

Theodo

AI-Enabled Network of Teams

Fabrice Bernhard

18/07/2024 - Future of People at Work Symposium - Detroit

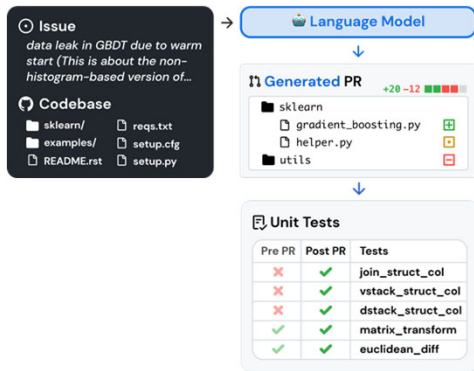
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Agenda

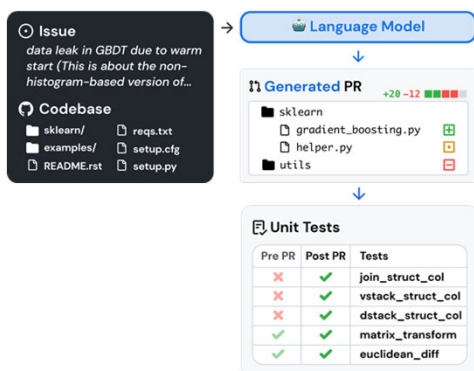
1. The impact of AI in Software Engineering
2. The impact of AI on scalability

Theodo 2

A concrete measure of what it means today: the SWE-bench



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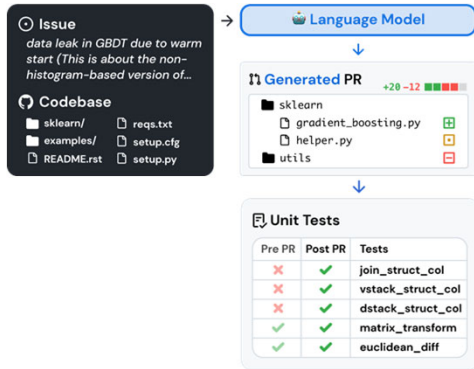


Leaderboard

Model	% Resolved	Date
RAG + Claude 2	1.96	2023-10-10
RAG + GPT 4 (1106)	1.31	2024-04-02
RAG + SWE-Llama 13B	0.70	2023-10-10
RAG + SWE-Llama 7B	0.70	2023-10-10
RAG + ChatGPT 3.5	0.17	2023-10-10

A concrete measure of what it means today: the SWE-bench

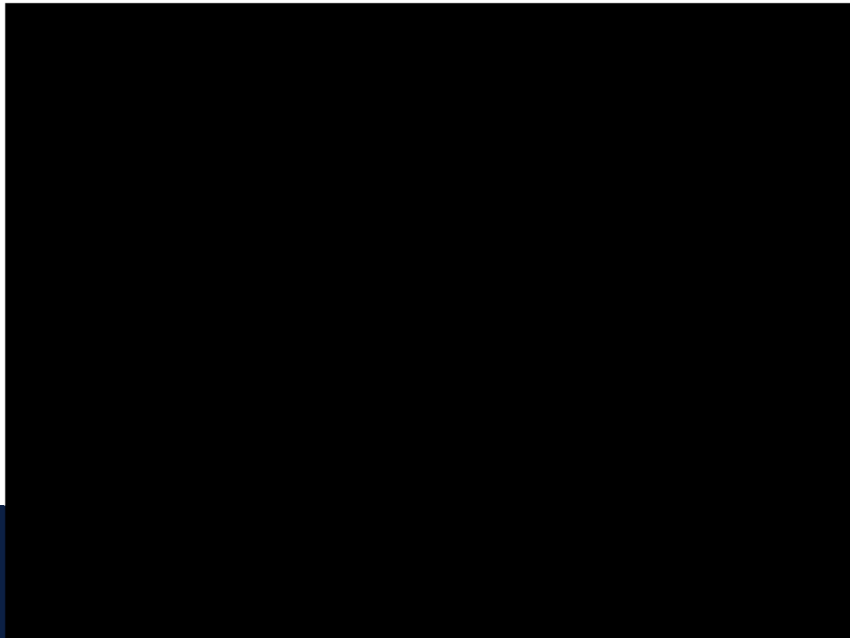
In the last 6 months we went from 1~2%... to 10~20% issues solved by AI!



Leaderboard

Model	% Resolved	Date
Factory Code Droid	19.27	2024-06-17
AutoCodeRover (v20240620) + GPT 4o (2024-05-13)	18.83	2024-06-28
AppMap Navie + GPT 4o (2024-05-13)	14.60	2024-06-15
Amazon Q Developer Agent (v20240430-dev)	13.82	2024-06-08
SWE-agent + GPT 4 (1106)	12.47	2024-04-02
SWE-agent + Claude 3 Opus	10.51	2024-04-02
RAG + Claude 3 Opus	3.79	2024-04-02
RAG + Claude 2	1.96	2023-10-10
RAG + GPT 4 (1106)	1.31	2024-04-02
RAG + SWE-Llama 13B	0.70	2023-10-10
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A demo of GenAI in Software Engineering using Cursor.sh + Claude 3.5

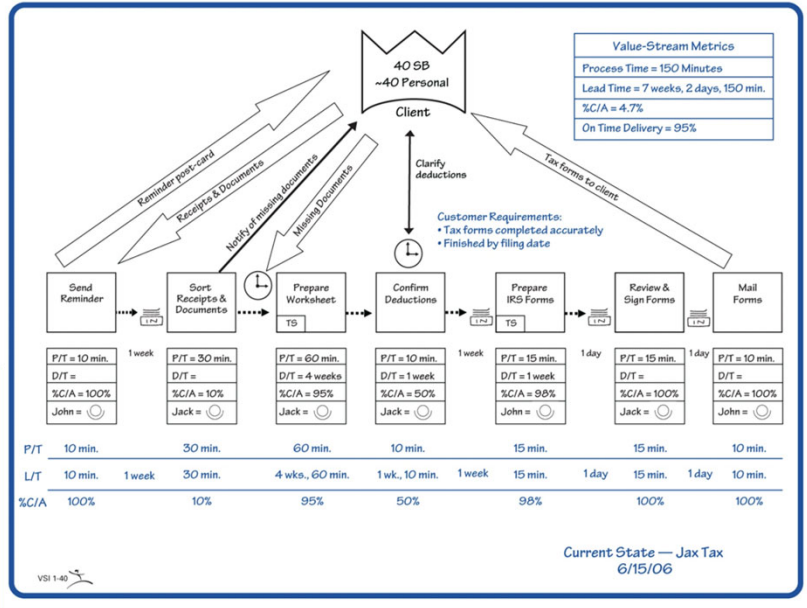


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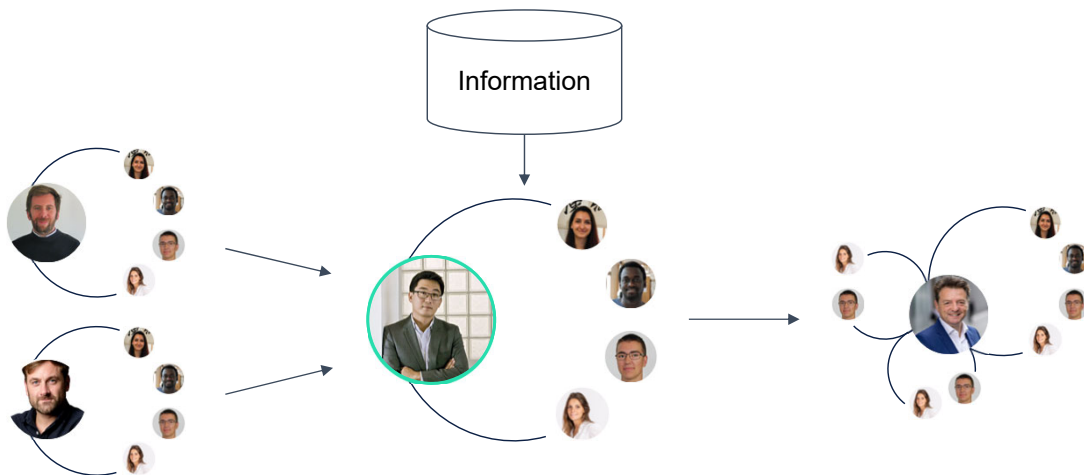
1. The impact of AI in Software Engineering
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That was the impact on one developer.

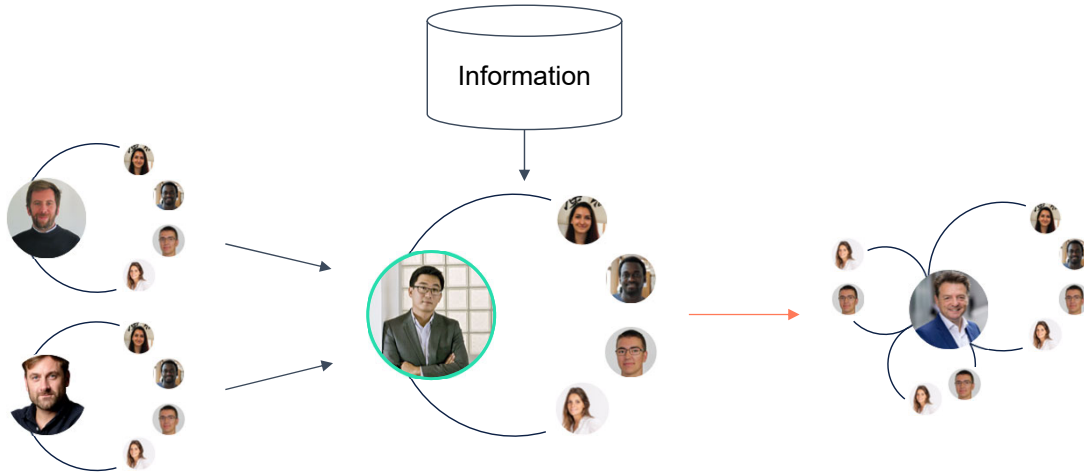
That was the impact on one developer. What about the whole value-stream?



In particular, how can I make a team more autonomous using AI?

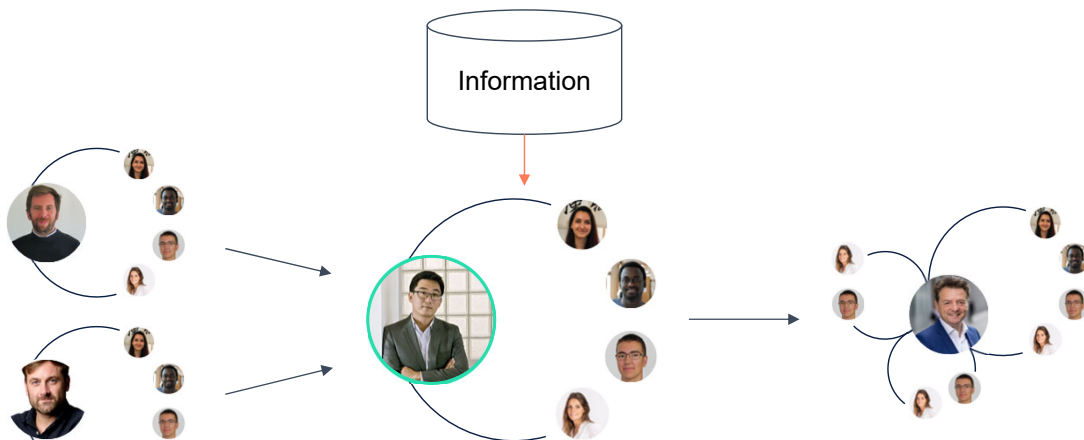


In particular, how can I make a team more autonomous using AI?



1. Reduce validation lead-time from the downstream team

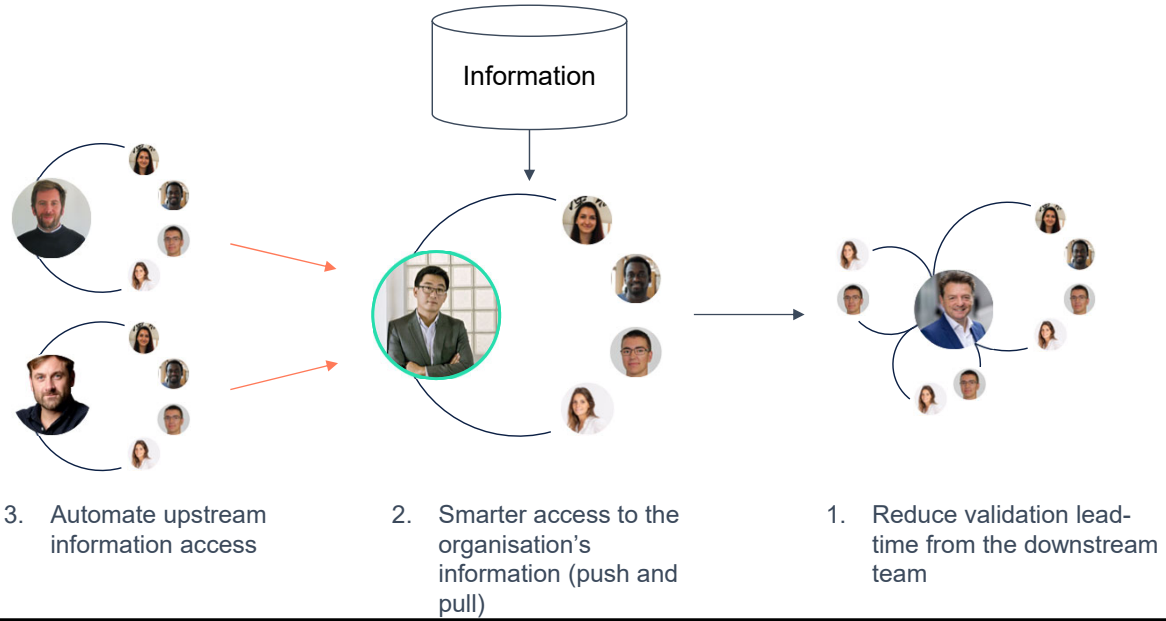
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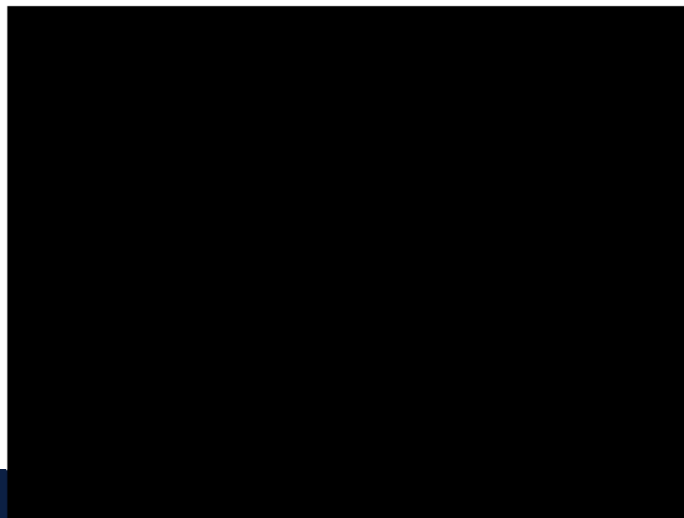
2. Smarter access to the organisation's information (push and pull)

1. Reduce validation lead-time from the downstream team

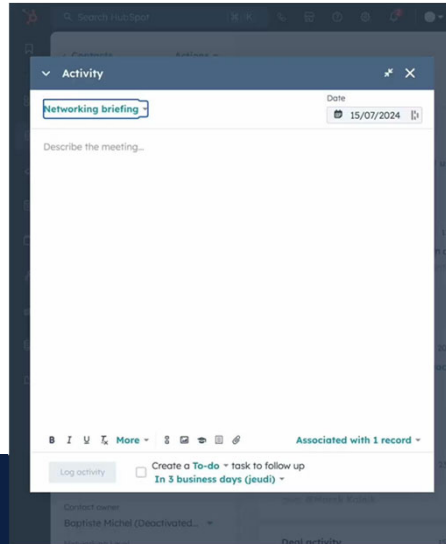
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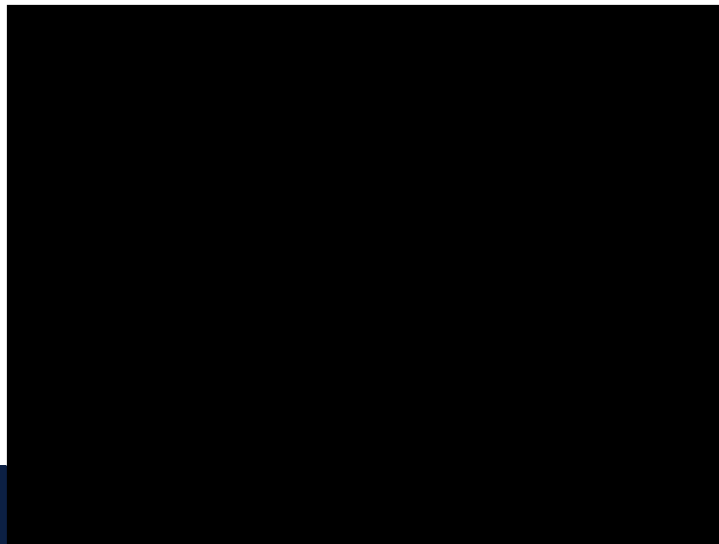
Example #1: AI shift left Simulate the downstream validation to reduce rework



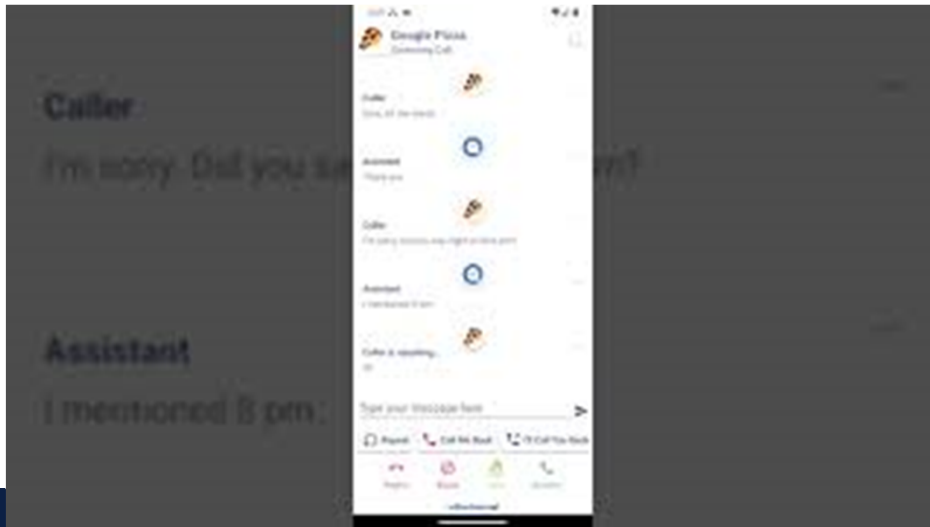
Example #2a: Pull organisational information Identify insights in large volumes of text data



Example #2b: Context-push of organisational information Create awareness on existing work relevant to context



Example #3: APIfication of a team dependency



Example #3b: APIfication of a team dependency

Build New Robot

Select a category below so we can show you more relevant instructions.
Regardless of the category you choose, you will be able to enable monitoring after the robot is created.

Most Popular

#	Date	Position	Image URL	Product Name	Price
1	2021-04-16 16:18:00pm	1	https://i.ebayimg.com/images/g/...	SAMSUNG S9F Class	\$327.99
2	2021-04-16 16:18:00pm	2	https://i.ebayimg.com/images/g/...	SAMSUNG S9F Class	\$307.99
3	2021-04-16 16:18:00pm	3	https://i.ebayimg.com/images/g/...	SAMSUNG S9F Class	\$499
4	2021-04-16 16:18:00pm	4	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
5	2021-04-16 16:18:00pm	5	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
6	2021-04-16 16:18:00pm	6	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
7	2021-04-16 16:18:00pm	7	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
8	2021-04-16 16:18:00pm	8	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
9	2021-04-16 16:18:00pm	9	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
10	2021-04-16 16:18:00pm	10	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
11	2021-04-16 16:18:00pm	11	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299
12	2021-04-16 16:18:00pm	12	https://i.ebayimg.com/images/g/...	Hisense S9F Class 4K	\$299

Extract Structured Data

Extract structured data from any website with no code! Download data as a spreadsheet or integrate it with your software using Browse AI API.

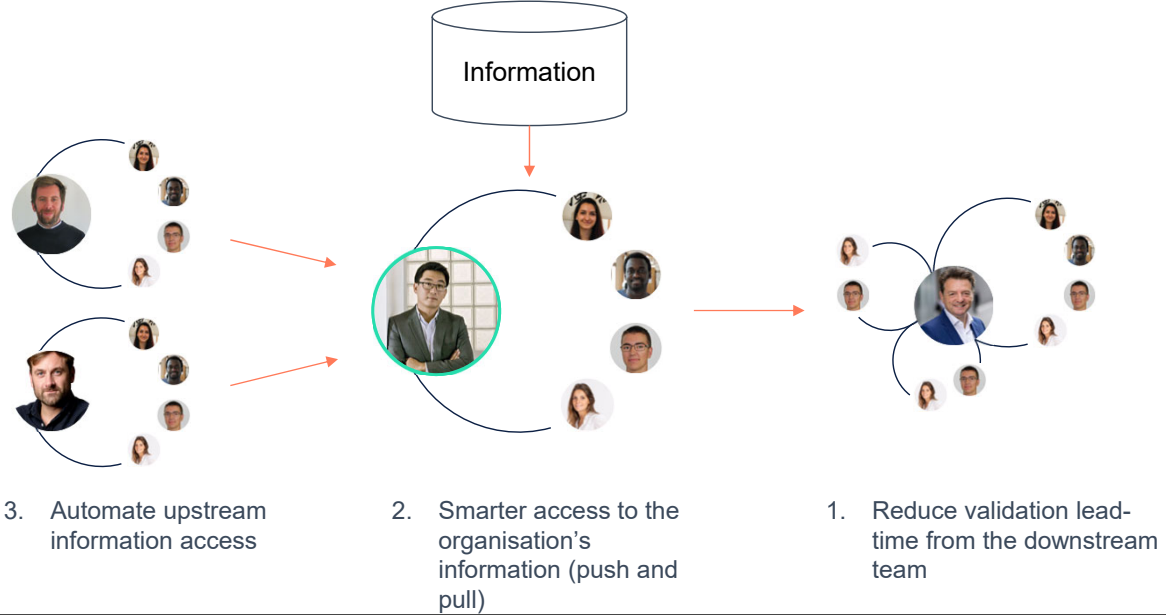
Name	Previous Price	New Price
SAMSUNG S9F Class	\$327.99	\$307.99 -Row removed
SAMSUNG S9F Class	\$397.99	\$417.99 -\$20.00
SAMSUNG S9F Class	\$499	\$499 -Row added
Hisense S9F Class 4K	\$299	\$299
Hisense S9F Class 4K	\$299	\$264 -\$34.00

Monitor Site Changes

Monitor your competitors and get notified when they change their website or their listings on other sites.

[Help](#)

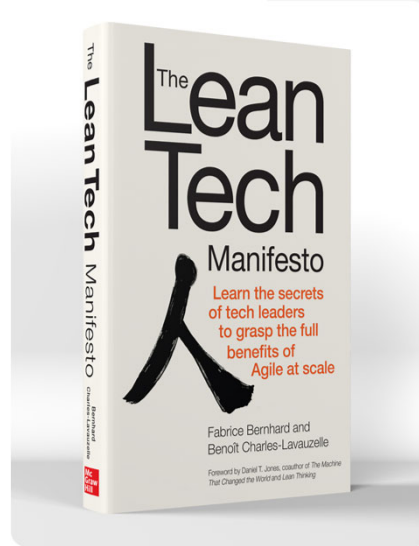
AI enables a more networked organisation by reducing the three types of team dependencies in every organisation



I hope this presentation will give you some inspiration for this symposium

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**Thank
you!**



**Fabrice
BERNHARD**

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