Show me the money!

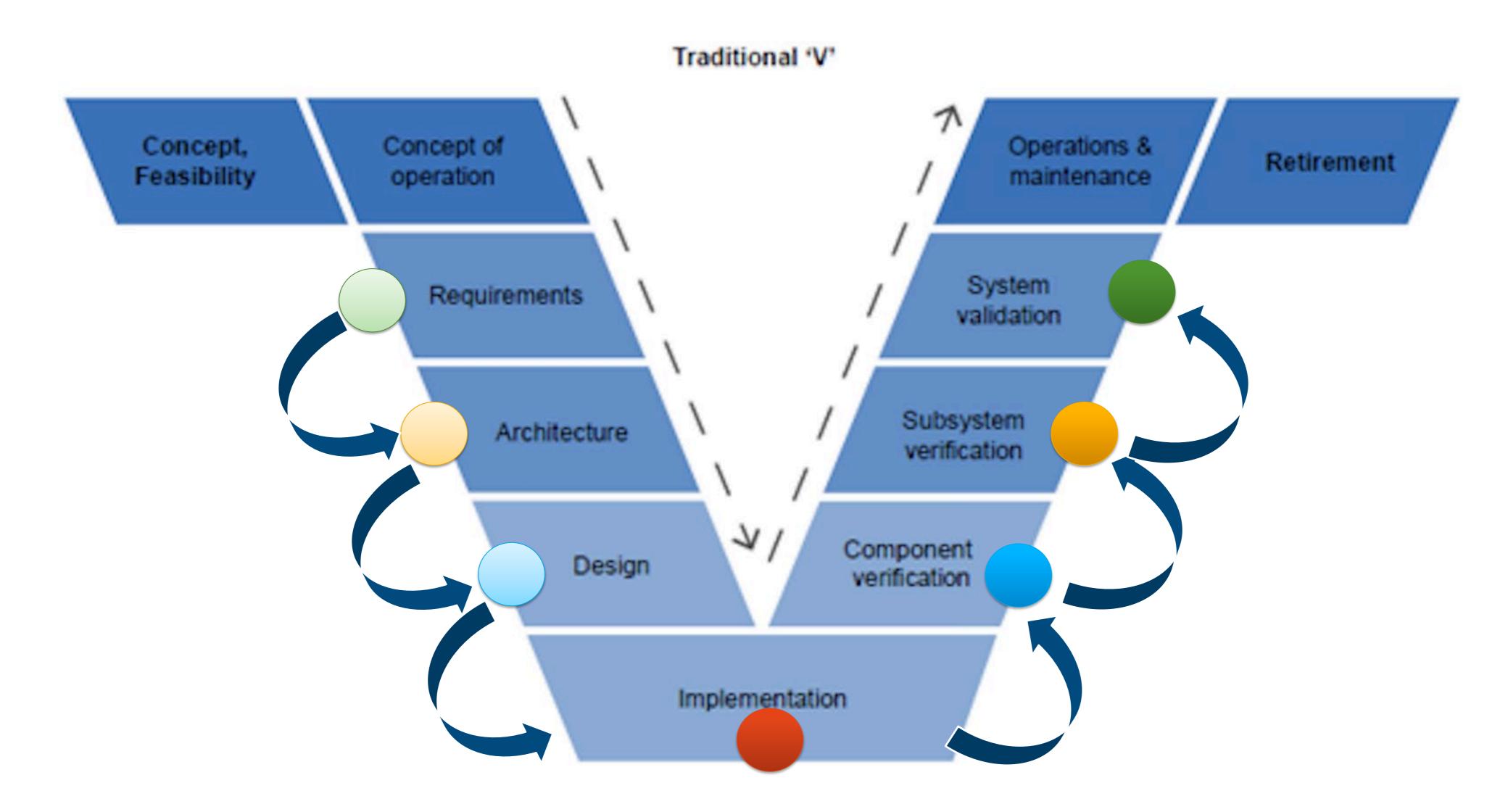
Streamline the Flow of Value

Reduce the Risk of Late Integration Breakage

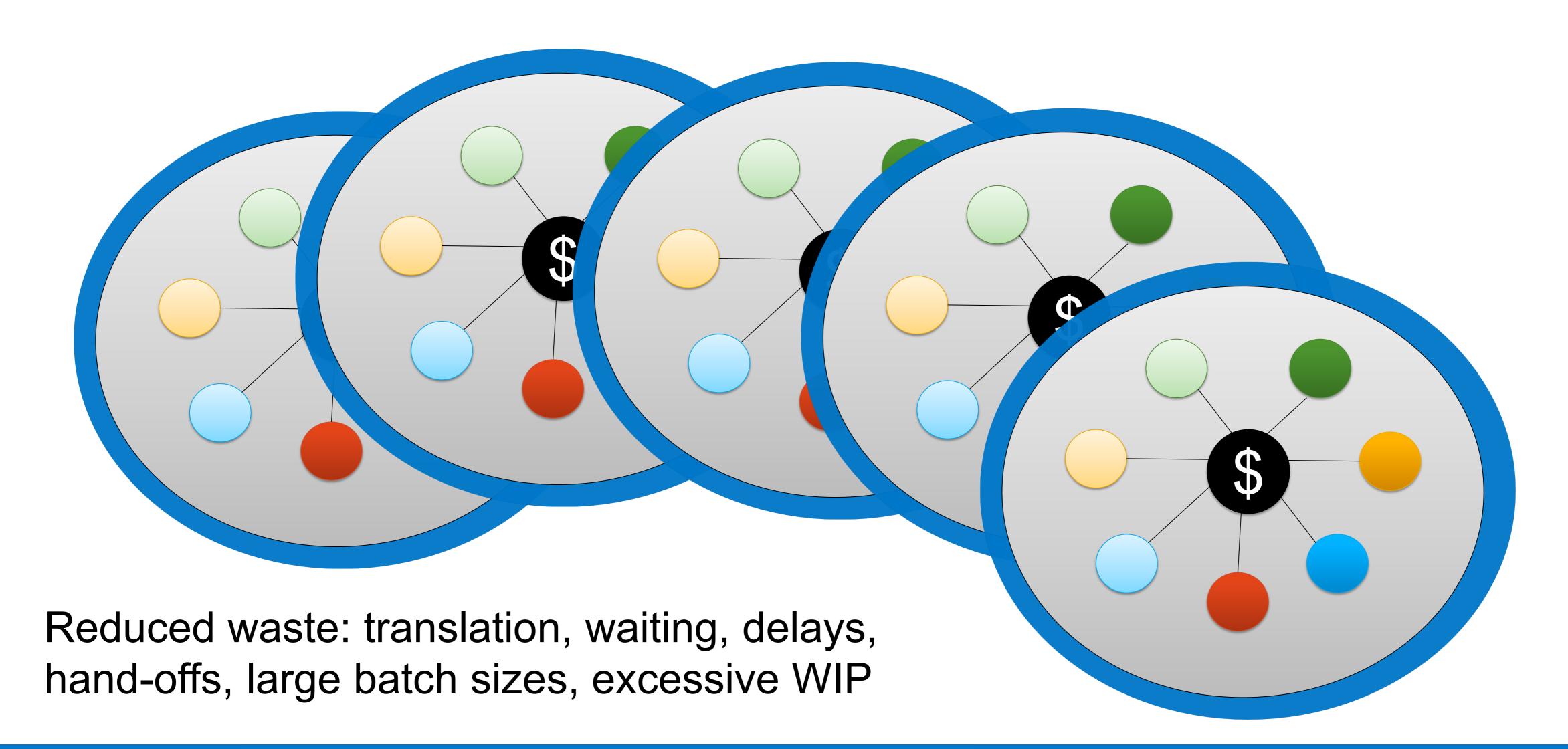
Controlling Work in Process

Scenario 1 Streamline the Flow of Value

What Inhibits Value?



What Accelerates Value?

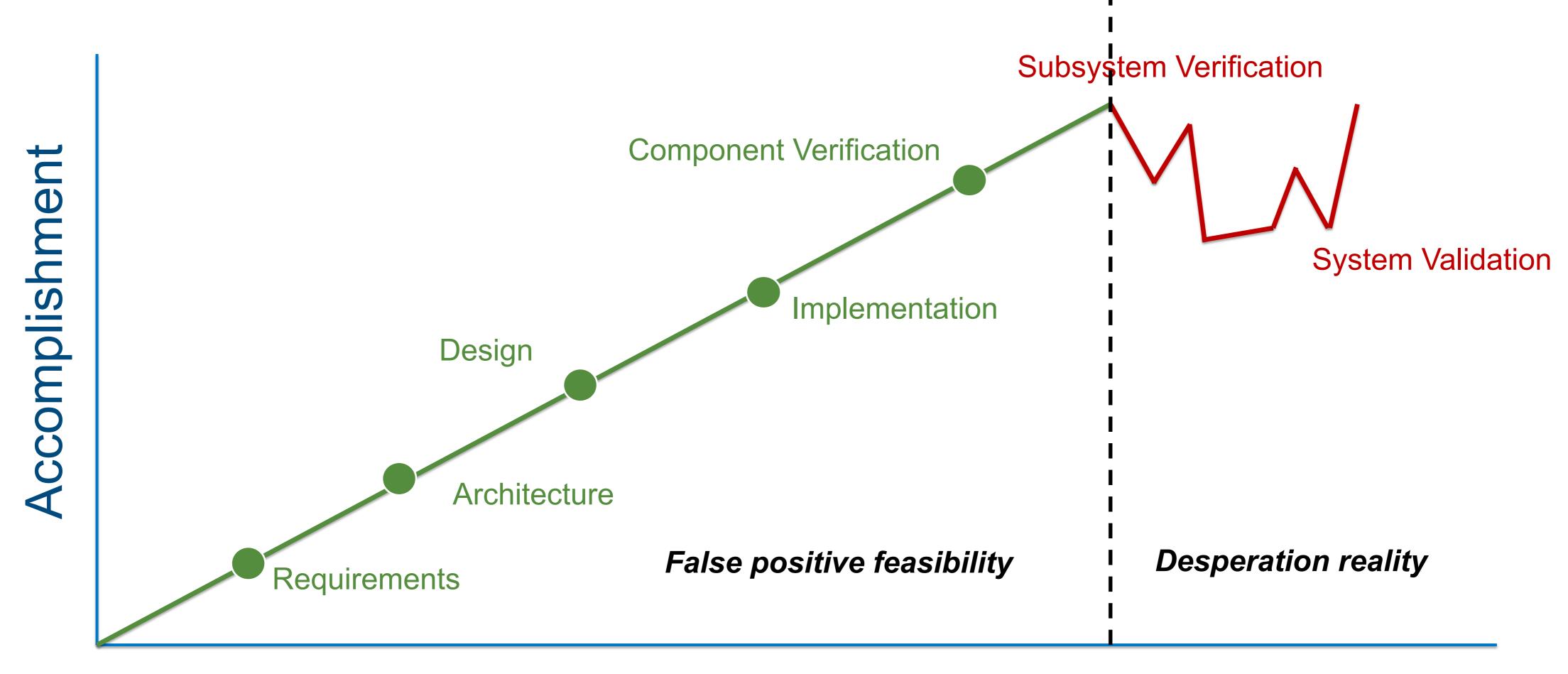


Comparison of Effort – 35% Savings

S	# Stakeholders	20								
F	# Features	10								
TCR	Time to Capture Requirements per Feature	8								
TCA	Time to Capture Architecture per Feature	8		00	1, ,,		100 -			
TCD	Time to Capture Design per Feature	16	J	30-week project, 100 people						
TTI	Time to Implement per Feature	24		= savings \$67,000.						
TTCT	Time to capture and execute component test per Feature	8								
TTPF	Total time per feature	64		Annual savings = \$116,000.						
RT	Review time as percentage of Capture time	0.1								
CMP	Change Management Process per Feature									
RFL	Effort Reduction from learning each iteration	0.1								
						Iterative De	Iterative Development			
	V-model Effort to get to Testing is			Iteratio	n	Effort	Review	Total		
Rqts	(F*TCR) + (F*TCR*S*RT)	240			1	64.00	128.00	192.00		
Arch	(F*TCA) + (F*TCA*S*RT)	240			2	57.60	115.20	172.80		
Design	(F*TCD) + (F*TCD*S*RT)	480			3	51.84	103.68	155.52		
Impl	(F*TTI) + (F*TTI*S*RT)	720			4	46.66	93.31	139.97		
Comp Test	(F*TTCT) + (F*TTCT*S*RT)	240			5	41.99	83.98	125.97		
	TOTAL HOURS	1920			6	37.79	75.58	113.37		
					7	34.01	68.02	102.04		
	all time is in hours				8	30.61	61.22	91.83		
					9.00	27.55	55.10	82.65		
					10.00	24.79	49.59	74.38		
				TOTA	L Hrs	416.85	833.69	1250.54		

Scenario 2 Reduce Late Integration Breakage

Late Integration Breakage (LIB)



Time

SAFe® Practices Reduce LIB Cost

variable	Basic parameters			
TART	Number of Teams			
ASPI	Avg number of stories per team in PI			
PSP	% of stories with dependency			
ACPH	Avg per hour cost per person			
PCE	% Dependencies with cascading effect			
	Manage dependency in PIP			
IPIP	Avg time in minutes to manage dep in PIP, per team	10		
	Managing dependency outside of PIP			
MOPIP	Schedule a meeting, reserve room, coordinate times, in minutes	30		
OPIP	Attend meeting, time per team, in minutes			
CST	Context-switching time for attending a meeting, in minutes			
	COST SAVINGS - managing dependencies in PI Planning			
	Time in PIP in hours for ART=TART*ASPI*PSP*IPIP*2(teams per			
	dep)/60(min in hour)	33.33		
	Time outside PIP in hours for			
	ART=(TART*ASPI*PSP)(MOPIP+OPIP*2(teams per			
	dep))/60(min per hour)	150		
	Time outside PI with context-switching time added	212.50		
	Difference, in hours	179.17		
	With cascading effect	268.75		
	Higher cost of managing dependencies outside of PI Planning	\$26,875		

One ART (100 people) savings per quarter = \$56,875

Annual savings = \$227,500.

COST SAVINGS - catching a dependency early						
Savings per dependency = defect discovery cost + triage cost +						
blamestorming cost + rework						
2	Defect discovery cost in hours					
4	Defect triage cost in hours					
4	Blamestorming cost in hours					
20	Rework cost in hours					
30	Total hours					
\$3,000	Total cost per late-integration defect caused by missed dependency					
10	Number of Deps caught early					
\$30,000	Total savings for ART					

Scenario 3 Control WIP



Research on Context Switching

It takes an average of 25 minutes to resume a task after being interrupted.

Juggling two tasks at a time = 40% of your productive time for each and 20% lost to context switching

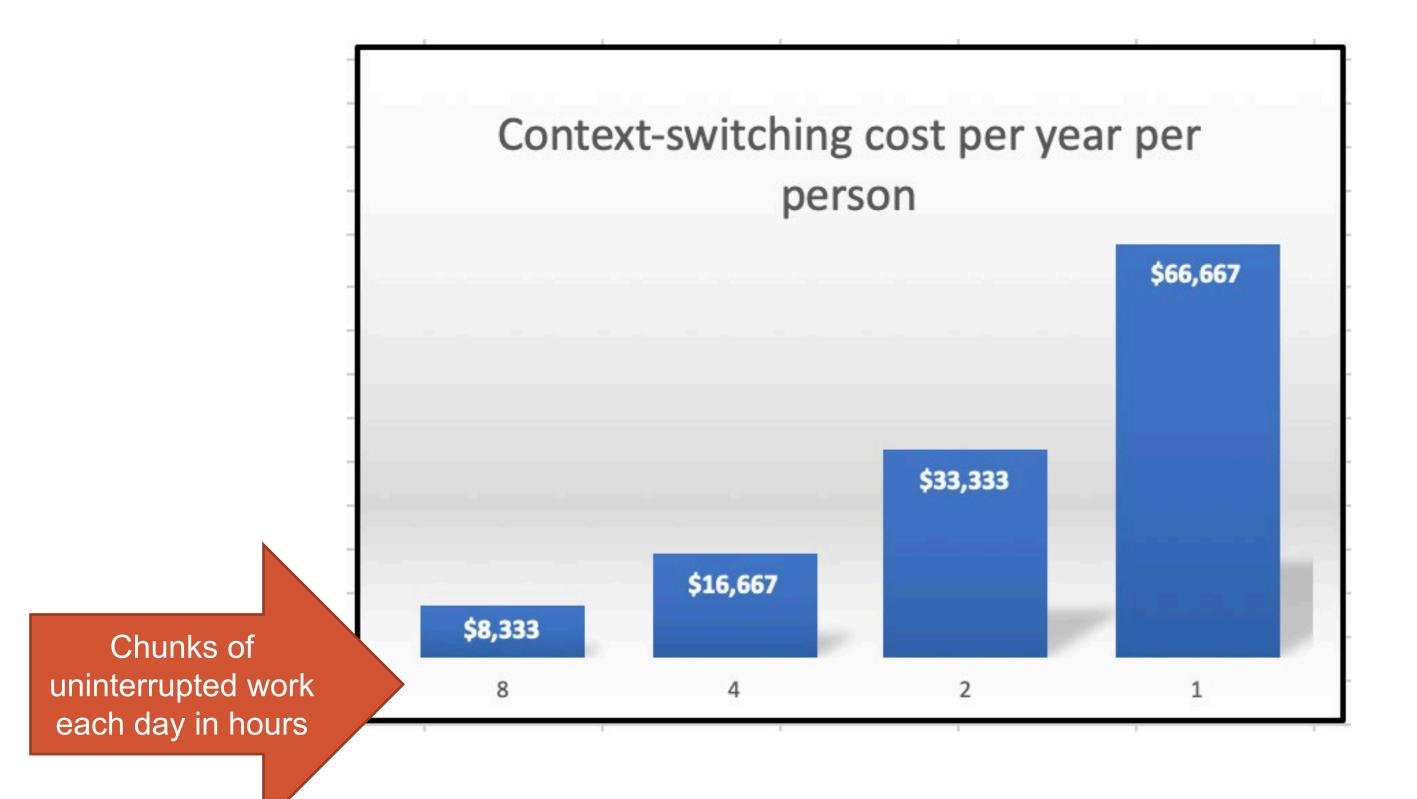
We spend an average of just 1 minute and 15 seconds on a task before being interrupted.

https://blog.rescuetime.com/context-switching/

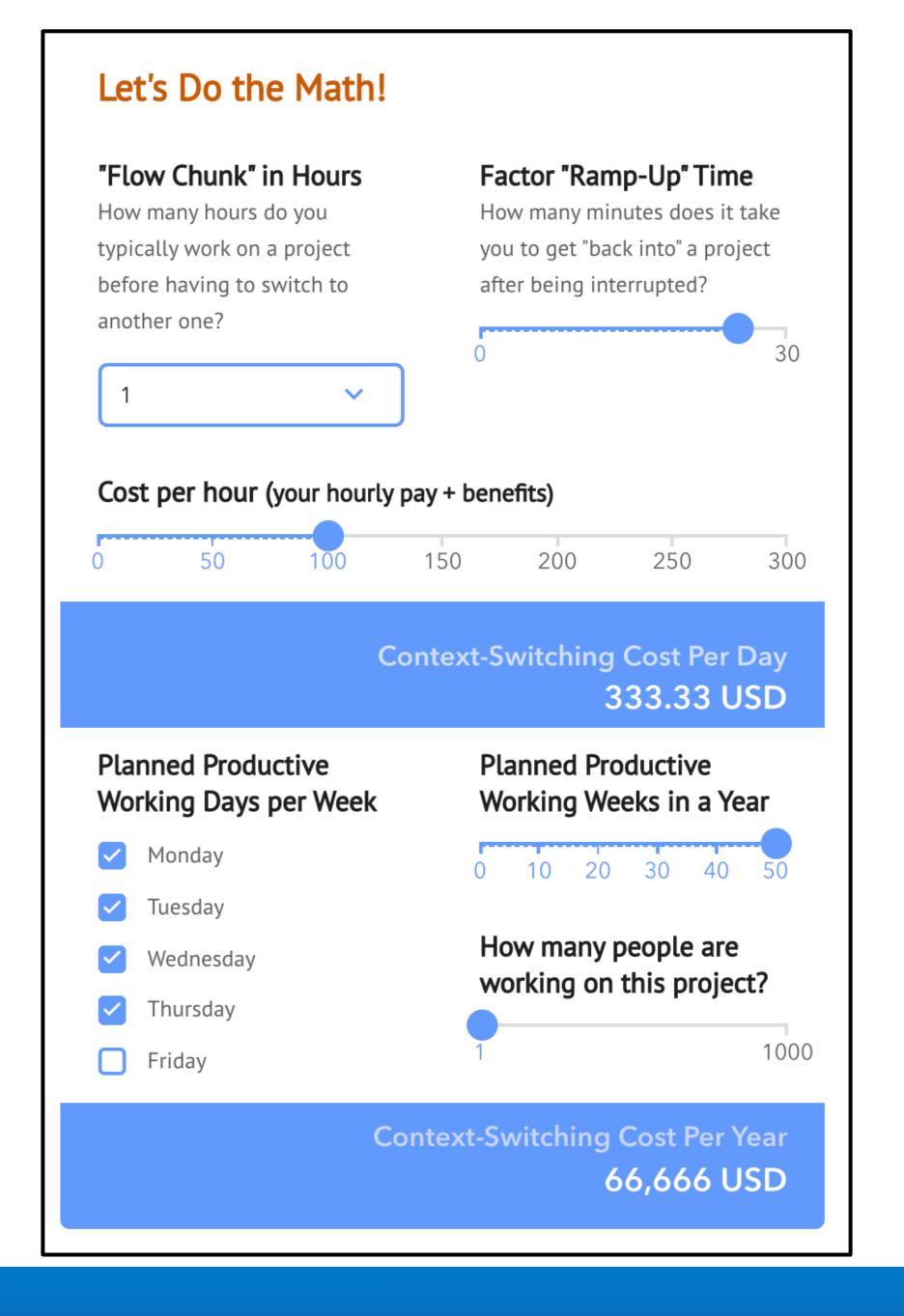


https://blog.trello.com/why-context-switching-ruins-productivity

Cost of Context-switching



https://321gang.com/controlling-wip-calculator/





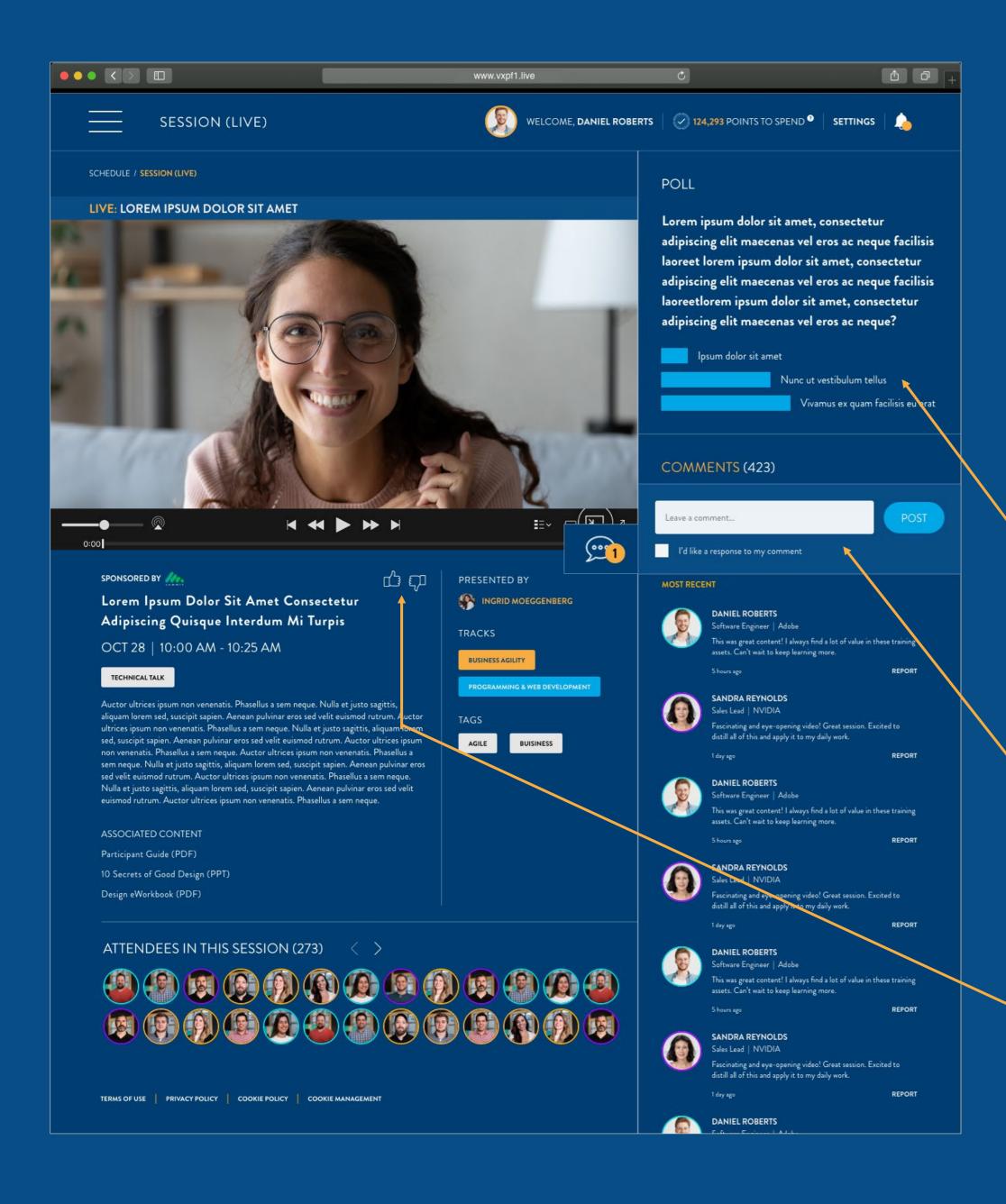
Cindy Van Epps

Senior Technical Consultant, SPCT 321 Gang, Inc.

Join me at the Meet the Speaker Session!



Please refer to the agenda for scheduled times



Participate in polling, post comments, and rate sessions

- 1 Polling
- 2 Comment
- Thumbs up or down

Thank you!