Agile /Scrum /Kanban intro

User Stories/Burndown Charts

Portnov Computer School

Topics

- User Stories and Points
- Burndown Charts
- Advantages and Disadvantages of Scrum
- Practice

User Stories

User Stories

- **Who, What, Why**
- As a *role*, I want to *action*, (so that *benefit*)

The 3 C’s of User Stories

- Card
- Conversation
- Confirmation

INVEST
Good practices of writing user stories

- **I**ndependent
- **N**egotiable
- **V**aluable
- **E**stimable
- **S**mall
- **T**estable

Estimations

User Story Points

- Story points are units of measure for expressing an estimate of the overall effort required to fully implement a user story (a product backlog item)
- Story points are unitless
- Story points take into account complexity of the work, level of effort, and doubt (risk or uncertainty)
- Story points may use modified Fibonacci sequence 1,2,3,5,8,13,20

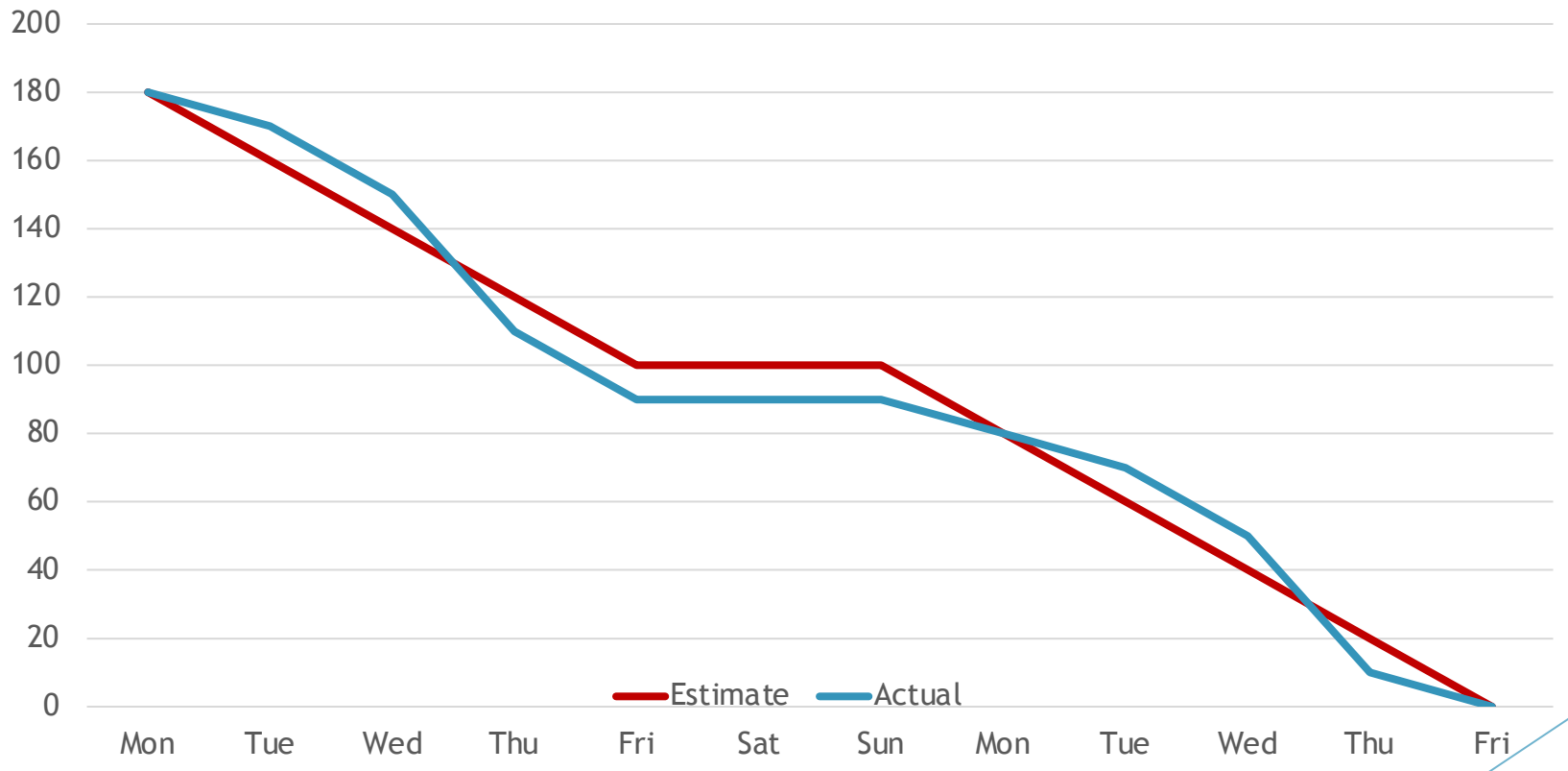
- Extra materials: Using the Fibonacci scale in Agile estimation

Burndown Chart

Burndown chart

- A burndown chart **shows the amount of work that has been completed in an epic or sprint, and the total work remaining**
- The burndown chart provides a day-by-day measure of the work that remains in a given sprint or release
- The slope of the graph, or burndown velocity, is calculated by **comparing the number of hours worked to the original project estimation and shows the average rate of productivity for each day**

Burndown Chart Examples



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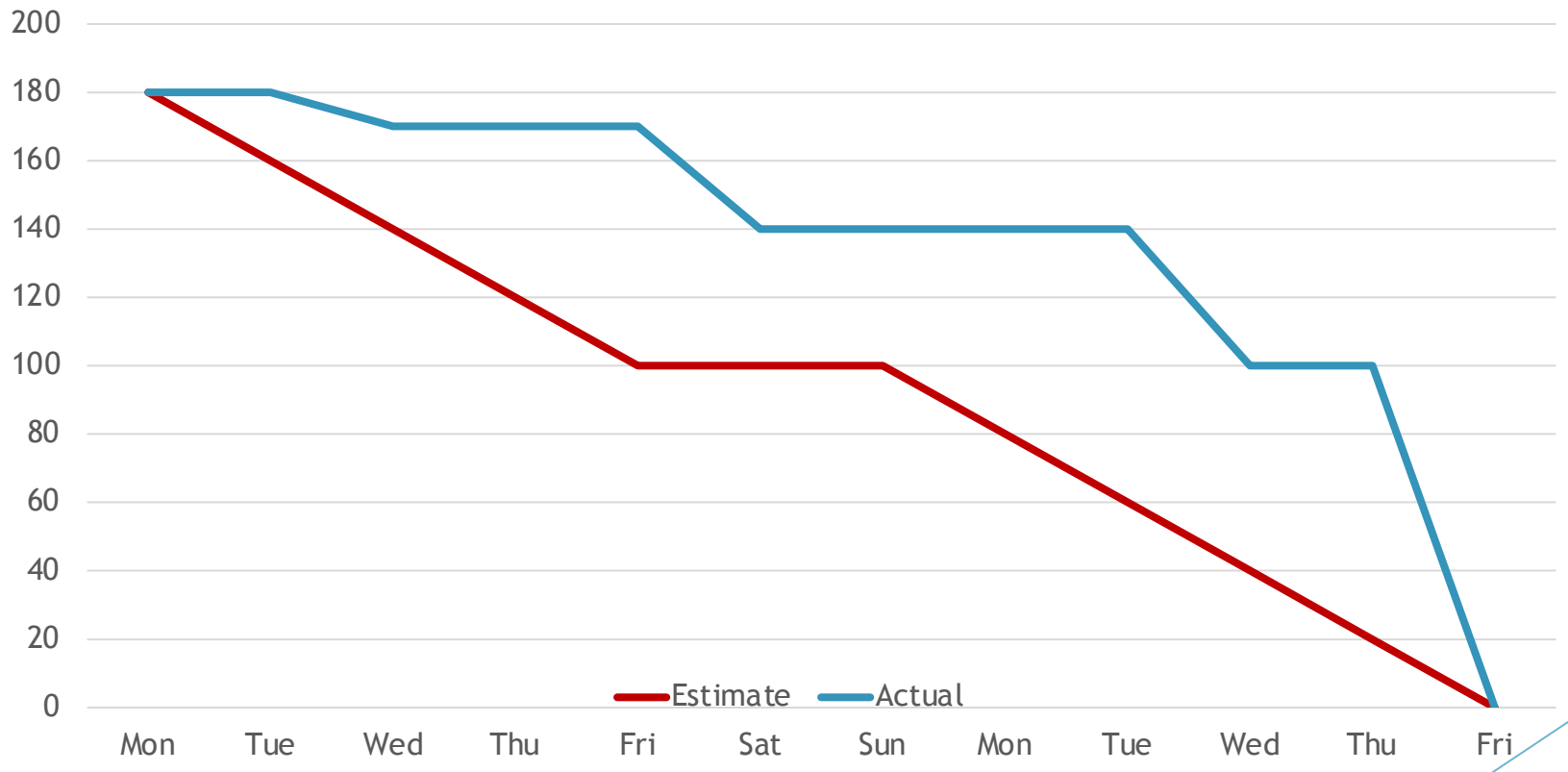

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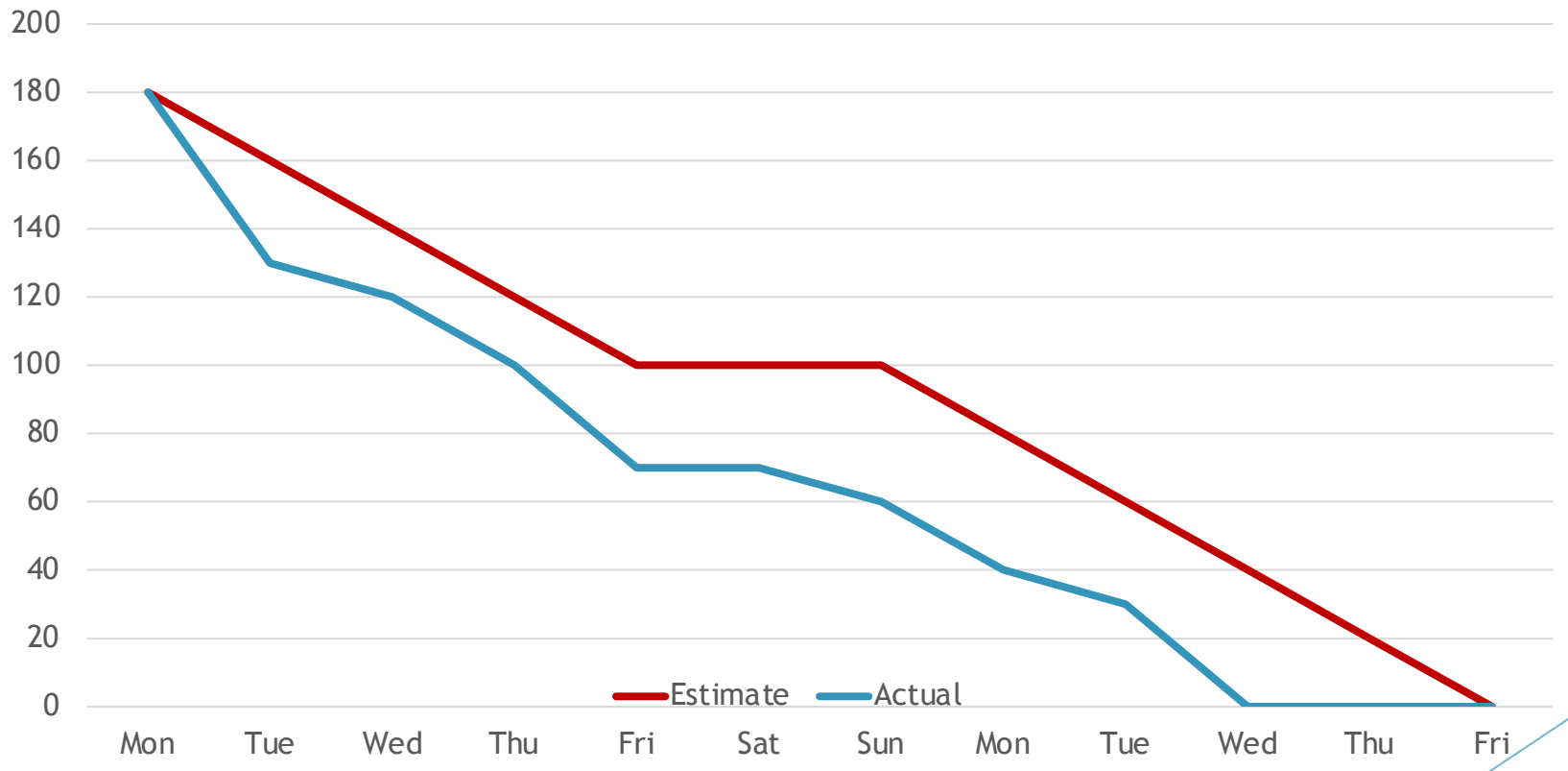

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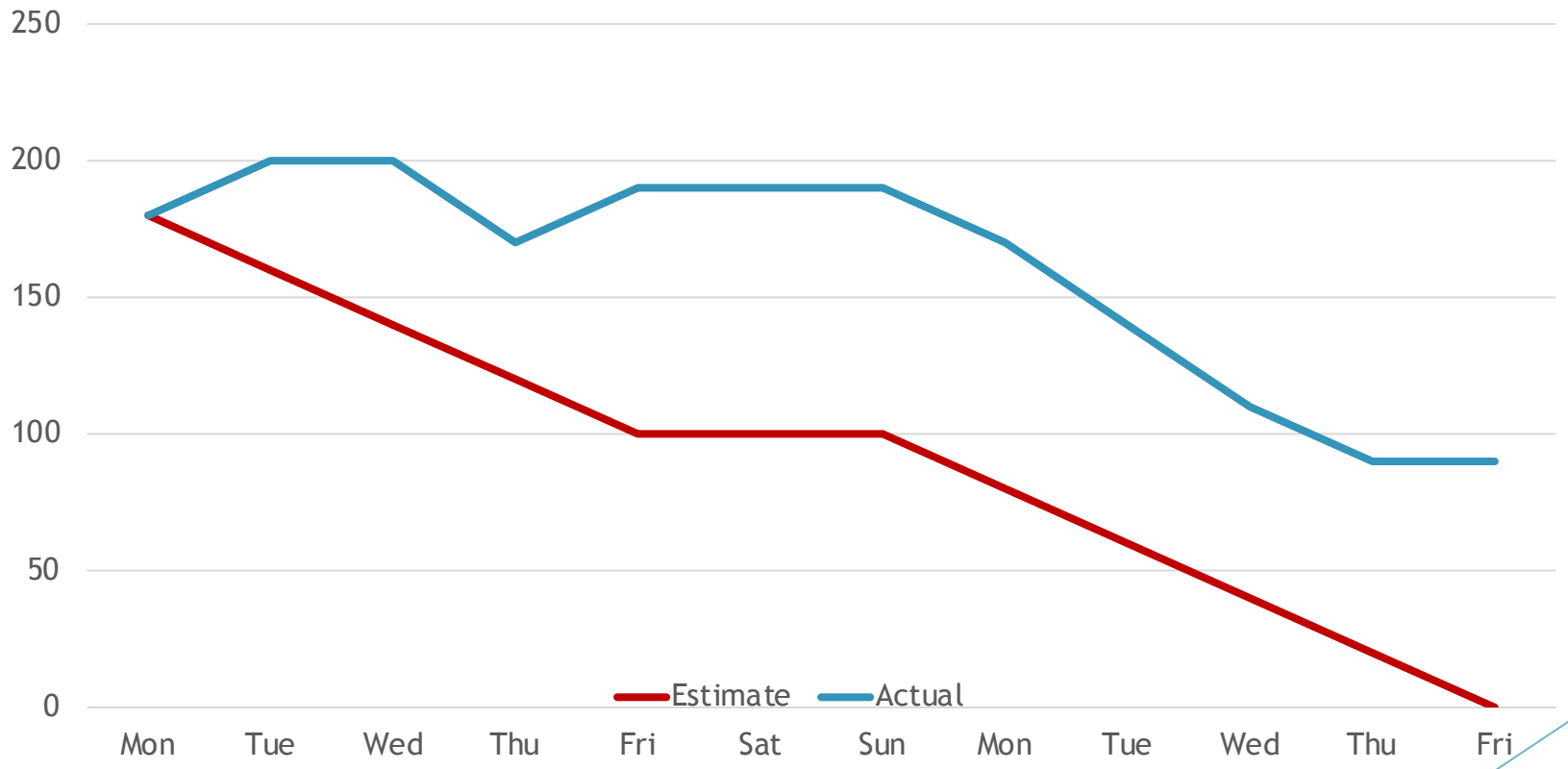

Advantages and Disadvantages

- Quicker release of useable product to users and customers
- Higher quality
- Higher productivity
- Lower costs
- Greater ability to incorporate changes as they occur
- Better employee morale
- Better user satisfaction
- Being able to complete complex projects that previously could not be done

- Scrum often leads to scope creep, due to the lack of a definite end-date
- The chances of project failure are high if individuals aren't very committed or cooperative
- Adopting the Scrum framework in large teams is challenging
- The framework can be successful only with experienced team members
- Daily meetings sometimes frustrate team members
- If any team member leaves in the middle of a project, it can have a huge negative impact on the project
- Quality is hard to implement until the team goes through an aggressive testing process