FLOW METRICS FOR PREDICTABILITY AND FORECASTING

Kevin Sivic

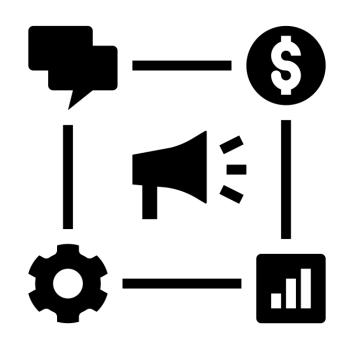
AGENDA

- Introduce Forecasting
 - Flow Metrics
 - Multiple Things Monte Carlo
 - One Thing SLE's
- Introduce the rest of the flow metrics
- How to improve predictability using flow metrics

WHEN WILL IT BE DONE?



Created by Wilson Joseph from Noun Project



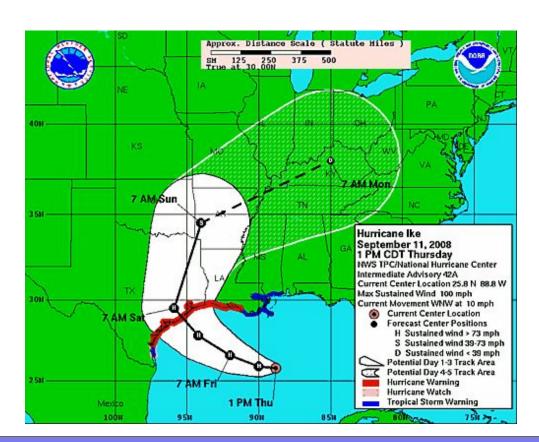
Created by Nithinan Tatah from Noun Project

HOW DO WE ANSWER THIS <u>OUESTION</u>?



Created by Larea from Noun Project

FORECASTING



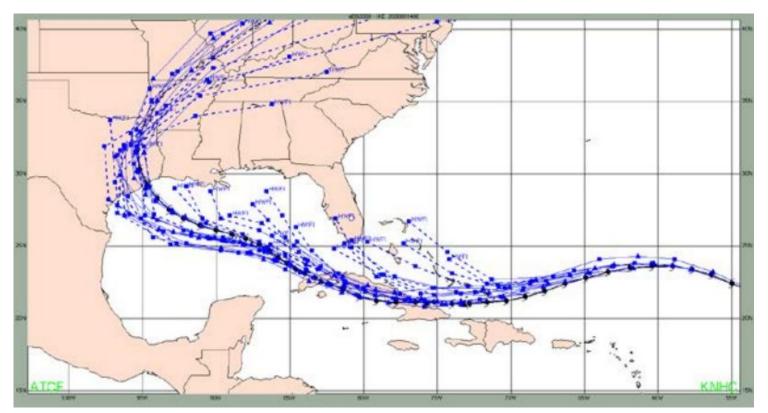
FORECASTING - WHAT'S WITH THE CONE?



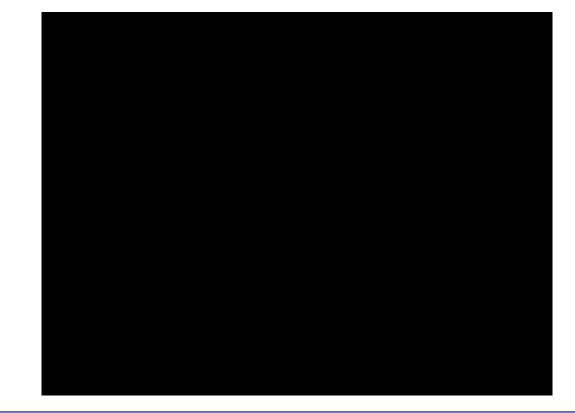
Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



FORECASTING



FORECASTING - WHAT ELSE?

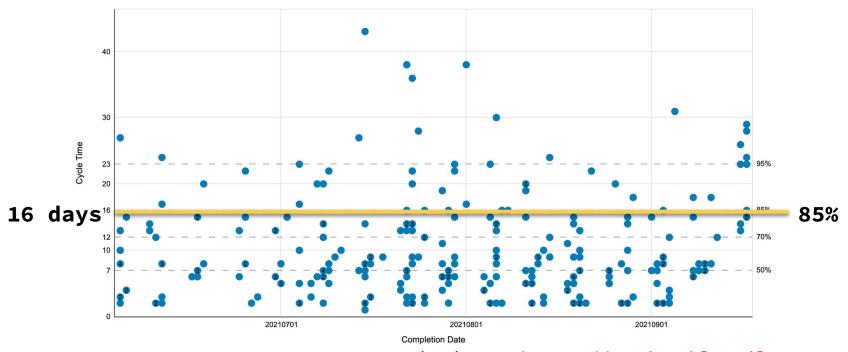




Created by Mark Jayvee Pabilonia from Noun Project

When will it be done? One thing Multiple things

One thing



Thanks to https://actionableagile.com

Multiple things

2. How many stories are remaining to be completed?

low guess

175

high guess

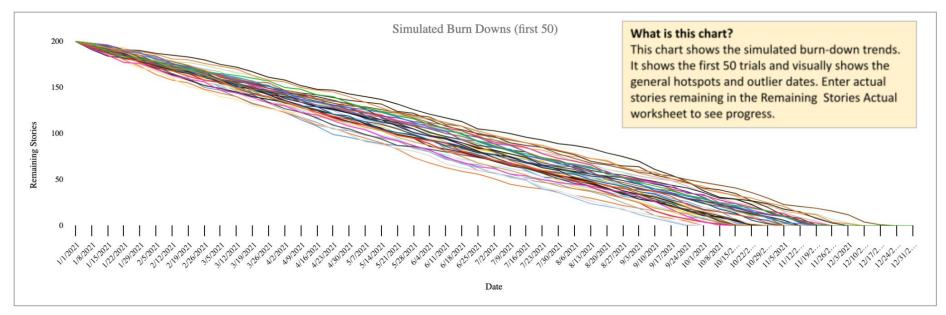
225

Throughput Samples

| 18 |
|----|
| 17 |
| 18 |
| 19 |
| 17 |
| 16 |

Thanks to Troy Magennis for his spreadsheets at https://www.focusedobjective.com/

Multiple things



Thanks to Troy Magennis for his spreadsheets at https://www.focusedobjective.com/

FLOW METRICS

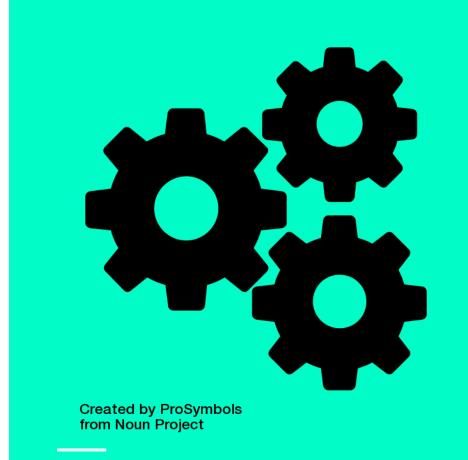
Throughput: the total number of work items completed per unit of time

Cycle Time: the amount of elapsed time it takes for a given work item to complete

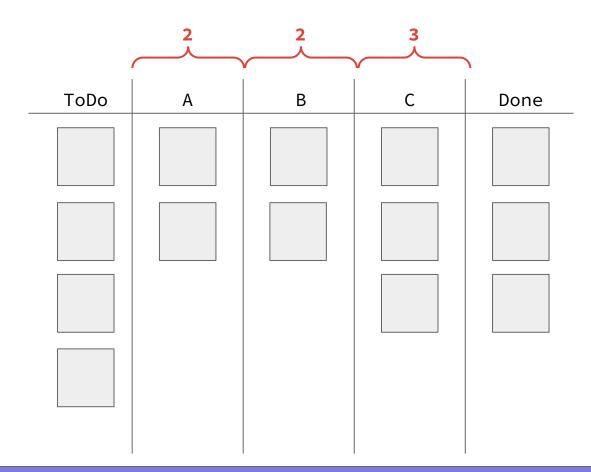
WIP: the total number of items started and not yet finished

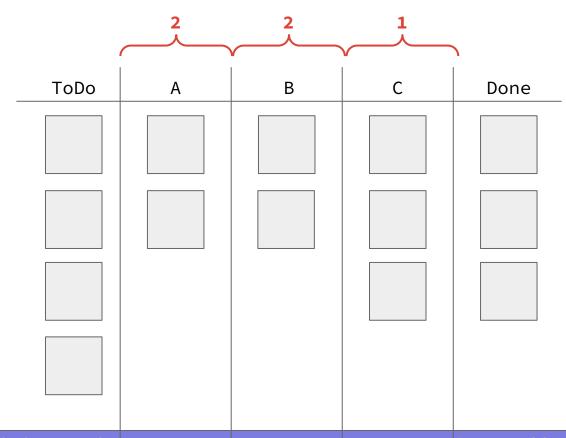
LITTLE'S LAW

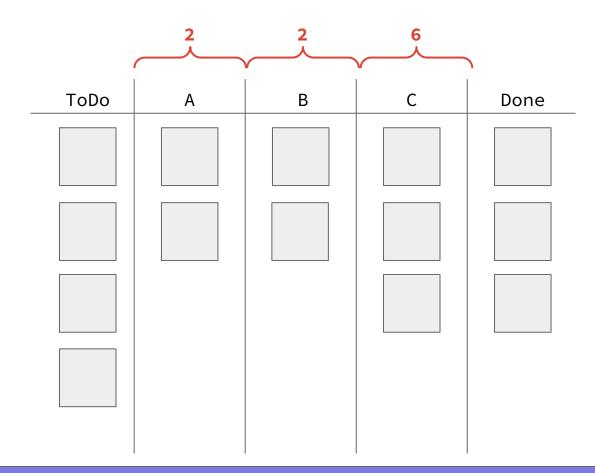
PREDICTABILITY



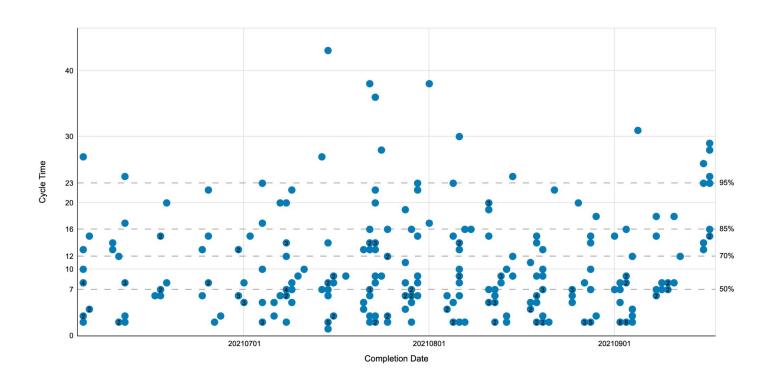
| | | ı | | ı |
|------|---|---|---|------|
| ToDo | А | В | С | Done |
| | | | | |
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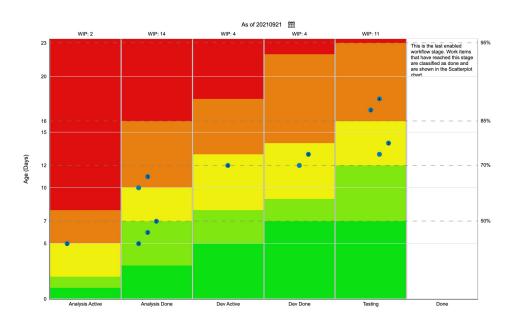


CYCLE TIME

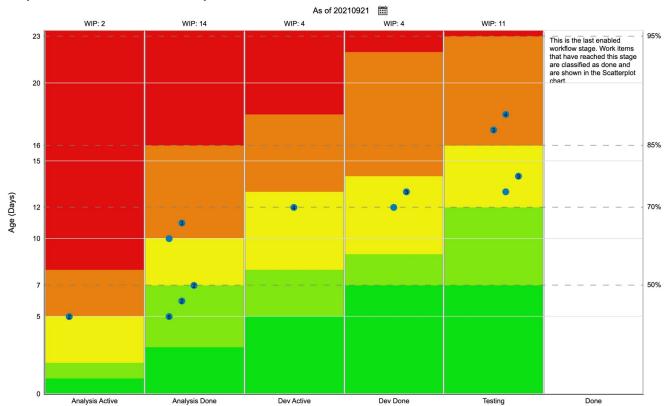


CYCLE TIME WORK ITEM AGE

Work Item Age: the elapsed time since a currently in progress work item was started



CYCLE TIME WORK ITEM AGE



WHAT ABOUT THROUGHPUT?

ONE MORE THING



Created by b farias from Noun Project

- CONTROL WIP
- MANAGE AGE OF WORK

THANK YOU!

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