

Customer-Driven Value Streams

November 2022







Tammy the trade-in Specialist

"Wants to reduce customer abandonment in the cell phone trade in process"



What do your customers care about?

What do your customers NOT care about?

Value Streams

What is a product value stream (and Why)?



The concept of a value stream is aligned to the customers point of view

What is the customer's point of view?



Manager

What is the customer's point of view?

5 days



Manager

Demand & Capacity

Understanding Demand



What is Tammy asking for?

What is really taking all our time and focus?

What percentage of your team's work is failure demand?

Flow Framework Flow Types





What if we combined them?



Capacity



Customers don't see our capacity, but they sure feel the impacts if demand and capacity are not properly balanced

Capacity – FIFO Queue





Demand

Capacity



Capacity – Prioritized Queue

Arrival Rate





Service Time



Departure Rate

Demand



Demand > Capacity



Measuring Flow

Measuring Flow



Flow Velocity is defined as the number of completed Flow Items minus the number of reopened Flow Items per time interval.

Flow Distribution is the relative distribution of Flow Velocity across the four Flow Item types (feature, defect, risk, debt).



days work remains in both active and waiting states from work start to work complete.



Item stays in an active state by the number of days a Flow Item stays in active and waiting states combined.

Visualizing Flow

Value streams are often not linear

What we think it looks like...



Value does indeed flow left to right...

It looks more like a map of interconnected systems



"The way work flows through an organization's Value Stream Network is one of the least understood components of value delivery. Because this network was evolved entropically rather than intentionally, it's both nebulous and pervasive which makes understanding the flow of value delivery very challenging. One cannot manage or improve what one cannot visualize and measure." -Carmen Deardo



Visualizing Flow



Improving Flow

Flow Experiments







Tony

Experiment Title: Get home by 5 pm

Background

- Tony's team was only allowed to release code to prod every 2 weeks after hours
- This created a situation where IT & the business was staying until 9 pm every other Monday

Current Situation

- Due to some recent poor release quality, the business had grown uncomfortable releasing code frequently. This led to bi-weekly releases.
- The release process was manual

Goal

- Get everyone home by 5 pm
- Improve flow & automate the release

Analysis

- The team was fully capable of releasing weekly
- The bi-weekly batch size was leading to higher risk of defects
- The business needed more confidence in IT

Countermeasures

- Do nothing and risk losing people
- Investigate alternative deployment windows

Action Plan

- Experiment with weekly deployments
- Lower batch size
- Automate deployment process

Results

Moved from big batch to frequent flow of value. Flow time dropped.



- Employee happiness went up
- Release process was automated 100%
- Home by 4:30 pm ☺



Jacki

Experiment Title: Stop piling on

Background

- Jacki's business team was only seeing about 40% of the planned features getting released
- Frustration was mounting in business and IT

Current Situation

- The business was prioritizing stories without awareness of IT capacity
- IT was afraid to tell the business they were struggling with completing the volume of requests.

Goal

- Improve flow and predictability for features
- Improve overall employee happiness for business and IT

Analysis

- The business team was grooming 2x the number of stories each month compared with the capacity of the IT team
- IT was accepting side door demand (much of it failure demand) that was consuming available capacity

Countermeasures

 Do nothing and risk losing business subscriptions

Action Plan

- Cut the number of stories being groomed in half
- Mature the prioritization process to include failure demand

Results

 Business began prioritizing features, defects, risk and debt (all the work)



• Feature flow time dropped by 40 %



 Greater trust and happiness amongst all stakeholders

Questions???



Drill-down into software development and delivery Many organizations miss the mark

