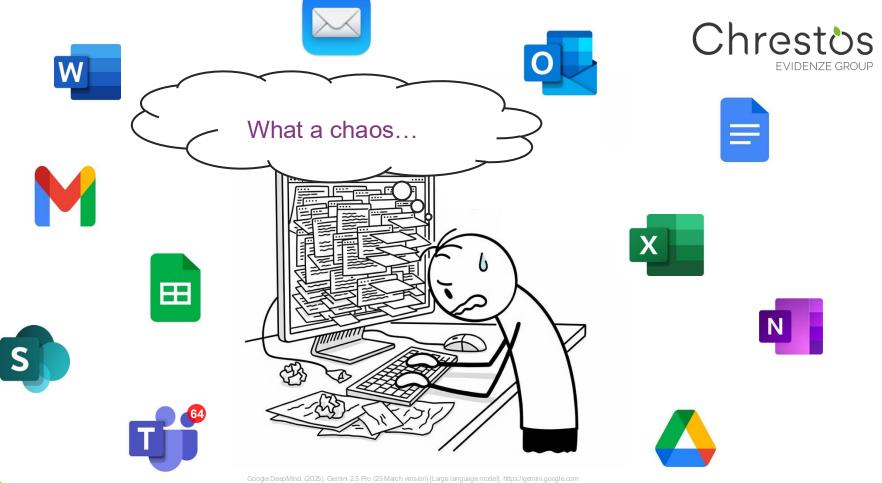


Chrestos – Die grüne CRO

# Swarming Success: Optimizing Efficiency in Statistical Programming

PD02 Lea Zittlau, Dr. Saskia Ständler 17.11.25





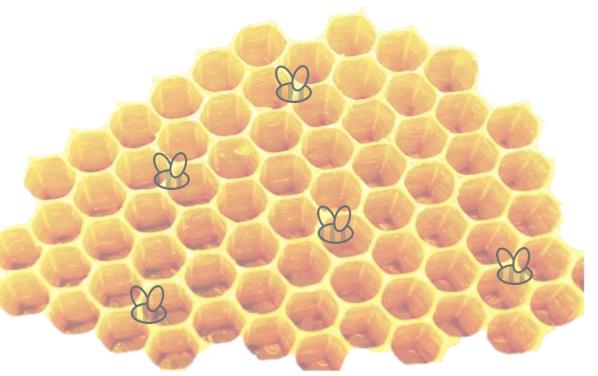


#### Natures' Example: Bees



• Over 80,000 bees in a beehive

One can think it is very chaotic,
 but actually it is highly efficient



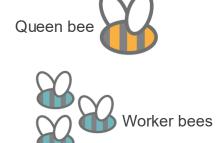
https://blog.ratioform.de/vorbild-natur-teil-3-bienenwaben-ideale-form-bester-schutz/

#### The "Secret" of Bees



- Hierarchies are not decisive; there is no single bee that controls everything
- It's all about the outcome
- Clear division of labour, every bee knows its role
  - Three main bee types





- All tasks in the hive can be done simultaneously due to labour division
- Each bee is self-organized and can make decisions on its own to a certain extent

#### Collaboration

Queen, workers, and drones all work together to build the nest and collect nectar

People with different skills, each person takes on a task that suits their skills, everyone must work together to achieve the common goal

# Communication

"Waggle dance" to communicate information about food sources

Clear and open
communication in spoken and
written form is crucial

# **Adapt**ability

Very adaptable when needed to adjust the size of the nest to environmental conditions

Plans and strategies must be changed when circumstances and projects change

# Why Swarming Success?



Agile methods enable teams to be as efficient in their work as bees integrating all three key principles (collaboration, communication, adaptability)

- Divide large projects into small iterations
- Partition of work; each member taking up tasks most suited to their unique skills (role specialisation)
- One method that follows this approach is SCRUM









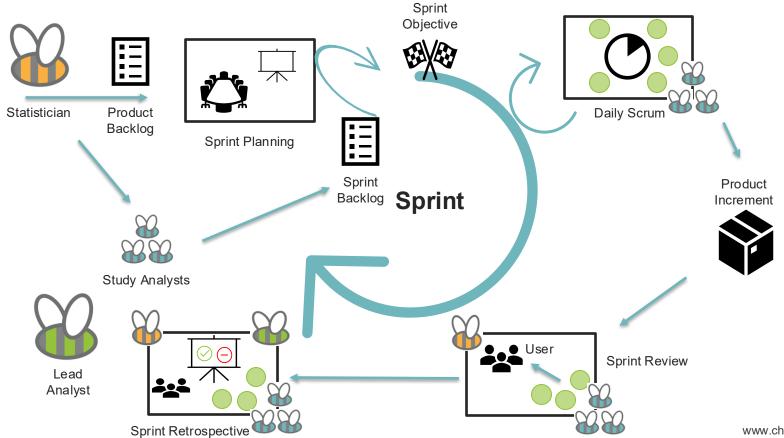


**Developers** Study Analysts



#### Scrum Recap





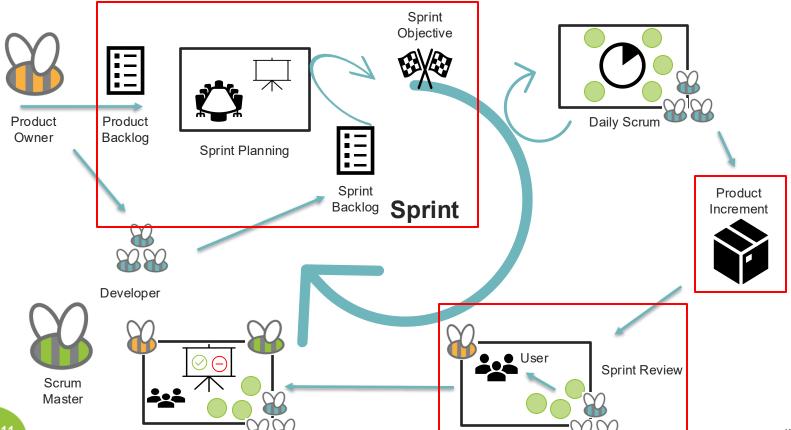
#### Disclaimer

Chrestos **EVIDENZE GROUP** What can I use? But why? What's the benefit?

In our opinion, agile principles are not 100% suitable for our everyday work in the pharmaceutical industry.

#### Scrum Recap





Sprint Retrospective

## Challenges of Scrum Implementation



- Working in parallel projects
  - Last minute requests crash sprint planning, sometimes not planable
  - Needs to take different scrum processes into account
- Alignment with colleagues with different working styles
- All meetings are too much effort for small teams that are already in contact every day
- Does not work with highly interdisciplinary teams
- Benefit: agile tools/software for daily work

# Agile Tools











# **Shortcut**













# AzureDevOps (ADO)



■ Tool from Microsoft for software development

Track and plan your work

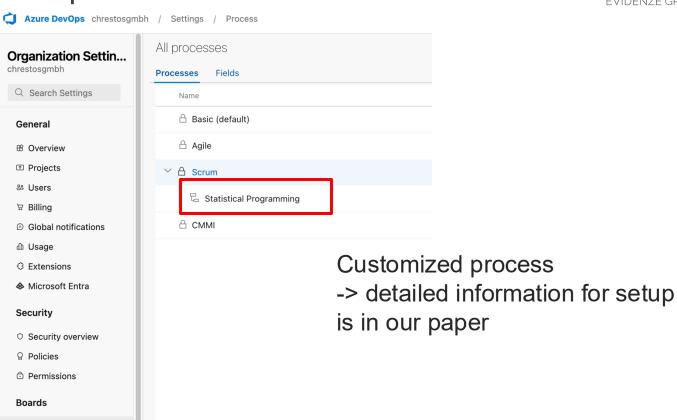
We use it as interactive To-Do list



#### Disclaimer - SetUp

Process





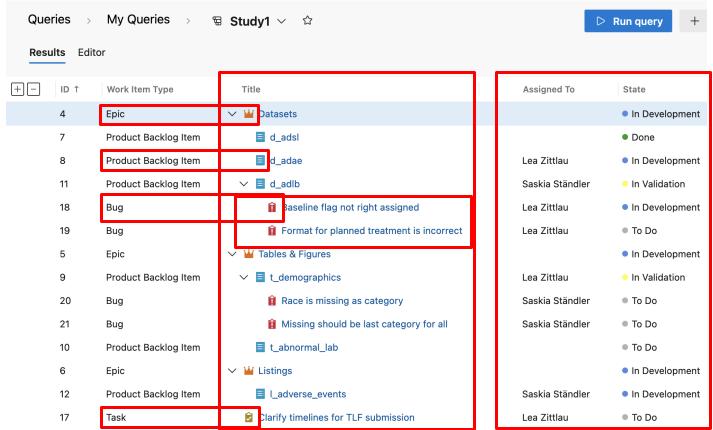
#### Static Worksheet Tracker



	А	В	С	D	Е	F	G
1	Program name	Programmer	Programming status	Val. Level	Validator	Issues	Validation status
2	Datasets						
3	d_adsl	Lea	done	Double programming	Saskia		done
4	d_adae	Lea	in development	Double programming	Saskia		
						baseline flag not right assigned, format for planned treatment is	
5	d_adlb	Lea	done	Double programming	Saskia	incorrect	in validation
6							
7	Table & Figures						
						race is missing as category, missing	
8	t_demographics	Saskia	done	Review	Lea	should be last category for all	in validation
9	t_abnormal_lab						
10							
11	Listings						
12	l_adverse_events	Saskia	in development		Lea		

#### Tracking Interface





#### Terminology





**Epic**: Classification of work items, which section of the report or what type of program



Product Backlog Item: Program name

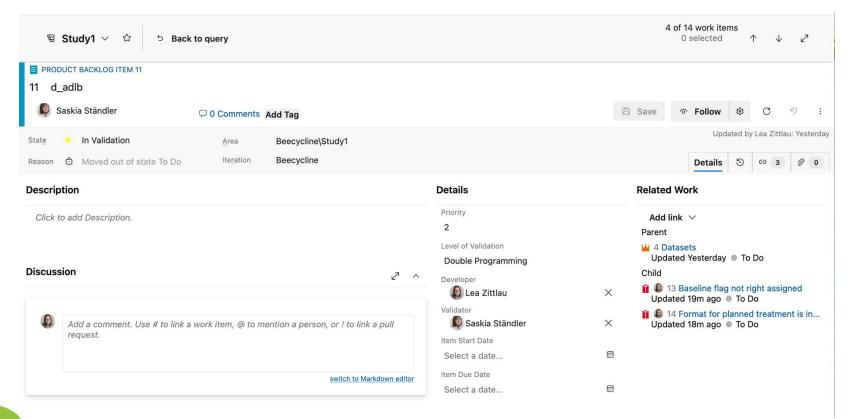


Bug: Issues in the respective program that needs to be solved before it can be set to validated

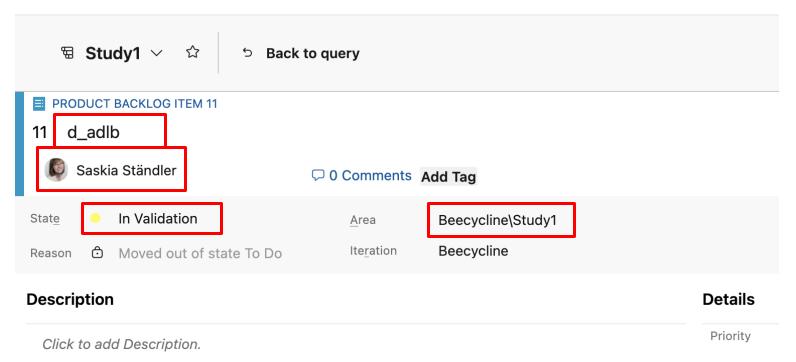


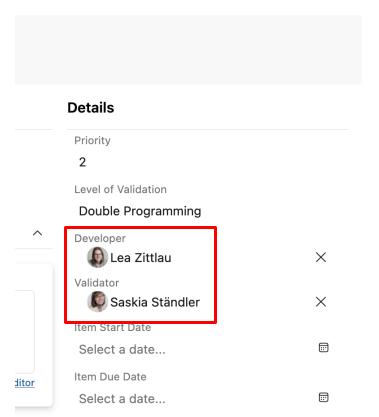
Task: Additional To-Dos



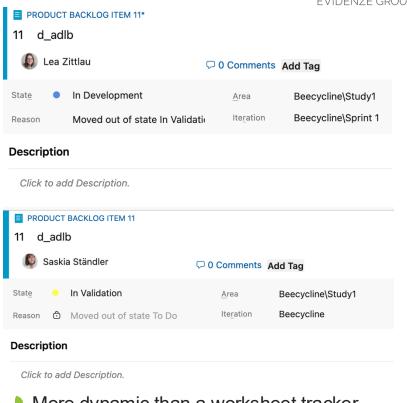








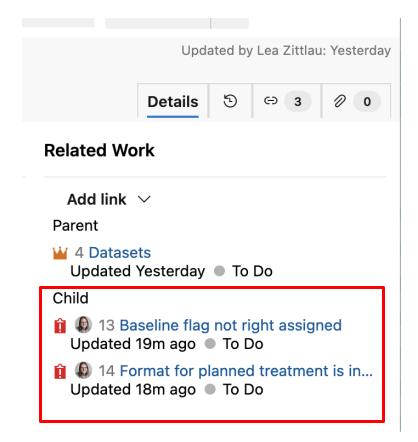




More dynamic than a worksheet tracker

21

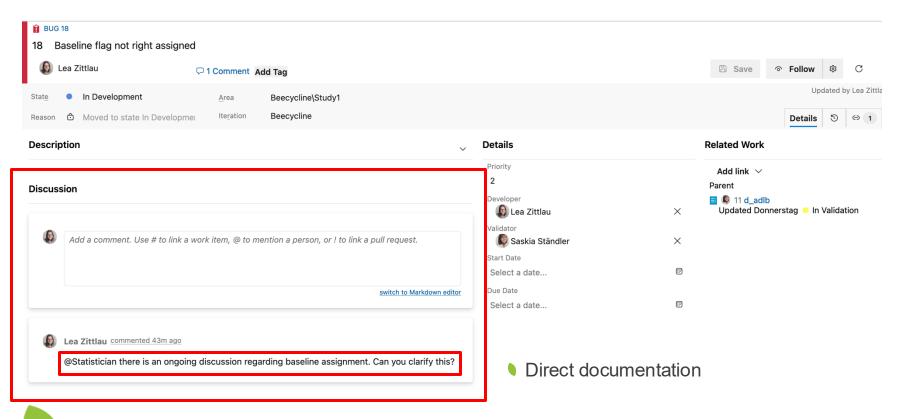




- Parent-child assignment
- Every item is linked with other items

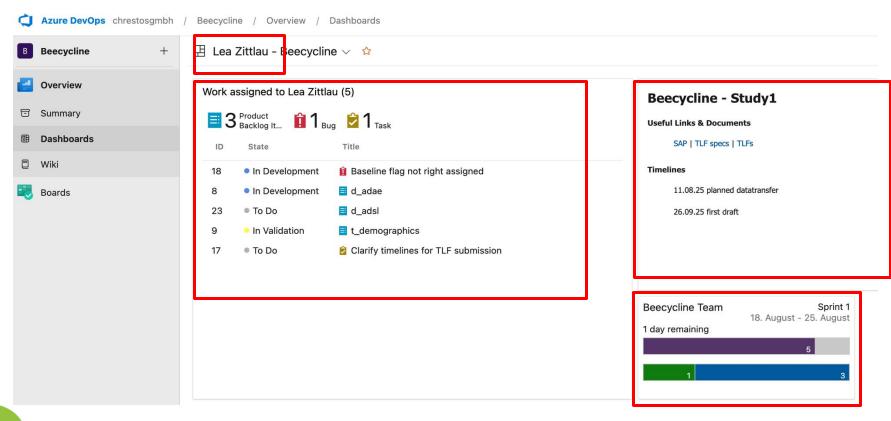
#### **Discussion Feed**





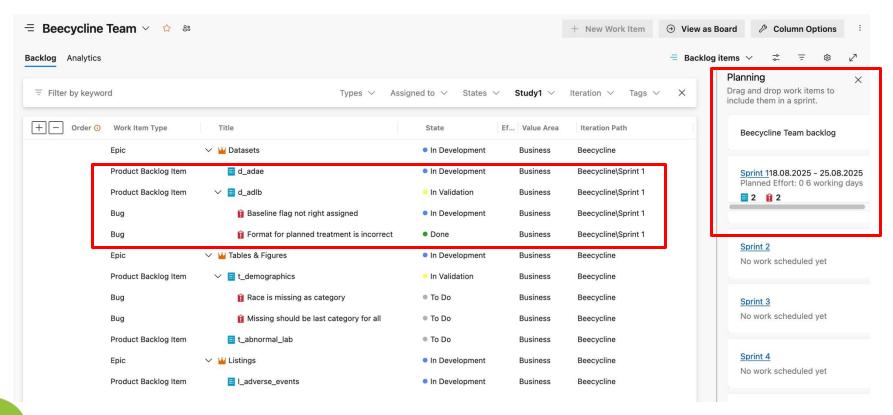
#### Dashboard – The Interactive ToDo List





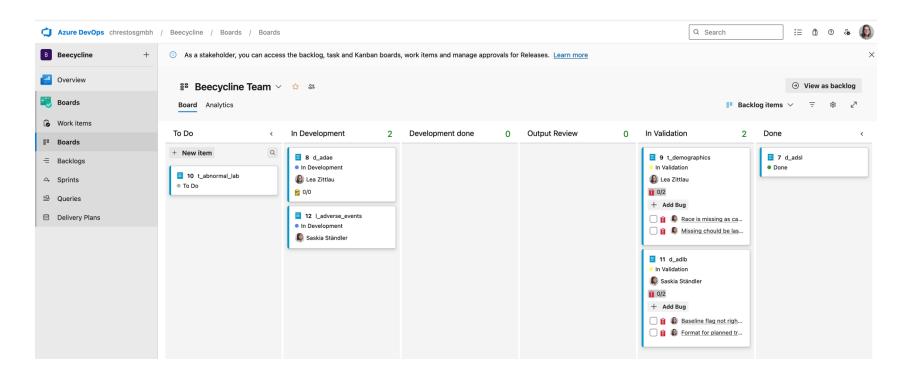
#### Sprint





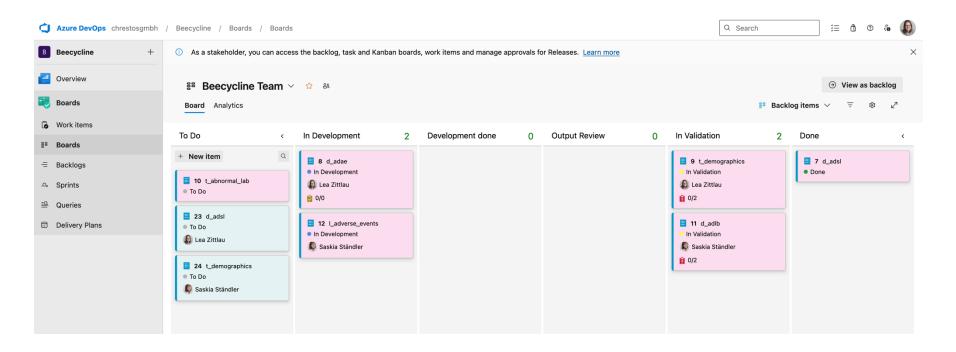
#### Kanban Board





#### Kanban Board



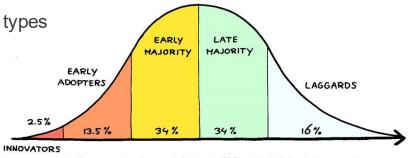


## Motivation and Training of Team Members



- Give a clear vision about the why, the what and the how stay committed as the leader
- Clarity that it's for a long-term process on both sides
  - Frequent communication; feedback for process optimization
- Invest resources for workshops and mentoring

Be aware of different engagement levels and working types



#### Take Home Message



Agile tools...

- Are more dynamic
- Provide better visualization
- Can have everything in one place
- Allow effective communication
- Eliminate the need for additional documentation

Agile tools don't redefine the wheel. They offer a more efficient way to work in today's fast-paced industry.

Bees have been agile for a long time ...







... so why not get started today?













# Thanks for your attention!







