

Beyond Numbers: Leading Projects, Designing Processes

Int. To Mathematical Engineering
Yıldız Technical University



Presented by
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Infrastructure Process Engineer



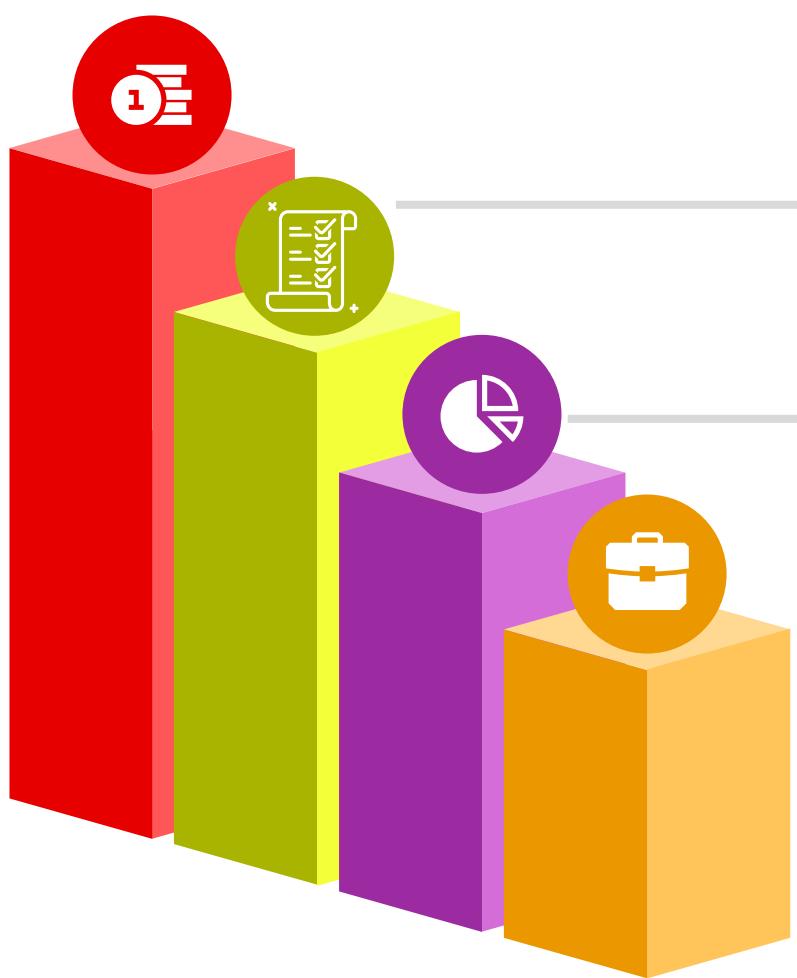
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Agenda

- My Career Journey
- Backbone of Technology: IT Infrastructure
- Project Management
- Business Process Management (BPM)
- Closing & Key Takeaways
- Career Opportunities at Vodafone
- Q&A



My Career Journey



Infrastructure Process Engineer, Vodafone

Jul 2023- Now

Discover, Vodafone

Aug 2022- Jun 2023

Long-Term Intern, Vodafone

Feb 2022- Jul 2022

Mathematical Engineering, YTU

Sep 2017- Jun 2022



Backbone of Technology: IT Infrastructure

What is IT Infrastructure?

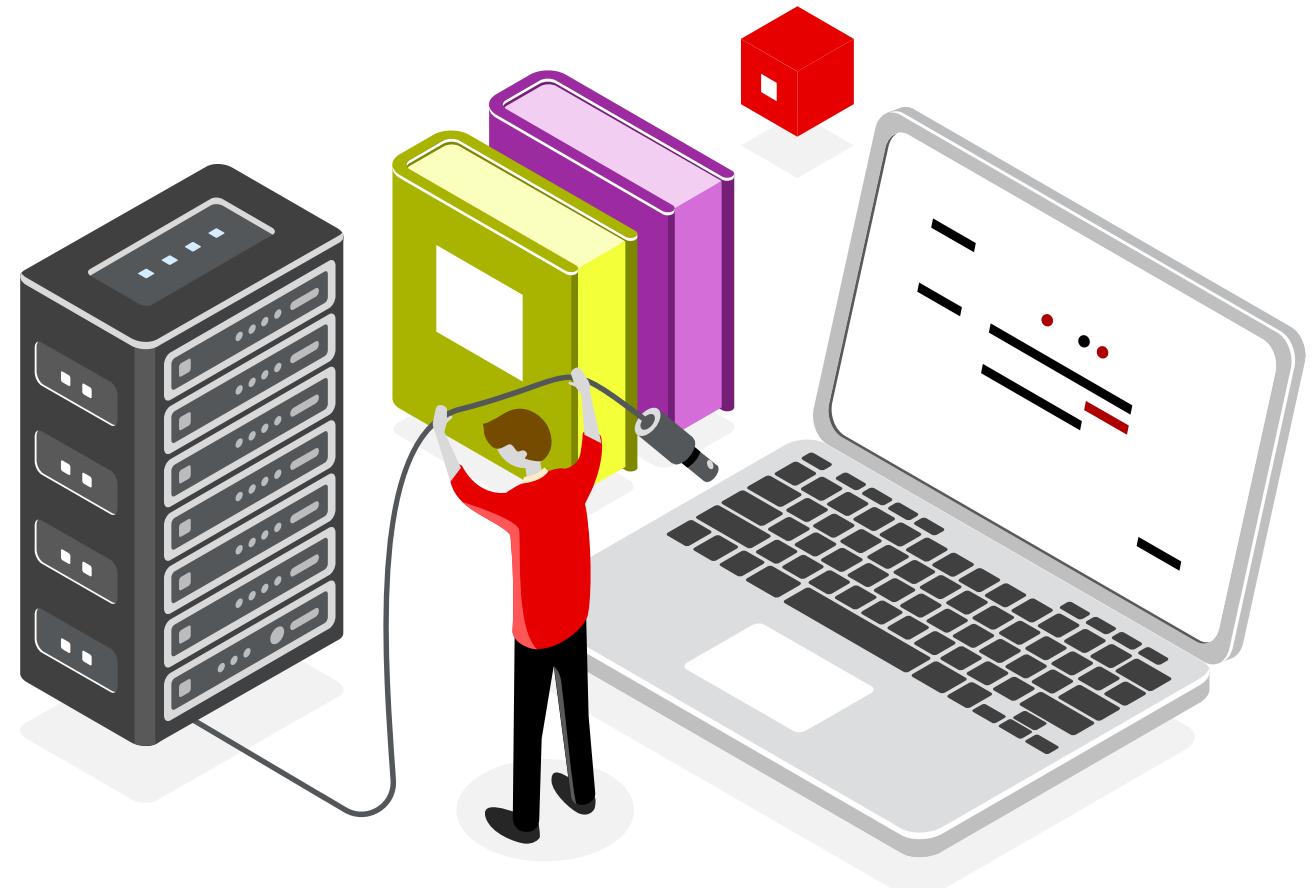
“IT Infrastructure is the invisible foundation that makes technology and digital services work.”

Why is it Important?

- Without infrastructure, the internet, apps, and cloud services would not exist.
- It ensures systems are **stable, secure, and always available.**
- Strong infrastructure enables advanced technologies like **5G, AI, and cloud computing**

Key Components

- **Servers** → Run applications
- **Storage** → Keep data safe
- **Databases** → Organize and manage information
- **Networks** → Connect everything together



Project Management - Introduction

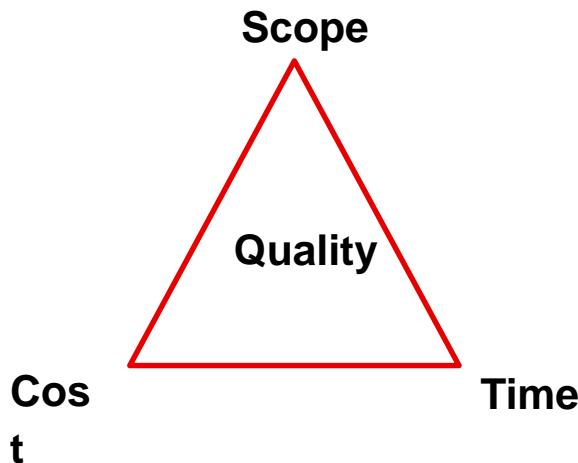


Definition

"Project management is the discipline of planning, organizing, and managing resources to deliver a unique product, service, or result within defined constraints."

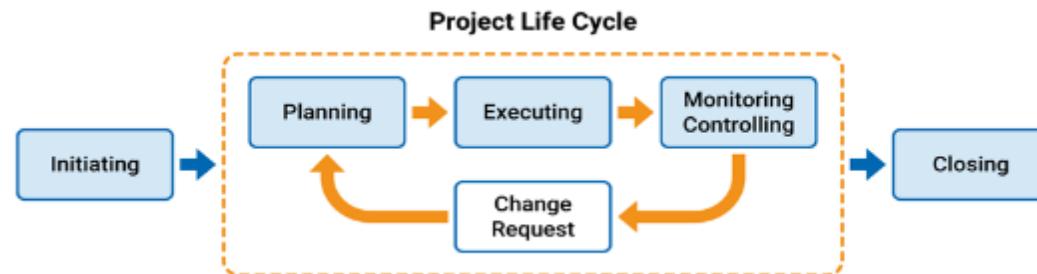
- **The Triple Constraint of Project Management**

Every project must balance scope, time, and cost – changing one will affect the others.



- **Project Life Cycle**

Every project follows a life cycle that guides it from the initial idea to final delivery.



Project Management – Methodologies

Frameworks & Methodologies

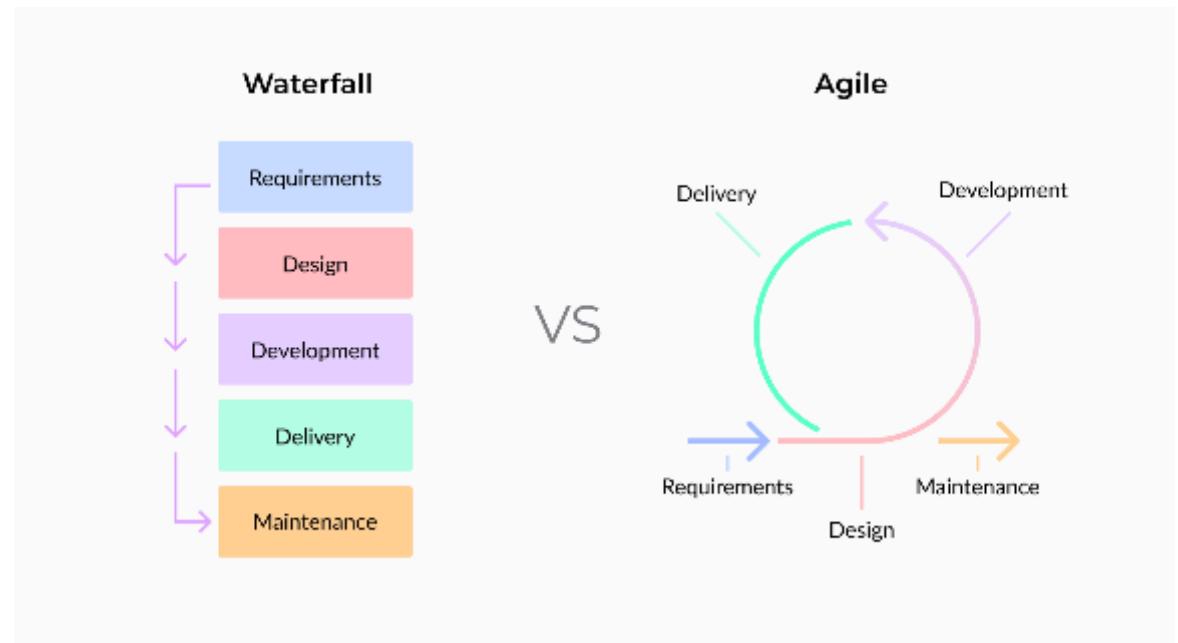
Project management methodologies are structured approaches that define how to plan, execute, and control projects effectively. There are more than 20 different methodologies, and there is no single way to manage projects — the right one depends on the project's nature and goals.

Most Common Methodologies



Waterfall vs Agile: Understanding the Key Differences

Waterfall follows a step-by-step structure, while Agile focuses on flexibility, short cycles, and continuous improvement.



Project Management – The Cornerstones of Success



Stakeholder Management

Stakeholders are individuals or groups who can affect or be affected by a project. Their engagement is critical for alignment and success.

Key Practices:

- Understand stakeholder needs
- Communicate transparently
- Engage regularly
- Use clear, jargon-free language

“Projects succeed when stakeholders feel heard, informed, and valued.”



Risk Management

A risk is any uncertain event or condition that could affect a project's scope, schedule, budget, or quality. Risks can be positive (opportunities) or negative (threats).

Key Practices:

- Identify potential risks
- Analyze probability and impact
- Prioritize high-impact, high-probability risks
- Develop a response plan

“Managing risks proactively increases project resilience and the likelihood of success.”



Communication Management

A communication plan ensures that crucial information is delivered to the right people at the right time, fostering teamwork and minimizing confusion.

Key Practices:

- Identify stakeholders
- Define objectives
- Specify methods
- Set frequency
- Assign responsibility

“Strong communication keeps everyone aligned, builds trust and prevents issues before they grow.”



Project Management – Success Factors & Tools

Key Success Factors

- Clear objectives & defined scope
- Strong leadership & teamwork
- Effective communication
- Risk awareness & control
- Stakeholder collaboration
- Flexibility to change

“Good project management turns challenges into opportunities.”

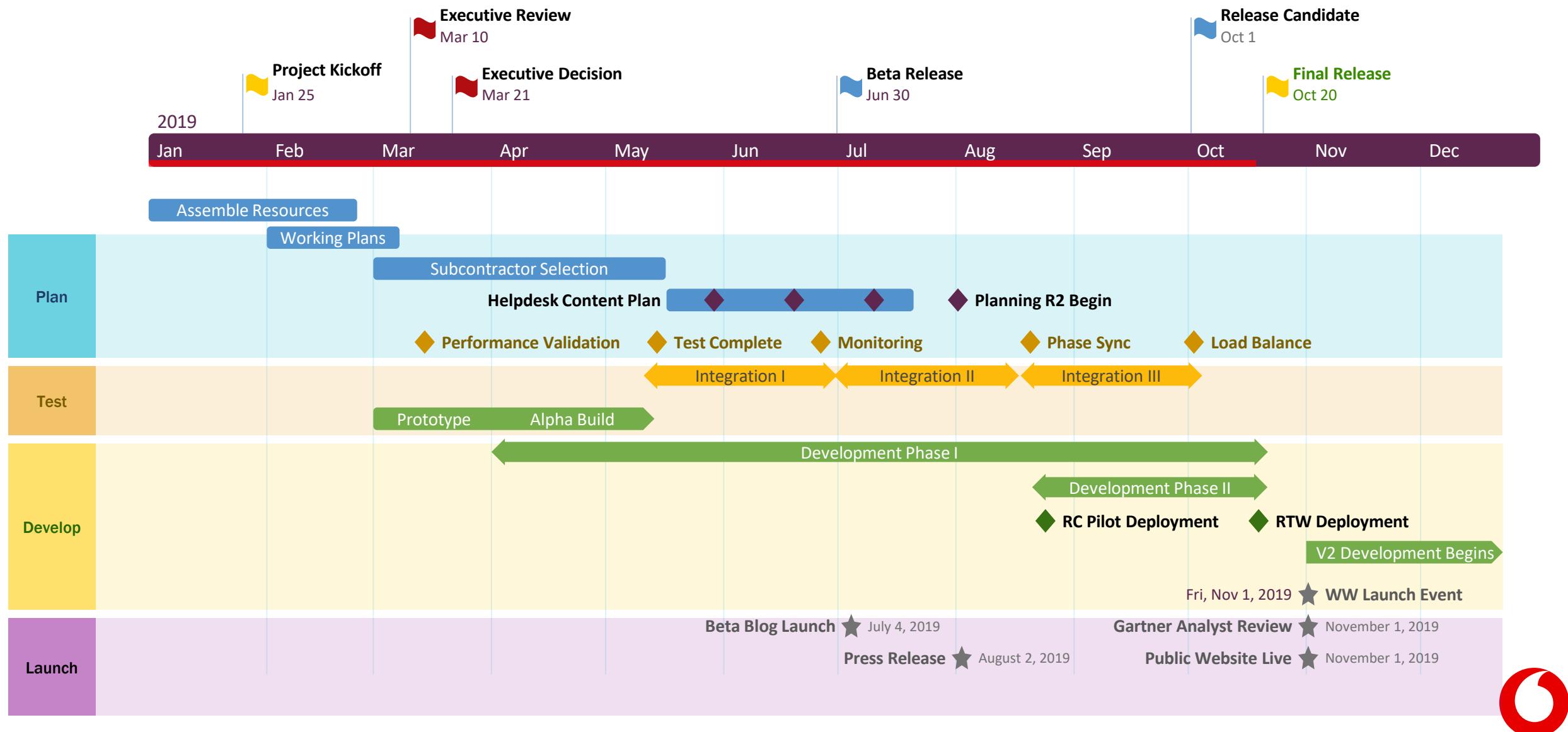
Common Tools

- Jira – Agile boards, sprint tracking
- MS Project – Scheduling, Gantt charts
- Trello – Simple Kanban tracking
- Confluence / SharePoint – Collaboration, documentation
- Excel / Power BI – Dashboards, KPIs

Successful project management is achieved through clear objectives, effective communication, and the right tools – all supported by strong leadership and continuous improvement.



Project Management – Sample Project Plan



Project Management : A Silent Symphony

Turning chaos into harmony – the true role of a project management.



Business Process Management (BPM) – Introduction

Definition:

Business Process Management (BPM) is a structured approach to designing, executing, monitoring, and improving business processes to achieve organizational goals.



Purpose:

- Increase efficiency and quality
- Reduce manual effort and errors
- Ensure processes are measurable and improvable

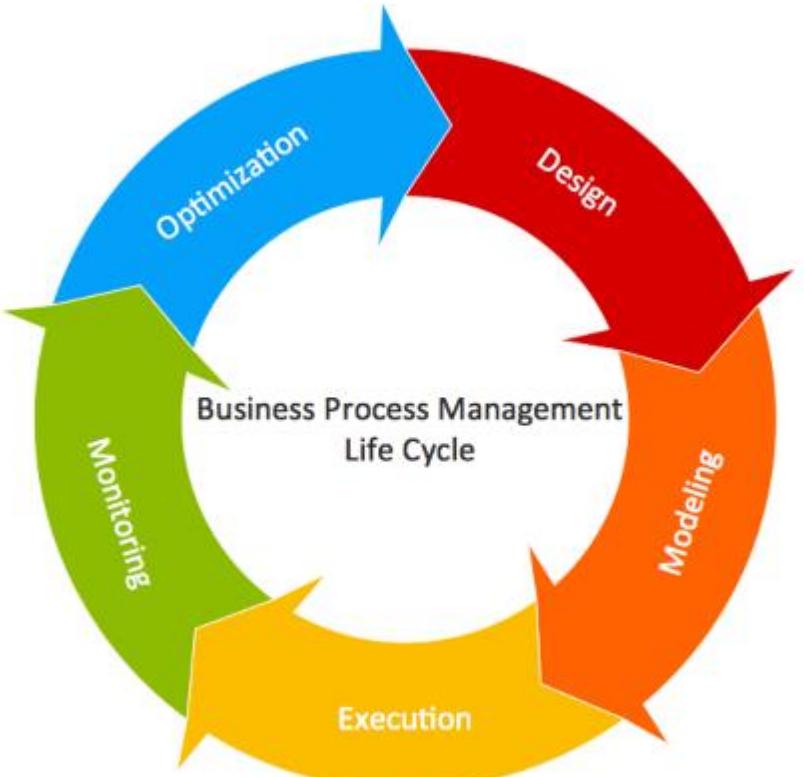
Analogy:

“While project management focuses on one-time goals, BPM focuses on how everyday work continuously flows.”

“Good BPM connects people, systems, and data to deliver consistent results.”



Business Process Management (BPM) - From Design to Optimization



Business Process Management follows a continuous cycle designed to make workflows more efficient, measurable, and adaptable.

Each phase builds on the previous one to create a system of **constant improvement**.

1. **Design** : Define the goal, scope, and people involved.
□ “From idea to plan.”
2. **Model**: Visualize the workflow using tools like flowcharts or BPMN.
■ “Simulate before applying.”
3. **Execute**: Run the process using real systems or automation tools.
⌚ “Turn plan into action.”
4. **Monitor**: Track key metrics – time, cost, and performance.
📈 “Measure to improve.”
5. **Optimize**: Identify issues and improve continuously.
⌚ “Each improvement leads to the next.”



Business Process Management (BPM) - Techniques & Tools



BPM tools and techniques help organizations **visualize, automate, and continuously improve** their processes for better efficiency and quality.

“*Techniques build better processes – tools help bring them to life.*”



Techniques

- **Standardization:** Define a single, efficient way to perform each task.
- **Continuous Improvement (Kaizen):** Make small, ongoing enhancements.
- **Automation:** Replace manual steps with technology.
- **Measurement:** Track time, cost, and performance to find bottlenecks.
- **Optimization:** Simplify complex workflows to reduce waste and effort.



Tools

- **Visio / Lucidchart:** Process design and visualization
- **ServiceNow / Jira:** Workflow management and automation
- **Power BI / Excel:** Monitoring KPIs and reporting performance
- **Power Automate / UiPath:** Automating repetitive tasks
- **Miro / Draw.io:** Collaboration and brainstorming



Closing & Key Takeaways

Connecting Projects, Processes, and People

“Great results come from clear goals, smart processes, and strong collaboration.”

Key Takeaways:

- Project Management → Helps teams achieve defined goals
- Process Management (BPM) → Keeps daily operations efficient and measurable
- Together, they build a culture of improvement and innovation.

🔗 Useful Learning Links:

Project Management Resources

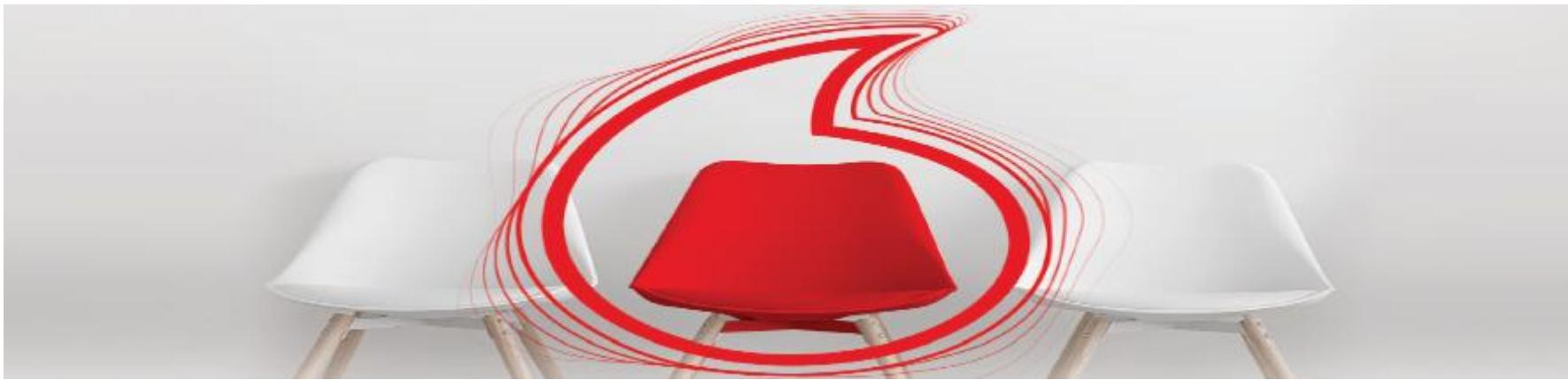
- [Project Management Institute \(PMI\)](#) – Global standards, certifications, and knowledge base
- [Coursera: Project Management Basics](#) – Free introductory course
- [Atlassian Agile Coach](#) – Learn Agile, Scrum, and Kanban methods

Process Management (BPM) Resources

- [Lucidchart Process Mapping Guide](#) – Visualize and document processes
- [IBM BPM Overview](#) – Fundamentals of BPM and automation
- [Lean Six Sigma Online](#) – Continuous improvement principles



Career Opportunities at Vodafone



Vodafone is a global technology company operating in more than 100 countries, offering diverse career paths and international growth opportunities for young talents.

🌐 Global Opportunities

As a truly global company, Vodafone offers cross-country collaborations and international mobility programs that help you grow beyond borders.

Discover Programme

Discover Graduate Programme is Vodafone's global career programme designed for **4th-year students and recent graduates**. It offers **rotational experience, structured learning, and international exposure**, empowering young talents to build their careers in technology and innovation.

⌚ 18 Years

• 800+ Graduates • 60% Women – 40% Men

Long-Term Internship

💻 Long-Term Internship Programme

Our internship program gives university students real project experience within Vodafone teams — helping you build skills, confidence, and a professional network early on.



Q&A

