



Agile ORLANDO 2023

JULY 24-28

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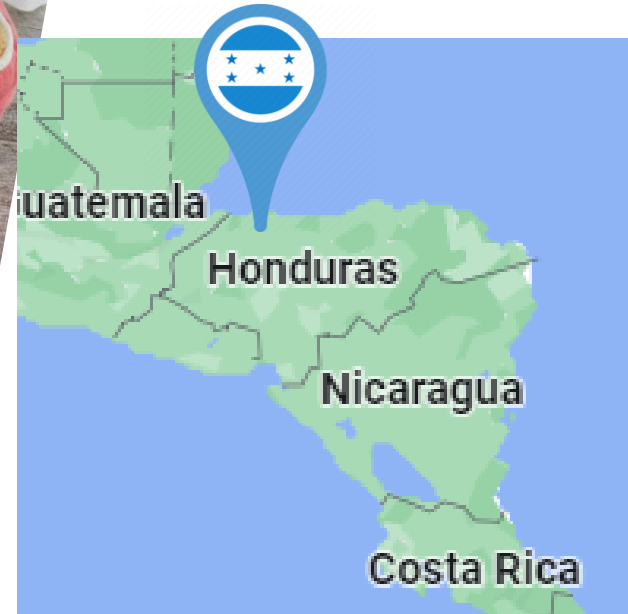


#AGILE2023

Check Out My Flow

Agile Metrics For Smooth Delivery

Juan Carlos Rivera



Tommy Norman



Agile Nashville



Music City Agile



O'Reilly Online Learning



Agenda

Why We Measure

Defining A Metric

4 Types Of Data Analytics

Maximizing Flow

Culture of Continuous Improvement



Why do
we measure?

Why We Measure

Concept To Cash



Speed to Market



High Level of Quality



Happy Team

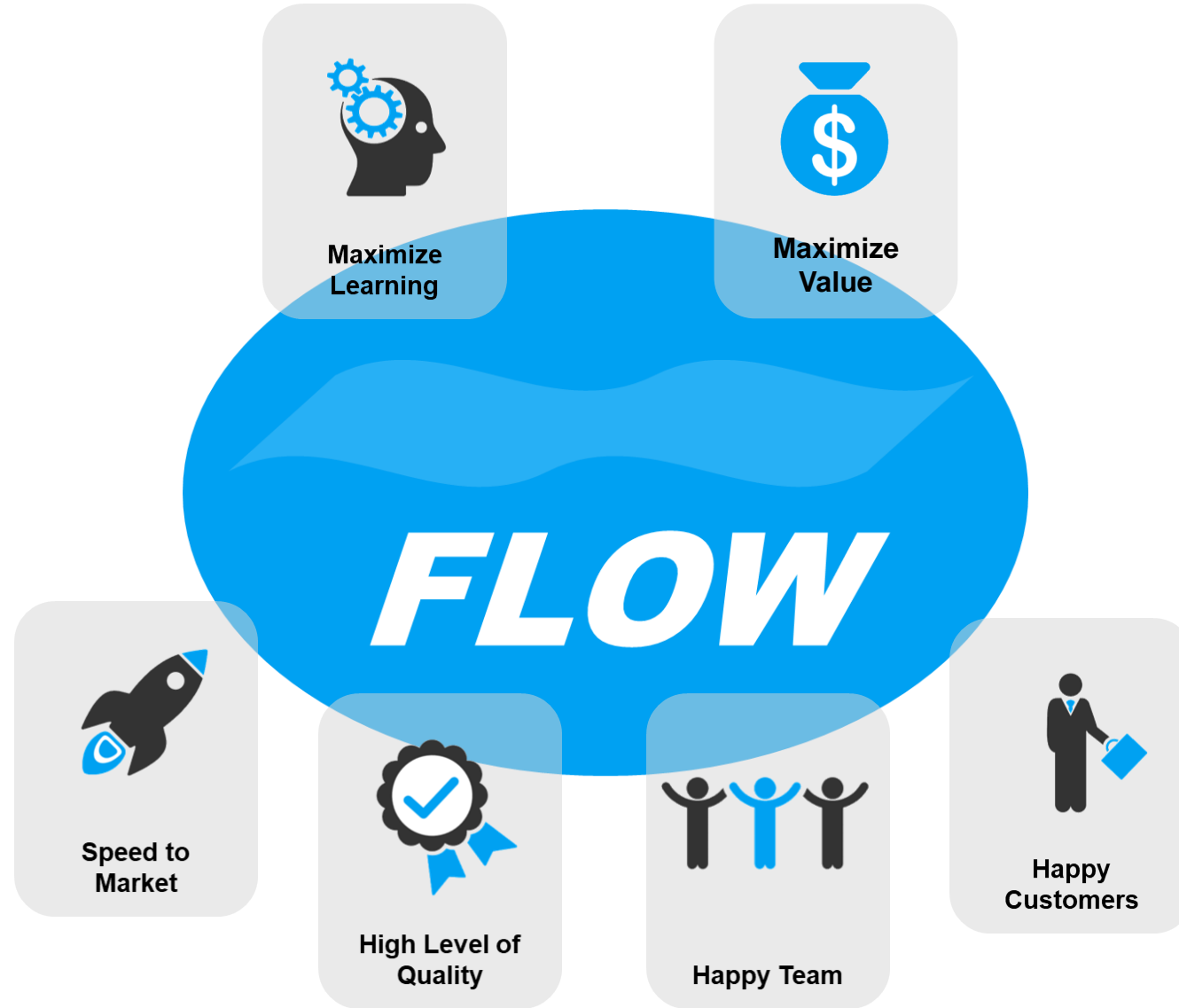


Happy Customers

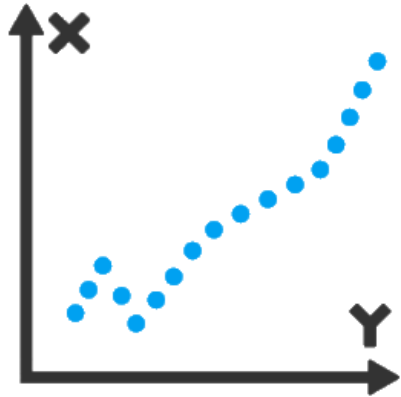


Maximize Learning

Flow

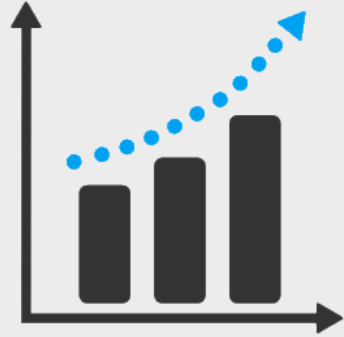


Data Informed Decisions



“Highly data-driven organizations are three times more likely to report significant improvements in decision-making compared to those who rely less on data.”

Metrics Are About Value



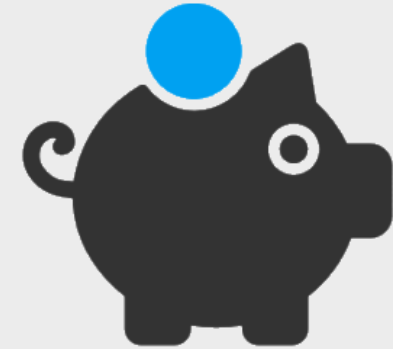
Increase Revenue



Protect Revenue

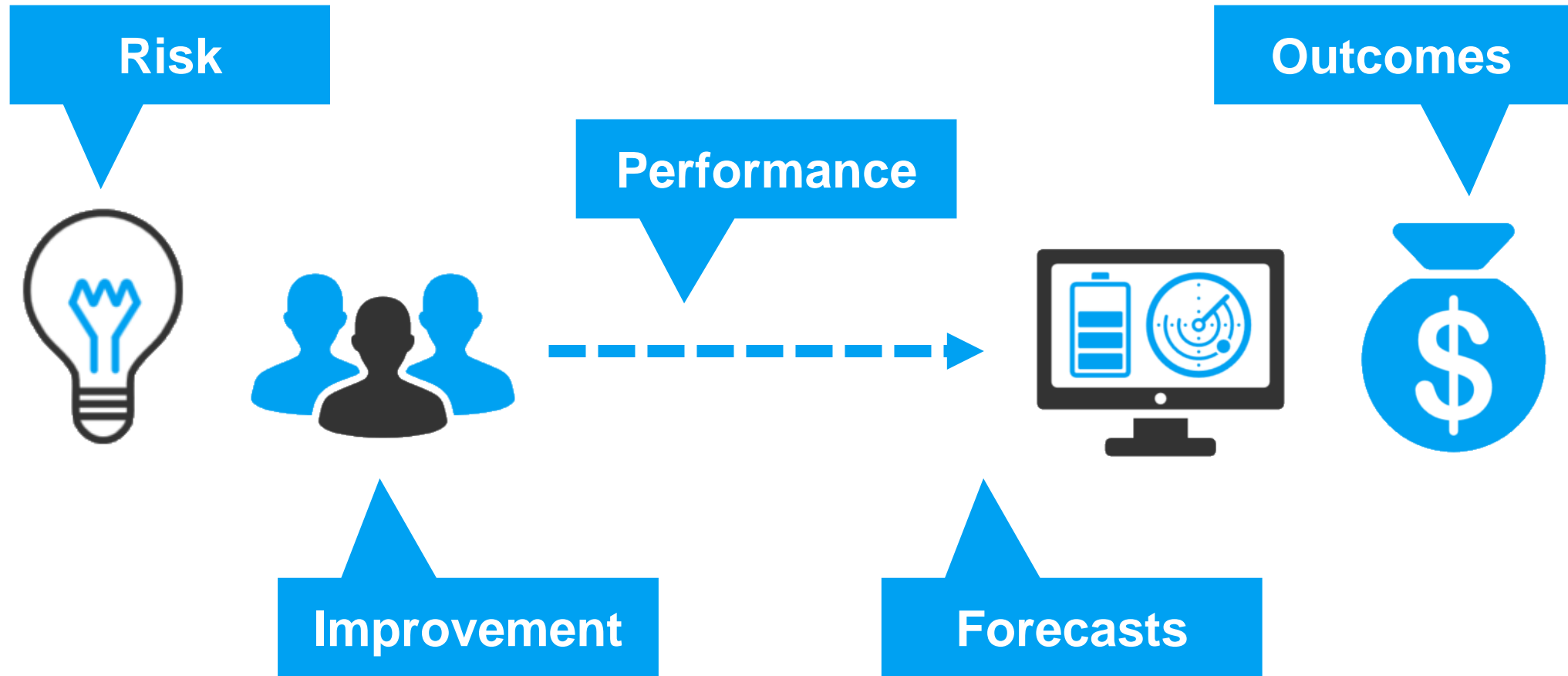


Decrease Cost



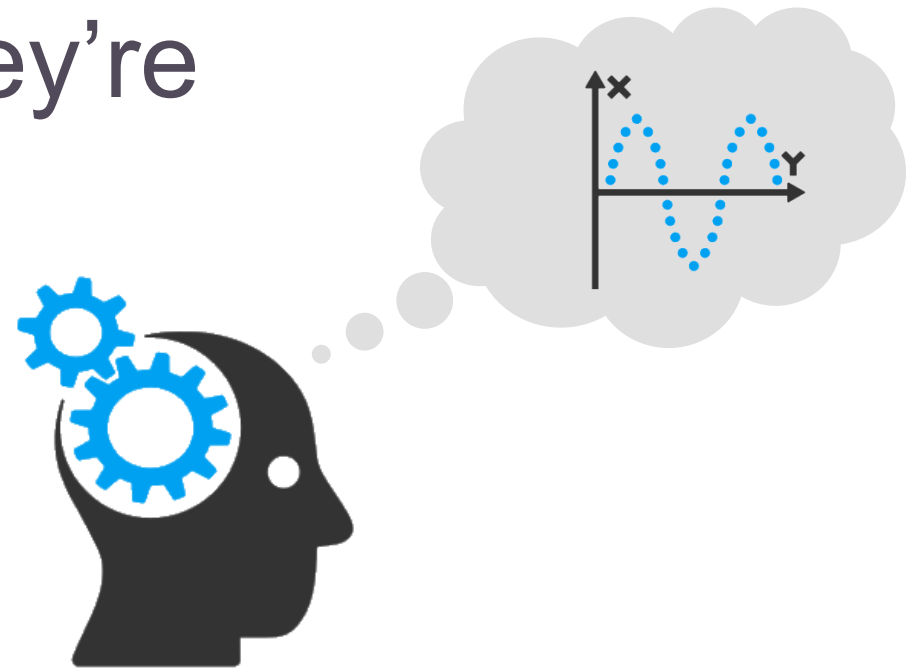
Avoid Costs

Metrics Are About Learning

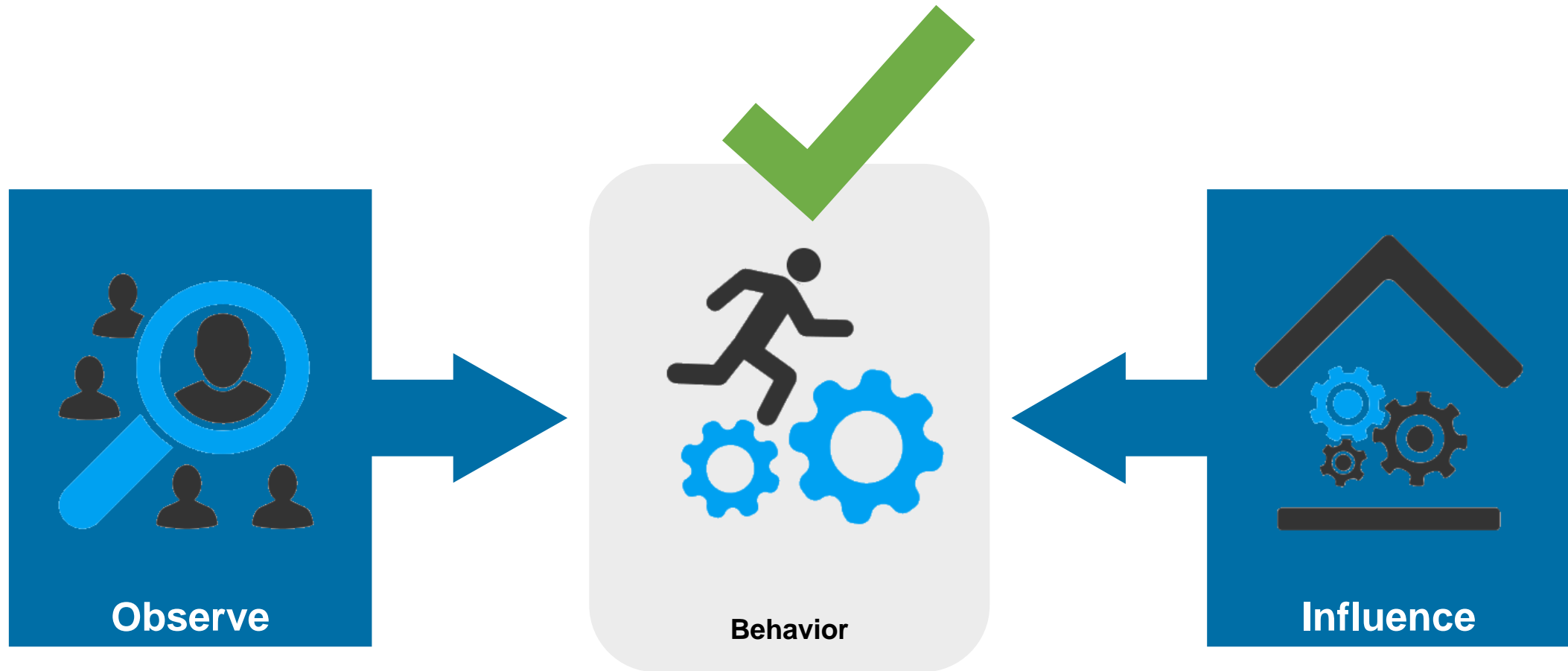


Metrics Are About Behavior

“Human beings adjust behavior based on the metrics they’re held against.”

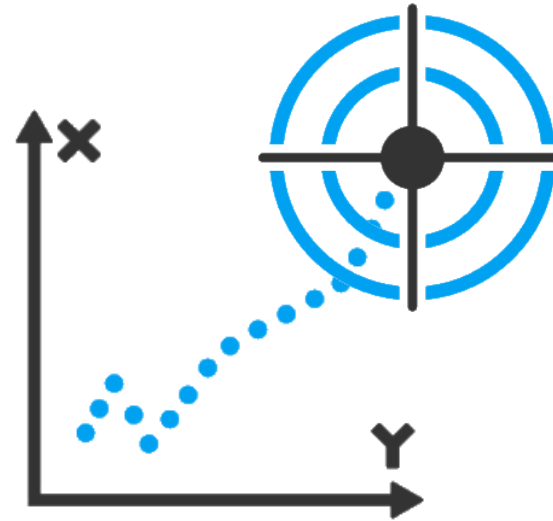


Metrics Are About Behavior



Goodhart's Law

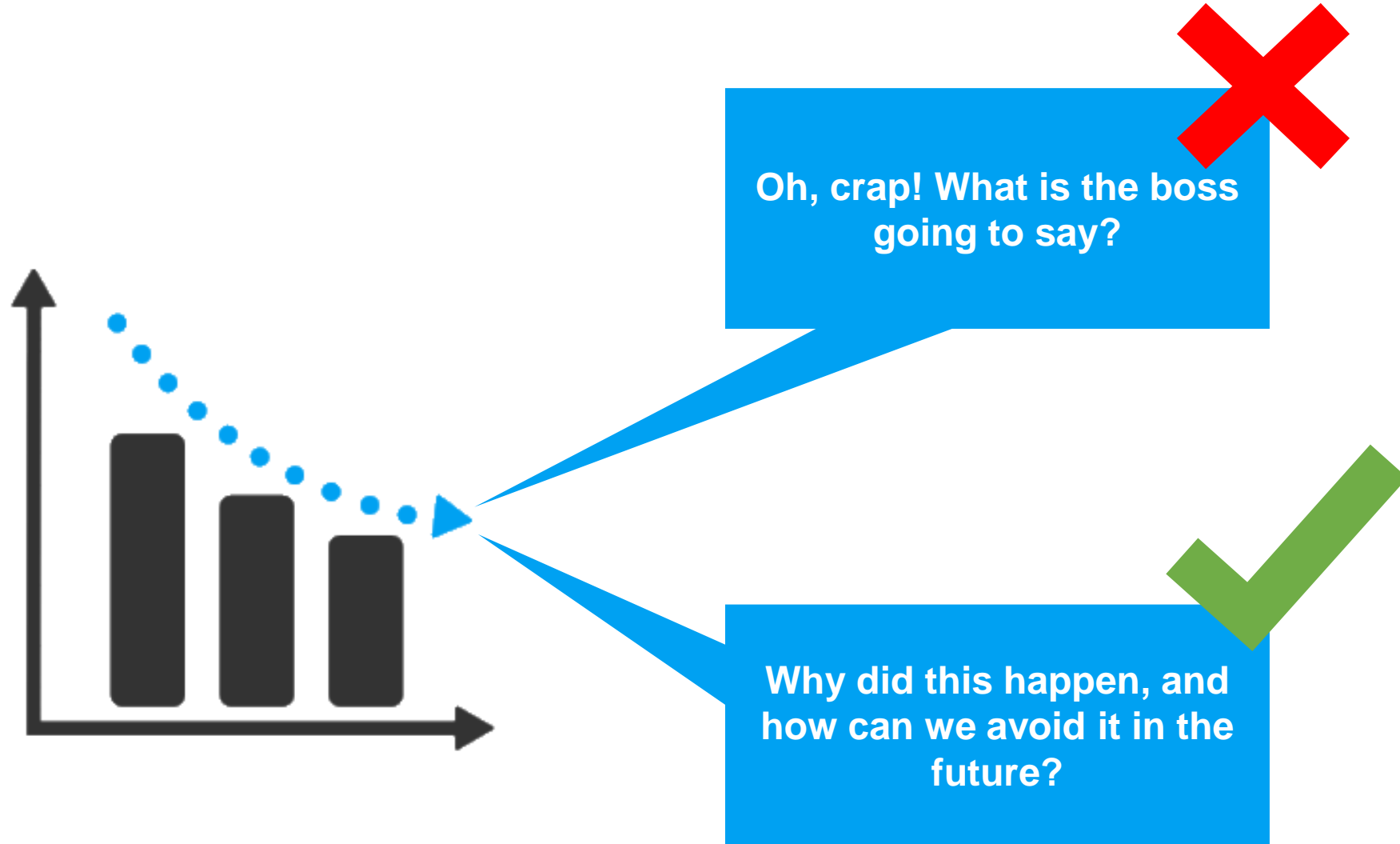
“When a measure becomes a target, it ceases to be a good measure.”



“Enforcing” Behavior



Metrics Should Inspire Curiosity



Maximizing Flow



**Speed to
Market**



**High Level of
Quality**



Happy Team



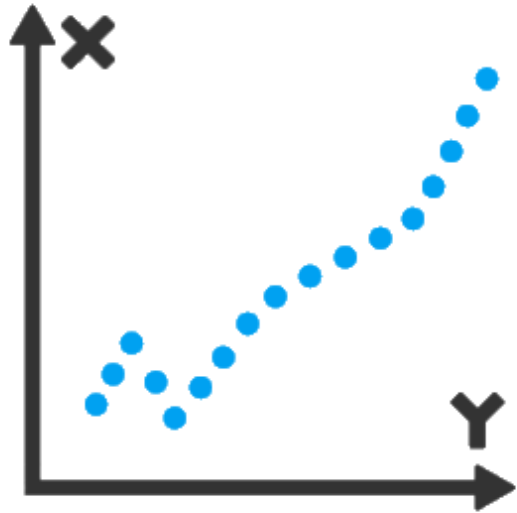
**Happy
Customers**



**Maximize
Learning**

Defining A Metric

Before You Measure...



Why? What question(s) are you trying to answer?

What behavior are you trying to influence?

What exactly are you going to measure?

What does it look like when it is good/bad?

How do you plan to react to this metric?

What are the possible side effect behaviors?

Example Focused On Speed



Speed

I want to ensure we deliver as efficiently as possible to get value to our customers quickly. Are we going to meet our delivery goals?

I want employees to identify and remove waste in our delivery processes.

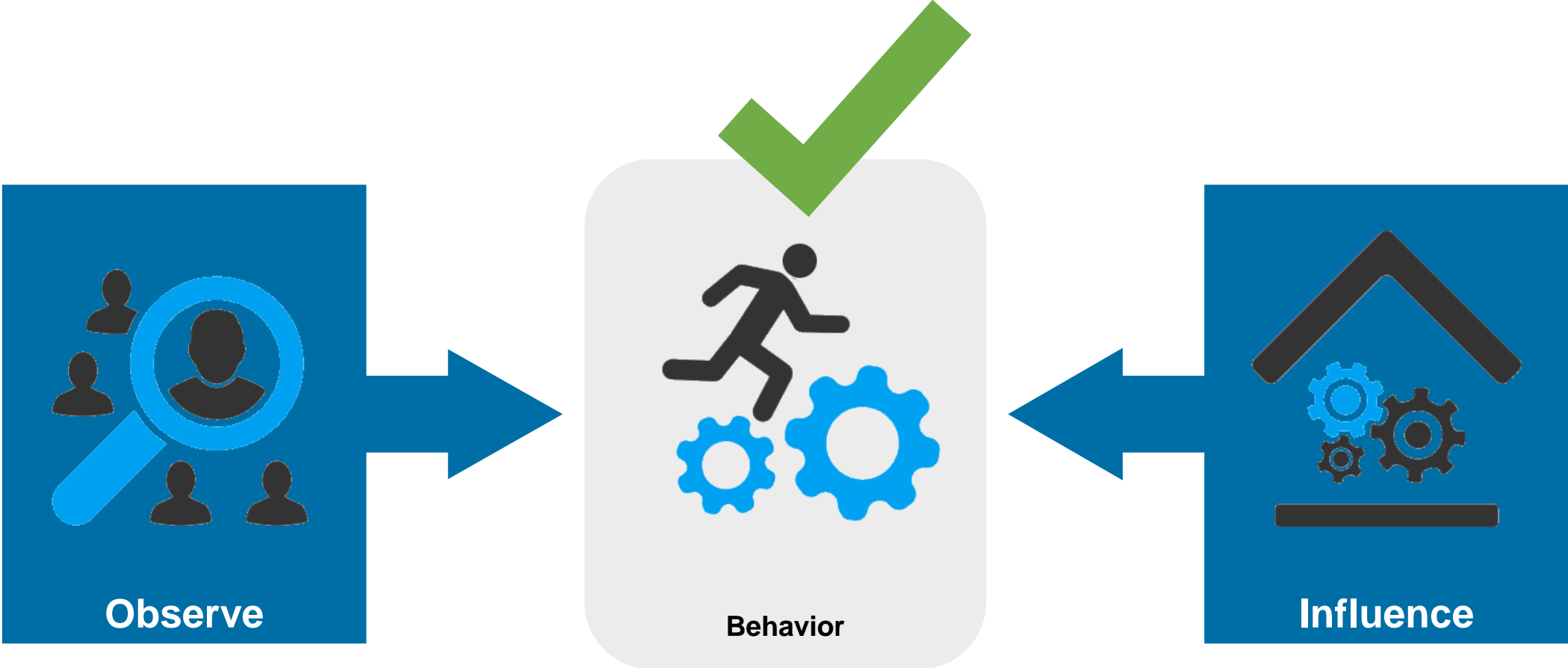
The number of story points we can deliver in a two-week sprint. (velocity)

Good is as high as the team can consistently deliver with good quality.
Bad is highly inconsistent or trending lower than expected.

If we see a negative trend, we will focus on delivery impediments and inefficiencies in our next retrospective.

Teams lose focus on quality by taking shortcuts or sustainable pace by working too hard.

Continuous Improvement



A Different Example



Speed

We need to deliver 20 features every 2 weeks to make our deadline.
Are we going to make our deadline?

I want employees to go as fast as they can.

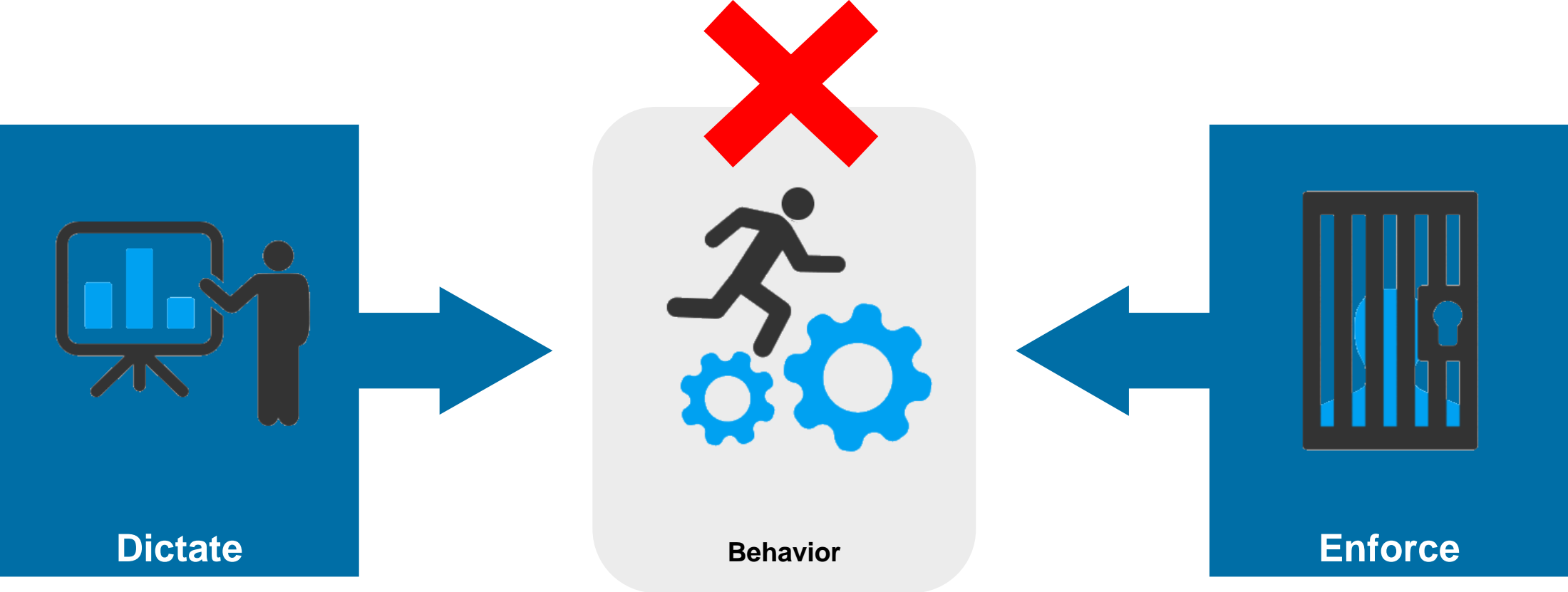
How on target we are towards delivering 20 features each week.

Good is 20 or more features per week. Bad is less than 20.

Add more people, work nights and weekends, and/or withhold bonuses.

What do you mean?
Like NOT meeting that goal?

Culture Of Fear





Which of those
situations is closer to
your experience?

Exercise: Metric Questionnaire

- Choose a *quality* metric.
- Answer the questionnaire.
 - Why? What question(s) are you trying to answer?
 - What behavior are you trying to influence?
 - What exactly are you going to measure?
 - What does it look like when it is good? Bad?
 - How do we plan to react to this metric?
 - What are possible side effect behaviors?
- Does this inspire continuous improvement?

Qualities Of A Good Metric



**Goal
Focused**



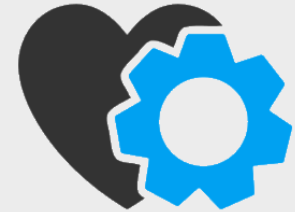
Clear



Actionable



Trusted



**Positive
Behavior**

4 Types of Data Analytics



Descriptive
(What happened?)



Diagnostic
(Why did it happen?)



Predictive
(What's likely to happen?)



Prescriptive
(What should we do?)

**Descriptive:
What Happened?**

What Data Are We Going To Collect?



Speed

Does this include bugs
or just features?

The number of story points we can deliver
in a two-week sprint. (velocity)

What does “delivered”
mean exactly?

What Data Are We Going To Collect?



Speed

Velocity = the total number of story points for all cards that reach the “Done” lane on our team’s JIRA board each Sprint.

Descriptive Data

Sprint	Velocity
1	25
2	27
3	21
4	11
5	32
6	25
7	25
8	21
9	19

What is our average velocity?

What has been our lowest velocity?

What has been our highest velocity?



What are some other
common Agile team
descriptive metrics?

Data Visualization

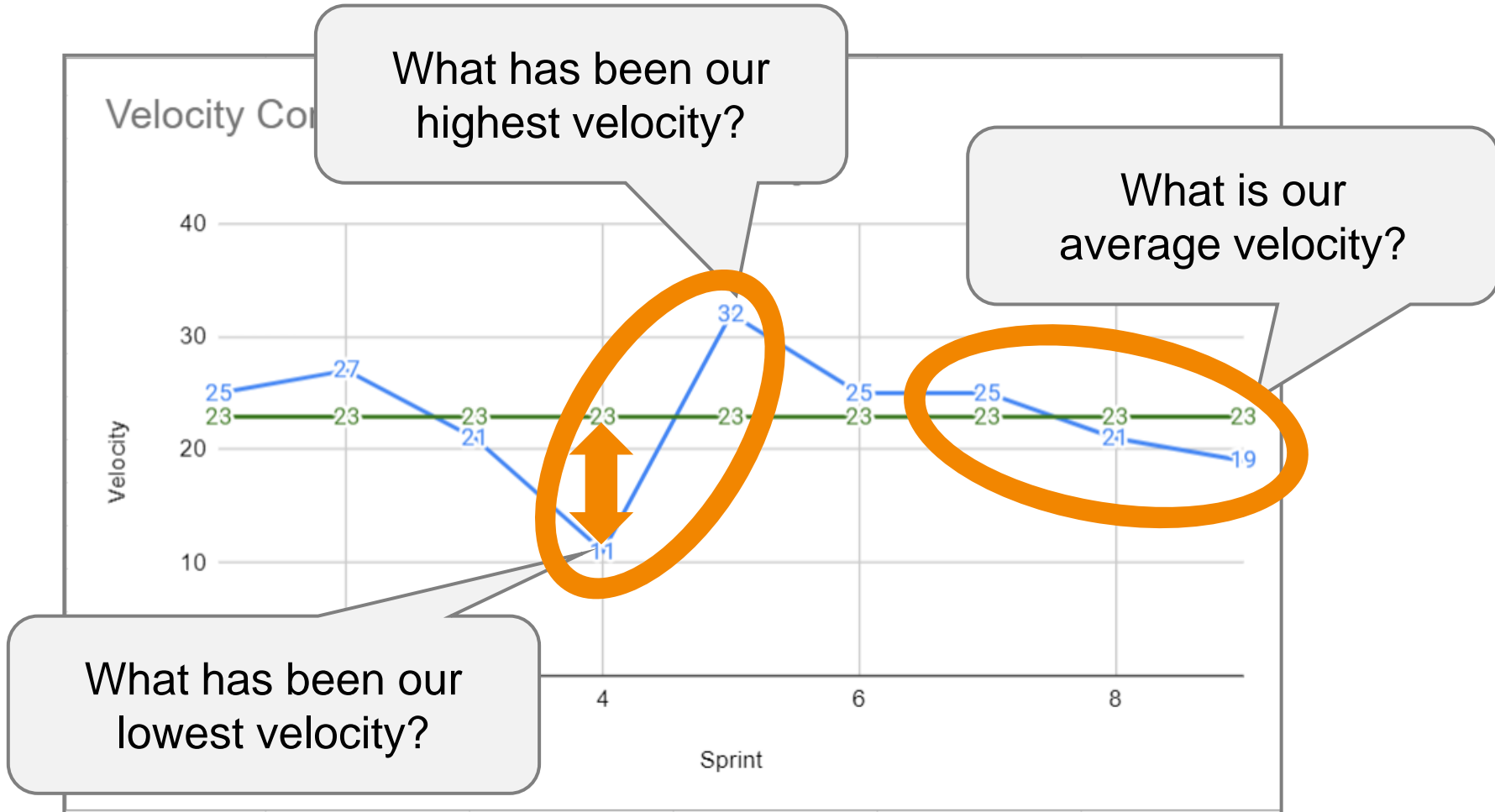


Information Radiator

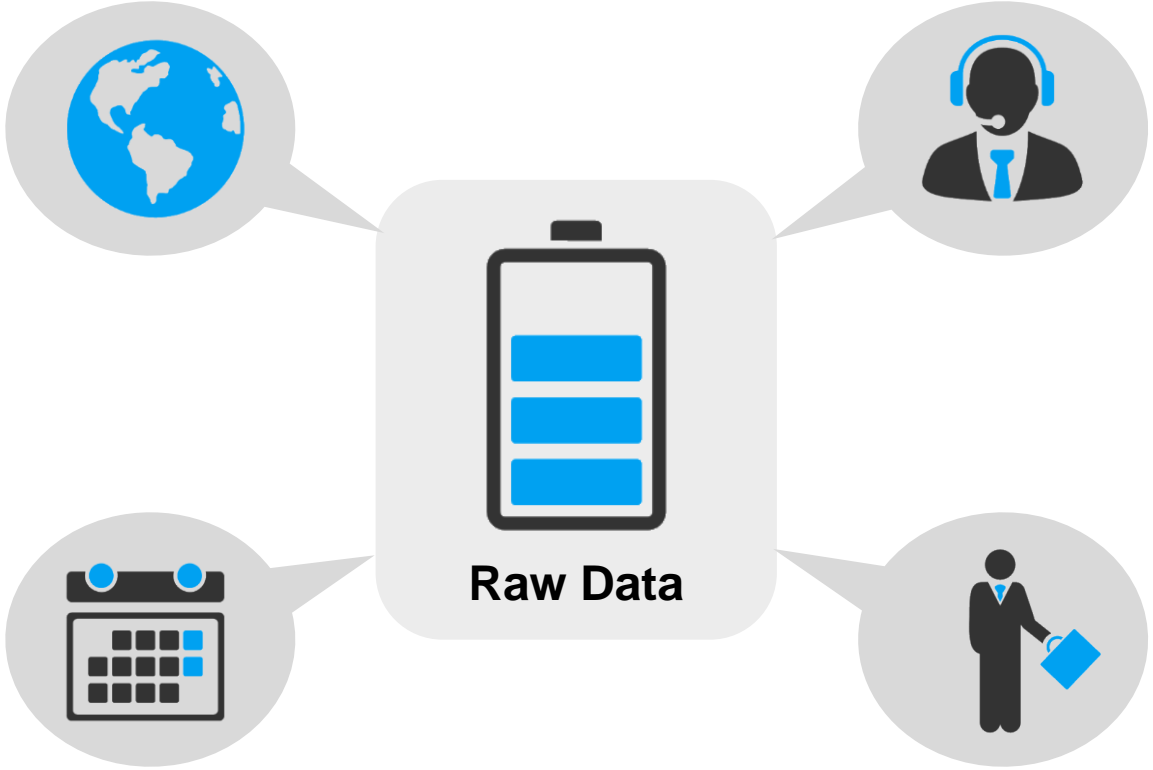


“...**displays** which a team places in a **highly visible** location so that all team members ... can see the **latest information at a glance...**”

Data Visualization



Data Aggregation



Descriptive Data



“80% of business analytics mainly involves **descriptions** based on **aggregations** of past performance.”

Tools Can Help

Agile

- Burndown Chart**
Track the total work remaining and project the likelihood of achieving the sprint goal. This helps your team manage its progress and respond accordingly.
- Burnup Chart**
Track the total scope independently from the total work done. This helps your team manage its progress and better understand the effect of scope change.
- Sprint Report**
Understand the work completed or pushed back to the backlog in each sprint. This helps you determine if your team is overcommitting or if there is excessive scope creep.
- Velocity Chart**
Track the amount of work completed from sprint to sprint. This helps you determine your team's velocity and estimate the work your team realistically achieve in future sprints.
- Cumulative Flow Diagram**
Shows the statuses of issues over time. This helps you identify potential bottlenecks that need to be investigated.
- Version Report**
Track the projected release date for a version. This helps you monitor whether the version will release on time, so you can take action if work is falling behind.

Jira Work Management Your work Projects Filters Dashboards Apps Create

Website updates

- TO DO** 1
New template illustration main cover photo
- DRAFTING** 3
Main website illustration
In-product tour illustration assets
New logo for new product
- IN REVIEW** 4
Templates - Sales pipeline
Project management illustrations
Change-boarding existing users illustration
Design cover photo for new project
- APPROVED** 2
Templates - Month End Process
Onboarding illustrations
- CREATED** 2
Templates - Asset creation
Templates - Website design process

USER STORY DELIVERY

Team Alpha (Scrum)

- Inventory Mgmt: Payout Integration
- Inventory Mgmt: Location
- Inventory Mgmt: Shipping Cart
- Inventory Mgmt: UX Testing
- Inventory Mgmt: Service Integration
- Inventory Mgmt: Scale payment encryption

Team Beta (Scrumban)

- Inventory Mgmt: Order Status Check
- Inventory Mgmt: Order Modification
- Inventory Mgmt: Cart Items
- Inventory Mgmt: Integration to ERP
- Inventory Mgmt: Version Testing

Team Charlie (Kanban)

- Inventory Mgmt: Full Documentation
- Inventory Mgmt: QA Training
- Inventory Mgmt: Batch Optimization
- Inventory Mgmt: In Transit Security
- Inventory Mgmt: Network Integration
- Inventory Mgmt: Pick Order
- Inventory Mgmt: User Endpoint
- Inventory Mgmt: Account Engineer
- Inventory Mgmt: Data Tool

Flow/Forecast (Cumulative Flow & Burn-Up)

How smoothly is work flowing through our process?

Our Pace

Metric	Throughput (Cards)	Throughput (Hours)
Starting new work	2.42	4.00
Working work in process	2.07	4.27
Should have been	6.00	6.34
Needed from today to hit target date	12.07	19.26

Export

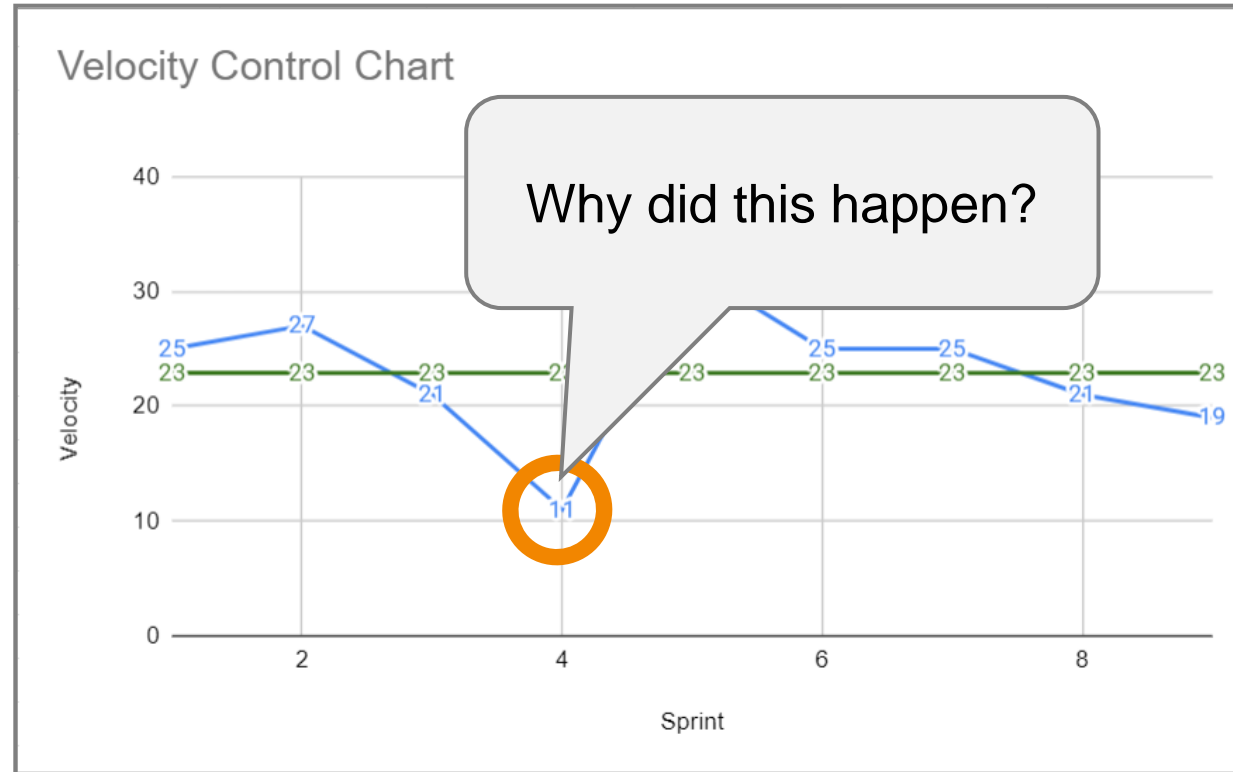
DATE RANGE: 09/14/2015 TO 04/13/2015

Card Size: 30 (Start timeline from X days ago)

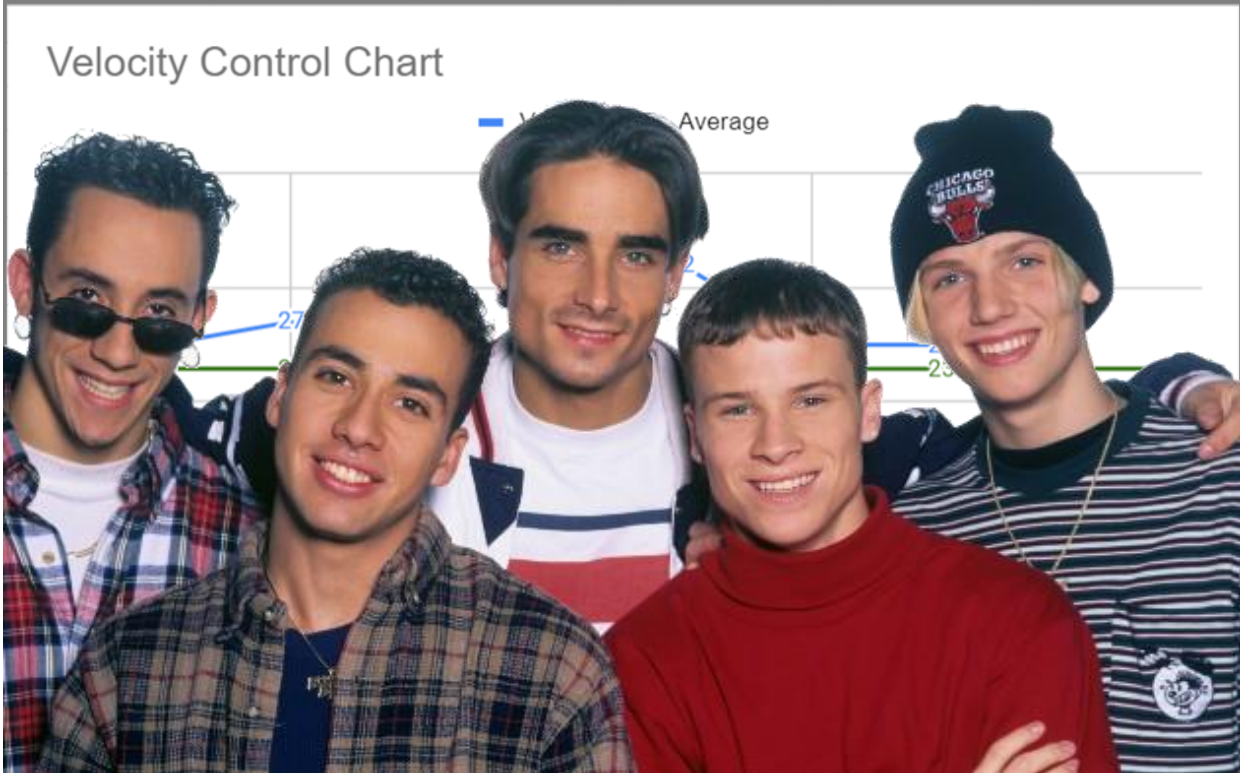
Target date is X days from today

Diagnostic: Why Did It Happen?

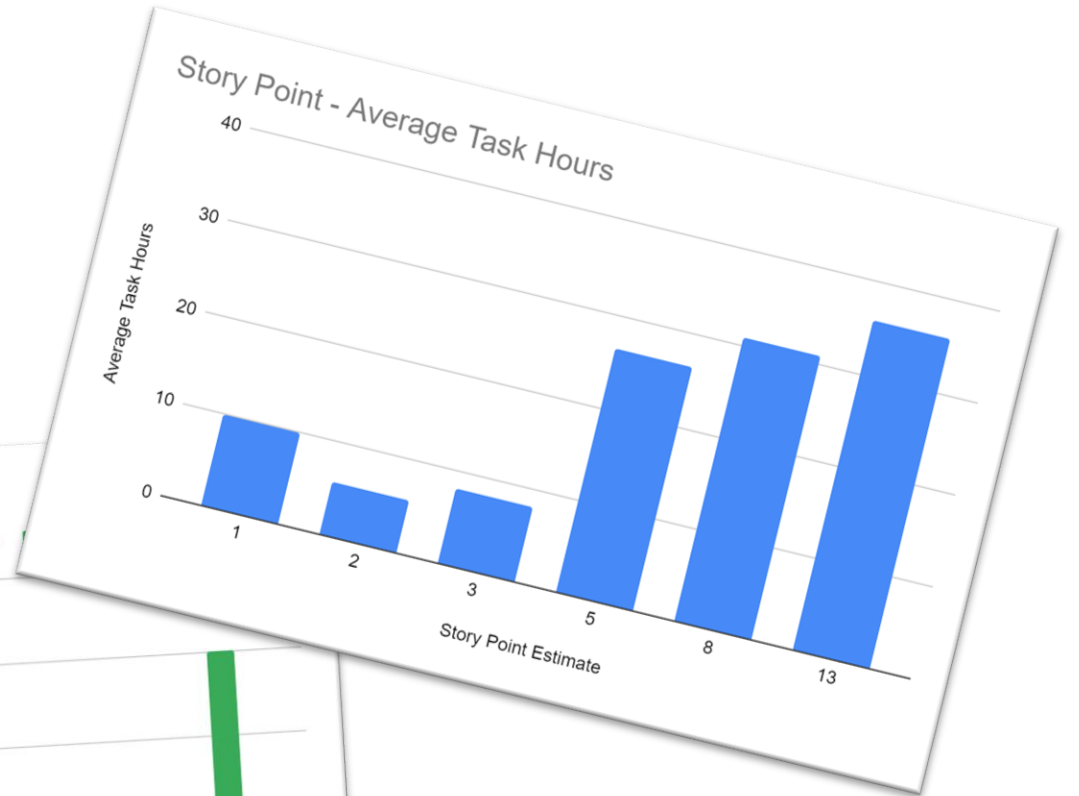
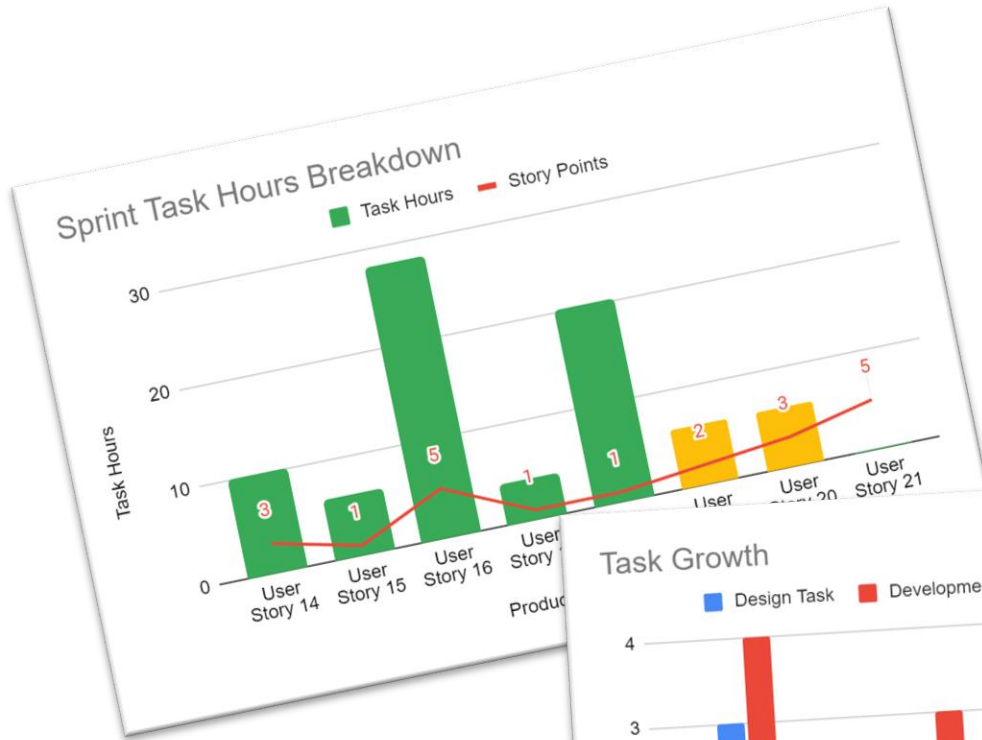
Why Did It Happen?



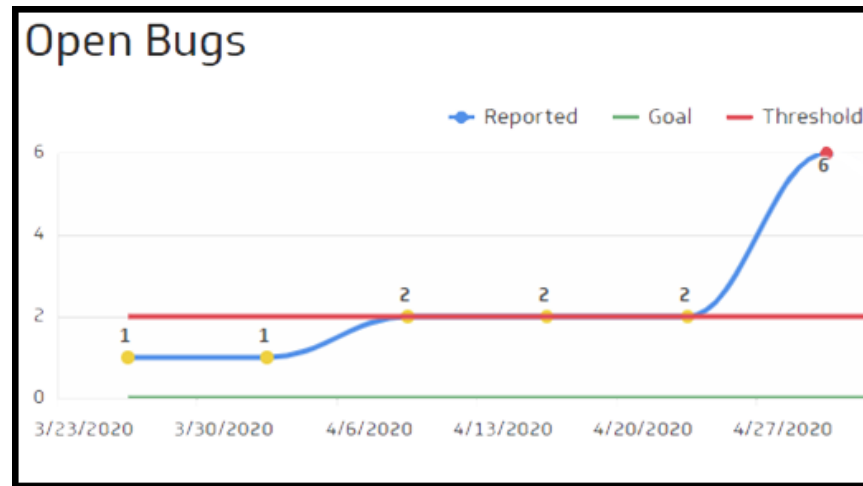
Metrics Tell A Story



Demo: Diagnostic Data

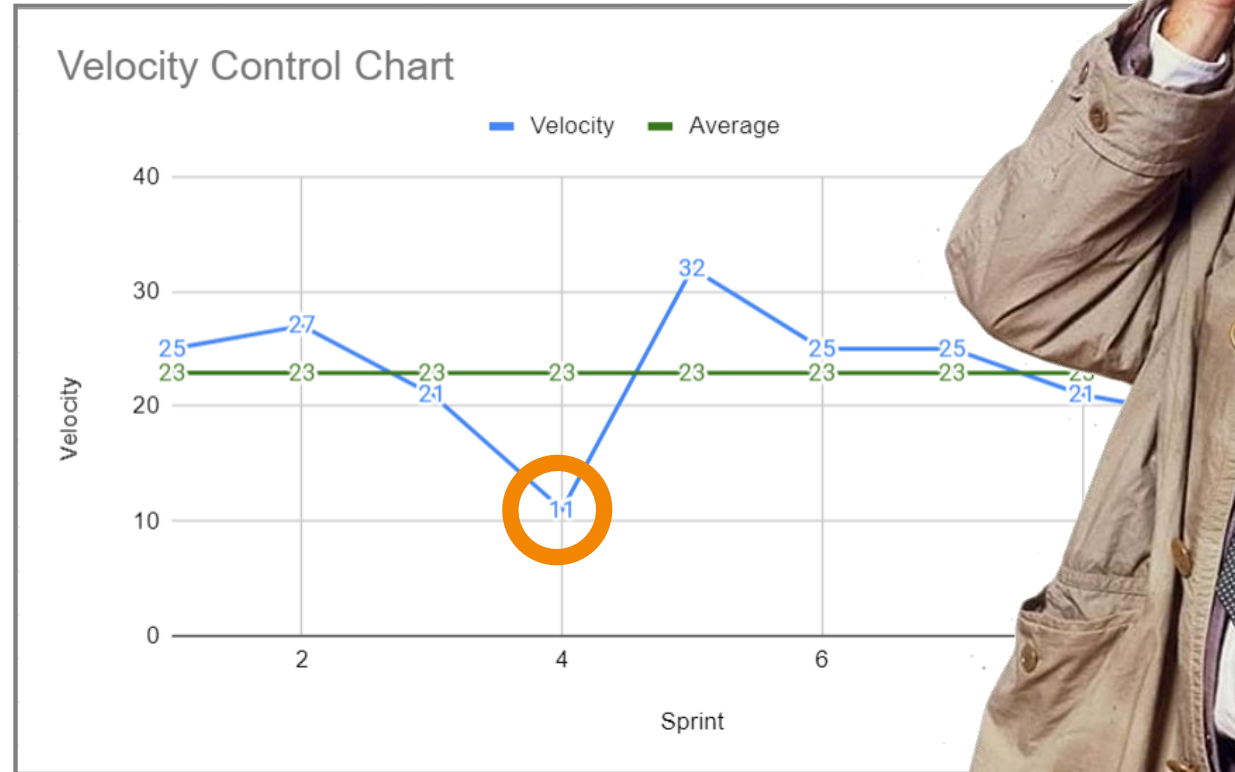


Exercise: Diagnostic Data



- Your team sees a spike in bugs reported.
- Discuss what metrics you might use to diagnose why it happened.

Why Not Just Ask The Team



Data Versus Going With Your Gut

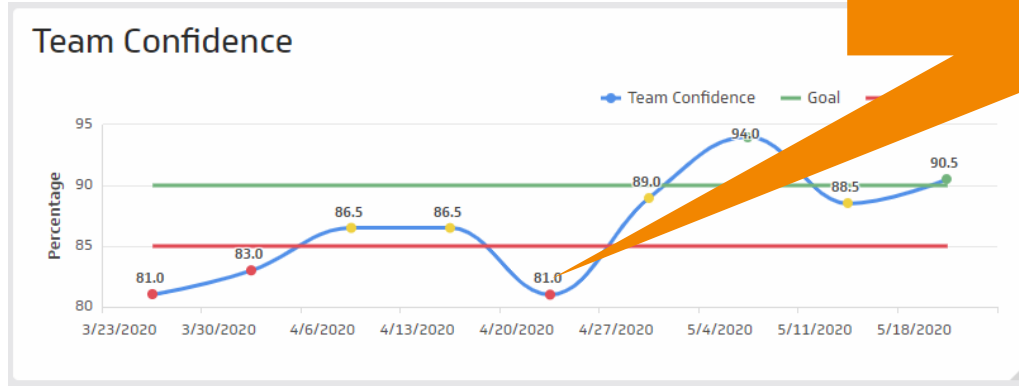




With the spike in bugs, were there any metrics that may have indicated a problem beforehand?

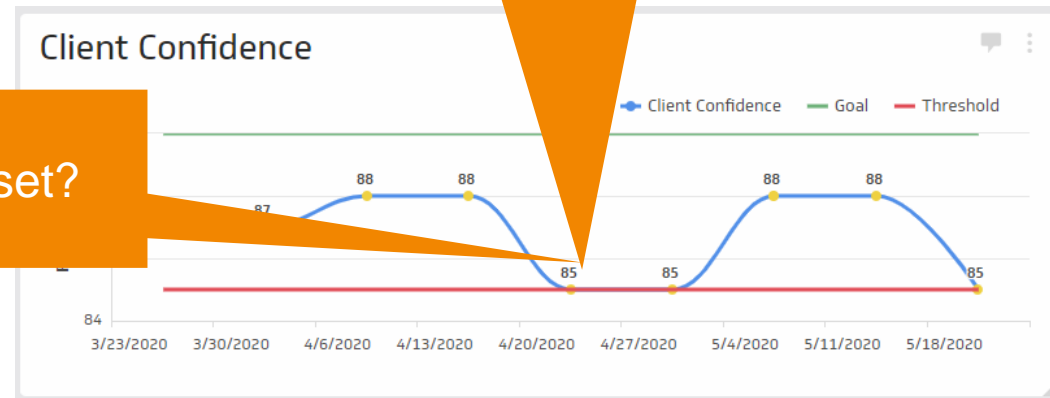
Follow The Clues

What is the team upset?

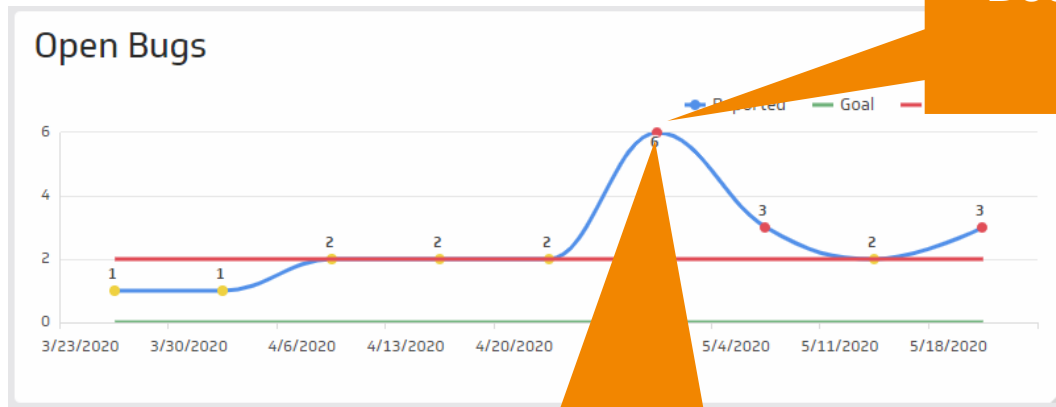


Because the client is upset.

Why is the client upset?



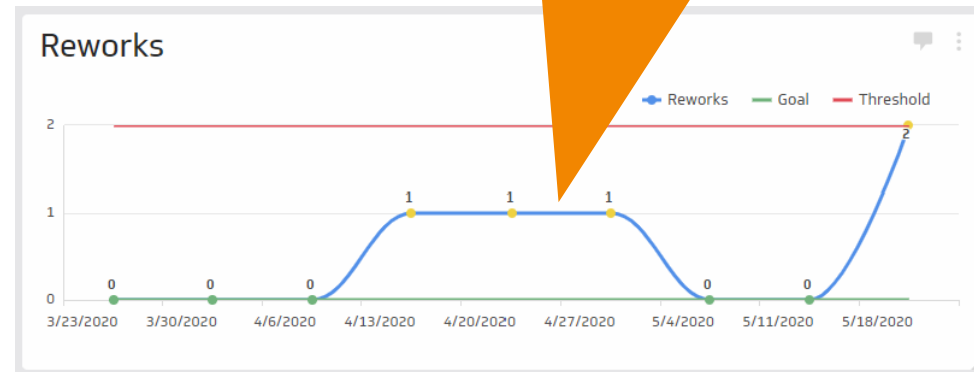
Follow The Clues



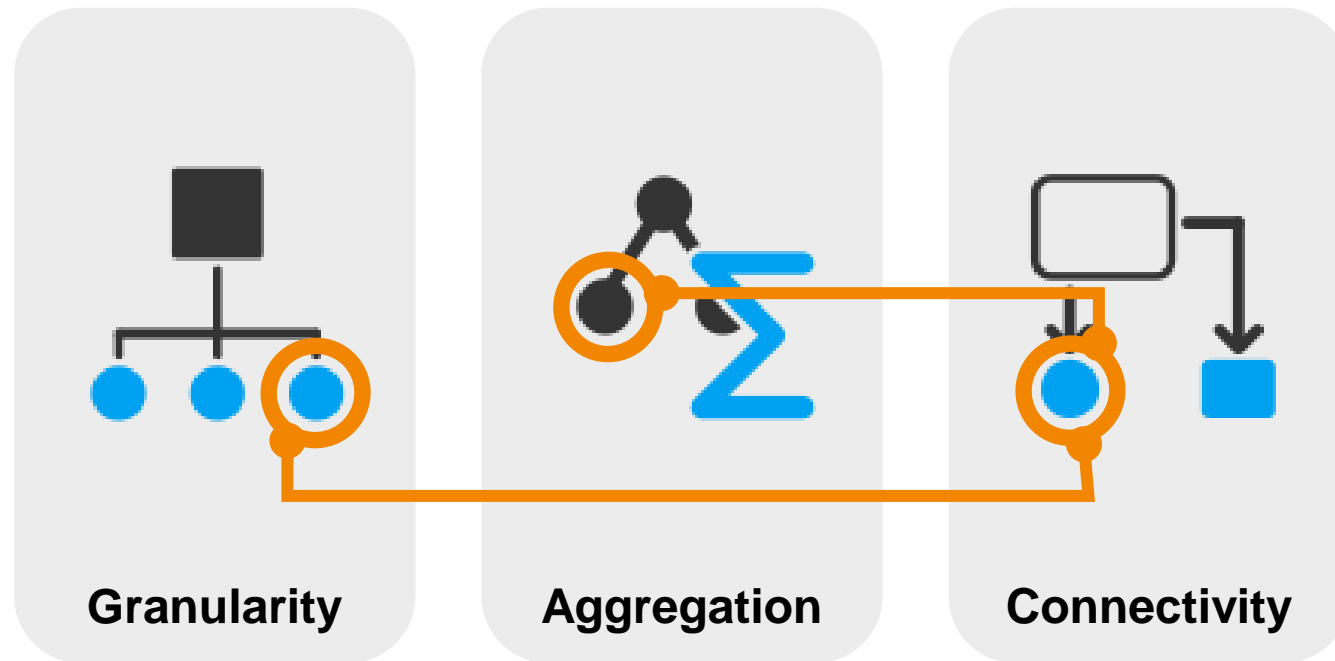
Because we had a spike in open bugs.

Why did we have a spike in open bugs?

I don't know but I also see a spike in reworks right before...



Metrics Reveal Patterns



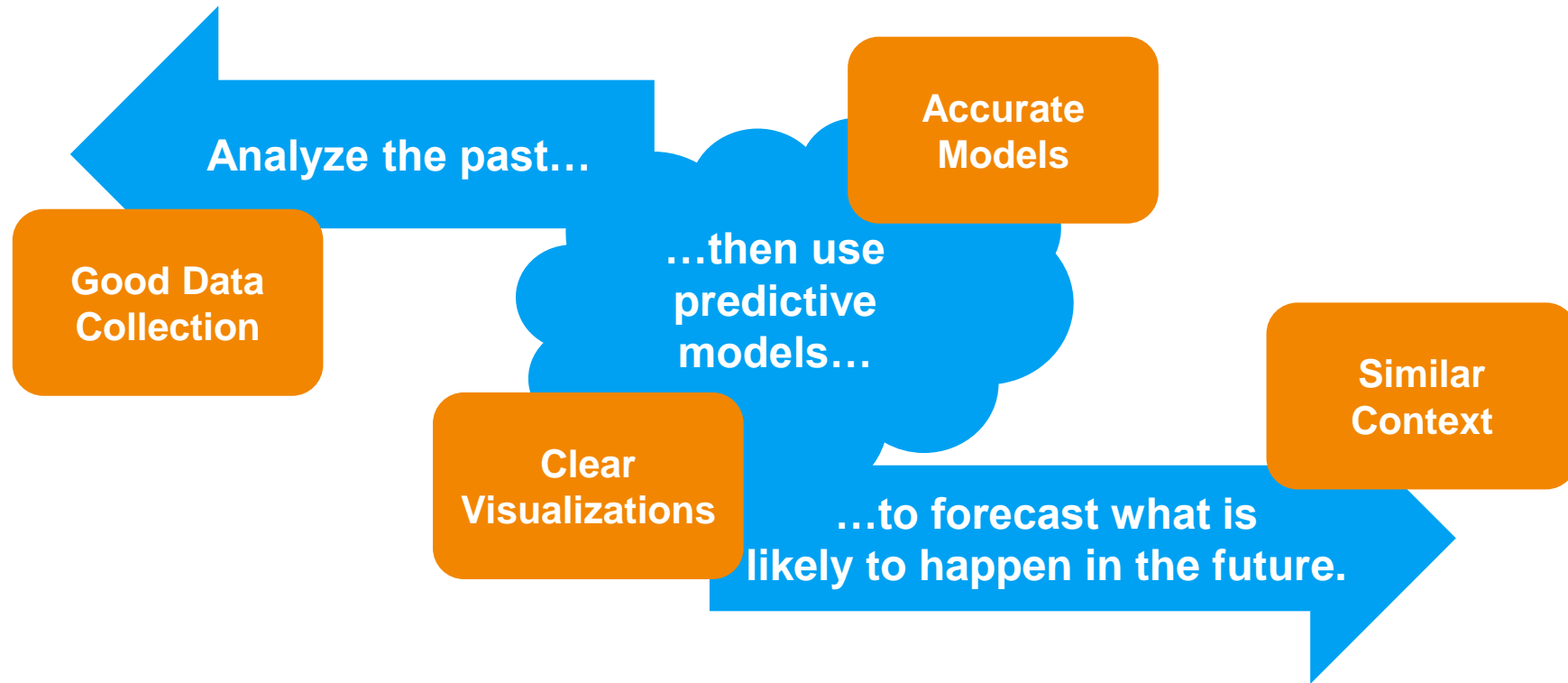
**Predictive:
What Is Likely
To Happen?**

The “Future”

“The **future does not exist**, it was made up by insurance companies and guidance counselors.”



Predictive Data Analytics



Predictive Data Analytics



I want to ensure we deliver as efficiently as possible to get value to our customers quickly.

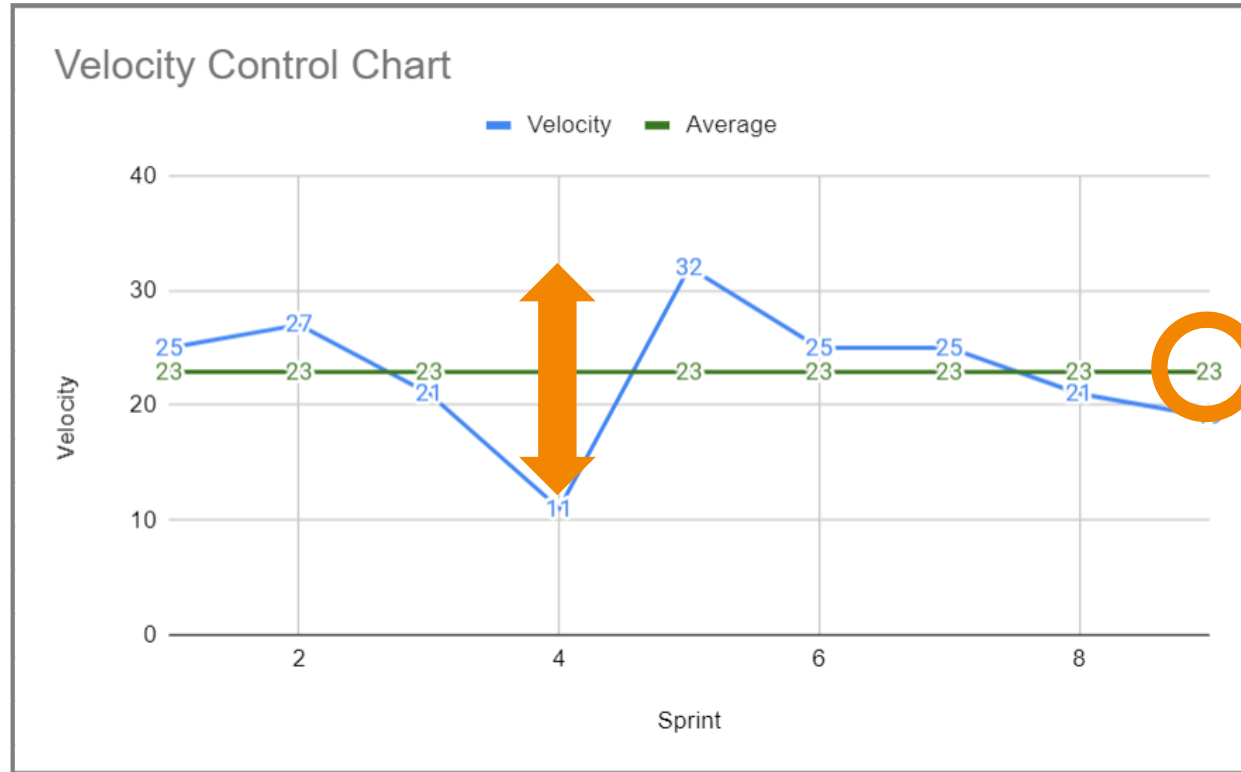
Are we going to meet our delivery goals?



How would you answer this question with this data?

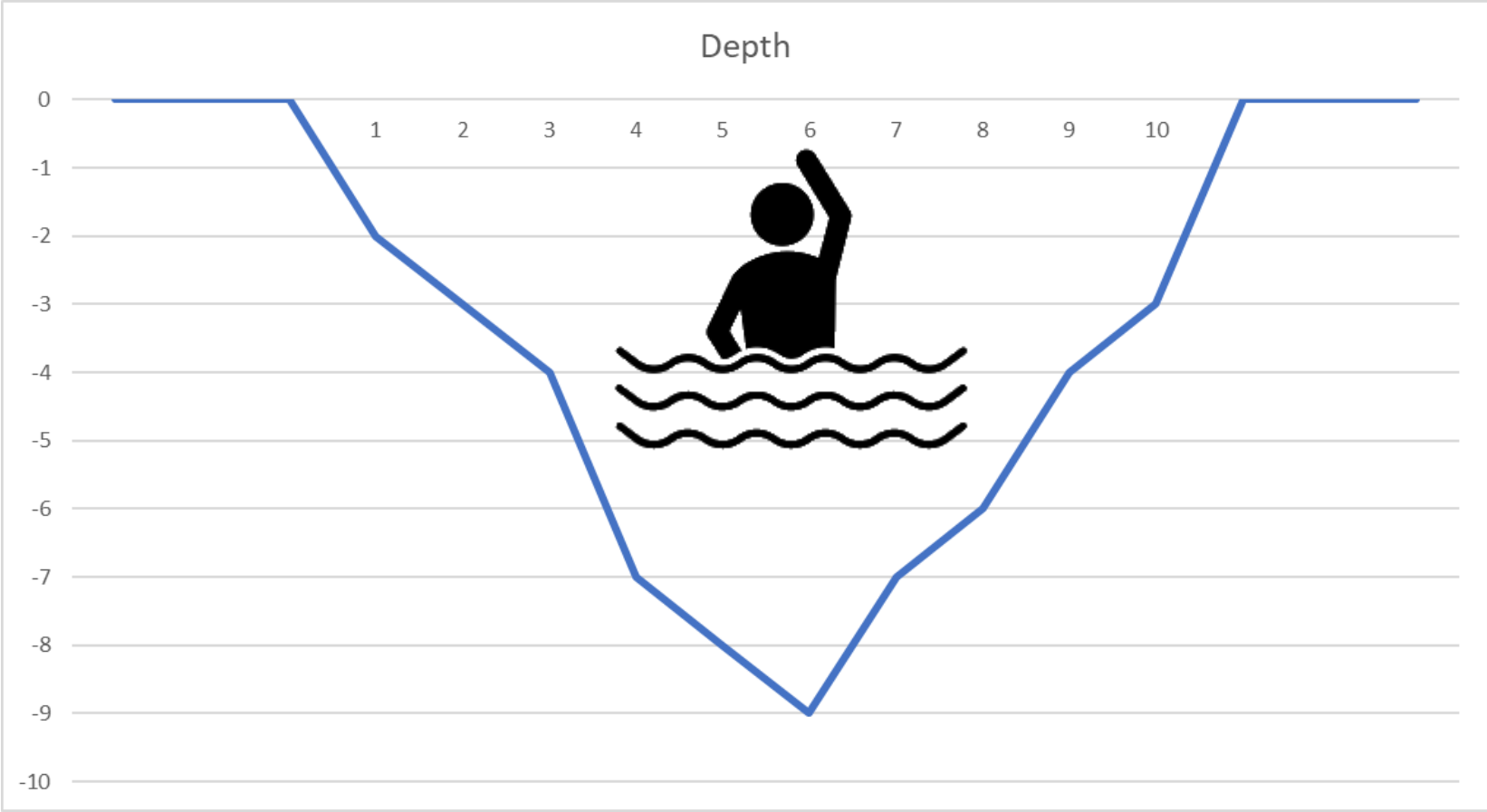
Sprint	Velocity
1	25
2	27
3	21
4	11
5	32
6	25
7	25
8	21
9	19

The Flaw Of Averages

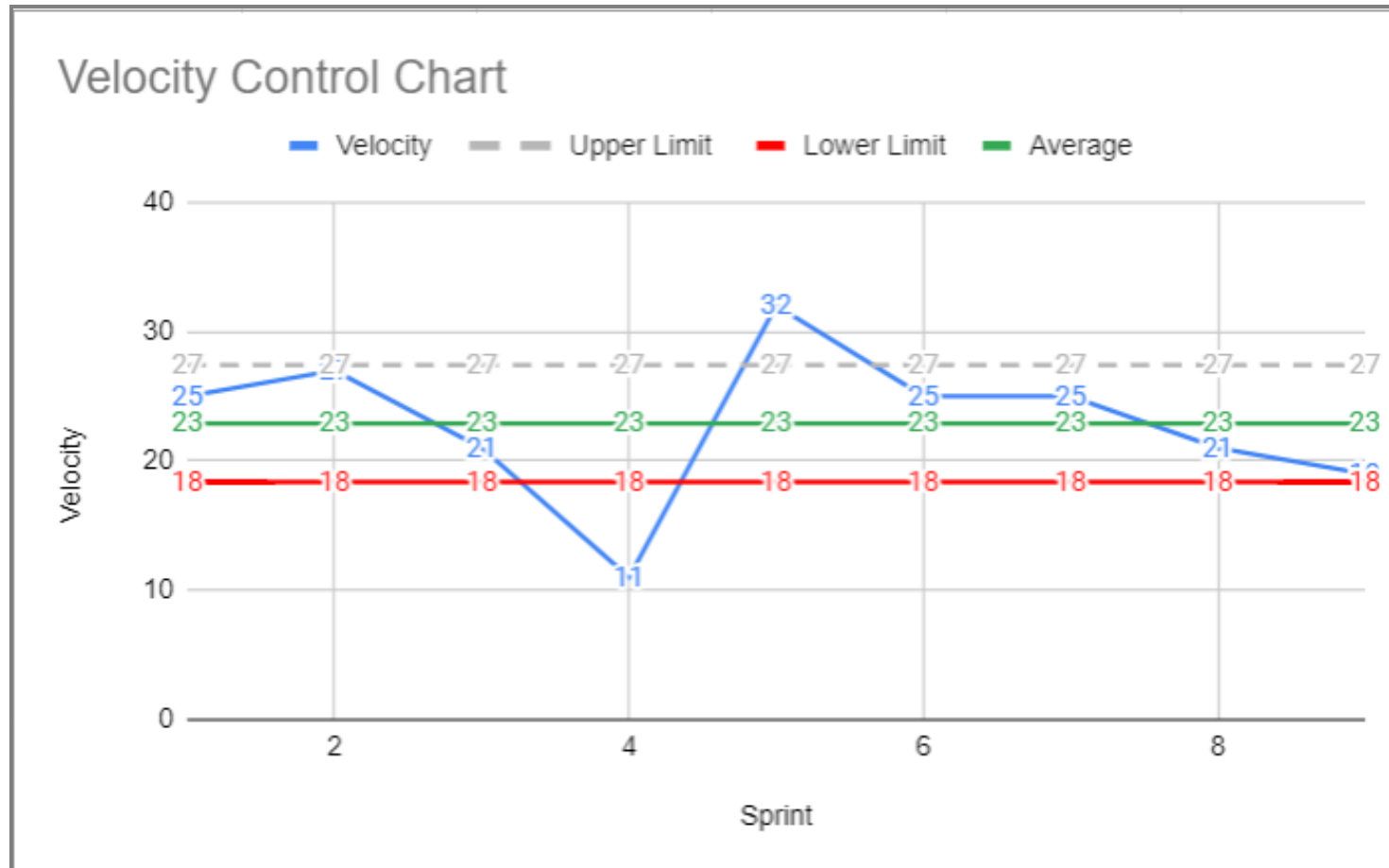


The Flaw Of Averages

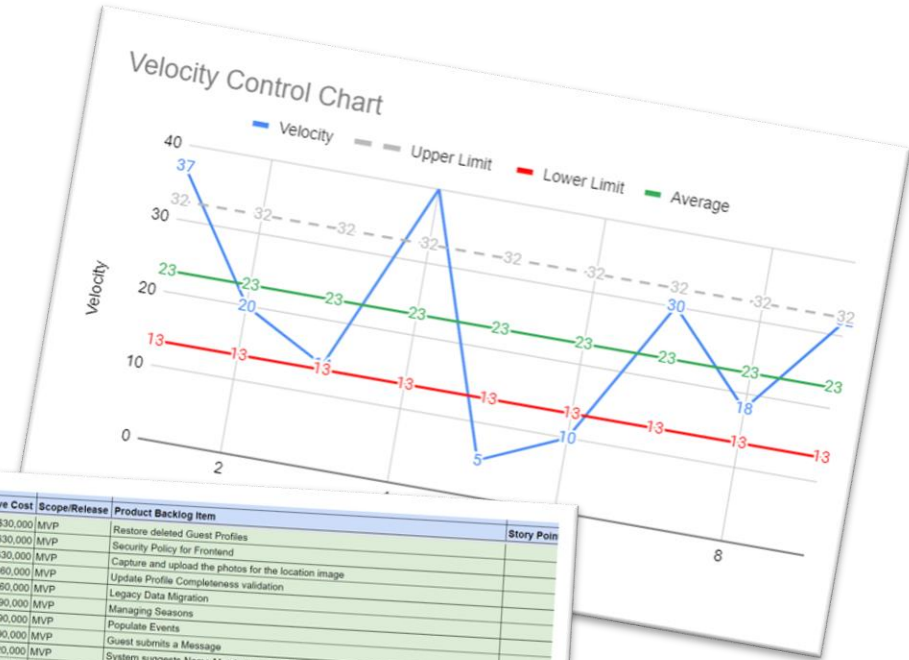
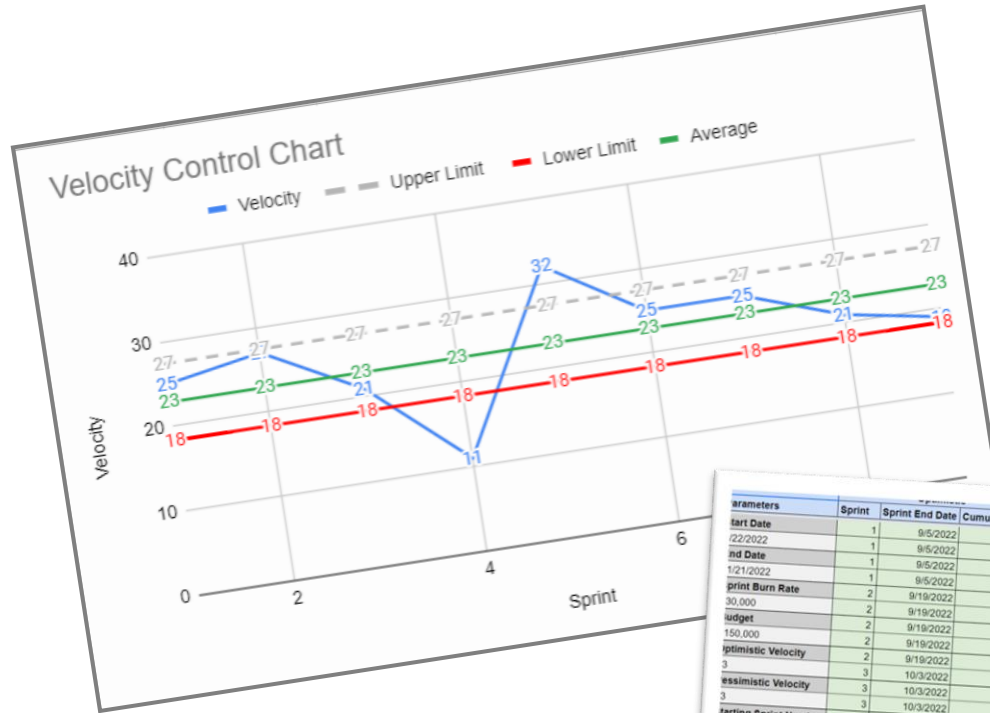
Average
depth: 5.3"



Standard Deviation / Confidence Intervals



Demo: Predictive Data



Parameters	Sprint	Sprint End Date	Cumulative Cost	Sprint	Sprint End Date	Cumulative Cost	Scope/Release	Product Backlog Item	Story Point
Start Date	1	9/5/2022	\$30,000	1	9/5/2022	\$30,000	MVP	Restore deleted Guest Profiles	
End Date	1	9/5/2022	\$30,000	1	9/5/2022	\$30,000	MVP	Security Policy for Frontend	
Print Burn Rate	1	9/5/2022	\$30,000	2	9/19/2022	\$60,000	MVP	Capture and upload the photos for the location image	
Budget	2	9/19/2022	\$60,000	3	10/3/2022	\$90,000	MVP	Legacy Data Migration	
Optimistic Velocity	2	9/19/2022	\$60,000	3	10/3/2022	\$90,000	MVP	Managing Seasons	
Pessimistic Velocity	3	10/3/2022	\$90,000	4	10/17/2022	\$120,000	MVP	Populate Events	
Starting Sprint Number	3	10/3/2022	\$90,000	5	10/31/2022	\$150,000	MVP	Guest submits a Message	
Print Length (Days)	4	10/17/2022	\$120,000	6	11/14/2022	\$180,000	MVP	System suggests Name Match (duplicate detection)	
Primary Constraint	4	10/17/2022	\$120,000	6	11/14/2022	\$180,000	MVP	Site Director Merges or Deletes Guest Profiles	
Time	4	10/17/2022	\$120,000	7	11/28/2022	\$210,000	MVP	Show Transient Fields on Guest Profile	
Calculated Fields	5	10/31/2022	\$150,000	8	12/12/2022	\$240,000	MVP	Site Director edits Weekly Reservations	
Prints Until Deadline	5	10/31/2022	\$150,000	9	12/26/2022	\$270,000	MVP	Admin maintains Eitrchments	
Optimistic Sprints	6	11/14/2022	\$180,000	9	12/26/2022	\$270,000	MVP	Guest is offered Reservation for optional Enrichments	
Pessimistic Sprints	6	11/14/2022	\$180,000	10	1/9/2023	\$300,000	Release 2	Scheduler auto-reserves Guests that are booked for the today through the Weekly option	
Product Backlog Row	7	11/28/2022	\$210,000	13	2/20/2023	\$390,000	Release 2	Scheduler auto-reserves Guests that are booked for the today through the Weekly option	
	8	12/12/2022	\$240,000	14	3/6/2023	\$420,000	Release 2	Site Director posts a Broadcast Message	
	9	12/26/2022	\$270,000	15	3/20/2023	\$450,000	Release 2	Prompt to add newly created Guest to Guestlist	
	10	1/9/2023	\$300,000	17	4/17/2023	\$510,000	Release 3	Capture Delete Reasons	
	11	1/23/2023	\$330,000	18	5/1/2023	\$540,000	Release 3	Scheduler creates Event (determines Location and Services)	
								Event Default Info	
								Admin maintains Services	
								Site Director edits Services Rendered for Guest+Date	
								Site Director updates Services Rendered for a Guest	
								Styling on Admin Page	
								Generate Downloadable Report - All Records	
								Make system self-sufficient	
								Set-up reusable sheet for Reporting	
								Age Override	
								Security block on multiple transient registrations	
								Admin maintains Seasons (needed?)	

Exercise: Predictive Data

Item	Sprint	Sprint End Date	Cumulative Cost	Sprint	Sprint End Date	Cumulative Cost	Scope/Release	Product Backlog Item	Story Point
Initial Setup	1	8/5/2022	\$30,000	1	8/5/2022	\$30,000	MVP	Handle deleted Guest Profiles	1
Security	1	8/5/2022	\$30,000	1	8/5/2022	\$30,000	MVP	Security Policy for Frontend	1
Image Upload	1	8/5/2022	\$30,000	1	8/5/2022	\$30,000	MVP	Capture and upload the photos for the location image	1
Profile Updates	1	8/5/2022	\$30,000	2	8/19/2022	\$60,000	MVP	Update Profile Completeness validation	1
Log Migration	2	8/19/2022	\$60,000	2	8/19/2022	\$60,000	MVP	Legacy Data Migration	2
Seasons	2	8/19/2022	\$60,000	3	10/3/2022	\$90,000	MVP	Managing Seasons	2
Events	2	8/19/2022	\$60,000	3	10/3/2022	\$90,000	MVP	Populate Events	2
Messages	2	8/19/2022	\$60,000	3	10/3/2022	\$90,000	MVP	Guest submits a Message	2
Match Detection	2	8/19/2022	\$60,000	4	10/17/2022	\$120,000	MVP	System suggests Name Match (duplicate detection)	2
Guest Profiles	3	10/3/2022	\$90,000	4	10/17/2022	\$120,000	MVP	Site Director Merges or Deletes Guest Profiles	3
Guest Profiles	3	10/3/2022	\$90,000	5	10/31/2022	\$150,000	MVP	Show Transparent Fields on Guest Profile	3
Reservations	3	10/3/2022	\$90,000	5	10/31/2022	\$150,000	MVP	Site Director sets Weekly Reservations	3
Enrichments	3	10/3/2022	\$90,000	5	10/31/2022	\$150,000	MVP	Admin maintains Enrichments	3
Reservations	4	10/17/2022	\$120,000	6	11/14/2022	\$180,000	MVP	Guest is offered Reservation for optional Enrichments	4
Reservations	4	10/17/2022	\$120,000	6	11/14/2022	\$180,000	MVP	Scheduler auto-reserves Guests that are booked for the today through the Weekly option	4
Reservations	4	10/17/2022	\$120,000	6	11/14/2022	\$180,000	MVP	Site Director posts a Broadcast Message	4
Reservations	4	10/17/2022	\$120,000	7	11/28/2022	\$210,000	MVP	Prompt to add newly created Guest to Guestlist	4
Reservations	4	10/17/2022	\$120,000	7	11/28/2022	\$210,000	MVP	Capture Delete Reasons	4
Reservations	5	10/31/2022	\$150,000	8	12/12/2022	\$240,000	MVP	Scheduler creates Event (Determines Location and Services)	5
Reservations	5	10/31/2022	\$150,000	9	12/26/2022	\$270,000	MVP	Event Default info	5
Reservations	5	10/31/2022	\$150,000	9	12/26/2022	\$270,000	MVP	Admin maintains Services	5
Reservations	6	11/14/2022	\$180,000	9	12/26/2022	\$270,000	MVP	Site Director sets Services Rendered for Guest Data	6
Reservations	6	11/14/2022	\$180,000	10	1/9/2023	\$300,000	Release 2	Site Director updates Services Rendered for a Guest	6
Reservations	6	11/14/2022	\$180,000	11	1/23/2023	\$330,000	Release 2	Styling on Admin Page	6
Reservations	7	11/28/2022	\$210,000	13	2/20/2023	\$390,000	Release 2	Generate Downloadable Report - All Records	7
Reservations	8	12/12/2022	\$240,000	14	3/6/2023	\$420,000	Release 2	Make system self-aware	8
Reservations	8	12/12/2022	\$240,000	14	3/6/2023	\$420,000	Release 2	Set-up Invoice sheet for Reporting	8
Reservations	9	12/26/2022	\$270,000	15	3/20/2023	\$450,000	Release 2	Age Drame	9
Reservations	10	1/9/2023	\$300,000	17	4/17/2023	\$510,000	Release 3	Security lock on multiple transient registrations	10
Reservations	11	1/23/2023	\$330,000	18	5/1/2023	\$540,000	Release 3	Admin maintains Seasons (needed?)	11

- Roll a 10-sided die and add 5 for your pessimistic velocity.
- Roll a 10-sided die and add 15 for your optimistic velocity.
- Role play as a Product Owner communicating this forecast to a Stakeholder.
- Roll an 8-sided die and subtract that from your pessimistic velocity.
- Have that same conversation.

Other Forecasting Techniques


Calculate a confidence interval from historical data

27
34
35
38
39
40
40
41
45

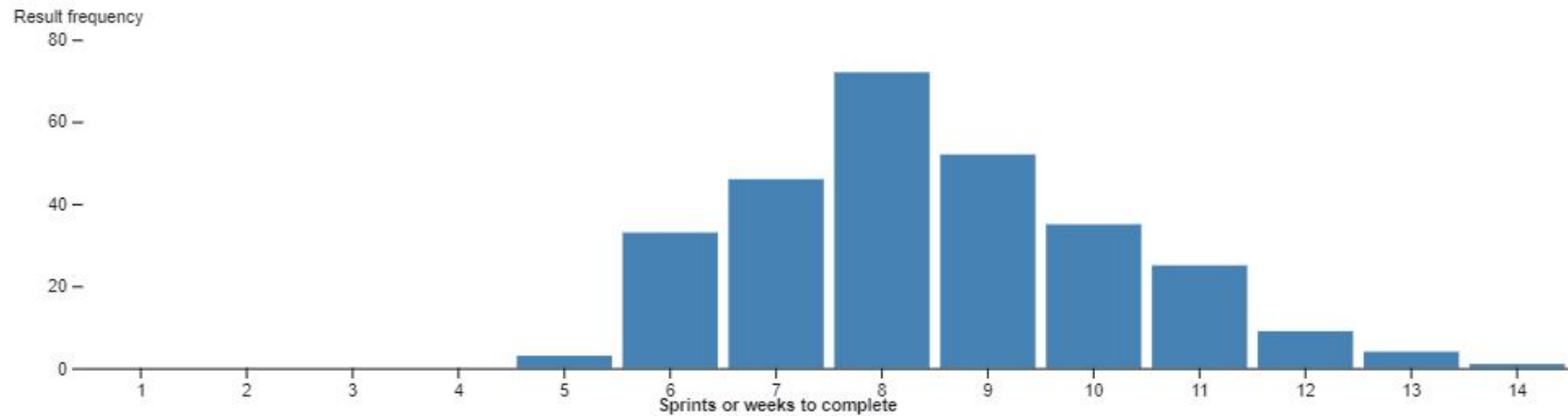
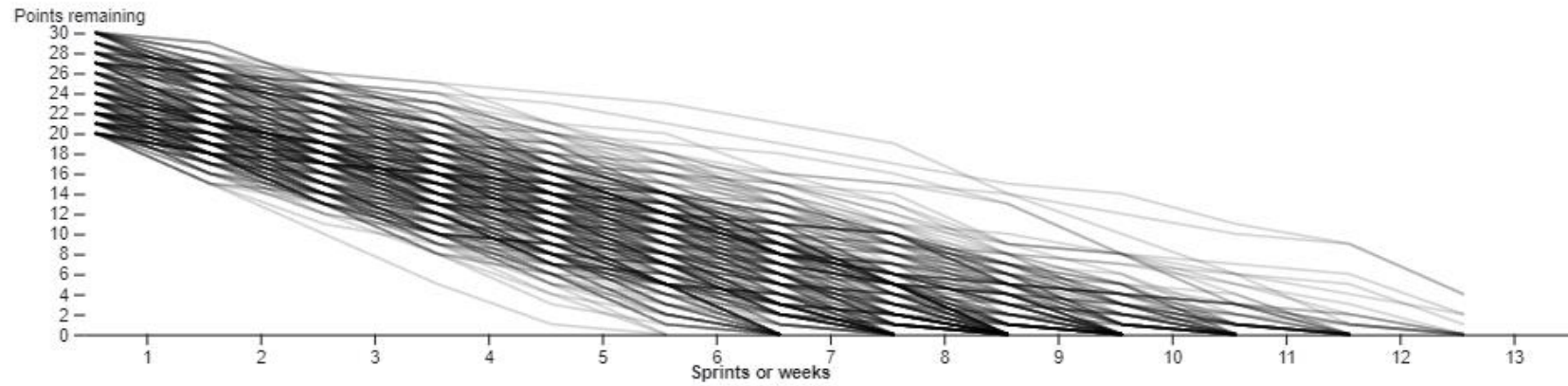
Sorted Velocities

90% confidence interval

# of historical iterations	Iterations to throw out from each end
0-7	0
8-10	1
11-12	2
13-15	3
16-17	4
18-20	5
21-22	6
23-25	7
26+	8

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Monte Carlo Simulation



Qualities Of A Good Metric



**Goal
Focused**



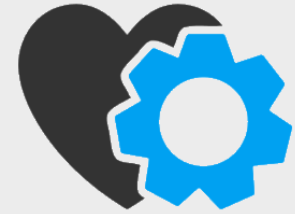
Clear



Actionable

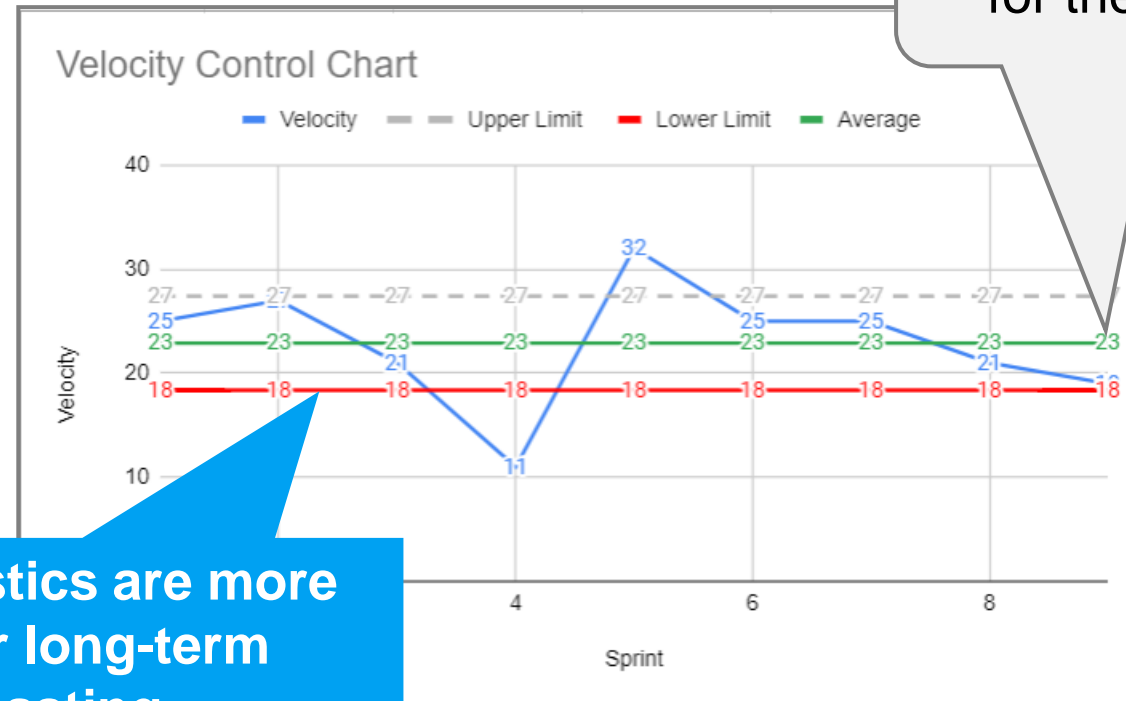


Trusted



**Positive
Behavior**

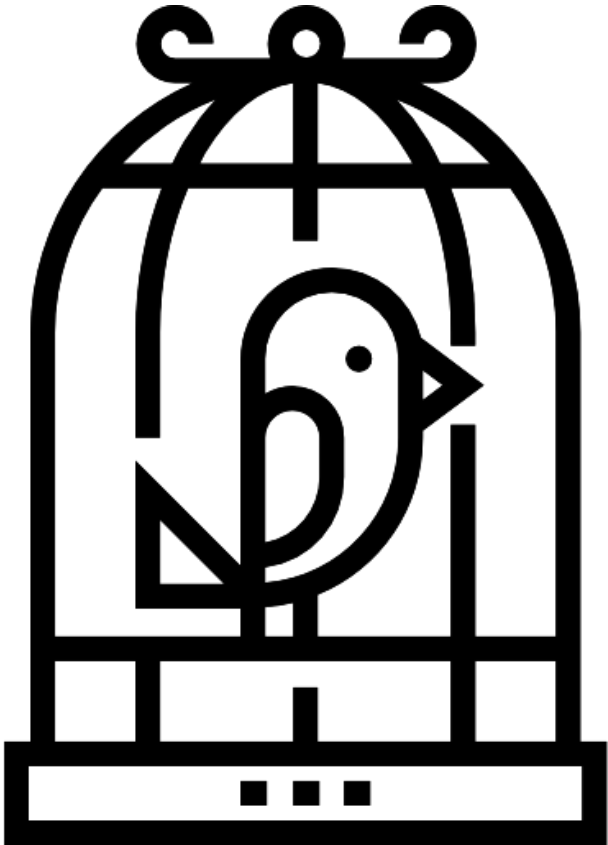
Short Term Forecasting



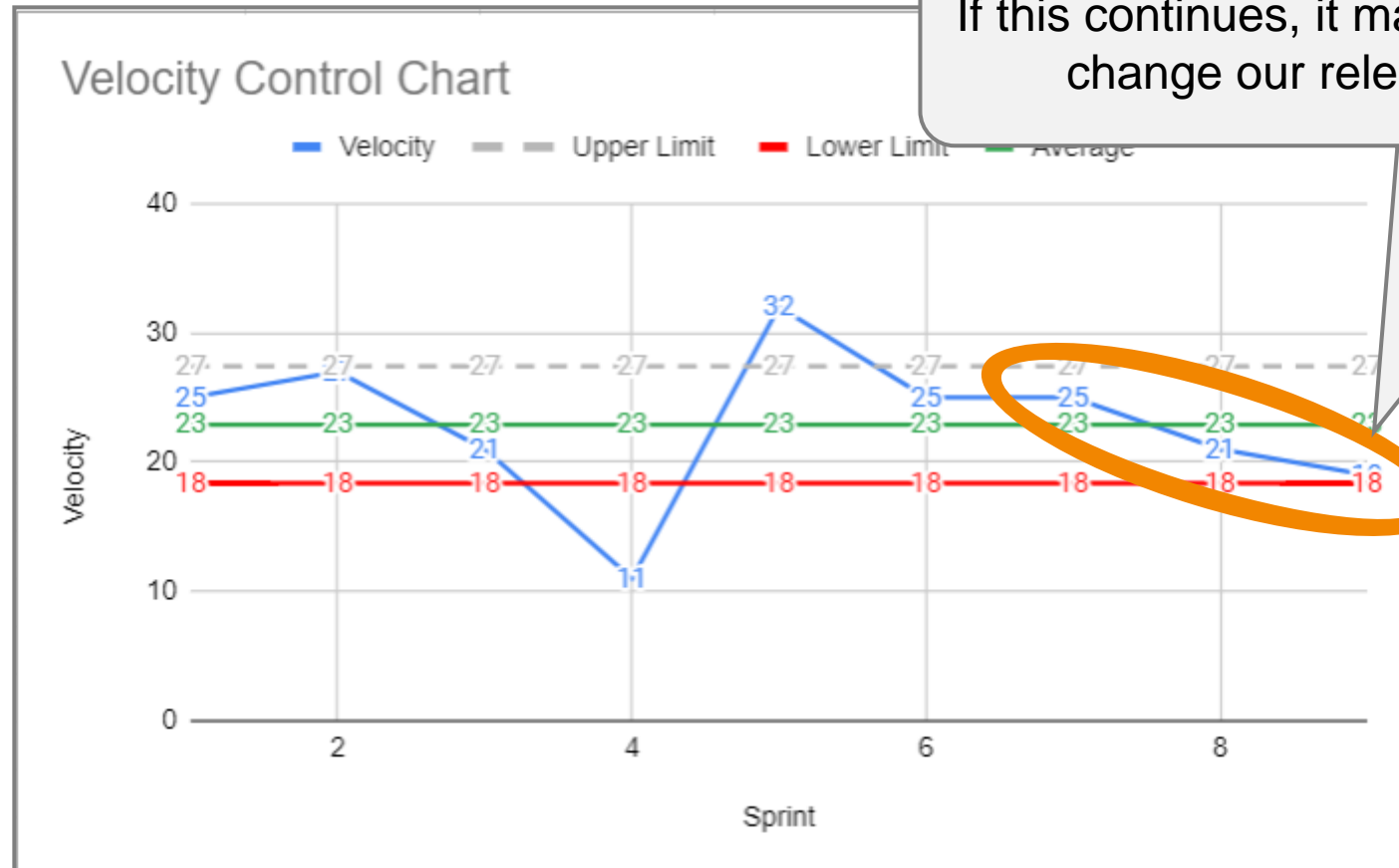
What will be our velocity for the **next** sprint?

These statistics are more suited for long-term forecasting

Canary In The Coalmine

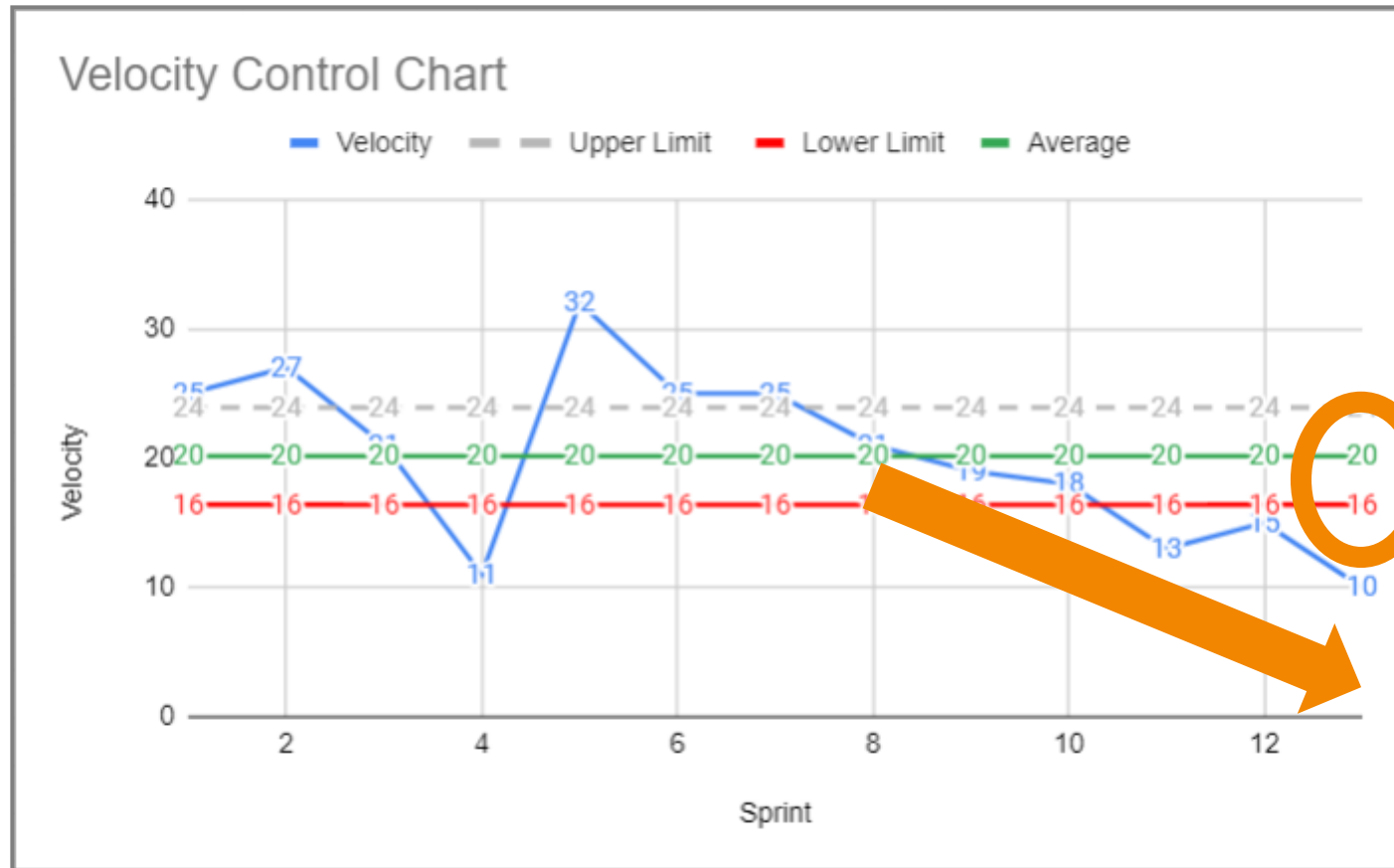


I've Got A Bad Feeling About This



If this continues, it may significantly change our release plan.

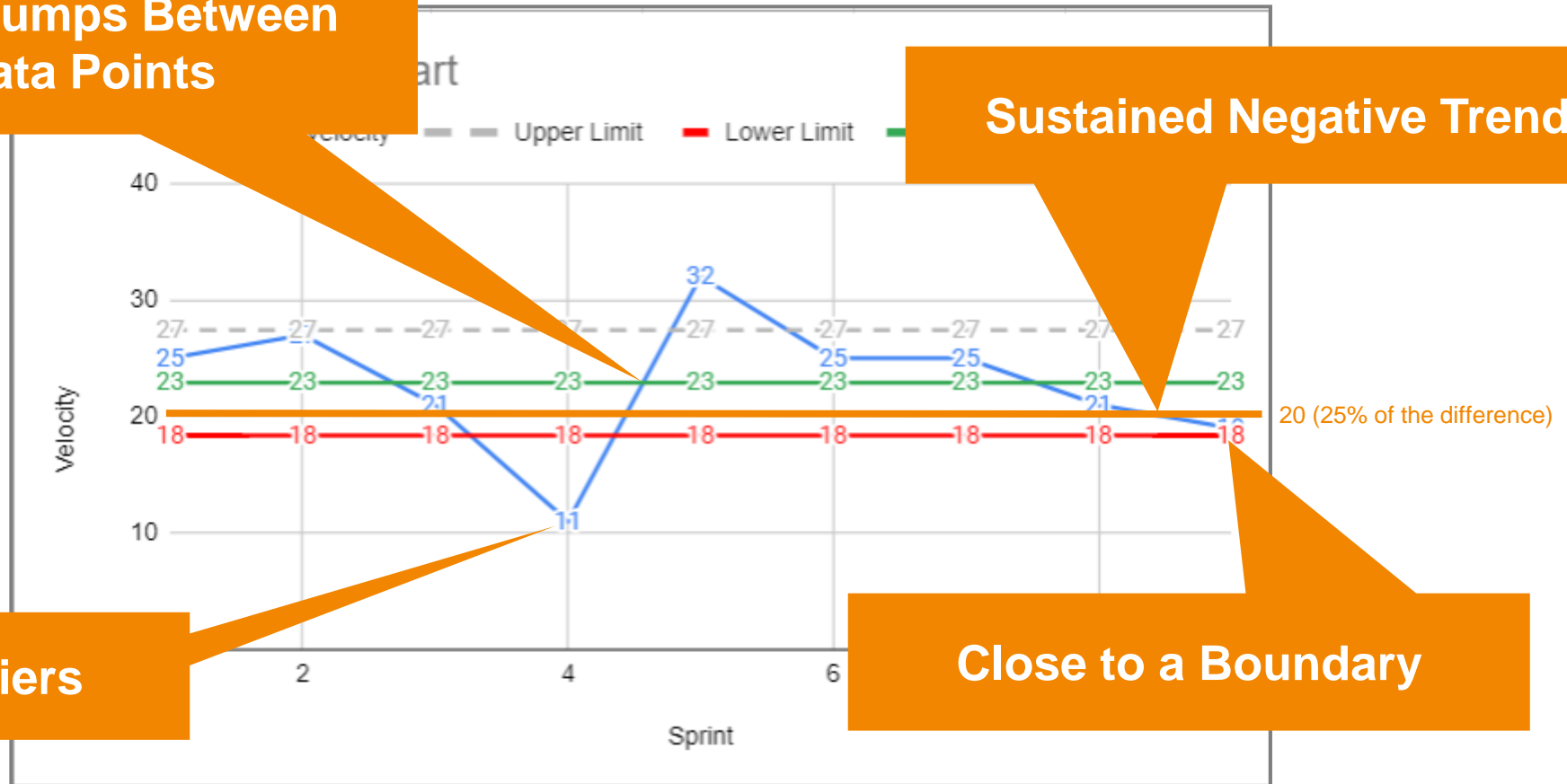
Early Warning Signs



Boundaries And Thresholds

Large Jumps Between Data Points

Sustained Negative Trends

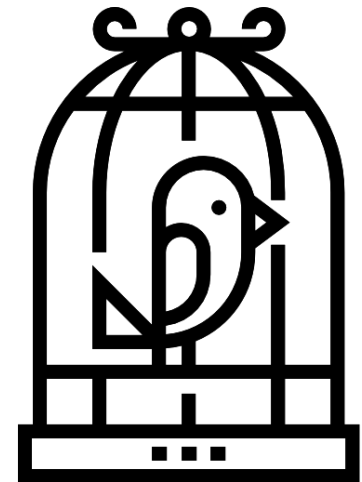


Outliers

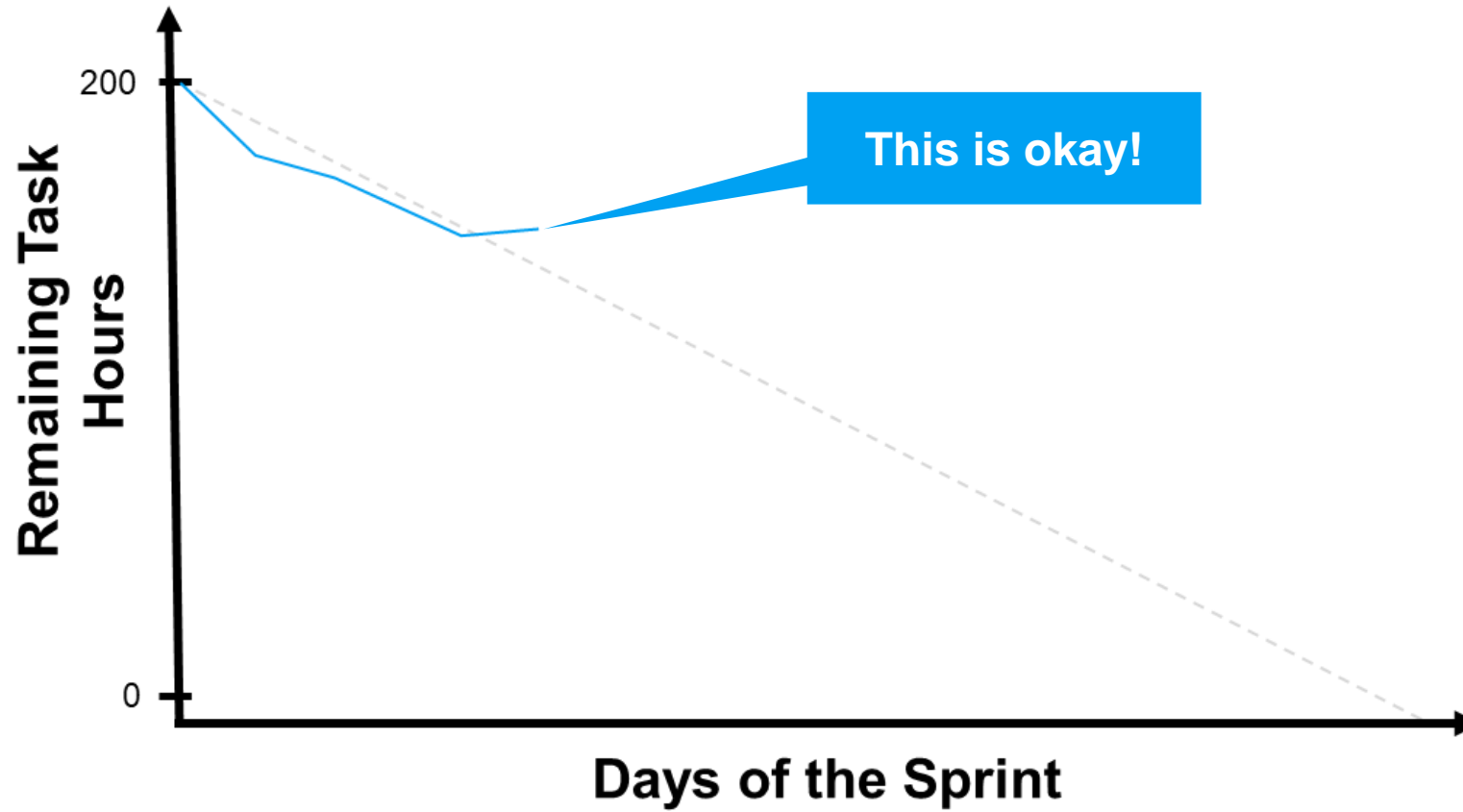
Close to a Boundary

Exercise: Early Warnings

- Use the quality metric you discussed in our previous exercise.
- Discuss what thresholds and boundaries you might set for it.
- If you have time, discuss other metrics and their thresholds and boundaries.



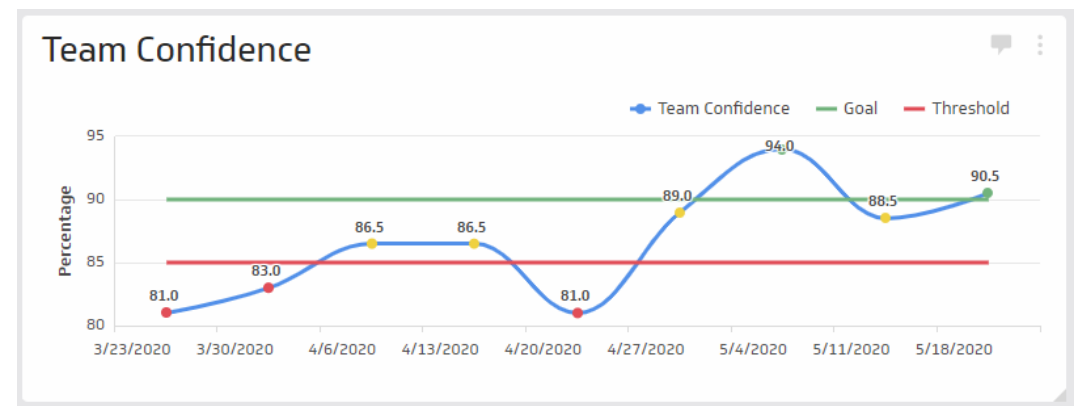
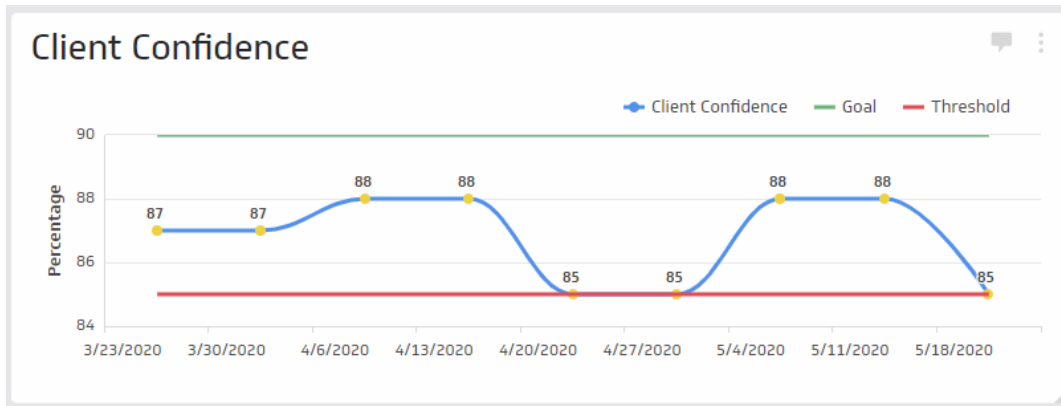
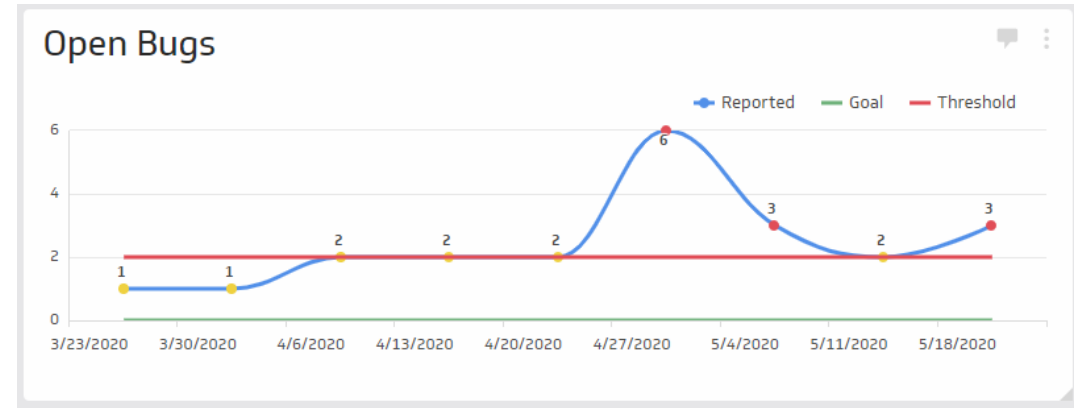
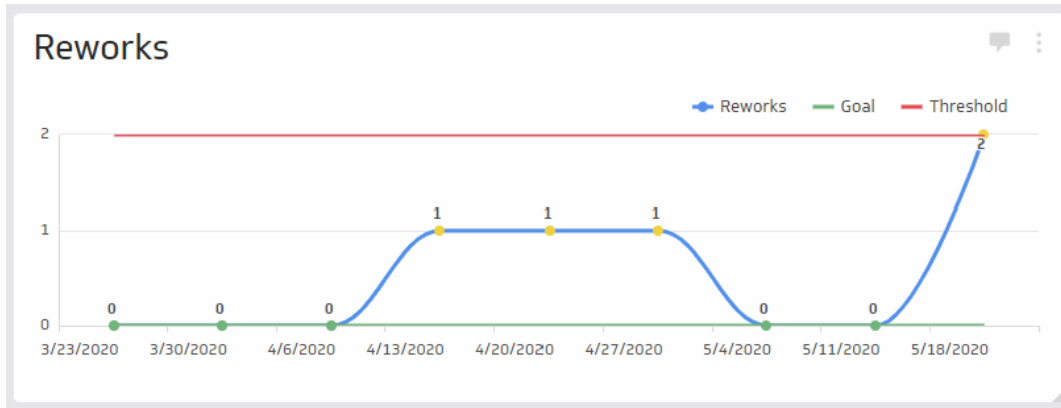
Don't Sweat The Small Stuff



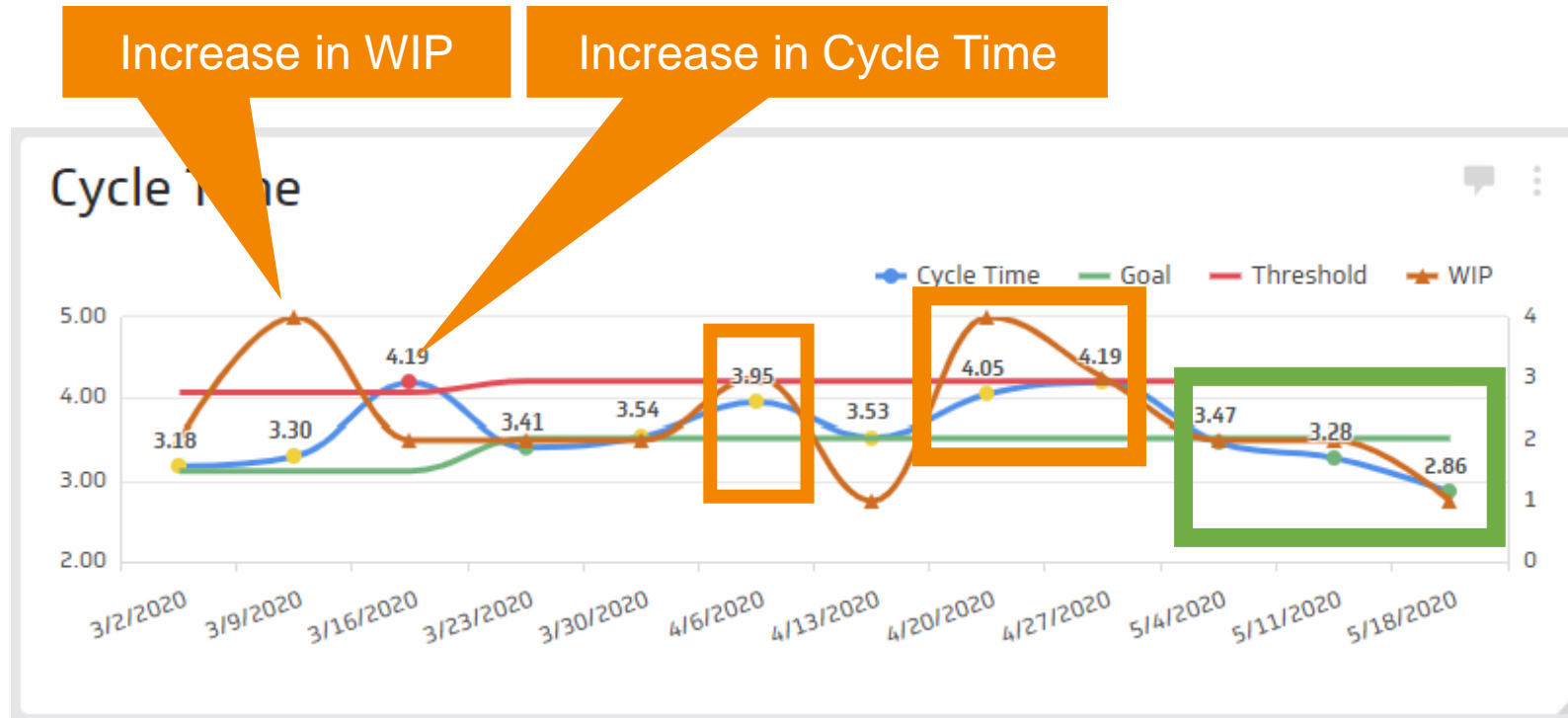
Predictive Patterns



Predictive Patterns

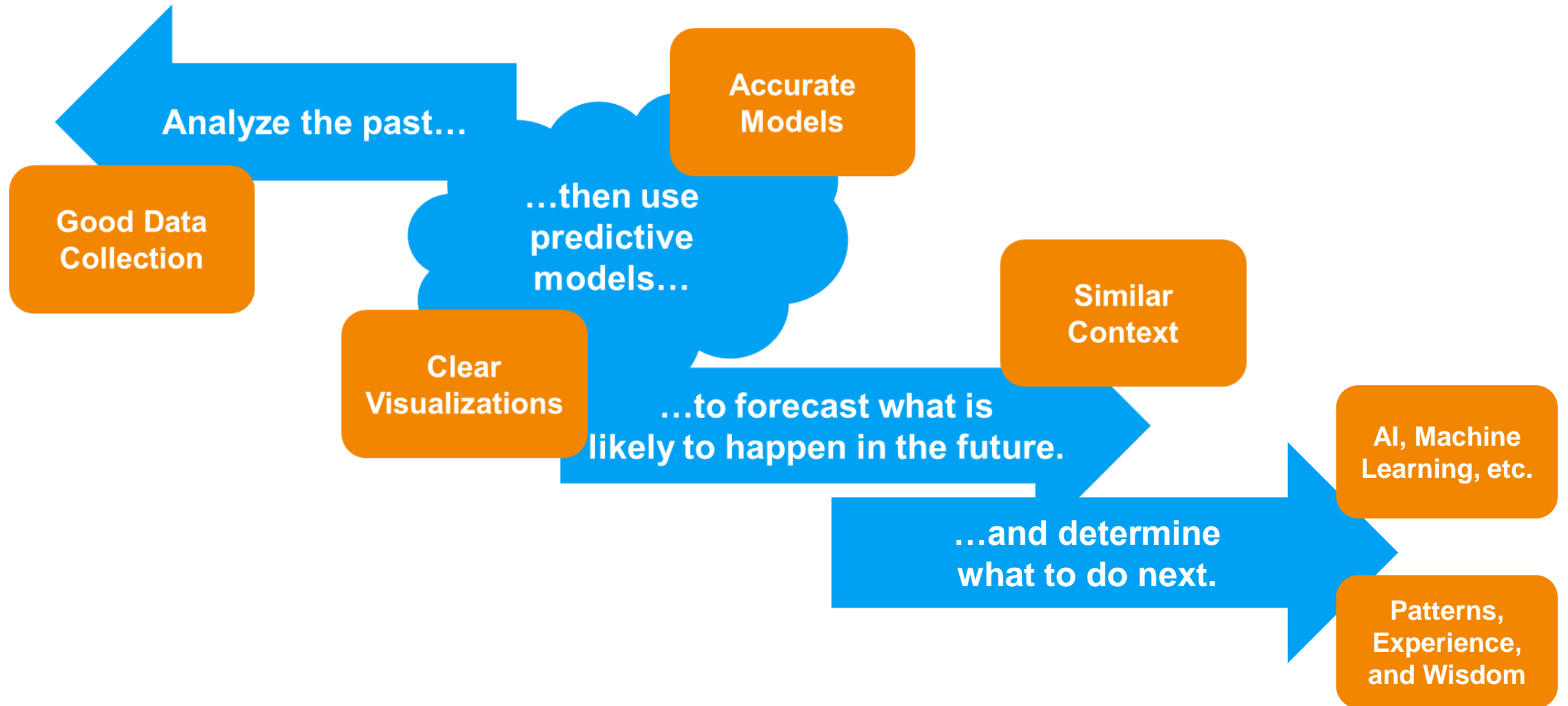


Hate To Say “I Told You So”

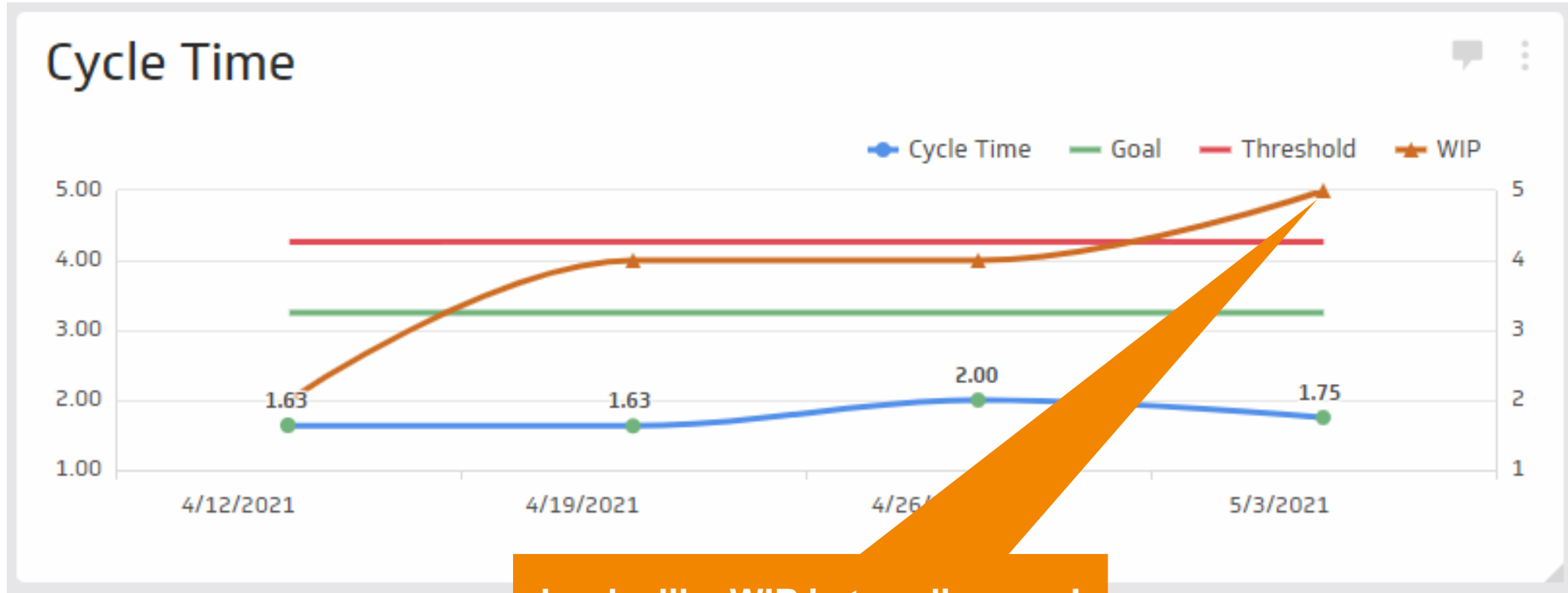


**Prescriptive:
What Should We Do?**

Learning From The Past

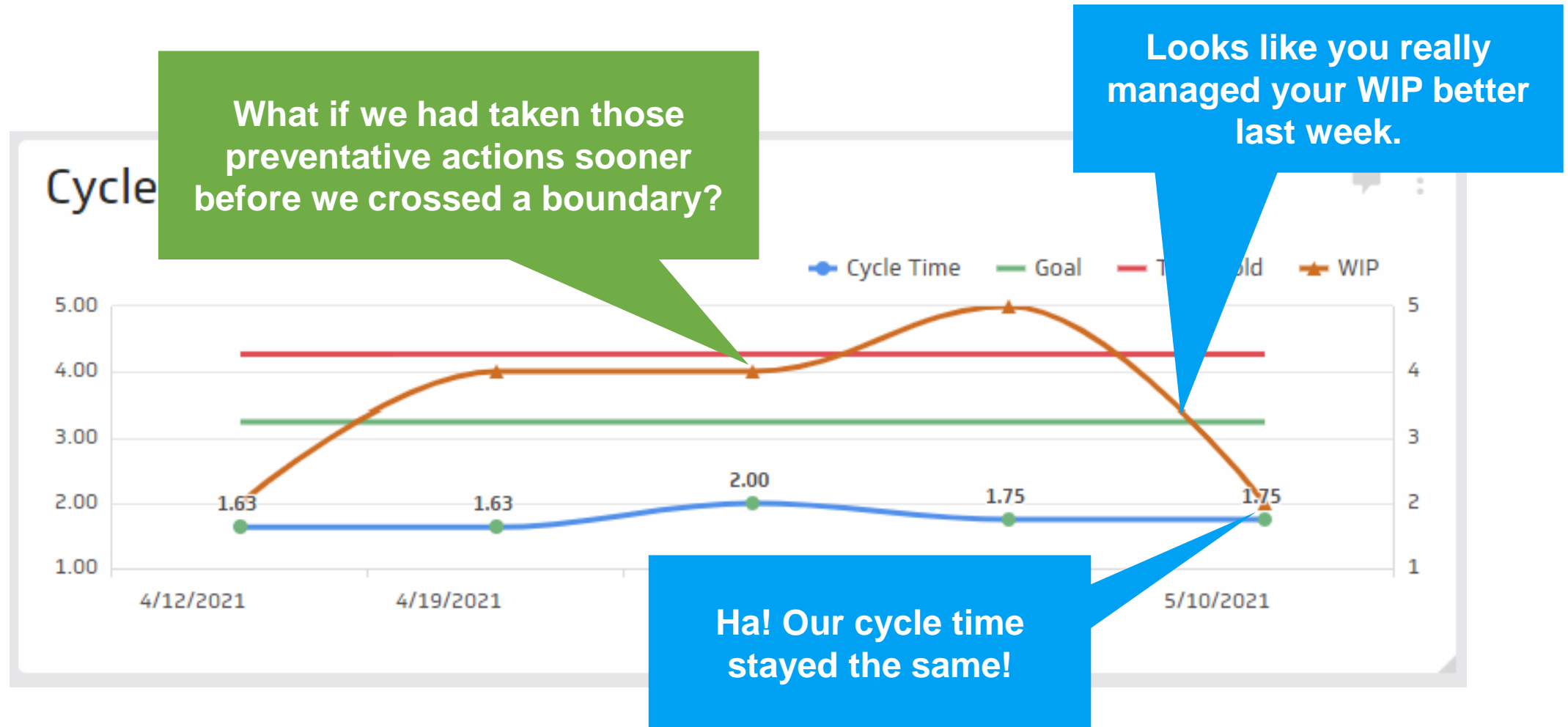


Getting Ahead Of Potential Risks

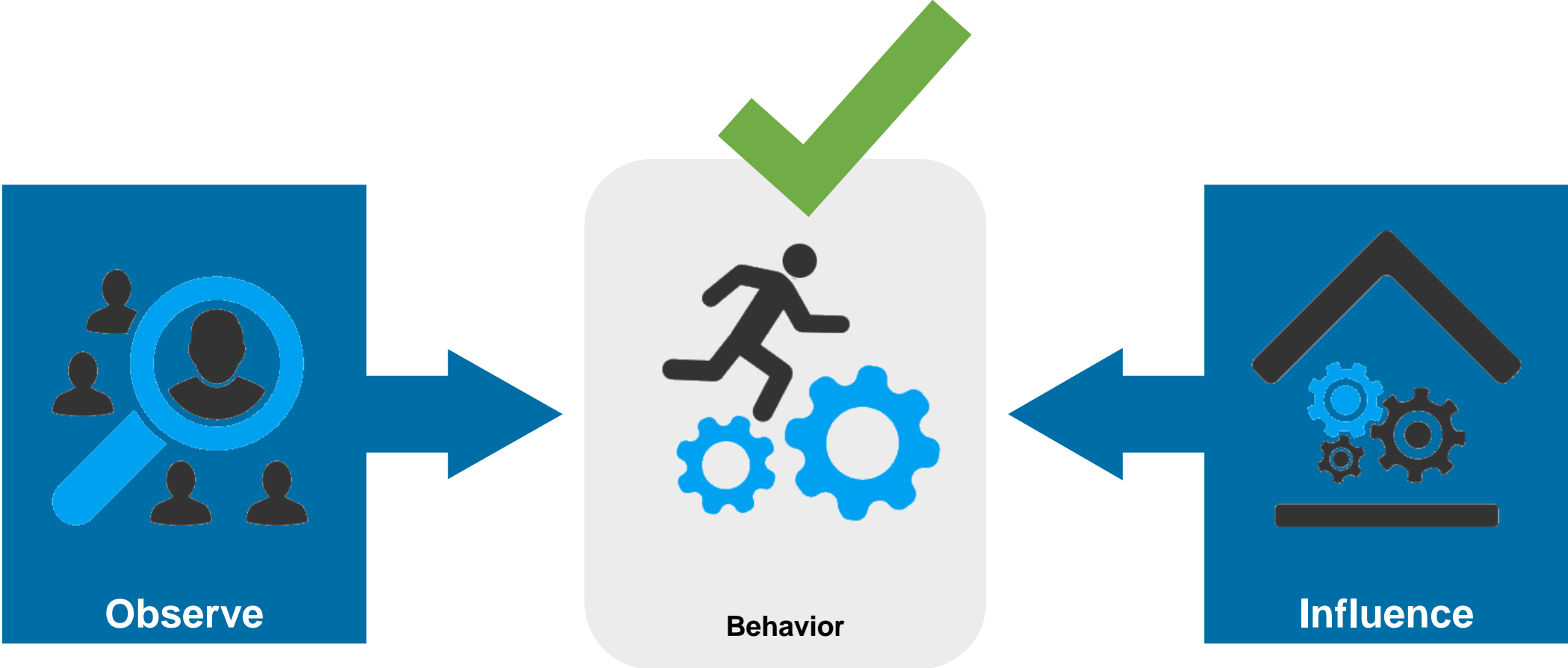


Looks like WIP is trending up. I bet your cycle time will go up as well!

Getting Ahead Of Potential Risks



Inspect And Adapt

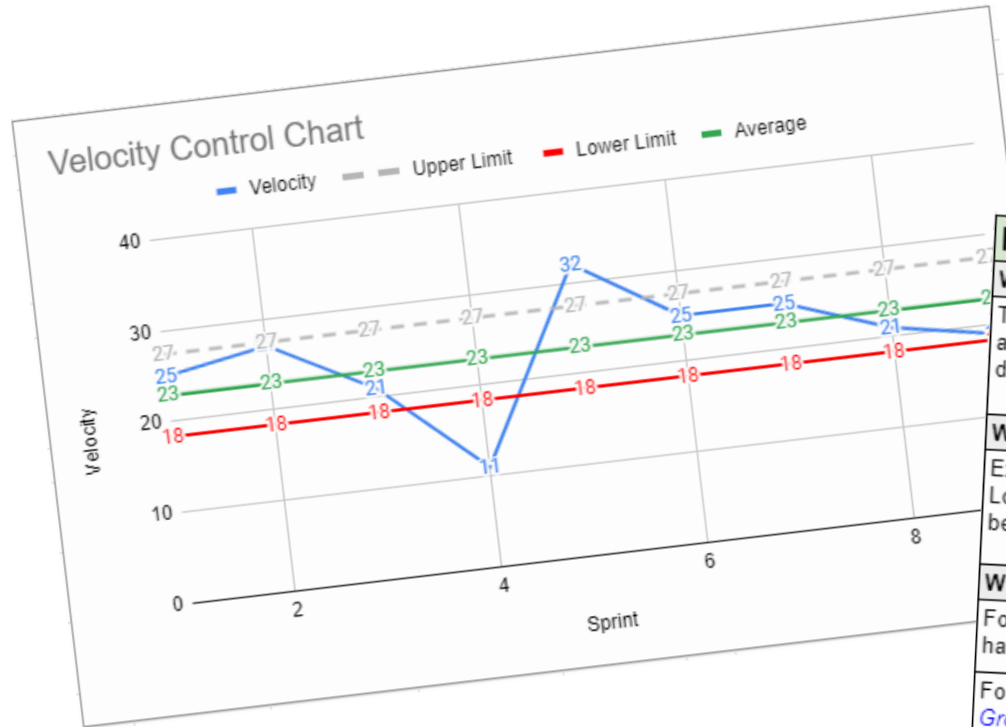


Observe

Behavior

Influence

Demo: Prescriptive Data Analytics



Report Guidance

What does this report show?

This report tracks the velocity (every PBI that gets to "Done" in the sprint) for each sprint. It also calculates the average as well as the statistical upper and lower bounds of the distribution of the reported data.

What should we be looking for?

Expected behavior is that velocity stays within the upper and lower bounds consistently. Look for a downward trend that is getting close to the lower bound or any velocity that is below the lower bound. Also investigate the causes of any big spikes in either direction.

Where should I look for deeper diagnostics?

For outliers below the lower bound, look at the [Velocity Breakdown](#) to see what story may have taken more time than expected.

For stories that took longer than expected, review their [Task Hours Breakdown](#) and [Task Growth](#) reports.

Review the [Sprint Analysis Log](#) to see what situations or complications occurred during the sprint that might give some insight on what happened.

More Details

Video on [Standard Deviation and Confidence Intervals](#).

Putting It All Together



Descriptive
(What happened?)



Diagnostic
(Why did it happen?)



Predictive
(What's likely to happen?)



Prescriptive
(What should we do?)

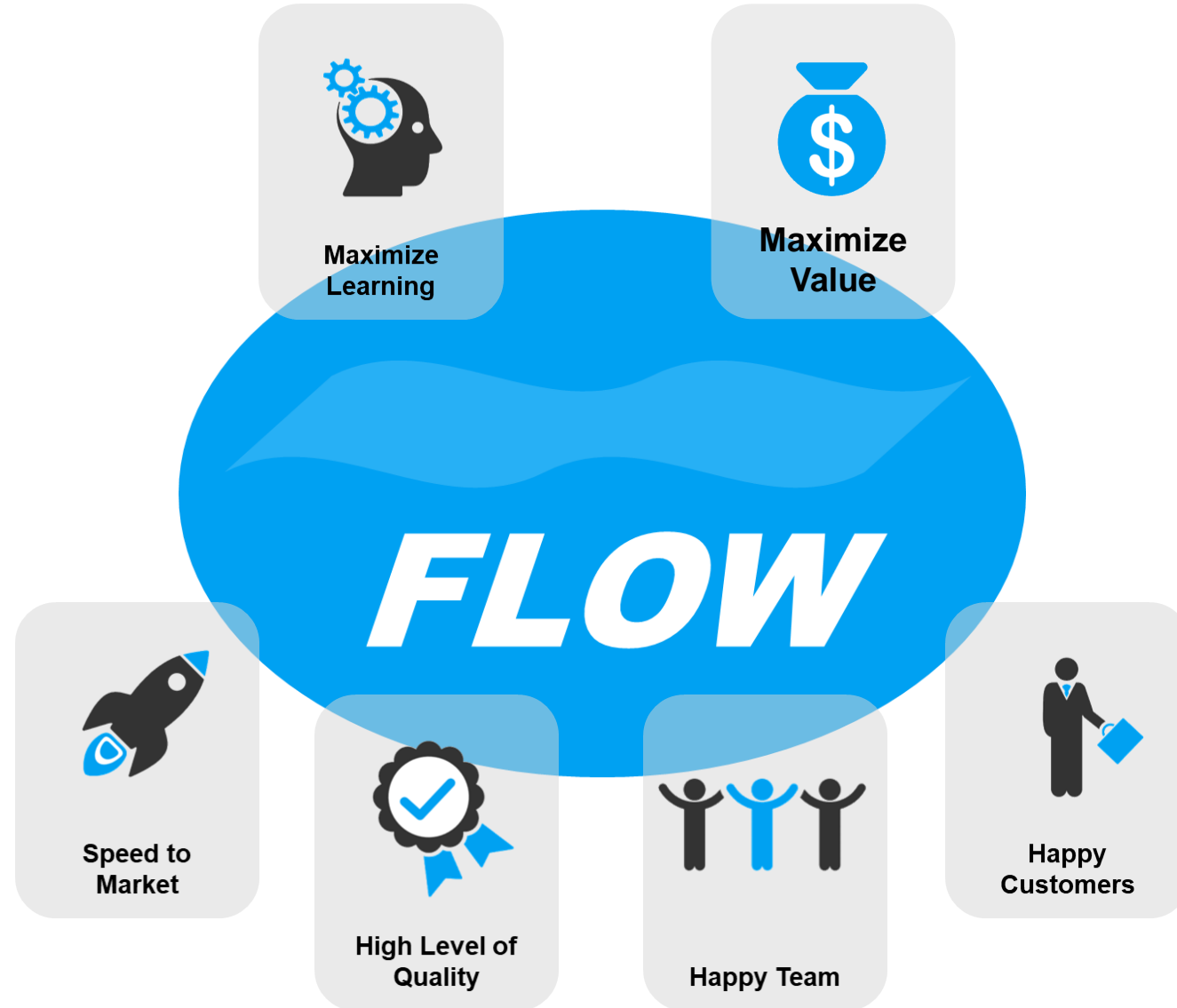
Exercise: Patterns

- Choose a metric you have used previously.
- Discuss what typical patterns you might see in this metric.
- Discuss how you might get ahead of those patterns and what you would prescribe to avoid potential issues.



Maximizing Flow

Flow



Maximizing Flow

Help The System Reveal Itself

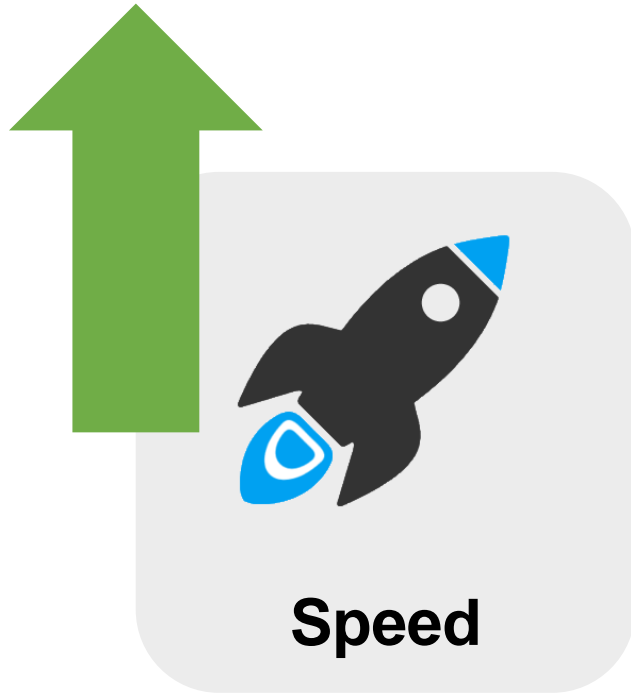
Stabilize The System

Identify Constraints In The System

Relieve the Constraints

Iteratively Improve The System

Metrics Are Connected



Balanced Metrics Quadrant



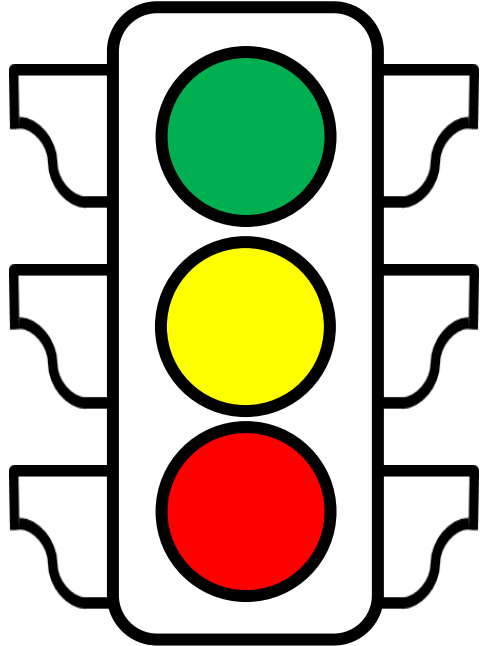
“Timely” Metrics



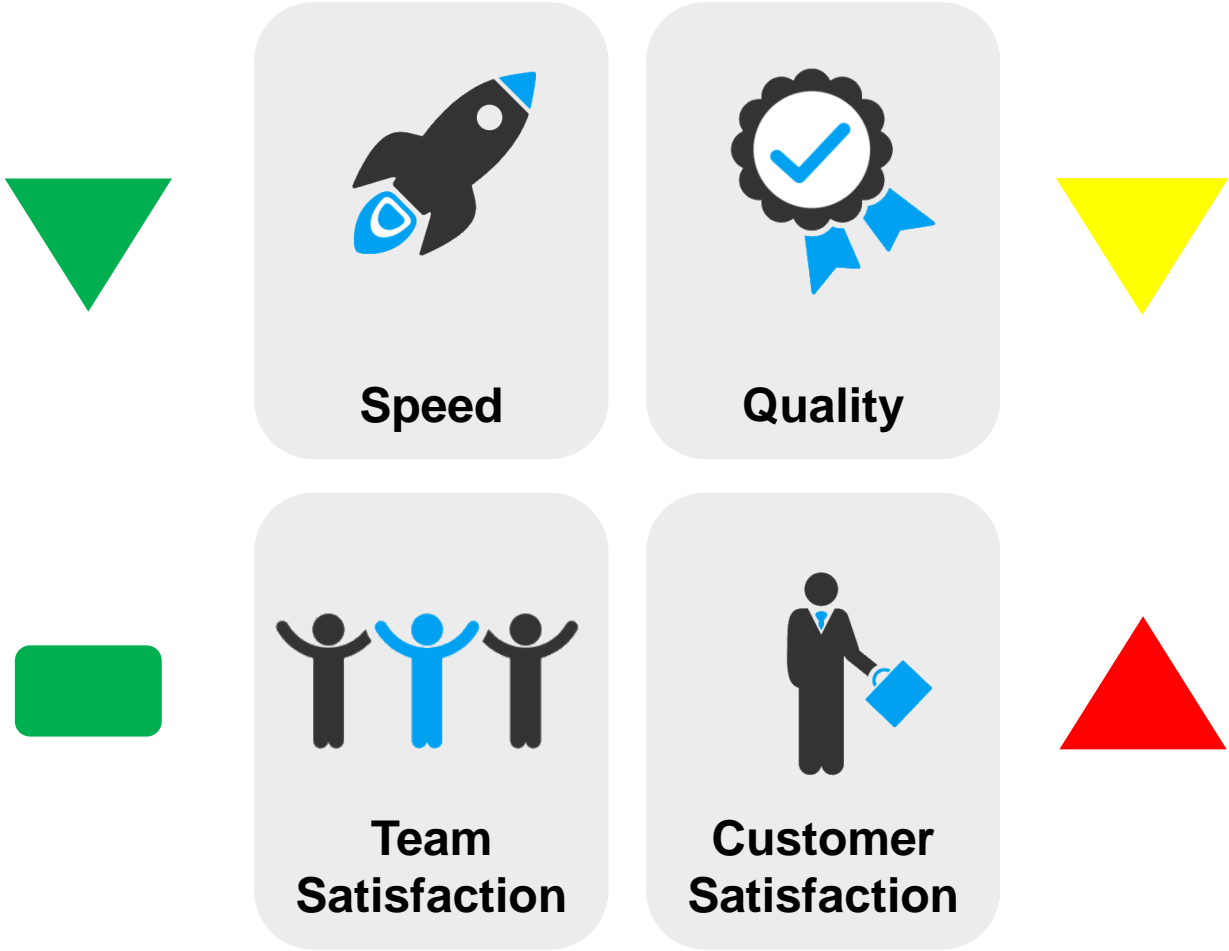
Balanced Metrics Quadrant



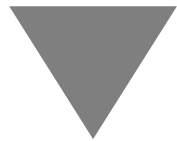
Metric Dashboards



Trend Dashboards



Trend Dashboards



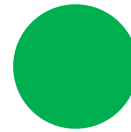
**Trending in a
negative direction**



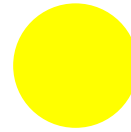
**No significant
change**



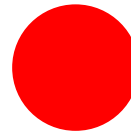
**Trending in a
positive direction**



Within thresholds

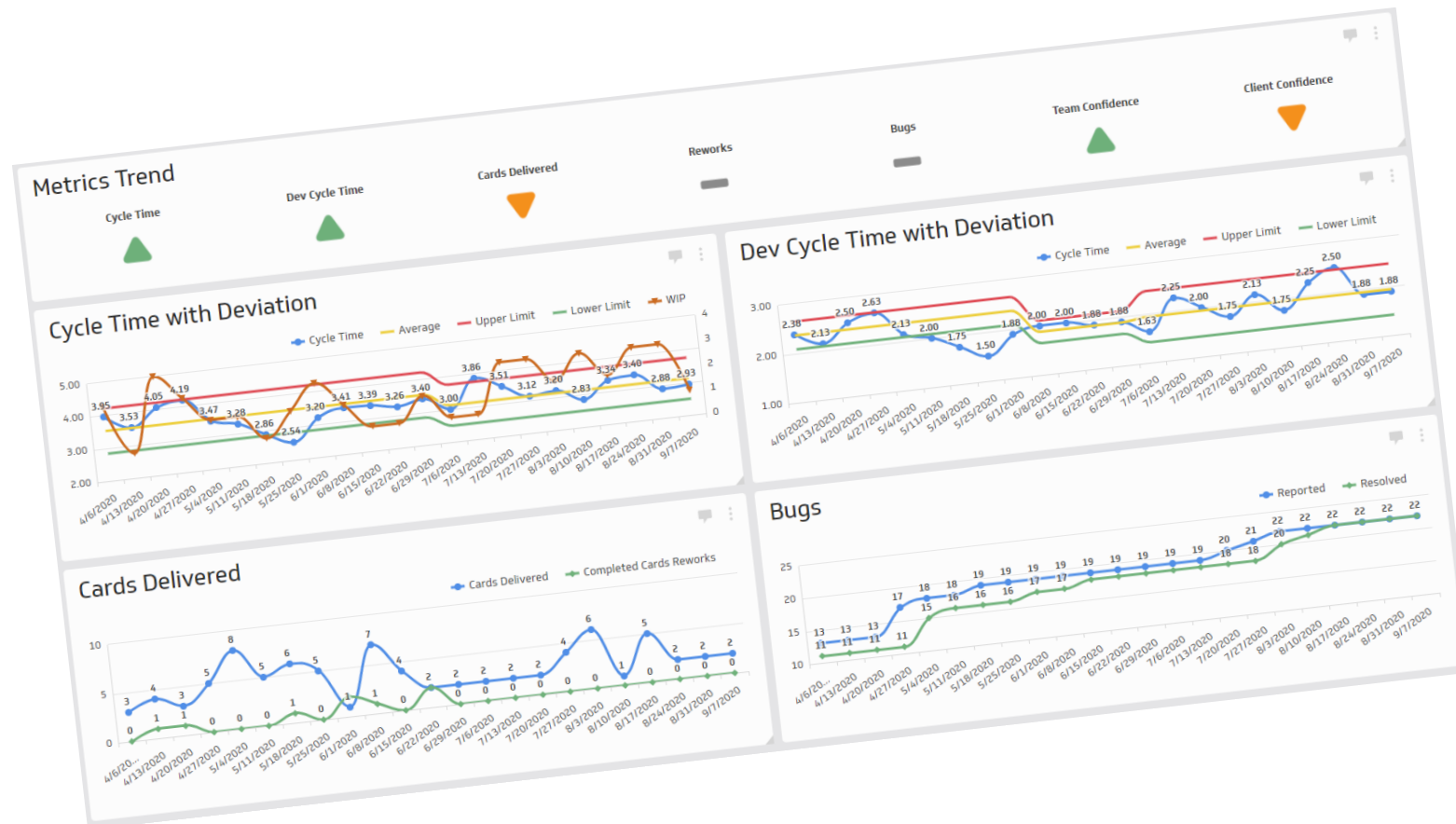


**Outside threshold
but within boundary**



Outside boundaries

Demo: Metrics Dashboard

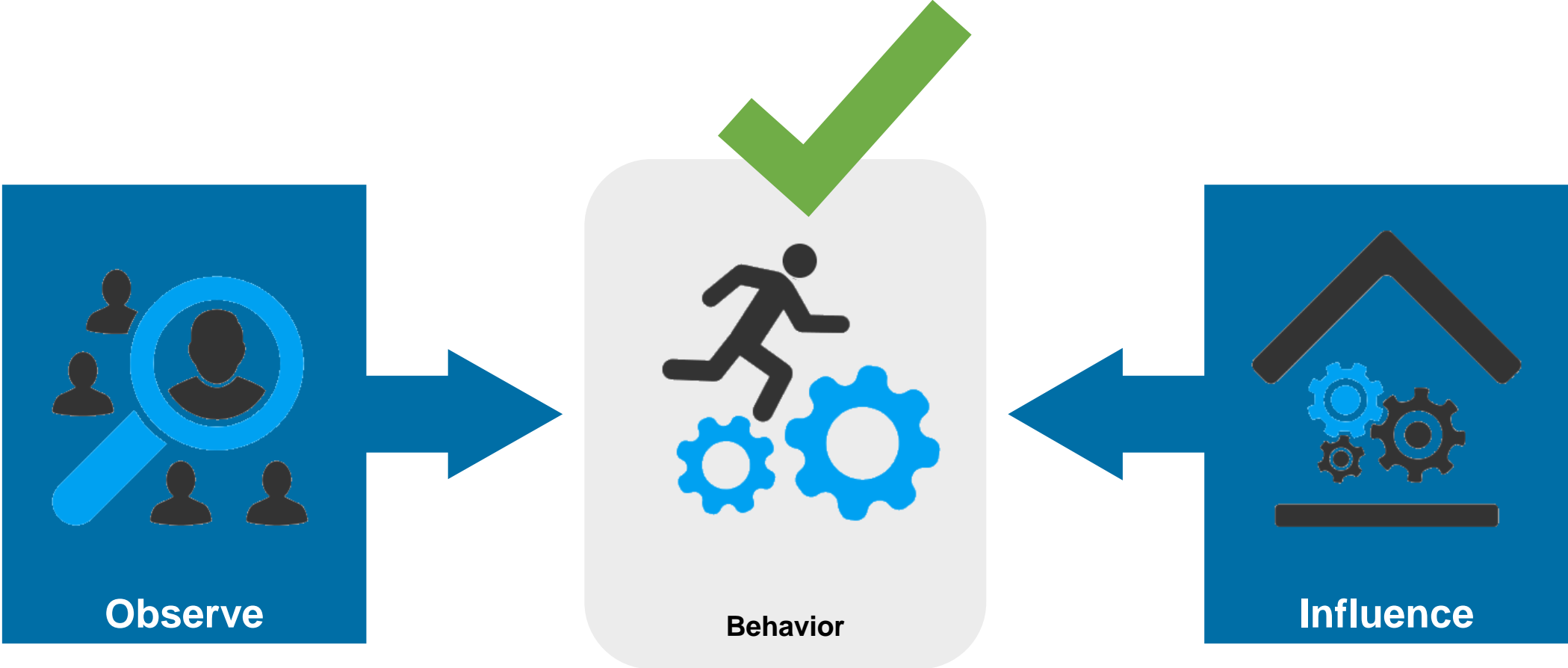




What metrics do you
include on your
dashboards?

Creating A Culture Of Continuous Improvement

Inspect And Adapt



Observe

Behavior

Influence

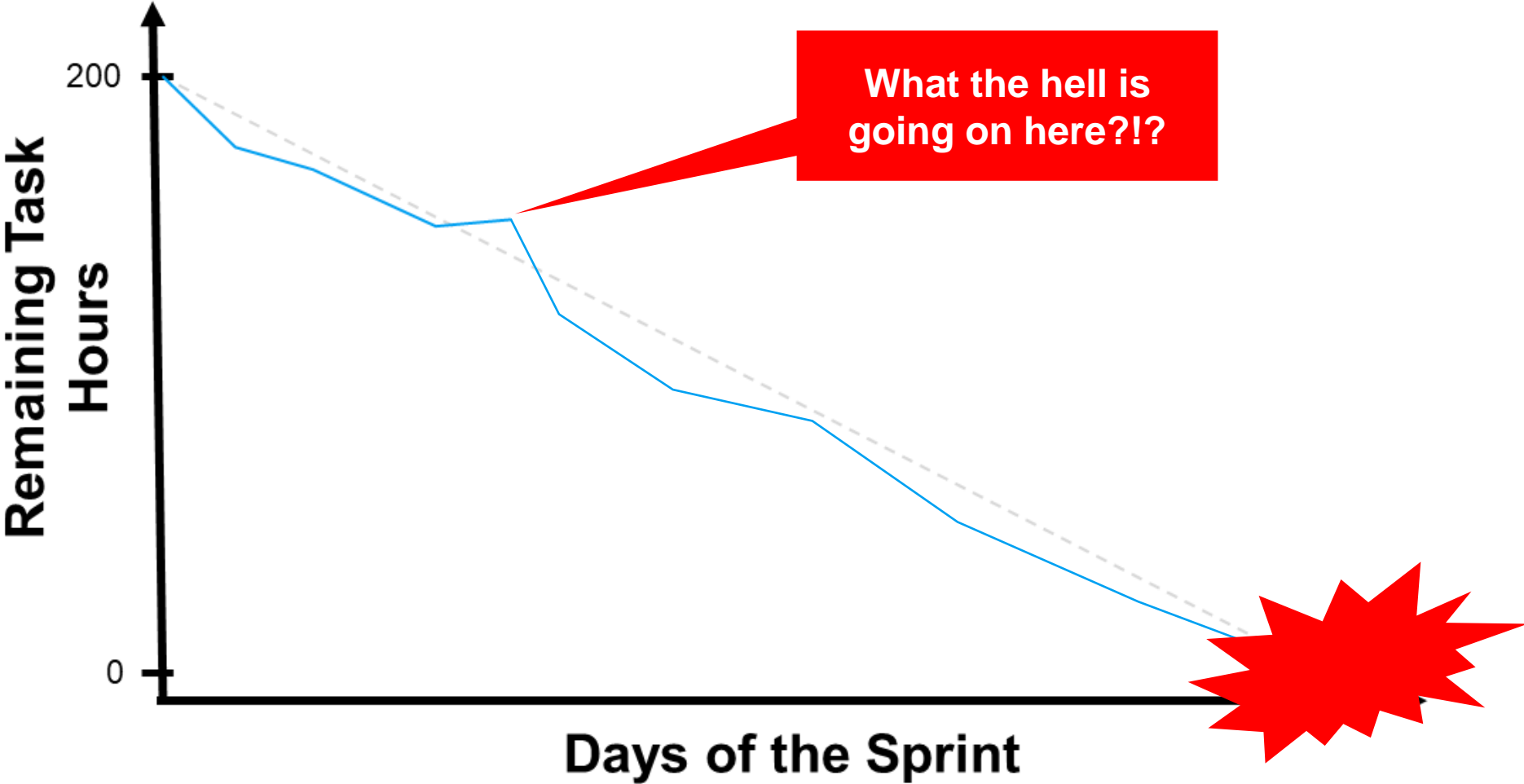
Failure

“I have not failed. I’ve just found 10,000 ways that won’t work.”

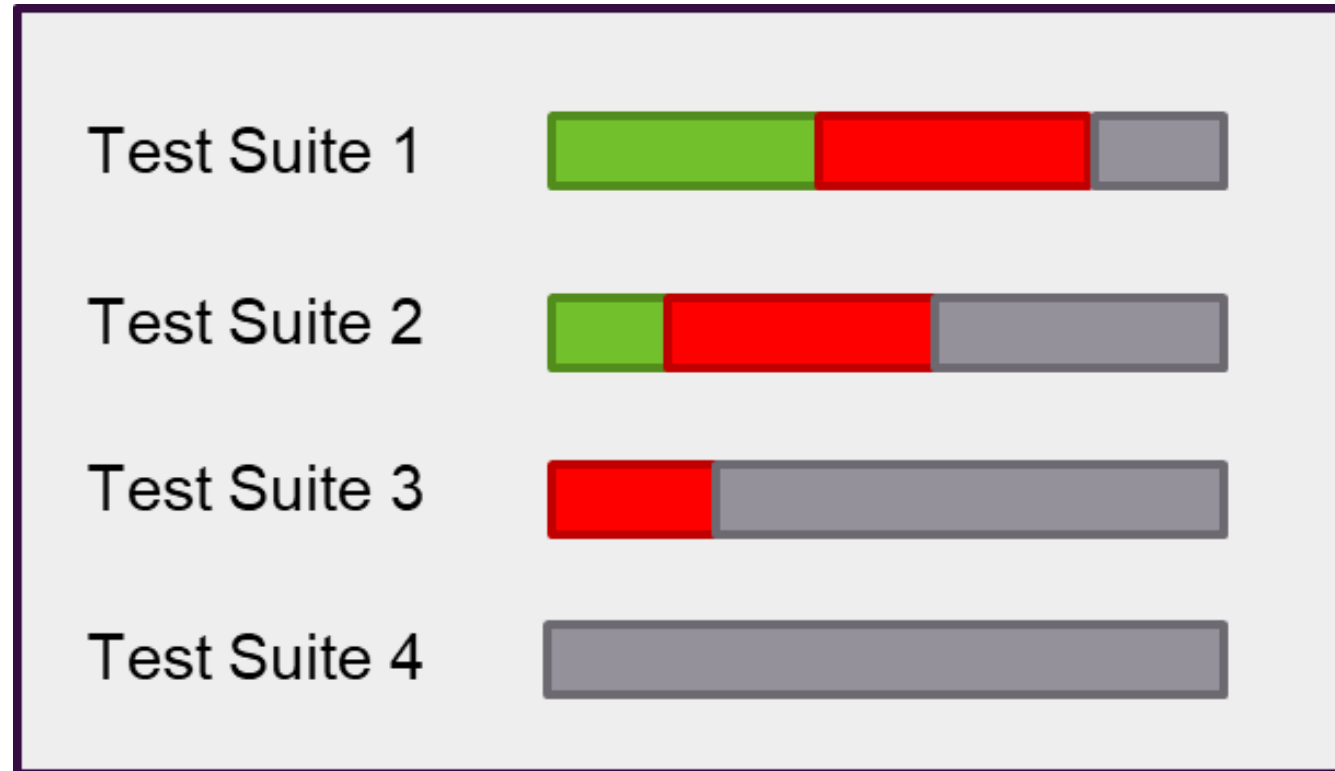
- Thomas Edison



Avoiding A Culture Of Fear



Avoiding A Culture Of Fear



Leadership Creates The System

“A bad system (process) will beat a good person every time.”

- Edwards Deming



Leadership Dictates Culture

“Culture eats process
(strategy) for lunch.”

- *Peter Drucker*



Approach Metrics With Curiosity

Metrics Trend

Cycle Time Dev Cycle Time Cards Delivered Reworks Bugs

This looks great!
Good job!

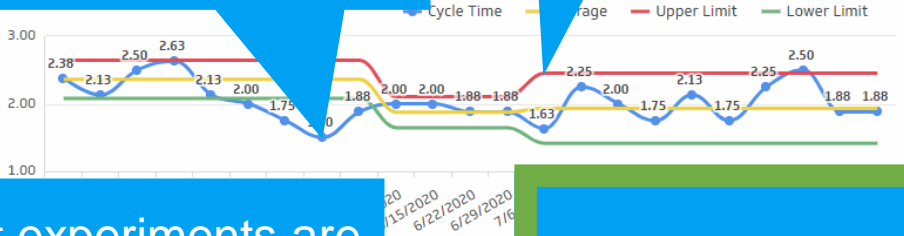
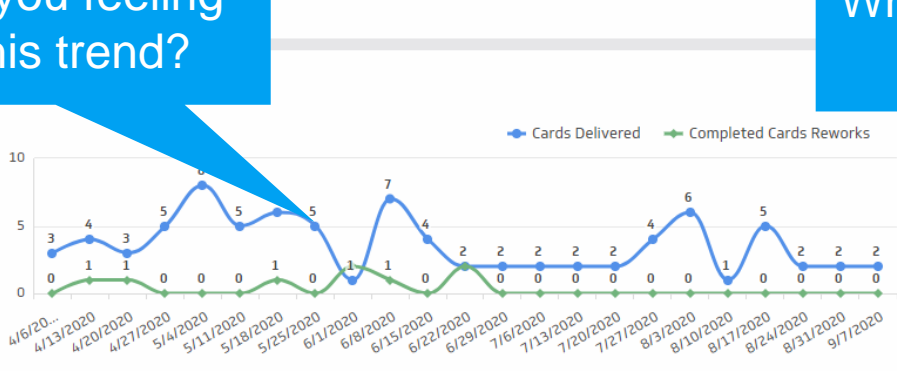
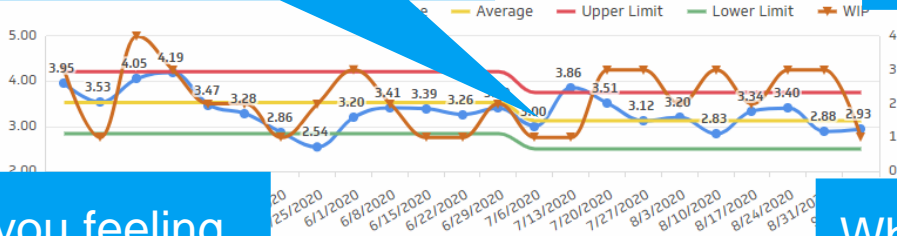
What do you think is
going on here?

I love that this has
improved.

How are you feeling
about this trend?

What experiments are
you going to try?

How can I help?





Where can metrics fit
into an Agile
framework?

Sprint Retrospectives

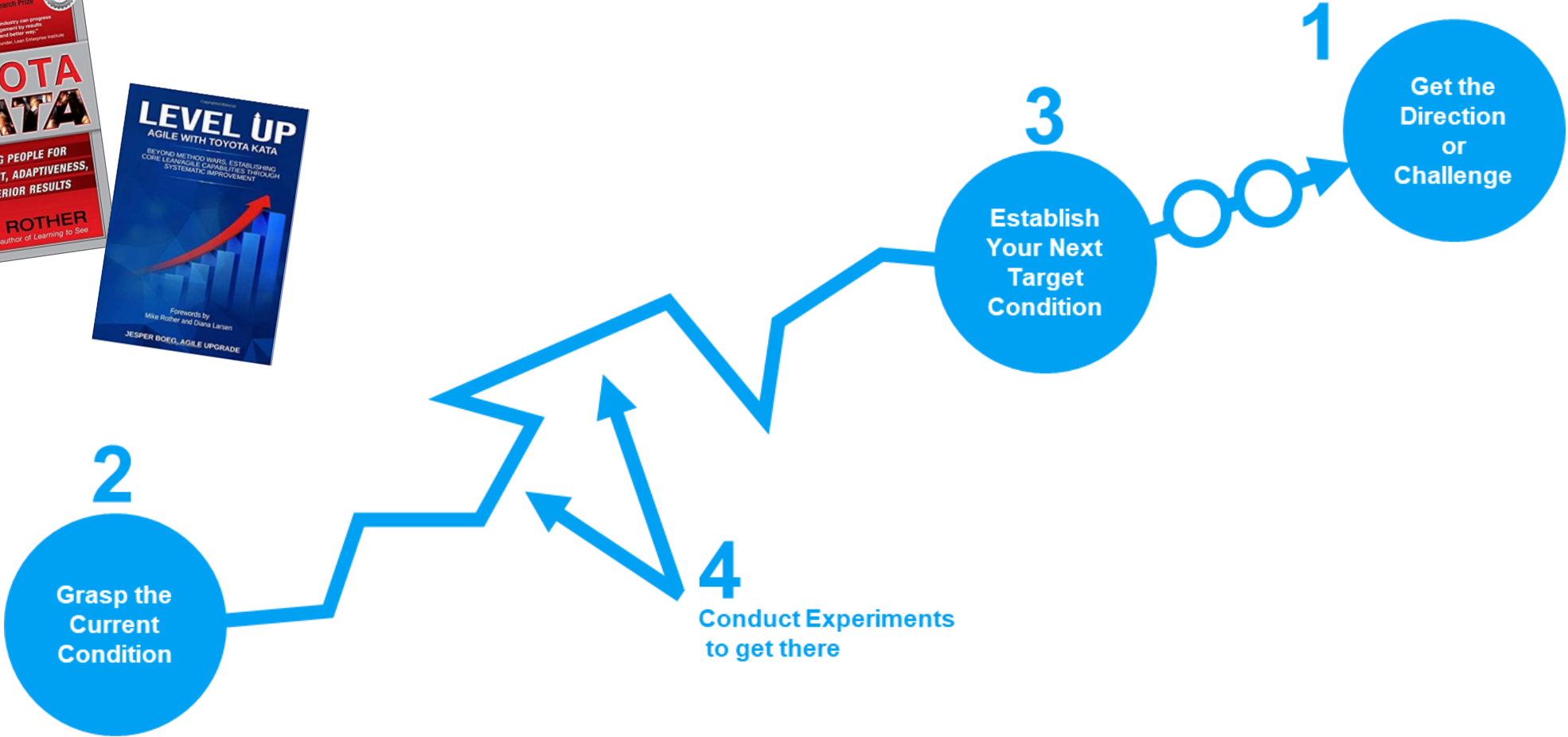
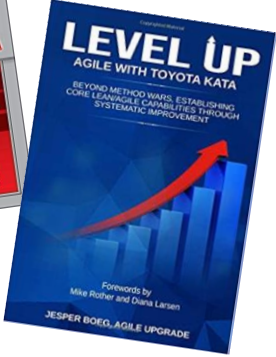
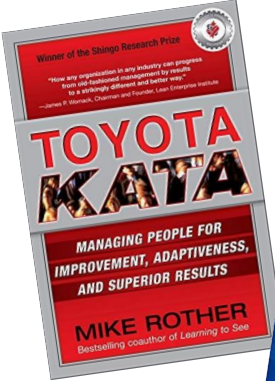
What went well
this last sprint?



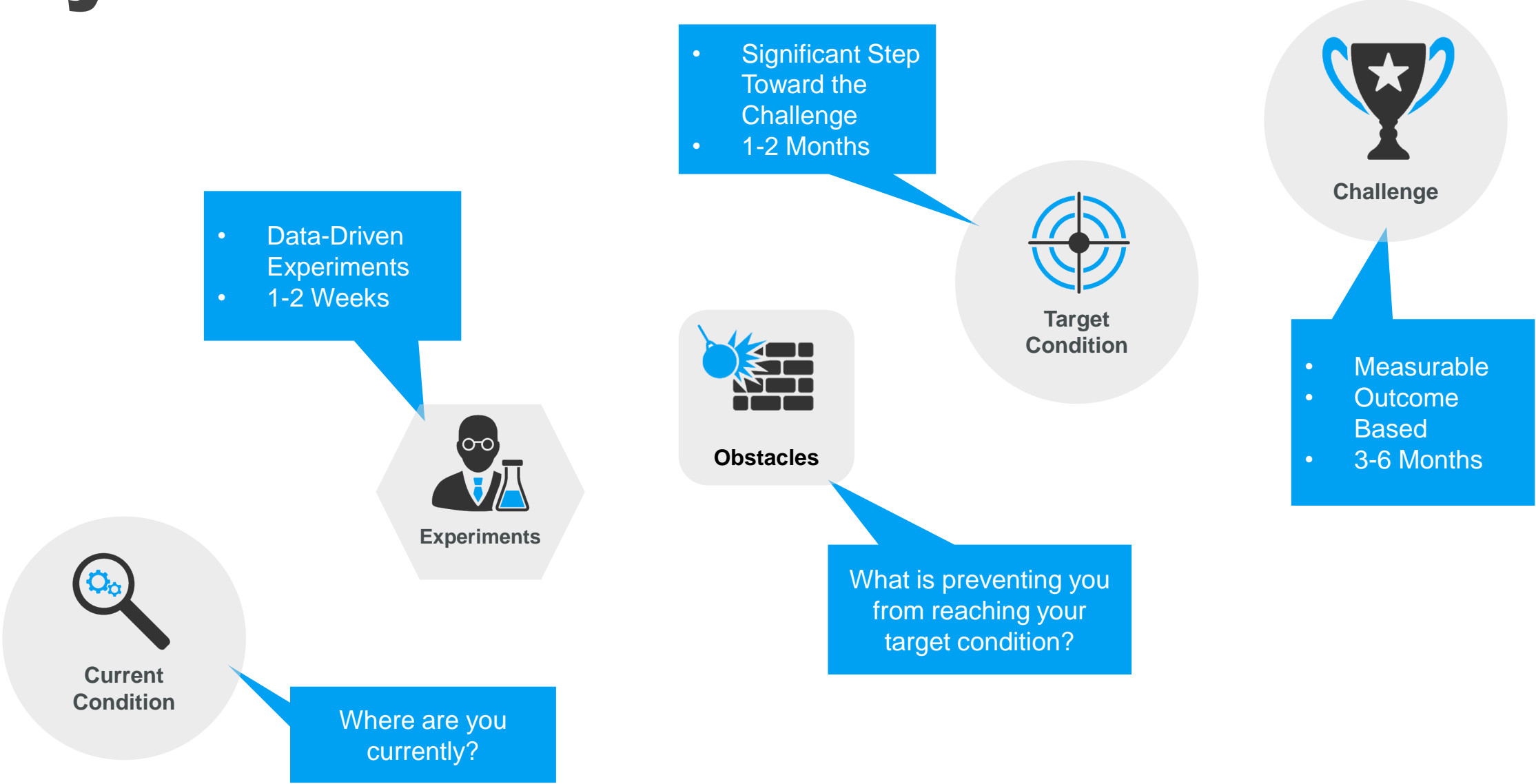
**Sprint
Retrospective**

What can we improve
for the next sprint?

Toyota Kata



Toyota Kata

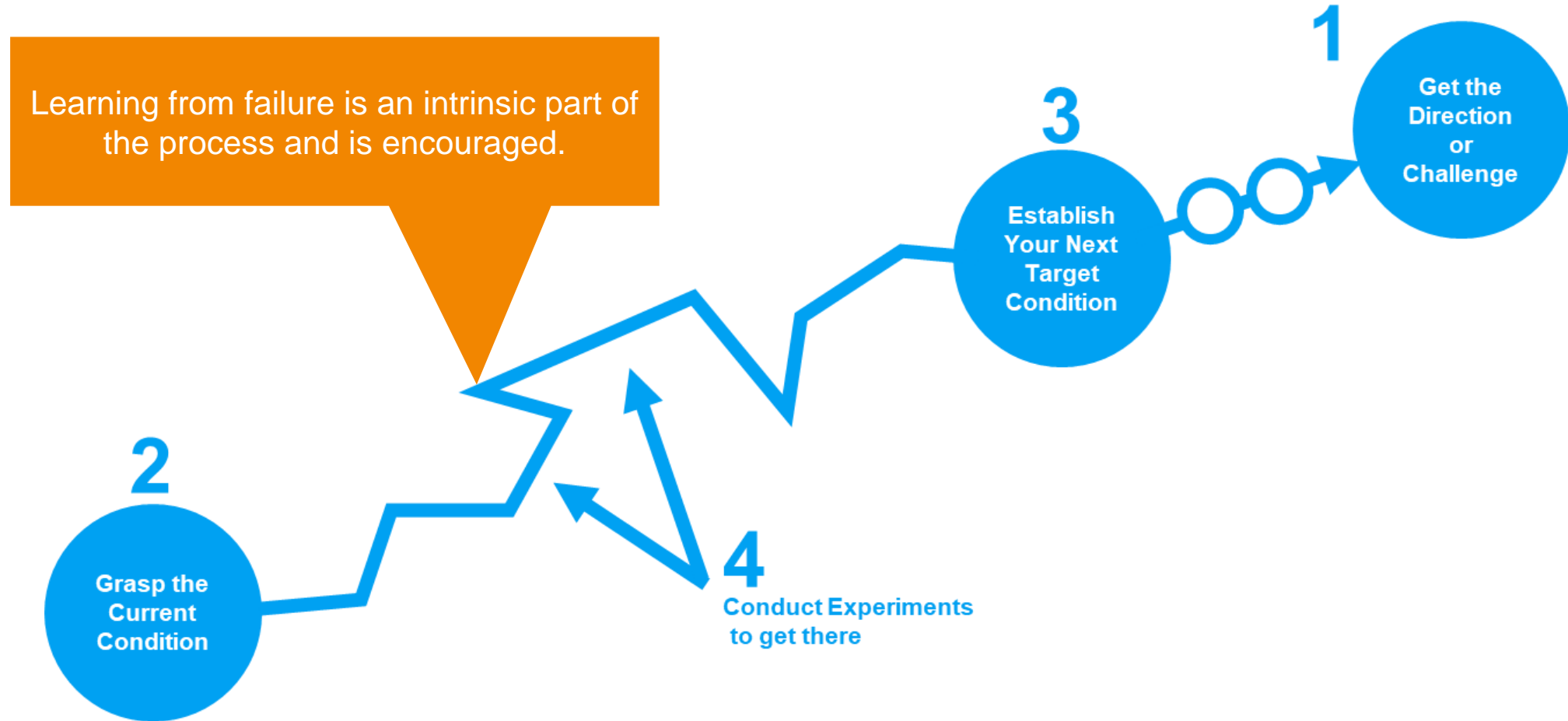


Kata Board

CHALLENGE: Decrease delivery rate by 15% (1 hr and 30 min)									
Target Condition			Current Condition						PDCA Cycles Record <i>(link to PDCA forms)</i>
Achieved	1st NTC	2nd NTC	Test Run	PDCA 1	PDCA 2	PDCA 3	PDCA 4	PDCA 5	
Metric			Metric						
ARD			ARD	3.00	2.50	2.22	1.82		
ERD			ERD	---	---	---	---		
Team En			Team En	4.25	4.13	4.28	4.25		
Bug Den			Bug Den	0.00	0.00	0.00	0.00		
Code He			Code He	48.22%	48.22%	48.68%	49.21%		
Pair Prog			Pair Prog	40.00%	16.46%	13.79%	13.79%		
Defect-1 Noncompliance			Defect-1 Noncompliance	33.33%	29.82%	27.42%	26.15%		
Defect-2 Uncaptured	0.00		Defect-2 Uncaptured	0%	0%	0%	0%		
Defect-3 Unknown	0.02		Defect-3 Unknown	1.96%	1.75%	1.61%	1.54%		
Defect-4 Overlooked	0.10		Defect-4 Overlooked	9.80%	8.77%	8.06%	7.69%		
Defect-5 Bad assumption	0.00		Defect-5 Bad assumption	0%	0%	0%	0%		Obstacles Parking Lot
Defect-6 Noncompliance UI	0.00		Defect-6 Noncompliance UI	0%	0%	0%	0%		
Unclassed Rework	0.02		Unclassed Rework	1.96%	1.75%	1.61%	1.54%		Lack of share understanding around a feature with the team and the client
Grooming Time Per Week / Per Card in hrs	0.50		Grooming Time Per Week / Per Card in hrs	0.50	0.50	---	---		Mockups/Requirements changed after dev process started, causing more reworks
Total reworks %	0.47		Total reworks %	47.05%	42.09%	38.70%	36.92%		Features are not implemented as mocked up. Lack of standart review process
ARD(4w)	2.00		ARD(4w)	2.00	1.43	1.18	1.05		Fix merge conflicts
Developing cycle time	2.18		Developing cycle time (days)	2.18	0.69	0.62	0.56		When devs test a card themselves in the dev environment, they don't test all the same scenarios that QA will.
Client Confidence	90		Client Confidence	90	90	90	90		
Weekly Rate of delivery	2.50	or less	Weekly Rate of delivery	1	0.83	1	1.67		
OERD	2.08		OERD	2.08	1.67	2.50	2.50		Some requirements were stated as "like Auth0 does" which implied a lot of scenarios that we did not initially account for and results in overlooked

Wait a minute!
What about **Goodhart's Law?**

A Culture Of Continuous Improvement



Kata Coaching



What is the target condition?

What is the actual condition now?

What did you try in your experiment?

What did you expect to happen?

What actually happened?

What did you learn?

What will you try next?

Exercise: Continuous Improvement

- Identify things you can do in an organization with metrics that foster a culture of continuous improvement.
- Identify things you can do in an organization with metrics that create a culture of continuous fear.
- How can we promote learning and avoid fear?

Wrap Up



METRICS!!!!!!

More Metrics!!!



- What is a good agile metric?
- Why velocity often ends up being a vanity metric?
- How TARS framework can help evaluate how good is your feature?
- Who is Dora? (joking)

Tuesday, July 25, 2023, 2:00 PM - 3:15 PM

Coastal Ballroom 2

4 Types of Data Analytics



Descriptive
(What happened?)



Diagnostic
(Why did it happen?)

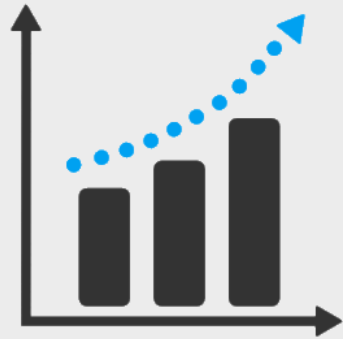


Predictive
(What's likely to happen?)

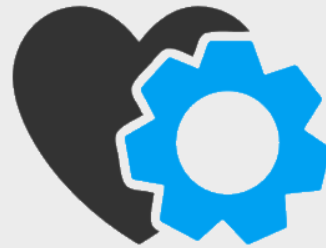


Prescriptive
(What should we do?)

Remember That Metrics Should...



**Roll Up To
Business Goals**



**Influence
Positive Behavior**



**Have A Clearly
Define "Why"**

Remember That Metrics Should...



Be Balanced



Inspire Curiosity



Drive Improvement

Q & A

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oreilly.tommynorman.com

Juan Carlos River

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www.linkedin.com/in/jcrivera27

Thank You!

Examples Google Sheet:

<https://bit.ly/agile-2023-metrics>





PRESENTS

Agile ORLANDO 2023

JULY 24-28

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