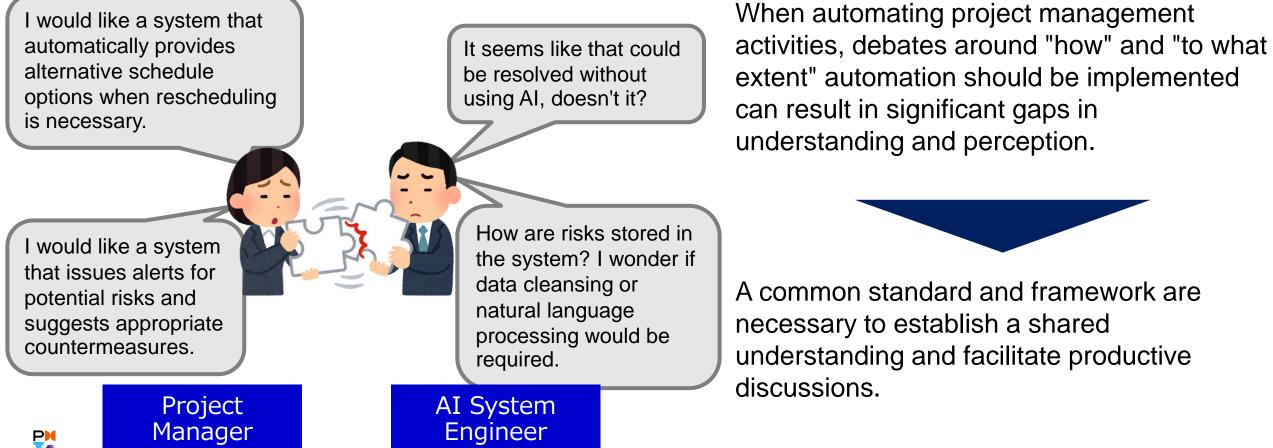
AI Level Definition in Project Management (Supplementary Materials)

 $\times 1$ In this document, we will explain AI level definitions and abbreviations.

Assignment

In increasingly diverse projects, differences in participants' industry backgrounds, management skills, and knowledge can lead to varying interpretations of implementation methods and the content of discussions.



Solution Ideas

With a shared standard and framework in place, communication becomes much more effective and coherent!

I would like a Level 2 schedule automation system that automatically suggests schedule adjustments when the SPI exceeds a predefined threshold.

I need a system that can issue a "risk alert" and propose countermeasures if any content in the weekly report corresponds to previous non-conformities. This might be classified as Risk Automation Level 3 or 4, but I recommend conducting a feasibility study to confirm this.

Project Manager

AI System Engineer

Let's integrate an SPI monitoring batch process and scheduling logic that triggers automatic adjustments based on the batch results into the current scheduling tool!

For the non-conformance registration system, since the type of issue can be selected from predefined categories, it can generally be managed at Level 3. However, for language processing in weekly reports, let's validate the capabilities with real data to determine the necessary scope of development.

2. Background of the AI Level Definition Development

3. How was the AI Level Definition developed?

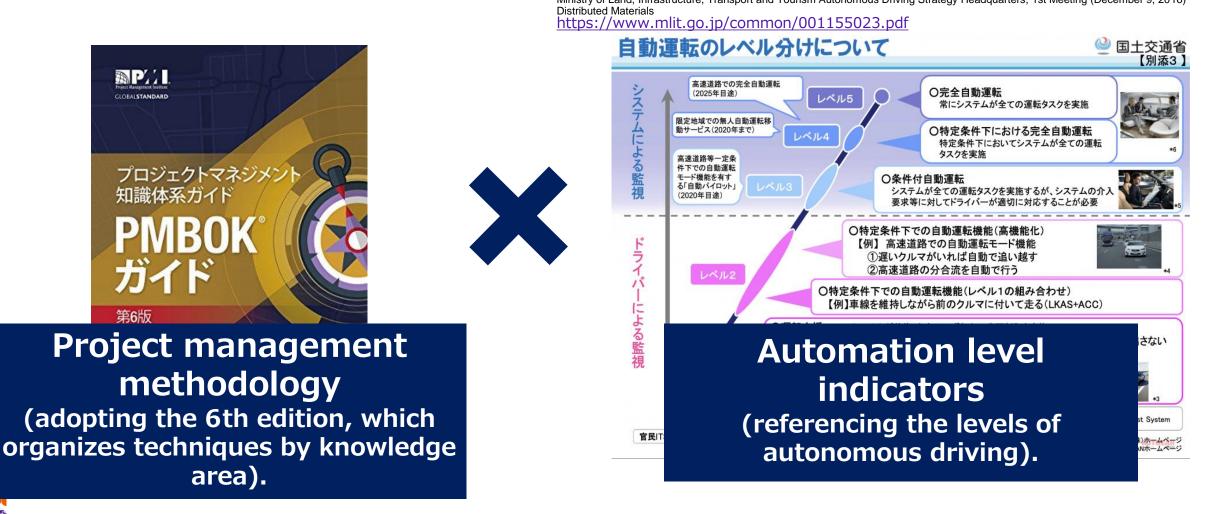
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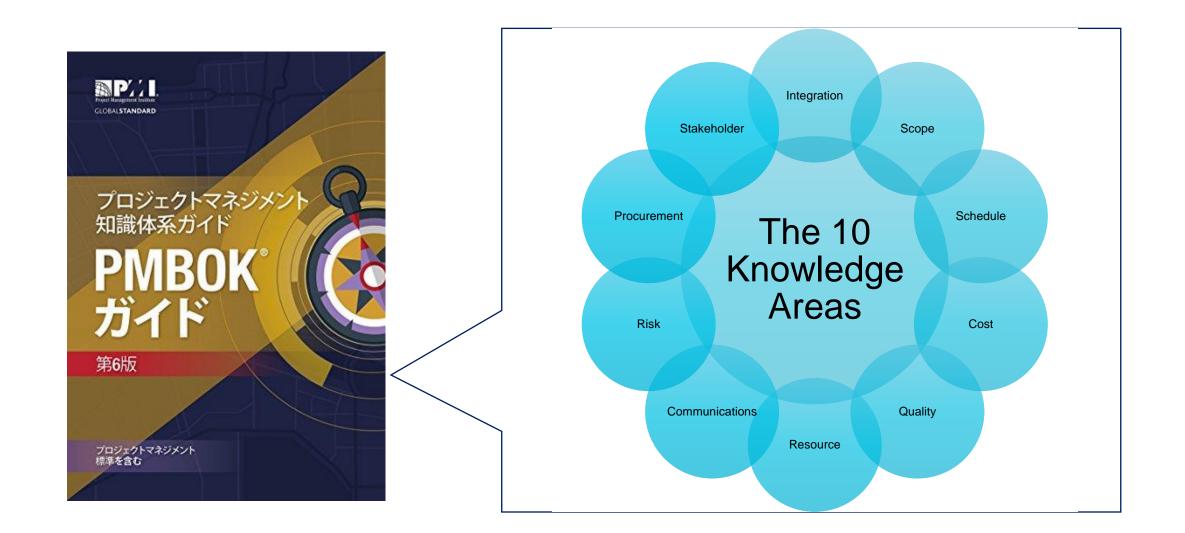
Overall structure of AI level definitions

"Automation Level Indicators" for "Project Management Tools and Techniques"

⇒ Indicators that clearly classify the level of automation in project management activities.



Features 1 : Definitions are provided for each knowledge area of project management.



Features 2 : Criteria for automation are established, which serve as benchmarks for classification.

The levels of automation

Level 0	Information management only, without control.
Level 1	Operates with simple control algorithms.
Level 2	Chooses parameter combinations based on the situation.
Level 3	Increases response patterns as the user of the AI specifies learning methods.
Level 4	Tests hypotheses and learns continuously from data to enhance response patterns.

Features 3 : The classification criteria and examples are designed to be accessible and understandable for a broad audience.

Examples of entries in the project schedule management knowledge area

Level	Concept	Example				
Level 0	Only individual task schedule information is managed. When the schedule for each task is updated, the revised information can be viewed, but the overall impact on the entire schedule cannot be determined.	 Create and update task lists. Set deadlines for individual tasks. When the project schedule is updated, it is necessary to manually update the schedule information for the affected processes. 				
Level 1	hen the schedule is updated, the affected processes are identified, and adjustments are made automatically.	 If the workload of the process owner exceeds capacity, the schedule is automatically extended. When the schedule is changed, the system automatically selects feasible schedule options, such as setting executable dates within the deadline for the affected processes. 				
Level 2	If sch autor appro processes aligned with different	 If the SPI (Schedule Performance Index) exceeds the threshold, the system au Concrete examples of rocess or to address t automated processes at lation 				
Level 3	E ase predi and eautomation levels makes the classification criteria clearly understandable.	• ased on the (Earned Value after previous process exteneach level allow for more identification and differentiation.as EVM bccurred ther tion and				
Level 4	In addition to past schedule updates, if project-related information is provided, the system automatically identifies relevant features, predicts potential threshold breaches,	 implements the necessary actions. By identifying the correlation between failed risk mitigation efforts and the characteristics of process owners, the system predicts potential schedule delays, evaluates multiple options, and determines (2023 PMI Japan Chapter, All Rights Reserved, whether extending the process or using overtime is the optimal 				

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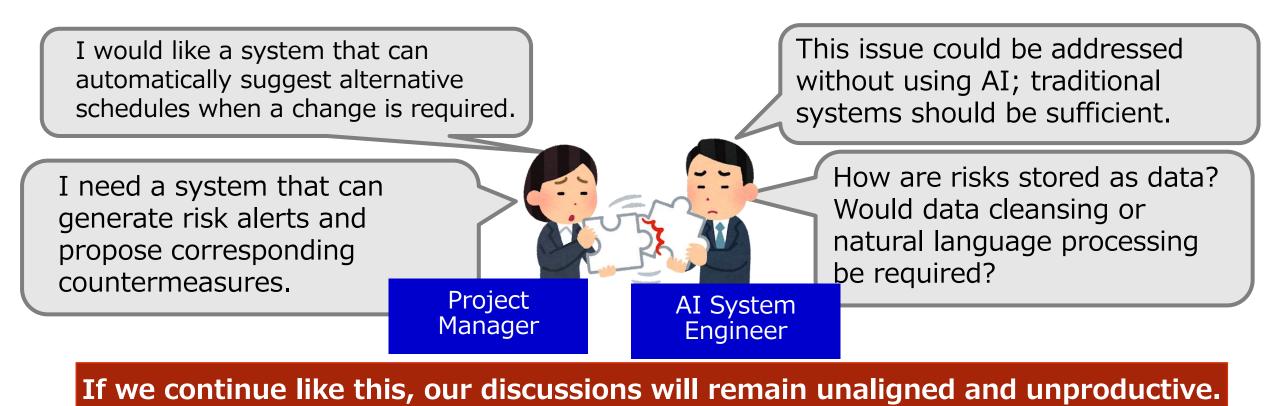
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A Discussion on AI Implementation (Examples of Miscommunication)

[Differences in Problem Awareness]: Different industries have varying perspectives and focus points when identifying issues. [Differences in Solution Approaches]: Solving complex problems requires knowledge of multiple solution methods, which can vary widely.

[Differences in Data Environments]: The nature of accumulated data differs significantly, so comprehensive validation is necessary for effective implementation.



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2. Background of the AI Level Definition Development

Insights from the Review Results

It is necessary to establish a framework for conversations before introducing AI.

2. Background of the AI Level Definition Development

Investigation of best practices for communication solutions.

自動運転のレベル分けについて 国土交通省 【別添3】 高速道路での完全自動運転 〇完全自動運転 (2025年日涂) レベル5 常にシステムが全ての運転タスクを実施 限定地域での無人自動運転移 ムによる監視 動サービス(2020年まで) 〇特定条件下における完全自動運転 レベル4 特定条件下においてシステムが全ての運転 タスクを実施 高速道路等一定条 件下での自動運転 モード機能を有す O条件付自動運転 る「自動パイロット」 システムが全ての運転タスクを実施するが、システムの介入 (2020年目途) 要求等に対してドライバーが適切に対応することが必要 〇特定条件下での自動運転機能(高機能化) ドライバ 【例】高速道路での自動運転モード機能 ①遅いクルマがいれば自動で追い越す ②高速道路の分合流を自動で行う 〇特定条件下での自動運転機能(レベル1の組み合わせ) ーによる監視 【例】車線を維持しながら前のクルマに付いて走る(LKAS+ACC) 〇運転支援 システムが前後・左右のいずれかの車両制御を実施 【例】自動で止まる 車線からはみ出さない 前のクルマに付いて走る (自動ブレーキ) (ACC) (LKAS) レベル1

国土交通省自動運転戦略本部 第1回会合(平成28年12月9日) 配布資料 添付2https://www.mlit.go.jp/common/001155023.pdf In autonomous driving, definitions are established to align stakeholder perceptions. This approach could also be applied to the field of project management.

2. Background of the AI Level Definition Development

Advocate

A communication tool designed to facilitate the introduction, operation, and evaluation of AI in project management.





2. Background of the AI Level Definition Development

3. How was the AI Level Definition developed?

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The AI Level Definition was created through discussions with experts from various industries starting in 2020, resulting in its current form.

Knowledge Area	2020						
	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Des.
Project Integration Management							
Project Scope Management							
Project Schedule Management							
Project Cost Management							
Project Quality Management							
Project Resource Management							
Project Communications Management							
Project Risk Management							
Project Procurement Management							
Project Stakeholder Management							

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