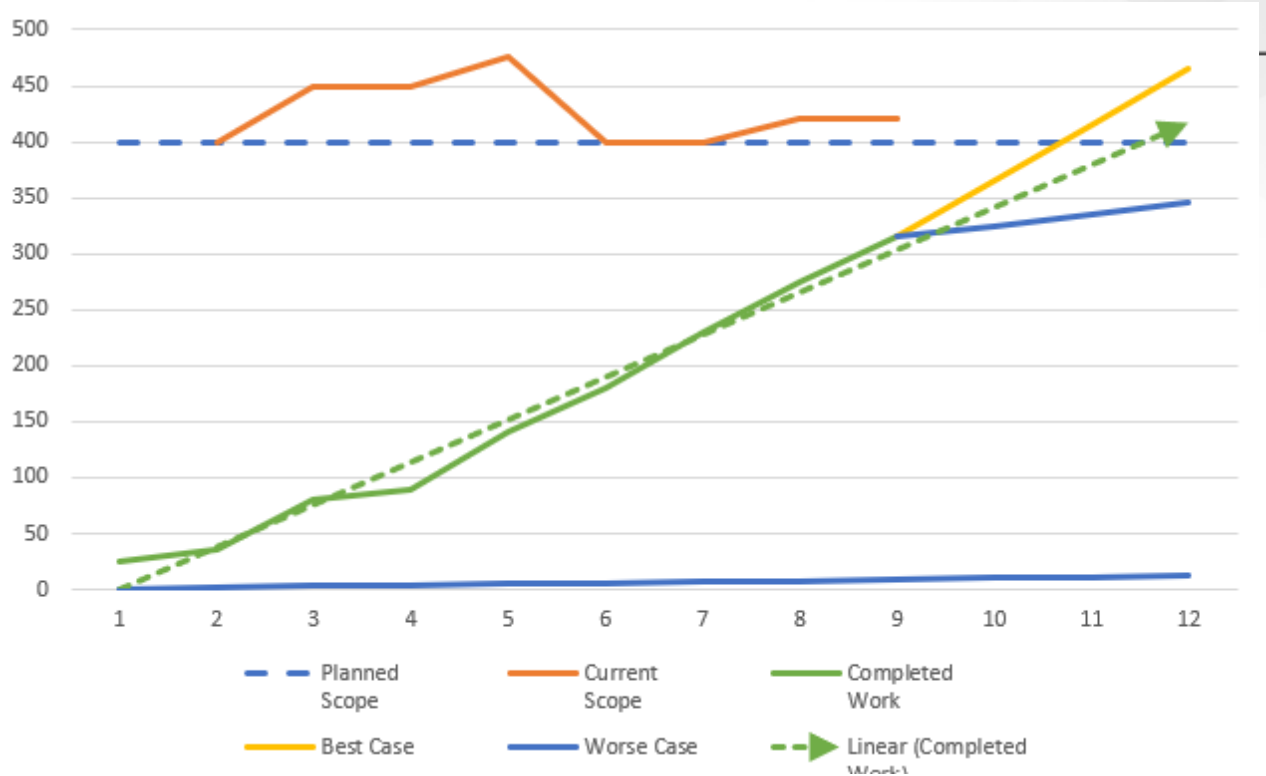
It matters because

Most of our partners want to know

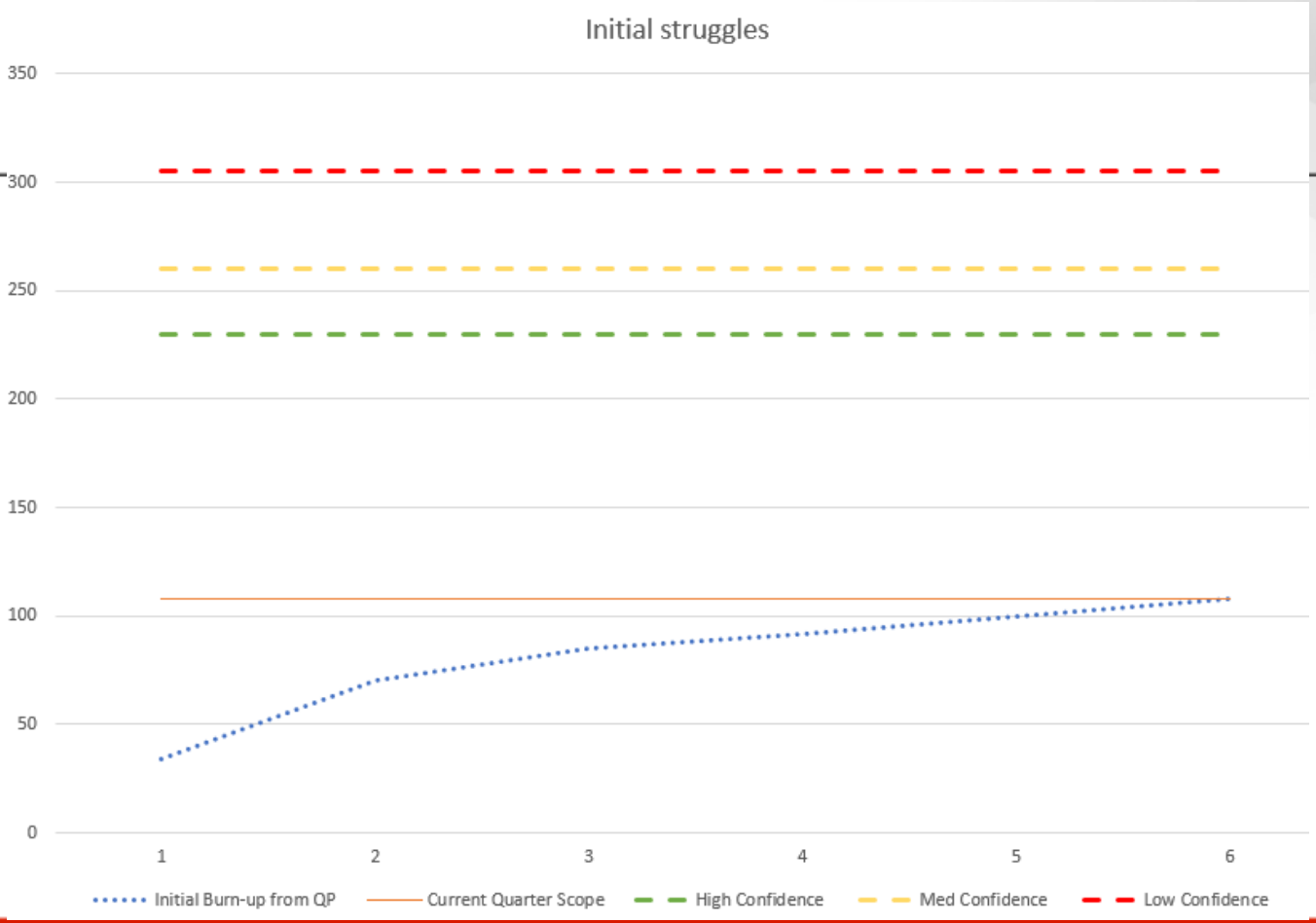
- What will be done
- By what date
- How much it will cost

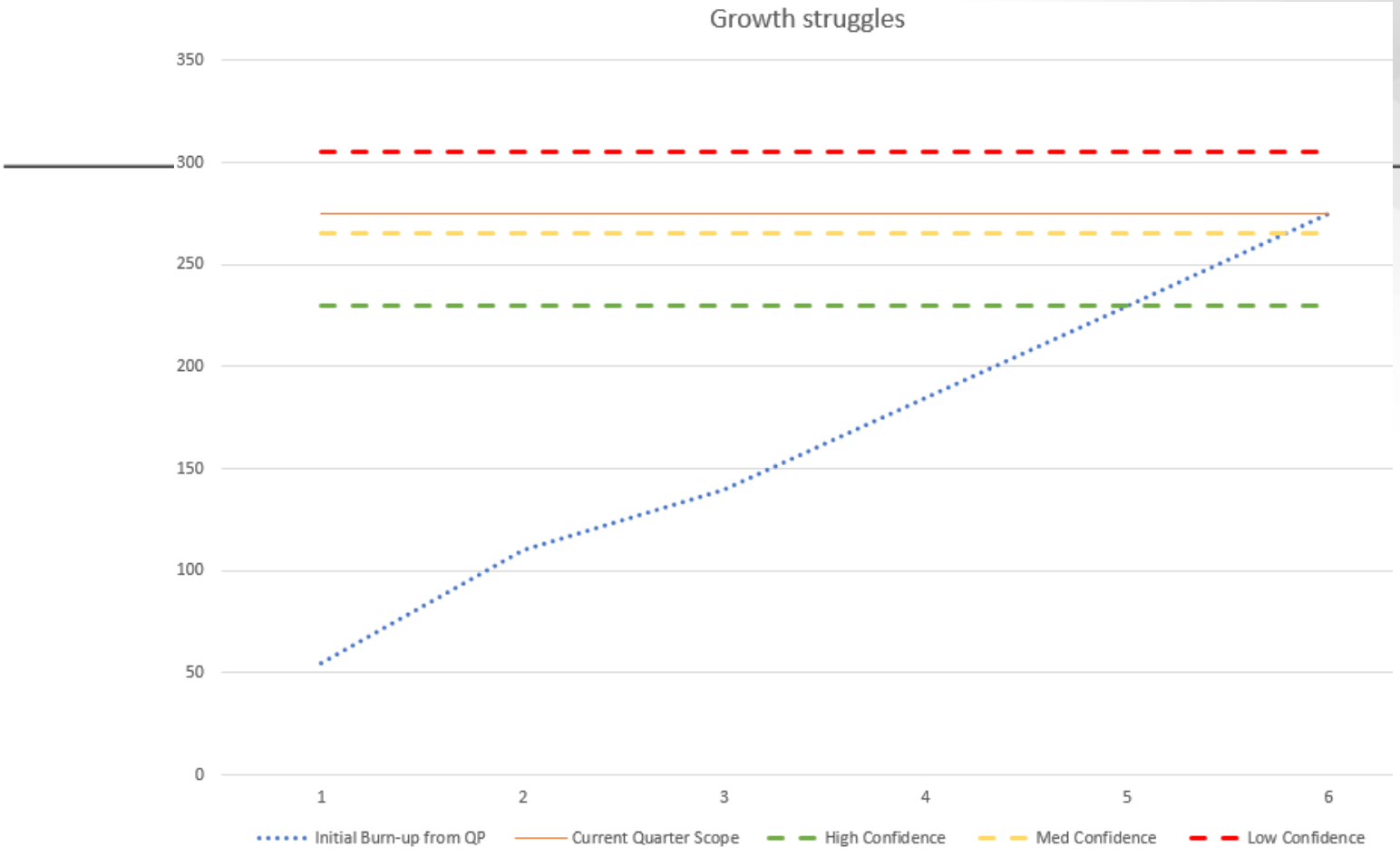

500
450
400
350
300
250
200
150
100
50
0
1
2
3
4
5
6
7
8
9
10
11
12
25%
50%
99%
Planned Scope
Current Scope
Completed Work
Best Case
Worse Case

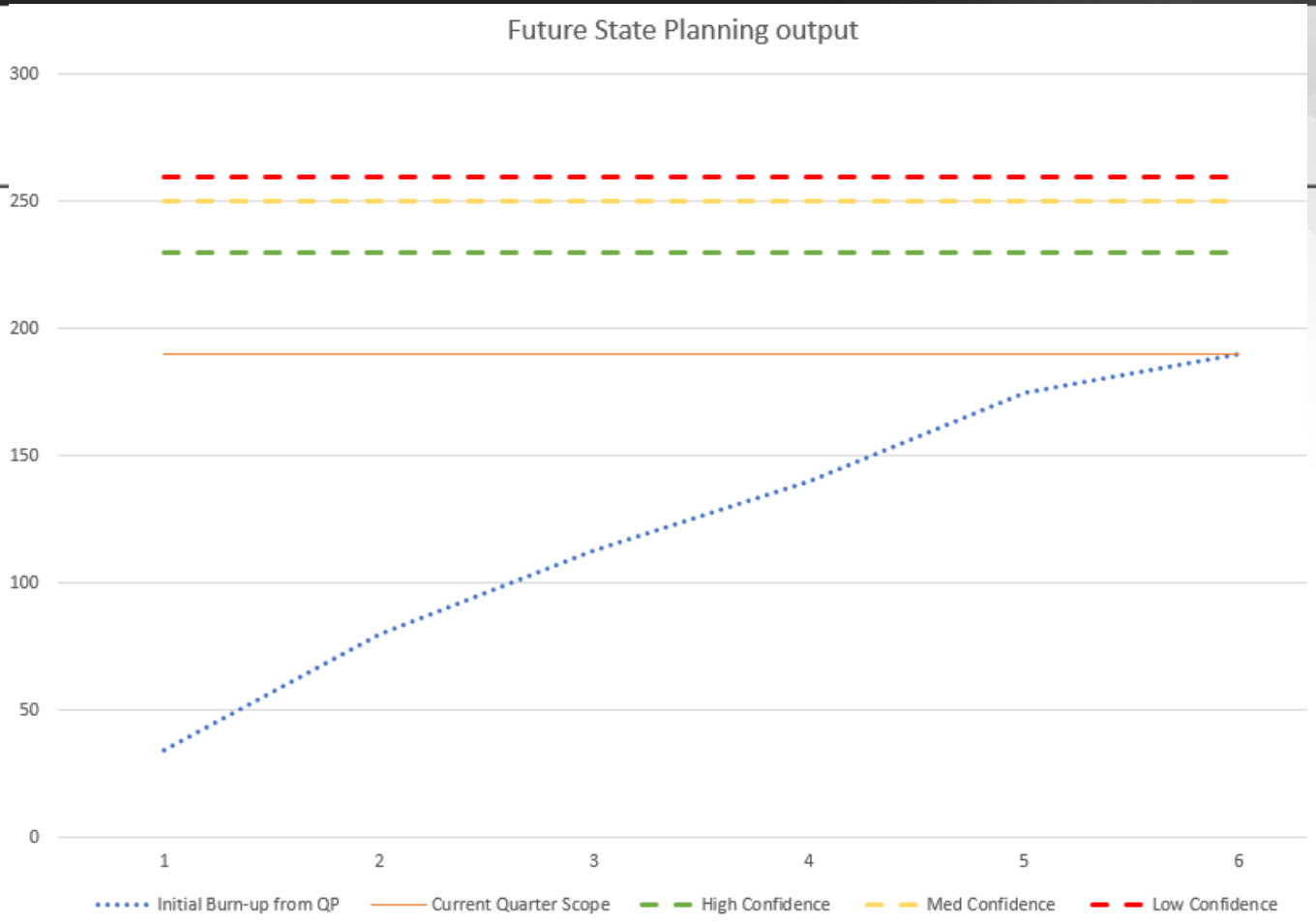

500
450
400
350
300
250
200
150
100
50
0
1
2
3
4
5
6
7
8
9
10
11
12
Planned Scope
Current Scope
Completed Work
Best Case
Worse Case
Linear (Completed Work)


500
450
400
350
300
250
200
150
100
50
0
1
2
3
4
5
6
7
8
9
10
11
12
Planned Scope
Current Scope
Completed Work
Best Case
Worse Case
Linear (Completed

Growth


Initial struggles
350
300
250
200
150
100
50
0
1
2
3
4
5
6
Initial Burn-up from QP
Current Quarter Scope
High Confidence
Med Confidence
Low Confidence


Growth struggles
350
300
250
200
150
100
50
0
1
2
3
4
5
6
Initial Burn-up from QP
Current Quarter Scope
High Confidence
Med Confidence
Low Confidence


Future State Planning output
300
250
200
150
100
50
0
1
2
3
4
5
6
Initial Burn-up from QP
Current Quarter Scope
High Confidence
Med Confidence
Low Confidence

Team Inspection

Pts/Effort								
1								
1								
1								
1								
1								
1								
1								
2								
2								
2								
2								
2								
2								
3								
3								
3								
3								
3								
5								
5								
5								
5								
5								

Pts/Effort	Less than a day	1 to 2	3 to 5	6 to 11	12 to 20
1		x			
1	x				
1		x			
1	x				
1	x				
1	x				
1	x				
2		x			
2		x			
2			x		
2	x				
2		x			
2				x	
2		x			
2		x			
2			x		
2		x			
2		x			
3		x			
3			x		
3		x			
3			x		
3			x		
3		x			
3		x			
3		x			
3		x			
5				x	
5				x	
5				x	
5				x	
5			x		
5				x	
5				x	
5					x
5				x	

Trouble discerning from a 2 and 3

What could we do about this?


Interrupted

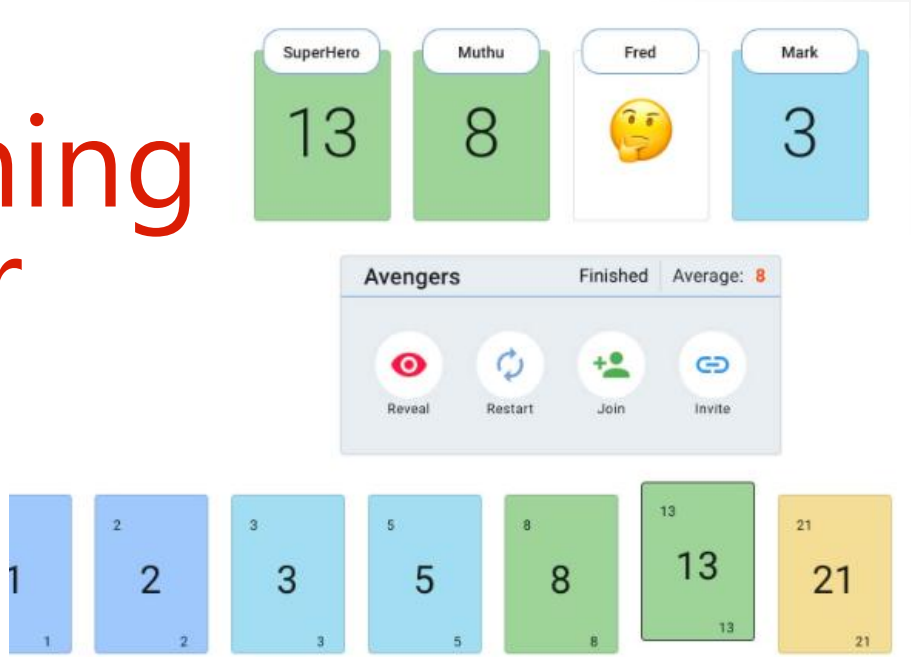
Common Approaches

Most important thing is team alignment

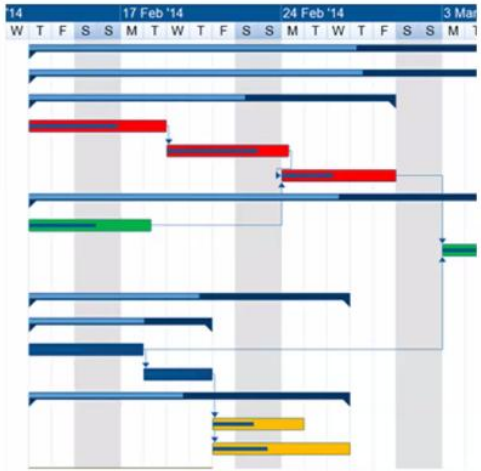
Points are not days

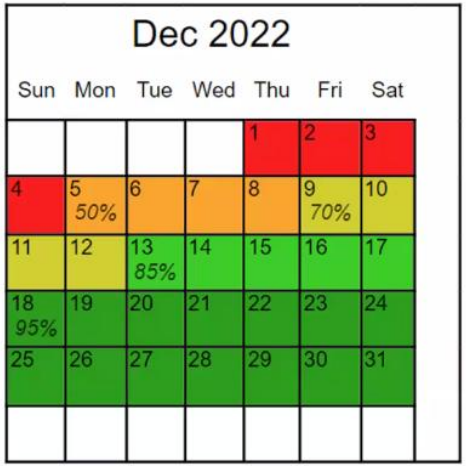
Amount of effort required	Complexity	Task risk or uncertainty	Dependencies	Team Knowledge	Points
Minimum effort	Little complexity	None	Next to none	Everyone can do	1
Minimum effort	Little/Low complexity	None/Low	None to Little	Most can do	2
Mild effort	Low complexity	Low/moderate	Little to Med	A few can do	3
Moderate effort	Low/Medium complexity	Moderate	Med	Only 1-2 can do	5
Severe effort	Medium complexity	Moderate/High	A lot	Only 1 can do	8
Maximum effort	High complexity	High	Unknown	? Action to take	13+

Planning Poker



Planning & Estimates → **Probabilistic Forecasting**





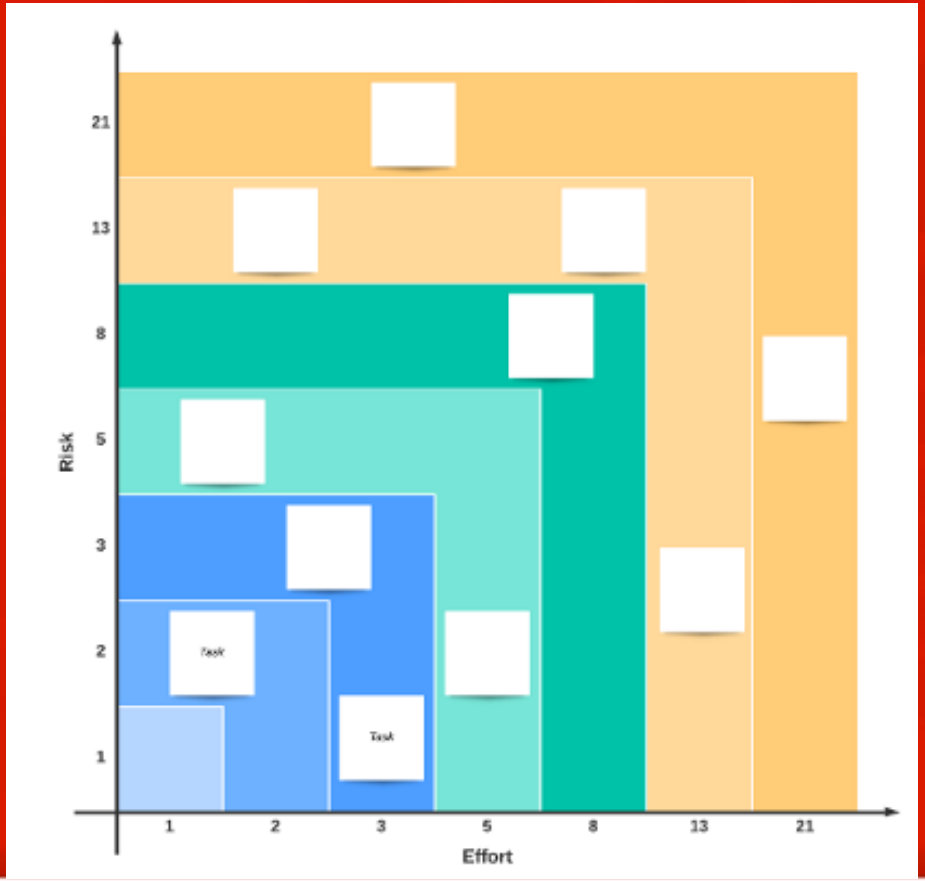
It's better to be approximately right, than exactly wrong

Carveth Read

Kanban

No Points, but with a catch

- every story ~ same size
- Requires more planning and conversations to break out the work



Effort/Risk alignment

Affinity Mapping/Relative Sizing