**SCRUM Advantages:**

1. SCRUM can help teams project deliverables efficiently
2. SCRUM ensures effective management of time and money
3. Larger projects are divided into smaller, more manageable parts (sprints)
4. Is suitable for fast-moving projects
5. Each team gets a clear vision through SCRUM meetings
6. Enables feedback from customers/ stakeholders
7. Effort from each team member is clear during scrum meetings

**SCRUM Disadvantages:**

1. If individuals aren’t committed or cooperative, the chances of the project failing are high
2. In large teams, the SCRUM methodology can be challenging
3. The occurrence of SCRUM can frustrate team members
4. If a team member leaves during the creation of the project, this can have a detrimental effect on the project.
5. Quality is not implemented easily until the team would go through an aggressive testing phase

**Compare SCRUM to Waterfall:**

Waterfall is a sequentially progress methodology. The minimum five stages contain: Planning, Designing, Performing, Testing, and Deploying. With it being sequentially contained, it is impossible to return to the previous stage, and none of them can begin without the previous stage being finished. This can be quite disadvantageous because if a fail occurred at an early stage of the process and it was identified at the testing stage, the whole project would be made from scratch even after all of the work had been finished. One more specific feature of the Waterfall Method is the constant use of documentation. This is absolutely required because the customer is not involved in the software development process. This means that the development team should obtain all necessary information from about the customer’s needs before the work on a project starts. Hence why all of their further work in based on those documents.

Finally, the customer only sees the product once the project has been finalized. Which is why there is a greater risk that the final product will not meet the customer’s needs/ requirements.

SCRUM on the other hand is not as strict with its structure. The process is made up of several teams which is coordinated by a Scrum Master, who is more of a coach than a leader. The work of a SCRUM team is divided into small charts that are called sprint. After each sprint, the intermediate product is shown to the “Product Owner” would estimate two things; percentage of work completed in Sprint, and how long left until completion of the project. Another thing that is different from the Waterfall Method is that the projects priorities may change after each individual sprint.

As we can see, the difference between the two are significantly large. The Waterfall Methodology is based on the stringent structure pertaining to the workflow, while SCRUM provides a lot of flexibility with a wide array of possible solutions.

**Compare SCRUM to DSDM**

Dynamic Systems Development Method (DSDM) terminology differs with each project iteration is called “Emerging Solution” with DSDM and “Potentially releasable increment” in SCRUM. Another terminology would be SCRUMs “Product Backlog” compared to DSDMs “Prioritized Requirement List”. So even if the terminology is completely different they mean the same thing and produce the same result. DSDM is very scalable between small straightforward solutions or large complex projects. SCRUM is used mainly for the development of software, whereas DSDM has been used for more non-IT solutions. SCRUM is good for reinforcing the strength of the team, while DSDM is excellent for project variables (time, cost, features and quality for example). SCRUM is informative and instructional, it is a structured framework but it can be adapted to fit the needs of the customer.

**Compare SCRUM to Spiral**

There are several difference between the two SCRUM & Spiral methodologies. SCRUM lacks the risk management that Spiral has. Spiral doesn’t say much about the length of the iteration (iteration isn’t the same as SCRUM, it could be interpreted that one “circle” as an iteration). Spiral is preferable concerning long projects that have high rick – it depends on risk management.