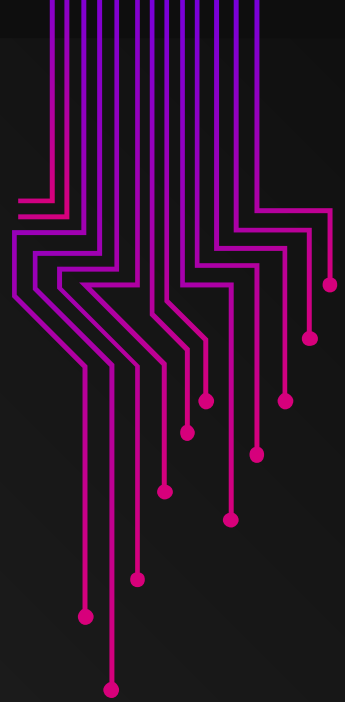
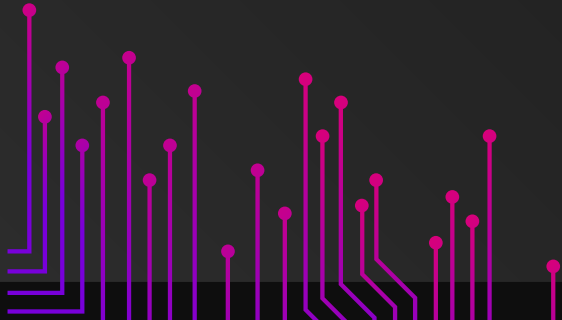


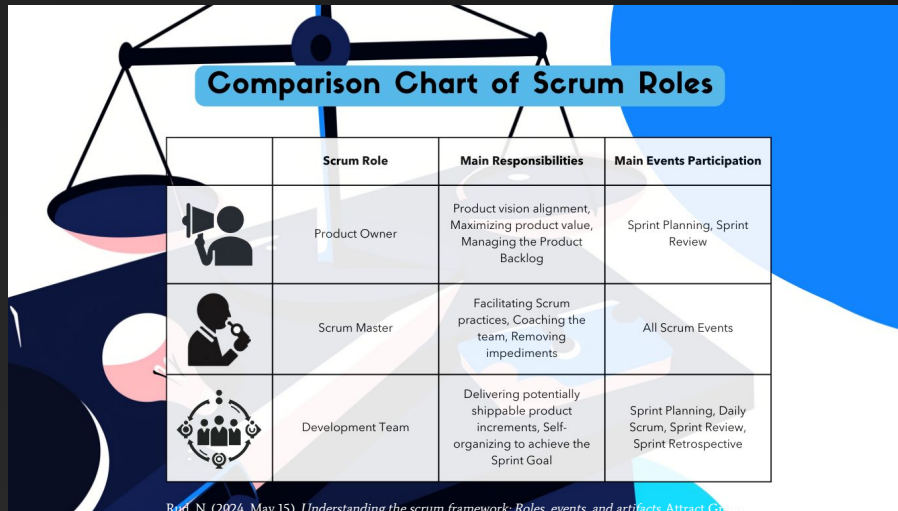
# Comparing Approaches

Leadership Presentation  
Joseph Cassello Jr.  
August 18, 2024






# Key Roles in a Scrum-Agile Team

- **Scrum Master:** Facilitates Scrum events, removes impediments, and ensures adherence to Agile principles
- **Product Owner:** Defines and prioritizes the product backlog, ensuring that the team delivers value to the client
- **Development Team:** Turns user stories into functional increments of software through a collaborative effort

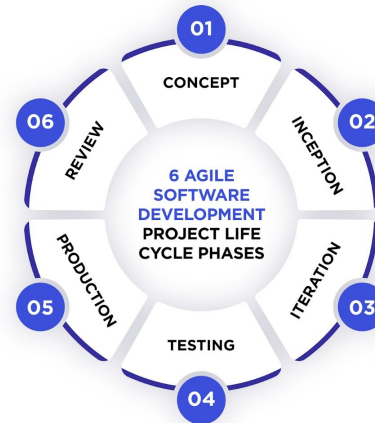


The image shows a comparison chart of Scrum roles. The chart is titled 'Comparison Chart of Scrum Roles' and is presented as a table with three rows and four columns. The columns are 'Scrum Role', 'Main Responsibilities', and 'Main Events Participation'. The rows represent the Product Owner, Scrum Master, and Development Team. The chart is set against a background of a balance scale and a blue and white abstract design.

	Scrum Role	Main Responsibilities	Main Events Participation
	Product Owner	Product vision alignment, Maximizing product value, Managing the Product Backlog	Sprint Planning, Sprint Review
	Scrum Master	Facilitating Scrum practices, Coaching the team, Removing impediments	All Scrum Events
	Development Team	Delivering potentially shippable product increments, Self-organizing to achieve the Sprint Goal	Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective

# Phases of the SDLC in Agile

1. Concept: Define the project goals, costs, and features. Assess project feasibility with stakeholders
2. Inception: Select team members, assign roles and define product tools and architecture
3. Iteration: Build the product through development sprints, incorporate feedback and complete documentation of development
4. Testing: Ensure quality and functionality of the build and verify code and product with client requirements
5. Release: Release the product and conduct final quality assurance
6. Review: Maintain and support the product by collecting user feedback, implementing updates and provide ongoing support



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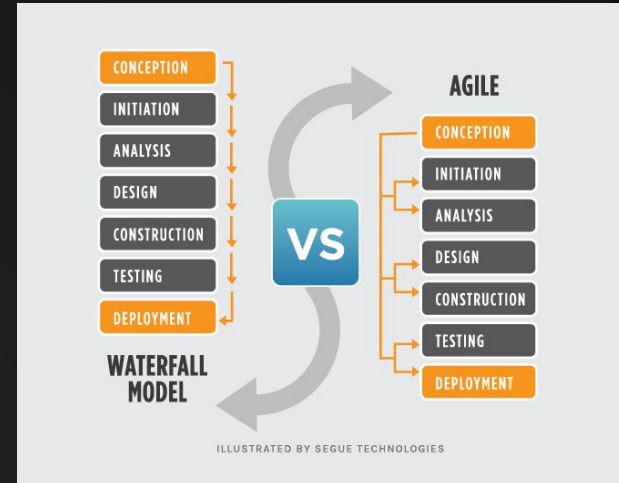
# Comparative Overview of Waterfall vs. Agile methods

## Waterfall Model:

- **Sequential Phases:** Requirements, Design, Implementation, Testing, Deployment, and Maintenance
- **Fixed Scope:** Changes are costly and difficult to implement once the process starts
- **Example:** Discovering a critical bug during testing would mean significant rework of earlier phases in the waterfall method



## Agile Method:

- **Iterative and Incremental:** Allows for continuous feedback and adaptation
- **Flexibility:** Easier to incorporate changes and improvements throughout the development process



# Waterfall or Agile Method?

- Project Requirements: Well-defined (Waterfall) vs. evolving requirements (Agile)
- Client Involvement: High engagement in Agile vs. limited in Waterfall
- Flexibility: Agile allows for changes, while Waterfall follows a strict sequence
- Project Complexity: Agile is better for complex and uncertain projects
- Example: Insights from the SNHU Travel Project and how Agile helped efficiently overcome any challenges faced

 Waterfall	 Agile
Requirements are clear and settled.	Requirements are uncertain.
Customer prefer to set requirements and see results.	Customer likes to be involved.
Quality over speed.	Rapid changing market. (Need for speed!)
Management demands metrics and documents.	Management wants working software not artifacts.
Many dependencies.	Few dependencies.
Team members only know one role.	Team members can do many things.

Kate Eby | September 28. (n.d.). *Using Waterfall Project Management Over Agile*. SmartSheet. <https://www.smartsheet.com/when-choose-waterfall-project-management-over-agile>

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