From User Requirements to Strategic Roadmaps

ChatGPT-Powered Workshop

Ana Roje Ivančić, Ognjen Bajić
Professional Scrum Trainers, DevOps Consultants
Microsoft MVPs for Developer Technologies

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Agenda

- ChatGPT (Gen AI)
- How ChatGPT Can Boost the Product Owner's Work?
  - Product Backlog Management
  - Product Backlog Refinement
  - Defining Tests and Test Data
  - Roadmaps and Product Discovery
- Conclusion

Trainers: Ognjen Bajić and Ana Roje Ivančić

In Software Development since 1996/1999
Helping teams improve DevOps practices since 2005
Worked as Dev, PM, Test, RM, SM, PO…
Microsoft MVP for Developer Technologies (ALM/DevOps) since 2006/2016
Professional Scrum Trainer (PST) for Scrum.org since 2018

Ana Roje Ivančić, arojeivancic@agilist.hr

Ognjen Bajić, obajic@agilist.hr

Agilist IT Zagreb, Croatia

training@agilist.hr

ChatGPT (Gen AI)

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Why ChatGPT?

Tremendously enhances
your expertise and skills.

But remember,
you are in charge,
and ChatGPT is (just)
a powerful tool at your service.

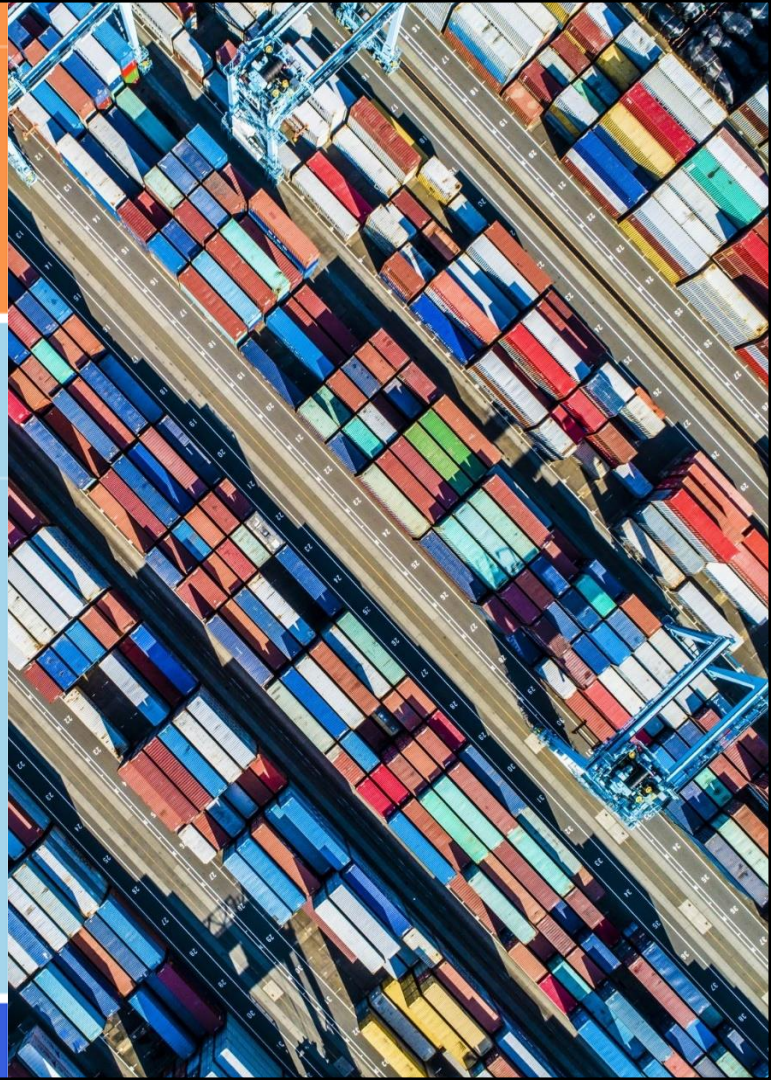
- Available 24/7
- Infinitely patient
- More knowledgeable than any human
- Extremely fast
- Enjoys repetitive work

What's In It For Me As a Product Owner?

Partner on Product Ownership (or any subject)
by applying an iterative and incremental approach

- Enhanced Domain-Specific Learning
- Requirement Ideation & Creation
- Requirement Decomposition & Refinement
- Requirement Analysis & Validation
- Test Case Design & Test Data Preparation
- Assistance in Stakeholder Communication

Product Backlog Management



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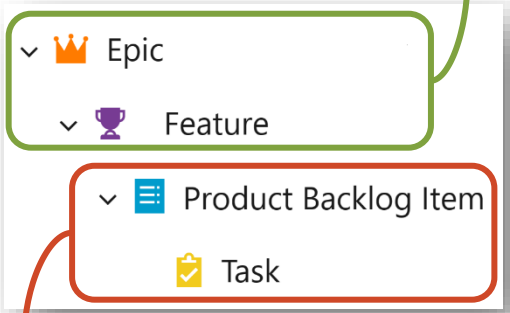
Hierarchical Product Backlog Example

Business
What? Why?



Development
How?

Fabrikam Fiber Team

Backlog | Analytics | New Work Item | View as Board | Column Options

Order	Title	State	Progress by all Work Items
	Improve User Experience	Active	71%
	Integrate client application with popular email clients	Active	50%
	Implement a factory which abstracts the email client	Active	
	As a user, I can select a number of support cases and use cases	Closed	
	Emoticon feedback enabled in client application	Closed	100%
	As a user, I can select an emoticon and add a short description	Closed	
	Add animated emoticons	Closed	
	Integrate client app with IM clients	Closed	
	Shared Personalization and state	New	
	Framework to port applications to all devices	Active	88%
	Migrate legacy code to portable frameworks	Closed	87%
	Implement a factory that migrates legacy to portable frameworks	Closed	100%
	Develop framework architecture	Closed	
	Document framework architecture	Closed	
	As a developer, I can analyze a code base to determine complian...	Closed	75%
	Simplify analysis tool	Closed	
	Deploy premium service for code analysis	Closed	
	Add auto-analysis checkbox to checkin sequence	Active	
	Add test suite for automation	Closed	

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Azure DevOps

Product Backlog Management

Try It!

Product Backlog Refinement

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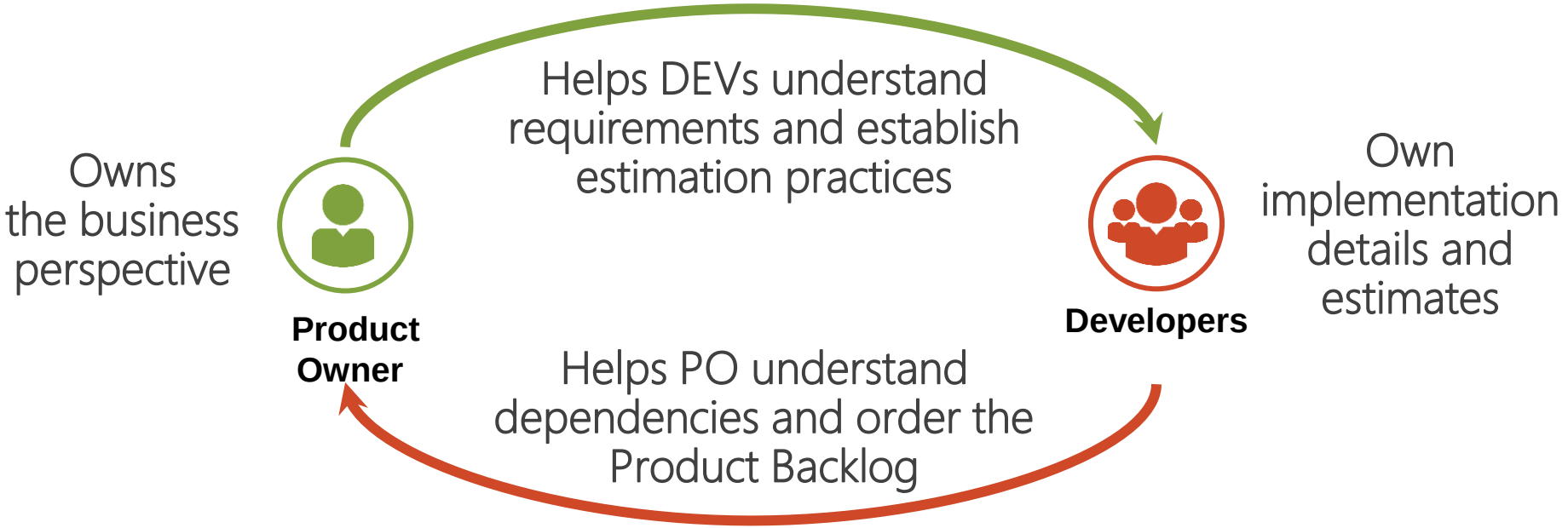
Refining the Product Backlog Through Collaboration



Example Definition of Ready (DoR) for PBIs

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Criterion	Property	Explanation
Clearly described	**Title and Description**	The team should have a shared understanding of what the item entails, its business value, and what is required to complete it.
Clearly Defined Acceptance Criteria	**Acceptance Criteria**	The item should have clearly defined criteria that determine when the item is completed.
Appropriately Sized	**Size**	The item should be small enough to allow for effective planning, execution, and delivery within the Sprint timeframe, without the risk of carryover.
Estimated by the Team	**Estimate**	The item has been estimated, and the team agrees that it is small enough to be completed within one sprint.
Technical Feasibility Assessed	**Linked child Tasks**	The technical aspects have been reviewed to ensure the story is feasible within the current system architecture.
Dependencies Resolved	**Linked Items**	Any dependencies on other stories, external systems, or team members are identified and resolved.
No Blocking Issues	**Linked blocking Issues**	There are no known blockers that would prevent work from starting on the user story.
Mockups/Design Provided	**Mockup/Design**	If the item requires UI changes, the necessary mockups or design specifications are ready and available.
Testable	**Test Cases**	The item should be framed in a way that allows for testing to verify that it meets its acceptance criteria.
Prioritized		The item has been prioritized within the backlog and is aligned with the product roadmap.

Splitting PBIs During Refinement is Essential

- Splitting or Slicing=Decomposing into smaller units of work
  - Enables rapid customer feedback
  - Facilitates (re)planning
  - Use different patterns

Acceptance Criteria

Workflow steps (e.g., basic workflow, enhanced workflow)

Business Rules Variations (e.g., one rule per PBI)

Interface Variations (e.g., devices)

Operations (e.g., CRUD)

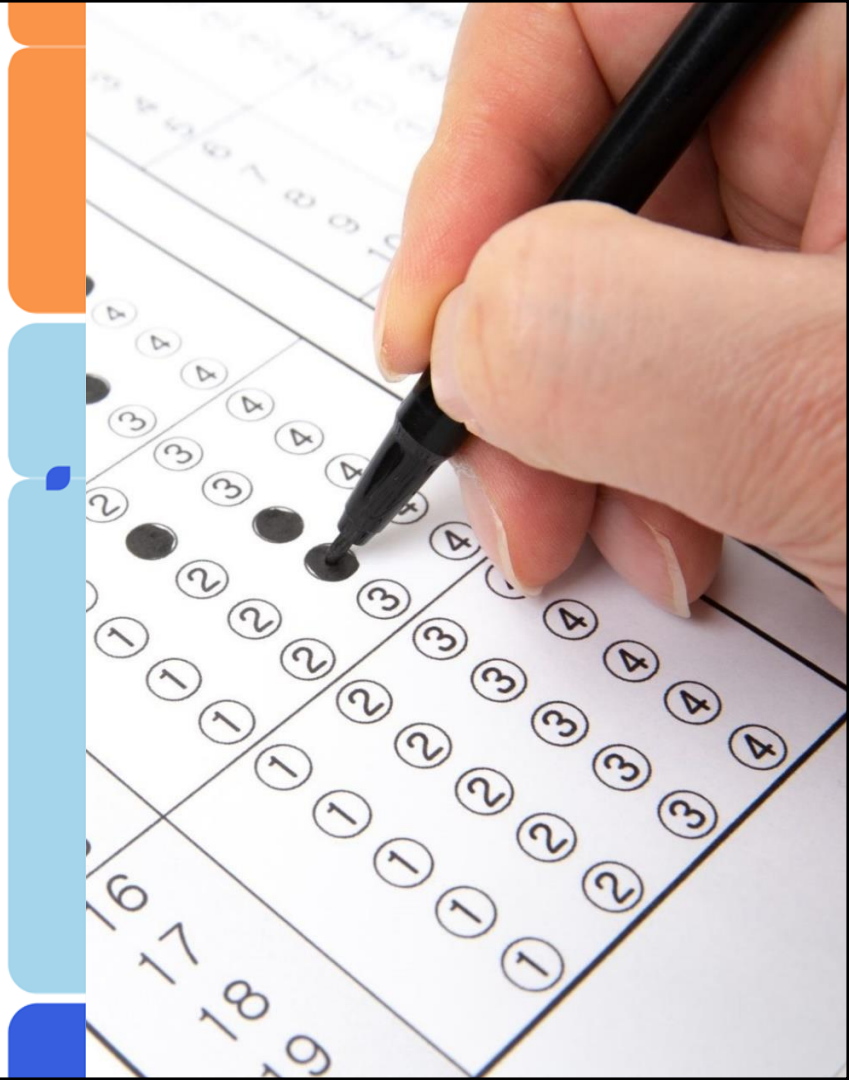
Variations in Data (e.g., languages)

Performance Variations (e.g., first slow, then enhanced)

Product Backlog Refinement

Try It!

Defining Tests and Test Data



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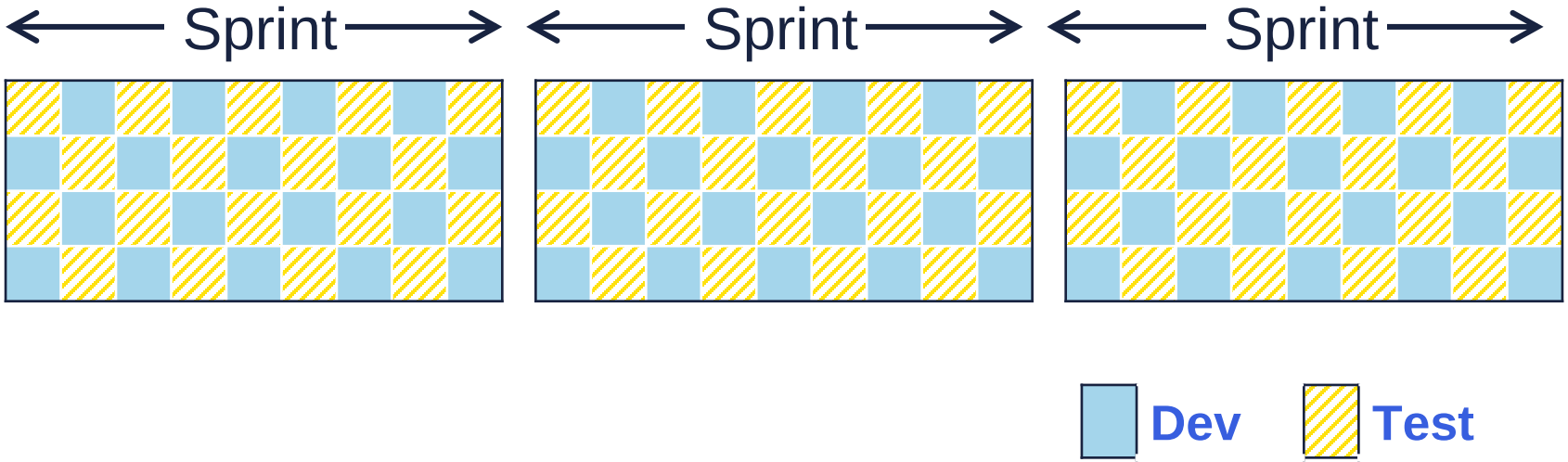
Test in Parallel With Coding



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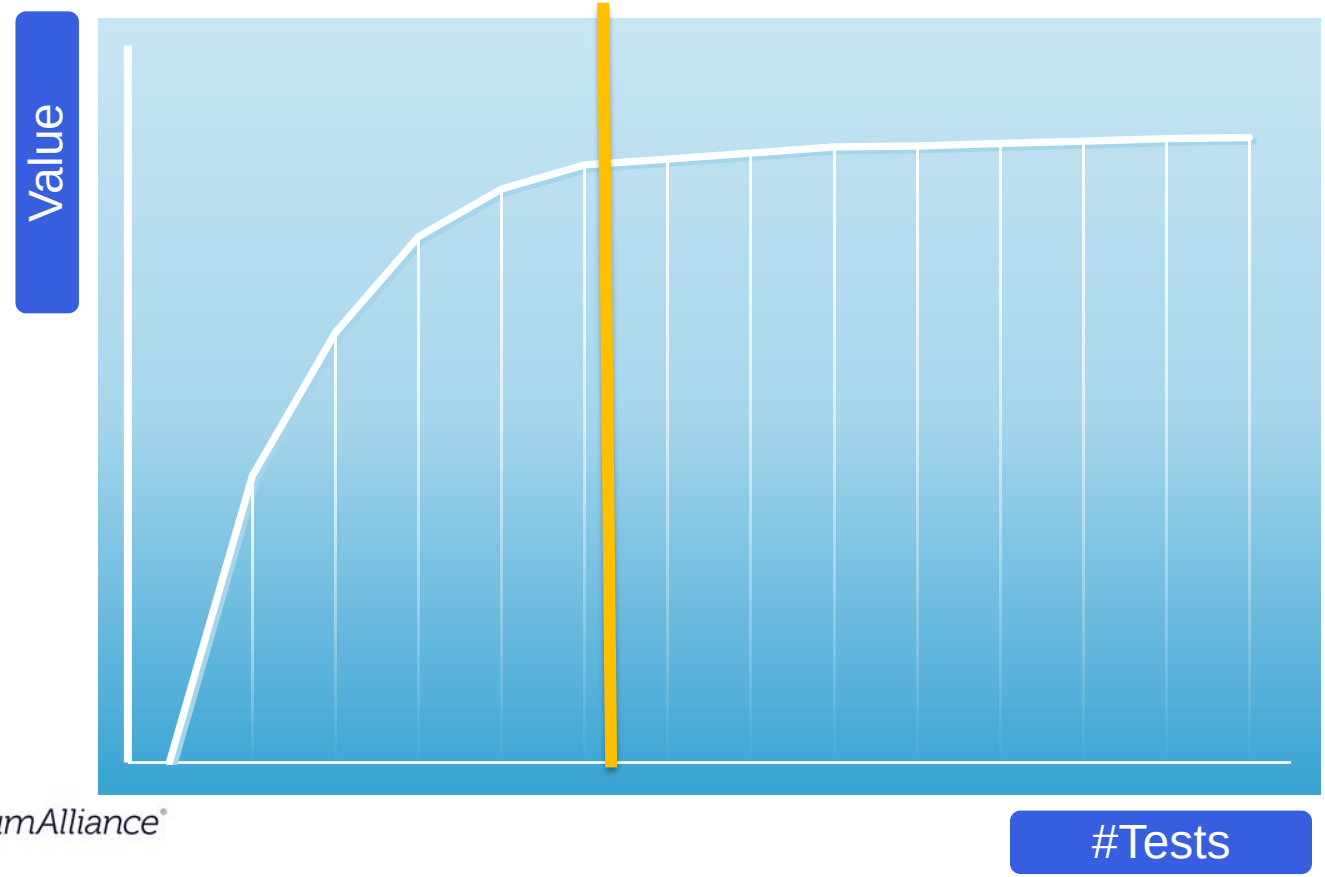
Scrum.org/APS-SD

Automated Tests Creation ROI (Before ChatGPT)



Defining Tests and Test Data

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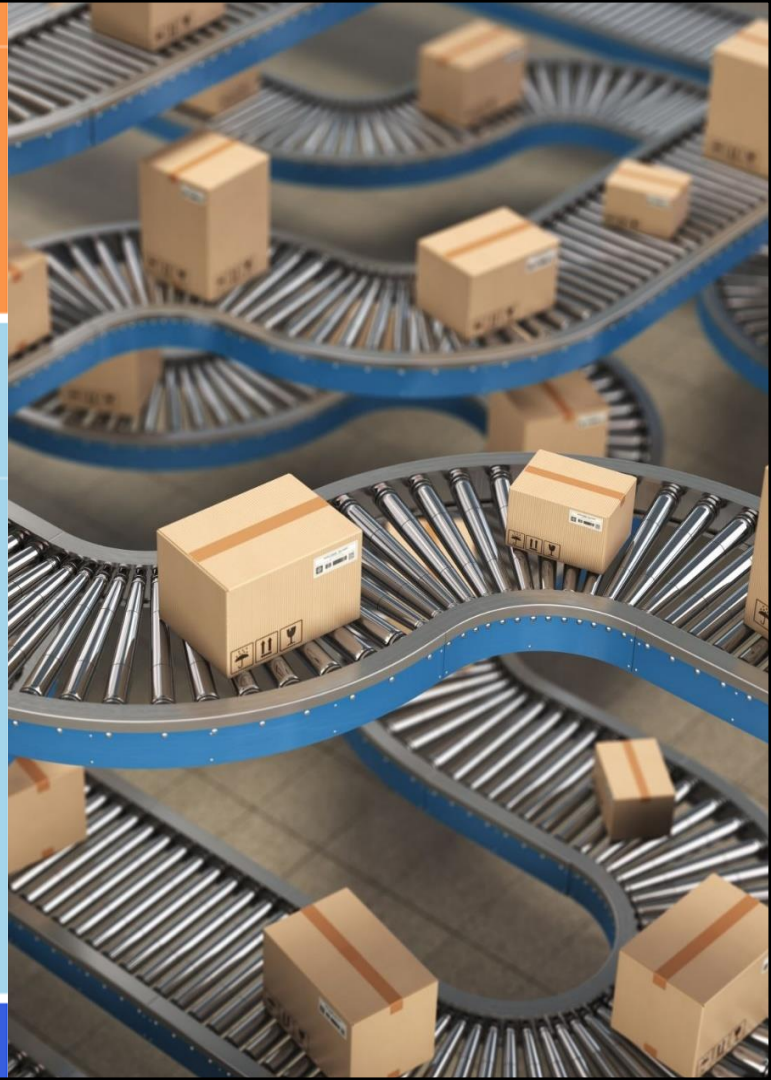
Roadmaps and Product Discovery



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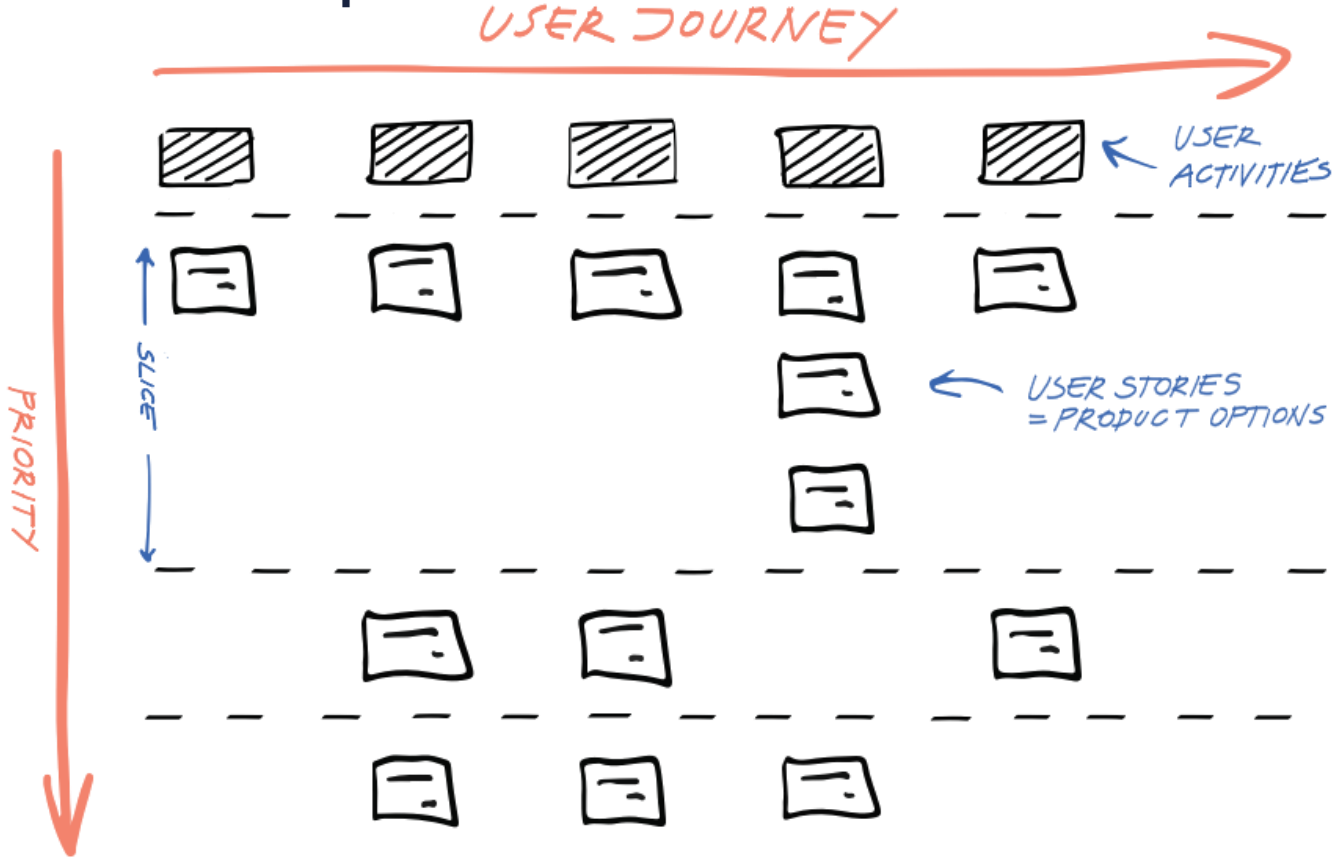
Roadmaps Facilitate Conversations

- Visualize your high-level plan that defines a goal, desired outcomes, and major milestones needed to reach it
  - Increase transparency and alignment
  - Link plans to strategy

- Expectation management and communication tools for stakeholders and customers

- Warning: Do not imply certainty with roadmaps!
  - They only provide a forecast of the product's development in the coming period based on the current perspective

User Story Mapping
Feature Oriented Roadmap Format



Introduced by **Jeff Patton, User Story Mapping,** Image source: https://specmap.cc/wp-content/uploads/2018/10/Story_Map_Digital_1030x626.png

Goal Oriented Roadmap

	1st quarter	2nd quarter	3rd quarter	4th quarter
DATE The release date or timeframe				
NAME The name of the new release	MVP	Version 2	Version 3	Version 4
GOAL The benefit the product should offer.	• Acquire an initial user base • Understand my eating habits	• Grow the user base • Improve my eating habits	• Generate revenue: in-app purchases • Get fitter	• Retention • Keep up the good work
FEATURES The high-level features necessary to meet the goal	• Healthy eating dashboard • Integration with smart watches and fitness devices	• Recipes and shopping lists • Social media integration	• Personalised advice (coach) • Weight loss • Integration with scales	• Enhanced eating tracker • Integration with smart food scales
METRICS The metrics to determine if the goal has been met	Be in the top 15 diabetes app six weeks after launch	Activations, engagement, NPS	Revenue from in-app purchases two weeks after release	Engagement, NPS, monthly recurring revenue

© Roman Pichler

Introduced by Roman Pichler, Image source: https://www.romanpichler.com/blog/goal-oriented-agile-product-roadmap/

Ideation Enhanced by ChatGPT

- Facilitate creation of new ideas for future features

Rapid Idea Generation (during brainstorming sessions)

Market Research

Customer Persona Development

Competitive Analysis

Problem-Solving and Troubleshooting

Roadmaps and Product Discovery

Try It!

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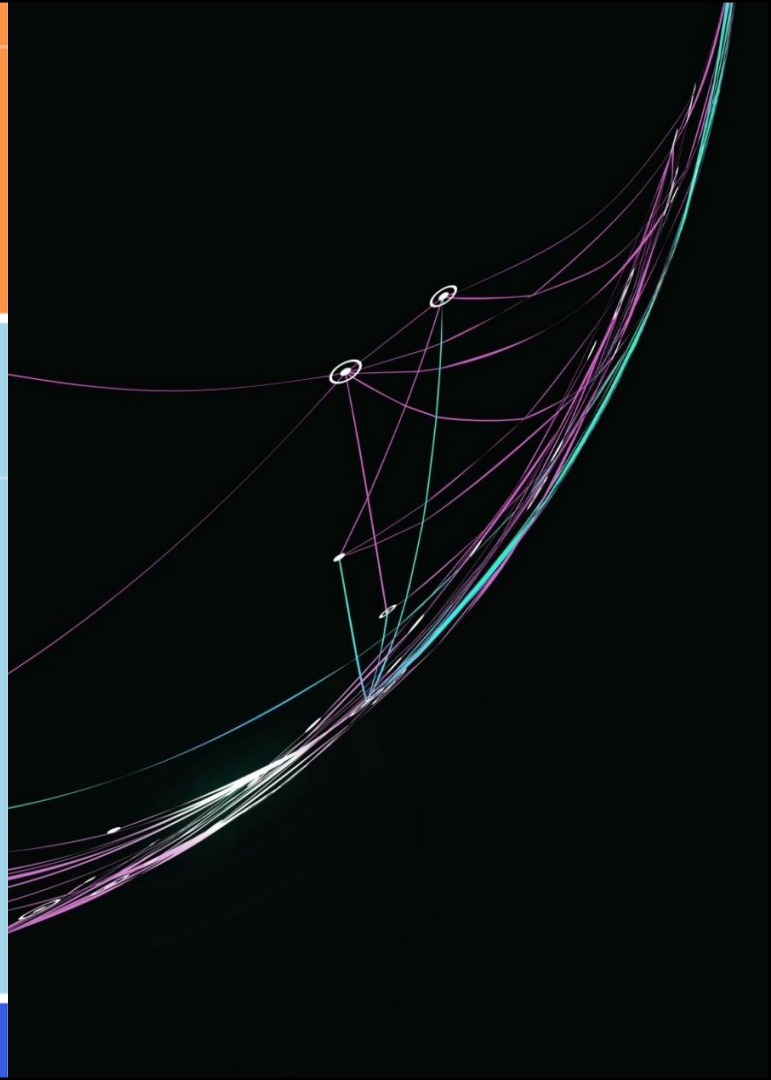
Conclusion



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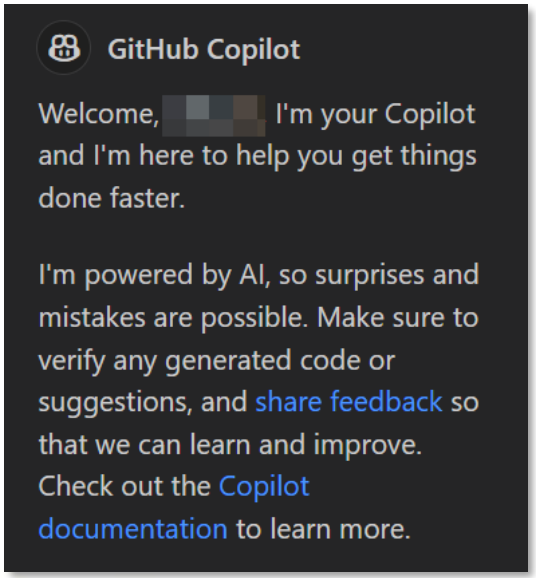
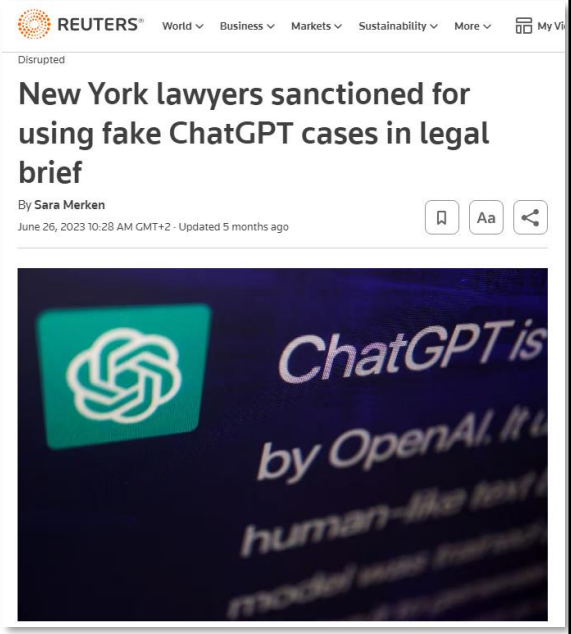
Caution: Verify AI-Generated Content

- AI-generated content may contain errors or fabrications
- Verify every result
- When unsure, use ChatGPT to check itself



Ask for sources
Cross verify
Request detailed explanations
Compare multiple responses
Stay aware of its limitations



Amplifying Product Management with ChatGPT

- Seamless Team Collaboration on Requirements
- Context-Aware Requirement Management
- Complete Test Coverage
- Familiar AI Capabilities
- Enhances iterative and incremental approach to problem solving
- Higher efficiency and effectiveness

Conference attendees get 15% discount on course prices. Contact us at training@agilist.hr

Ana Roje Ivančić, arojeivancic@agilist.hr, Ognjen Bajić, obajic@agilist.hr
www.agilitistit.com, training@agilist.hr

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