

# Inhalte des Moduls

## Vorlesung

Mittwoch, 11:30 Uhr über Zoom

Inhalte der Vorlesung:

- **Data Manipulation (Bullshit):** The Art of Skepticism in a Data Driven World
- **Data Handling:** Handling of Data in different scenarios
- **Data Privacy:** Protecting the Privacy & Integrity of Data
- **Data Driven Innovation:** Innovative Business & Applications
- **Project Management:** Managing Projects successfully
- **Business Systems:** Relevant Enterprise Software Systems
- **Emerging Technologies:** Implications of selected Technologies
- **Machine Learning I, II, III:** Overview of ML Techniques & Methods
- **ML & Robotics:** Current Developments & Implications

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## Projektarbeit

Donnerstag, 13:15 Uhr über Zoom

Drei toolgestützte Datenanalysen selbstständig unter Anleitung durchführen und in Form einer **wissenschaftlichen Arbeit toolgestützt** dokumentieren.

- **Selbstlernkurse** über StudOn
- **digitales Tutorium** über Zoom

salesforce



# Anwendungen und Rahmenbedingungen von Data Science und Machine Learning in Unternehmen und in einer datengetriebenen Welt kennen und einschätzen lernen.



1. Bullshit with Data:
2. Personal Data Handling:
3. Protect Data:
4. Data Driven Innovation:
5. Project Management:
6. Business Systems:
7. Emerging Technologies:
8. Machine Learning I, II, III:
9. ML & Robotics:

**The Art of Skepticism in a Data Driven World**  
Handling of Data in Different Scenarios  
Protecting the Privacy & Integrity of Data  
Innovative Business & Applications  
Managing Projects successfully  
Relevant Enterprise Software Systems  
Implications of selected Technologies  
Overview of ML Techniques & Methods  
Current Developments & Implications

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# 4 Managing Projects

## - How to Manage Projects Successfully?

### Content:

1. Motivation & Basics
2. Agile vs Traditional Project Management
3. Agile with KANBAN
4. Agile with SCRUM
5. Agile Culture at Spotify
6. Summary

# 4 Managing Projects

- How to Manage Projects Successfully?  
(2) Agile vs Traditional Project Management



**Agile vs Traditional (Waterfall)**

AGILE DEVELOPMENT	WATERFALL DEVELOPMENT
I can peddle through the street	I still can't do anything with this
I can cycle through the city	I still can't do anything with this
I can drive to another city	Now I can finally drive
I can drive through the country	

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# 4 Managing Projects

- How to Manage Projects Successfully?  
(3) Agile Project Management with **KANBAN**



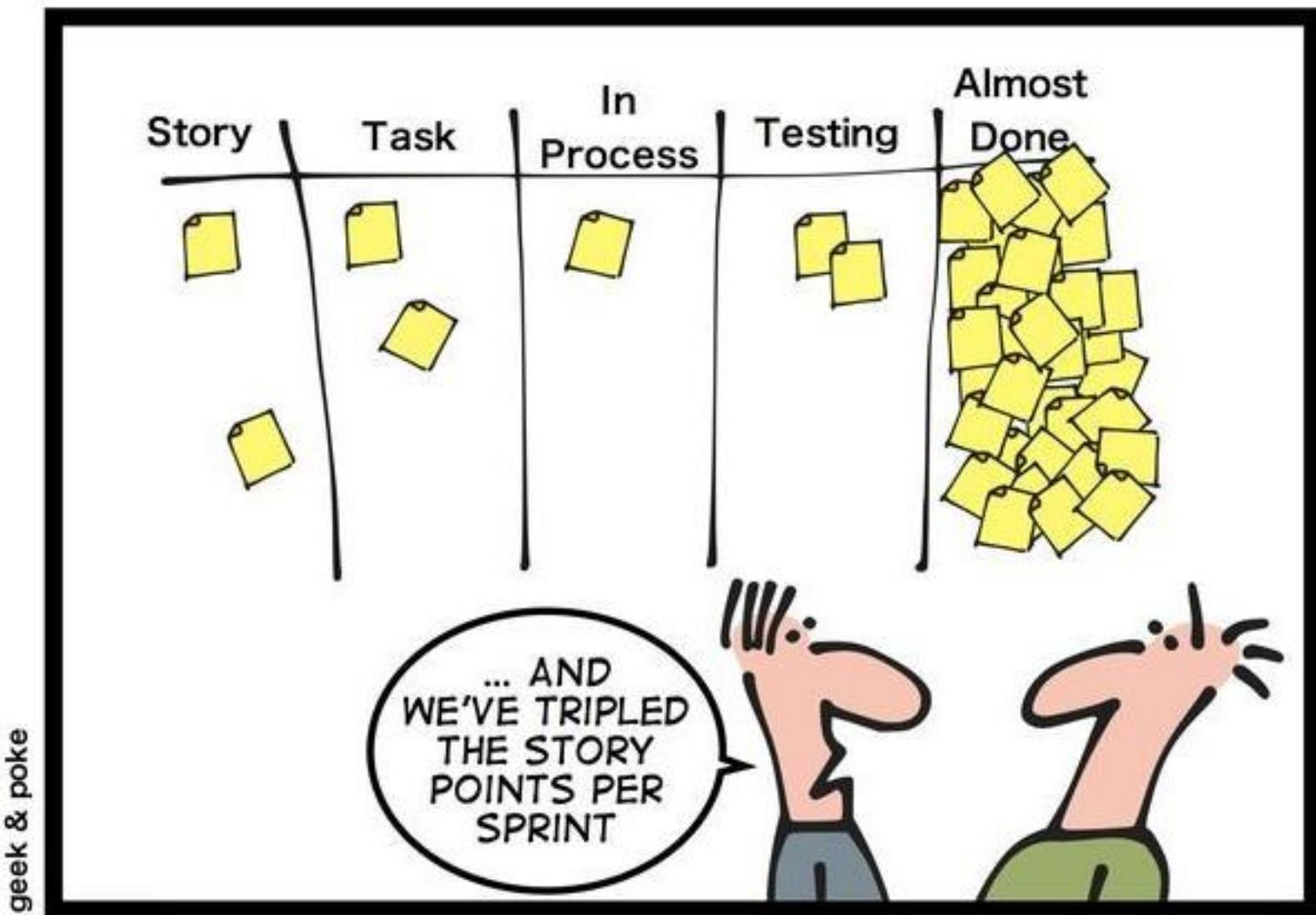
Personal KANBAN Board - Example



Team KANBAN Board - Example



# A Problem in Agile Project Management



DOAD

# 4 Managing Projects

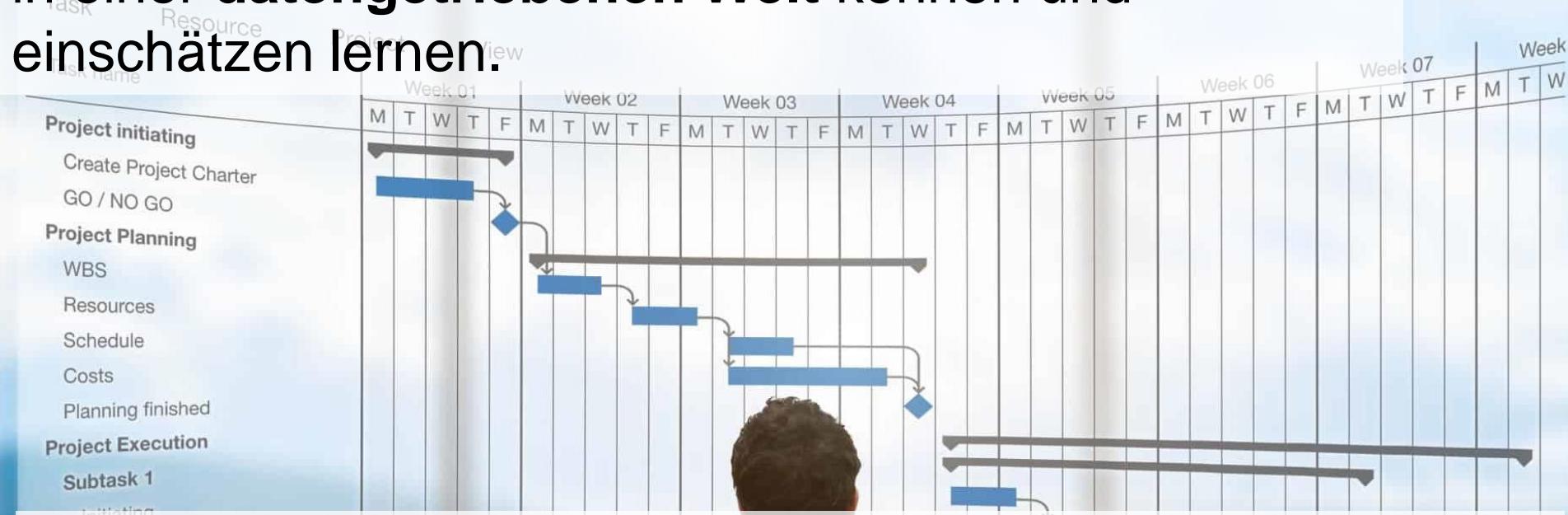
- How to Manage Projects Successfully?  
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- Zentrale **Grundlagen** des Projektmanagements.
  - **Gemeinsamkeiten** und **Unterschiede** von **Agiles** vs **Traditionelles** Projektmanagement.
  - **Agiles** Projektmanagement mit **KANBAN** und **SCRUM**.
  - Wie Sie **studentische Projekte** besser planen können.

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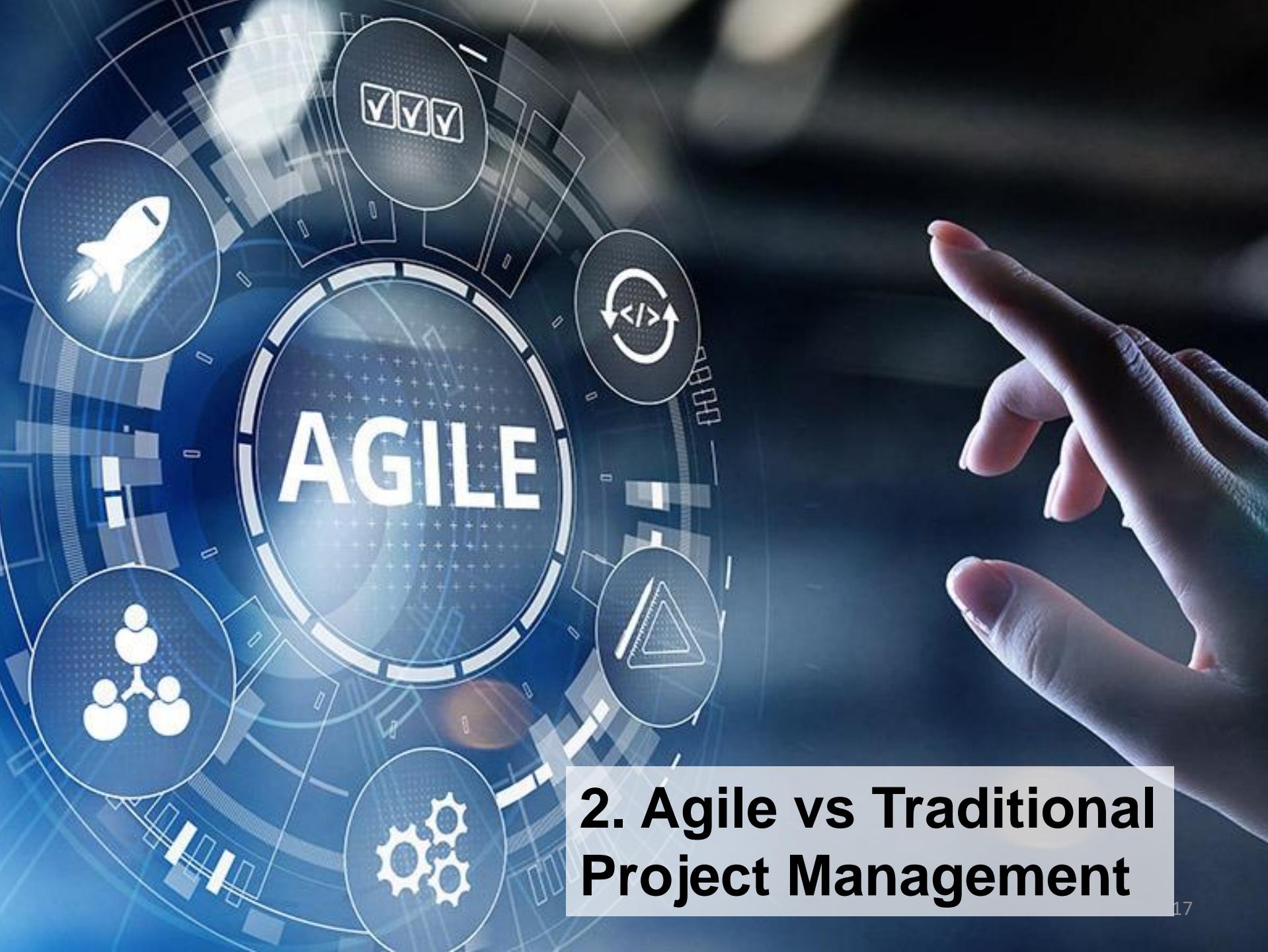


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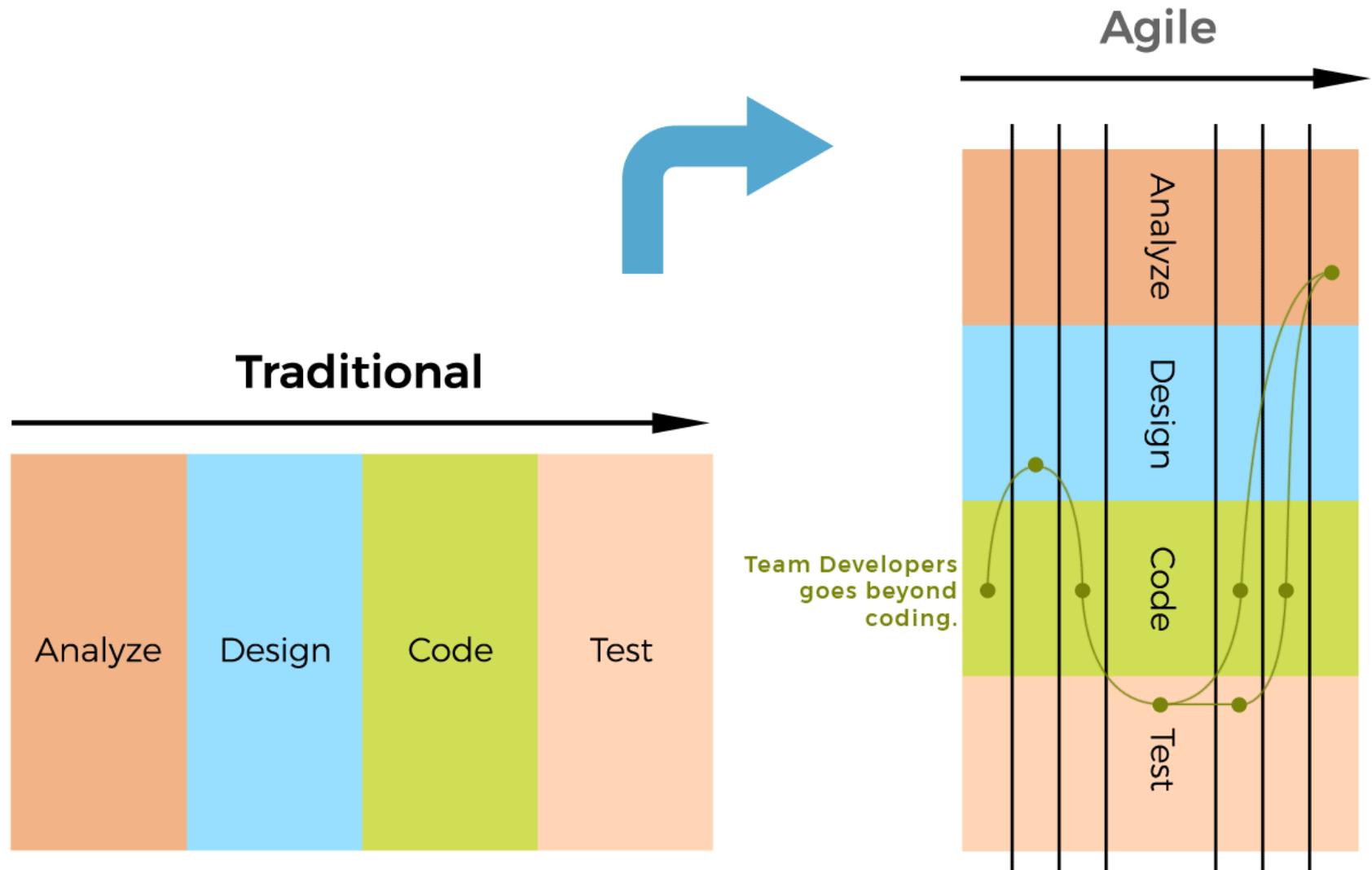
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**Relevant Enterprise Software Systems**  
**Implications of selected Technologies**  
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## 2. Agile vs Traditional Project Management

# Agile vs Traditional Project Management



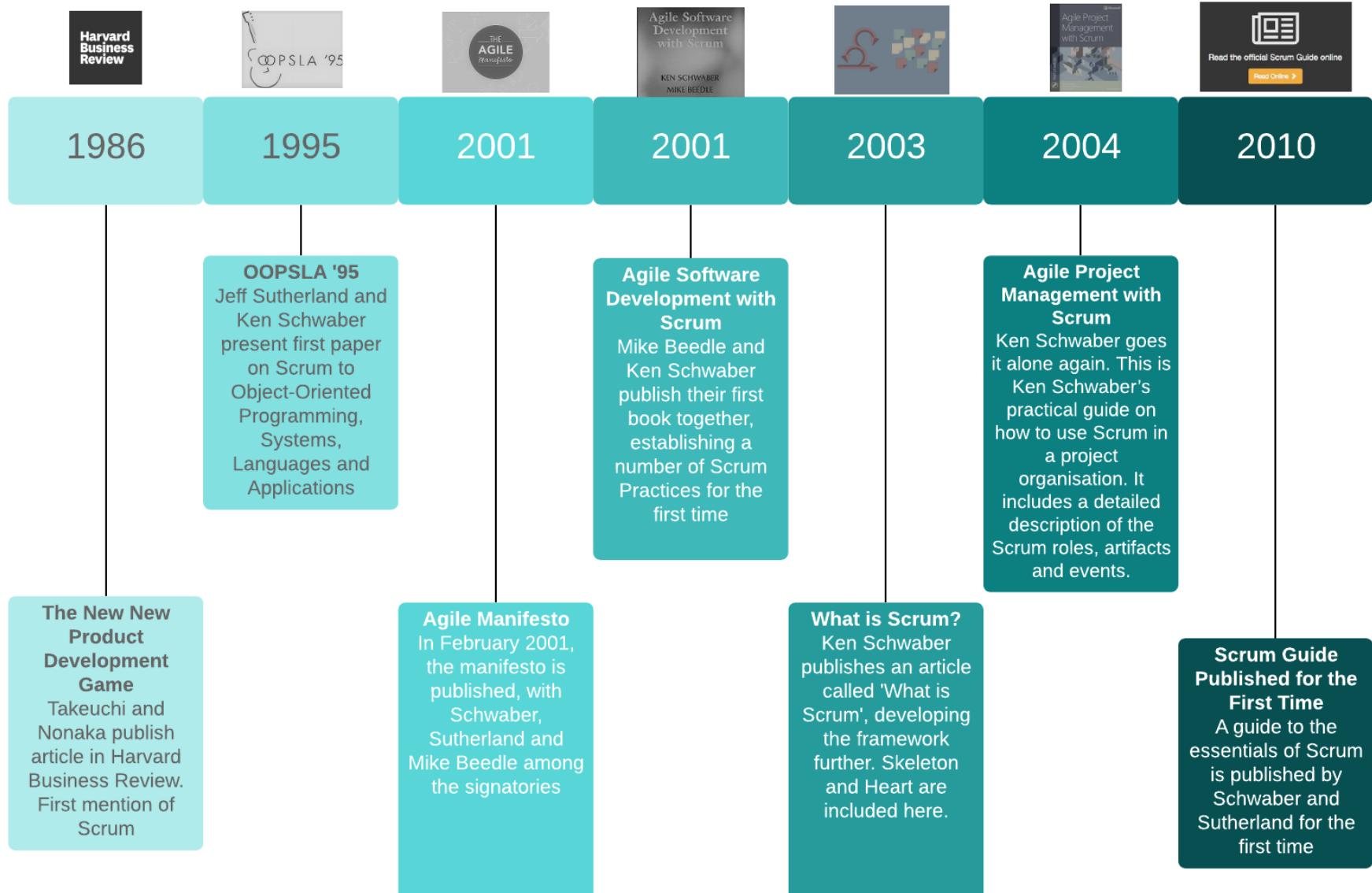
Once a stage is finished, the next stage begins.

Teams reiterate between vertical lines.

# Scrum & Agile Software Development: A History

## Schwaber and Sutherland's Scrum Timeline

Paddy Corry, Serious Scrum



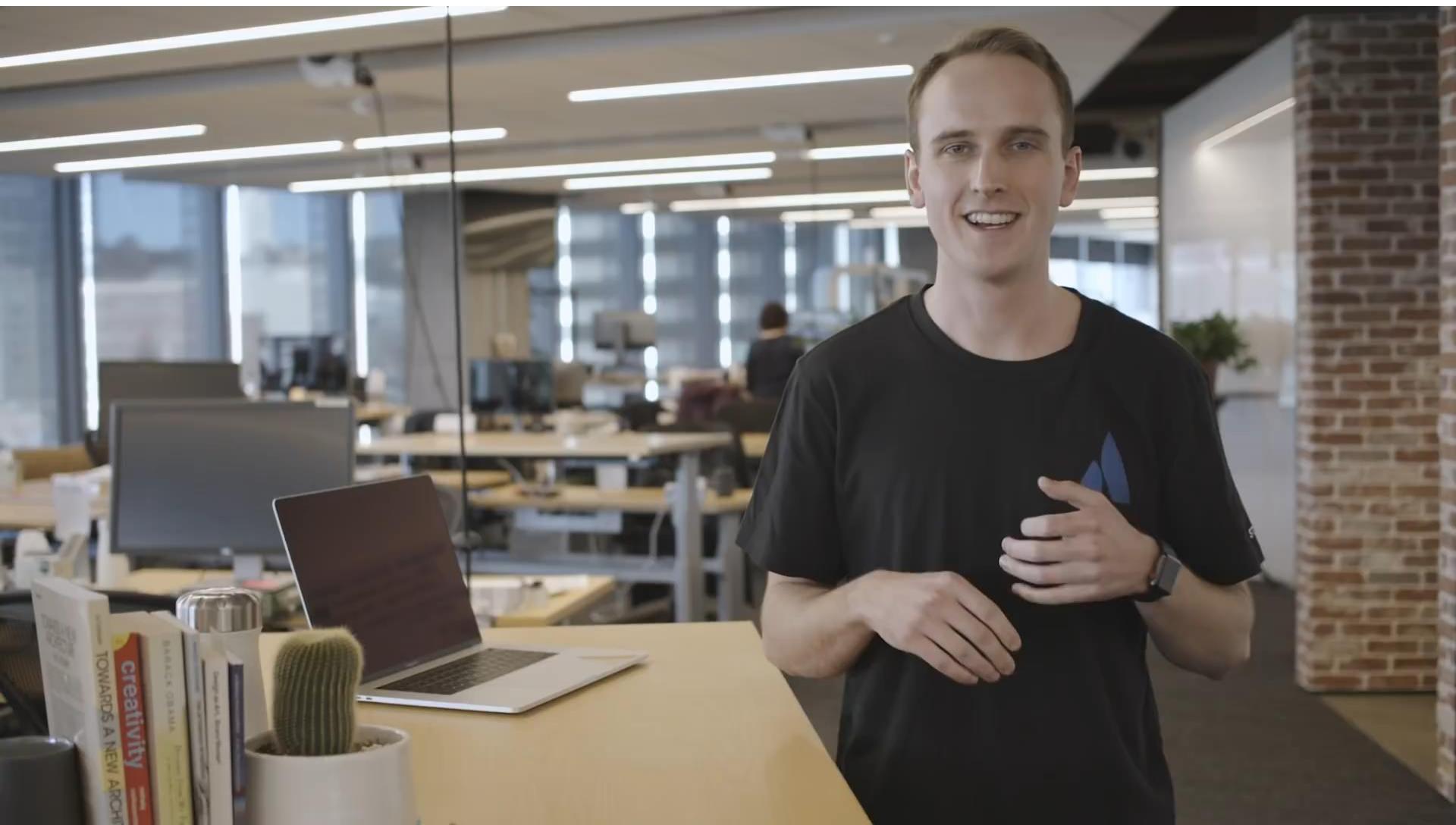
# Michael Amberg

## Todays Content:

- 1. Motivation & Basics**
- 2. Agile vs Traditional Project Management (PM)**
- 3. Agile with KANBAN**
- 4. Agile with SCRUM**
- 5. Agile Culture at Spotify**
- 6. Summary**



# KANBAN Board – A Project Management Tool



What is a Kanban Board? - Agile Coach (2019)  
[www.youtube.com/watch?v=Bcid33tgq8A](https://www.youtube.com/watch?v=Bcid33tgq8A)

Laut Wikipedia versteht man unter „**Project Management**“:

“**Project management** is the **practice** of **initiating, planning, executing, controlling, and closing** the work of a **team** to achieve **specific goals** and meet **specific success criteria** at the **specified time**.

A **project** is a **temporary endeavor** designed to produce a unique **product, service or result** with a **defined beginning** and **end** (usually **time-constrained**, and often constrained by **funding or staffing**) undertaken to meet **unique goals** and **objectives**.

The **temporary nature** of projects stands in **contrast** with **business as usual** (or operations), which are repetitive, permanent, or semi-permanent functional activities...”

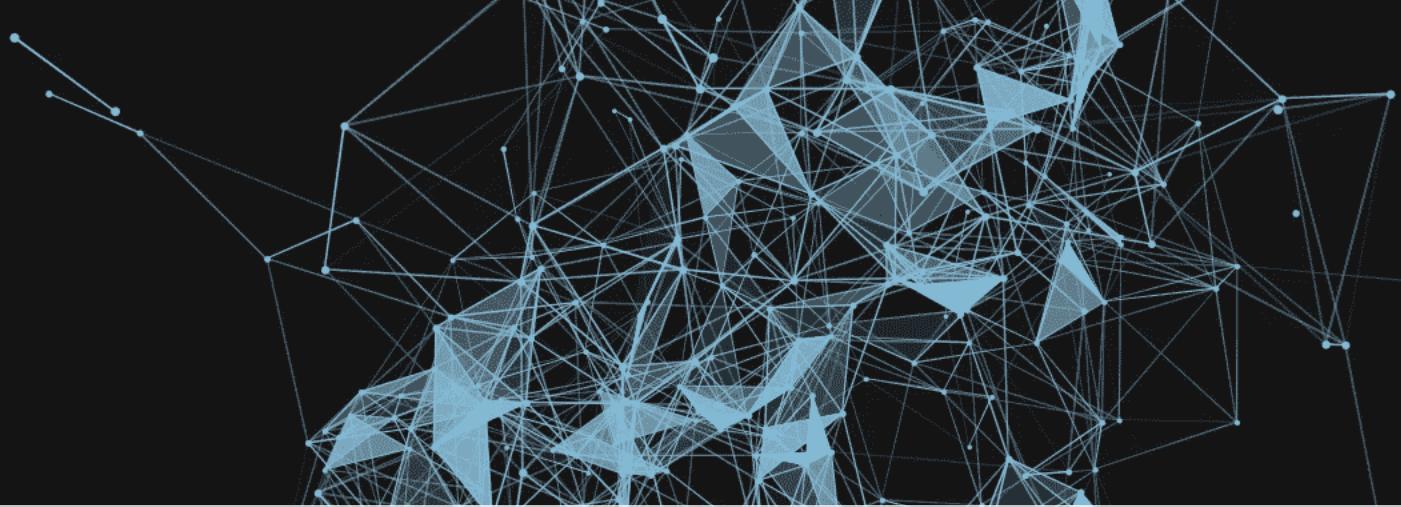
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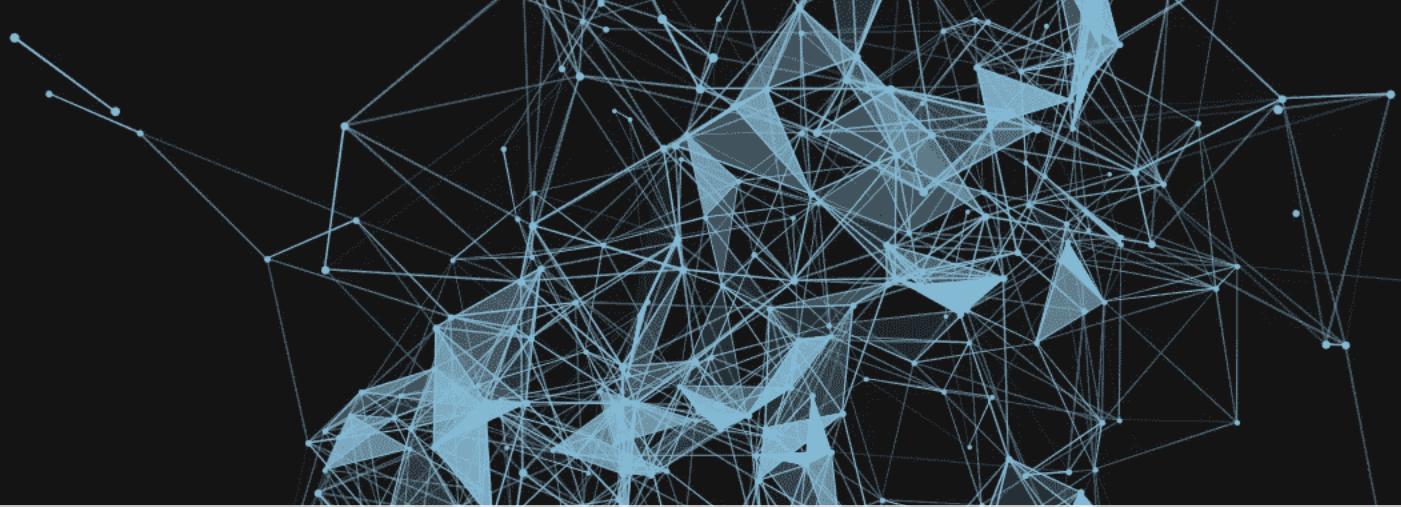
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