

INTRODUCTION TO MICROSOFT COPILOT TUNING

HAS ALTAIAR

RAPID CIRCLE – CHIEF AI OFFICER



»» HELLO

HAS ALTAIAR – CHIEF AI OFFICER (RAPID CIRCLE)

LINKEDIN: <https://www.linkedin.com/in/altaiar/>

TWITTER: <https://x.com/hasaltaiar>

WEB: <https://www.hasaltaiar.com.au/>

WHAT IS COPILOT TUNING?



WHAT IS COPILOT TUNING?

Copilot Tuning is a set of low-code “eyes-off” fine-tuning capabilities in copilot studio using your own data. This enables building context-aware agents as experts in performing specific tasks

WHAT IS COPILOT TUNING?

- Tailoring Large Language Models (LLMs) for specific tasks
- Augmenting RAG solutions and prompt optimisations
- Especially useful for emphasising the domain, expertise, knowledge for specific problems.
- Starting with 3 specific task types
 - Document Generation
 - Summarisation & Analysis
 - Expert Q&A

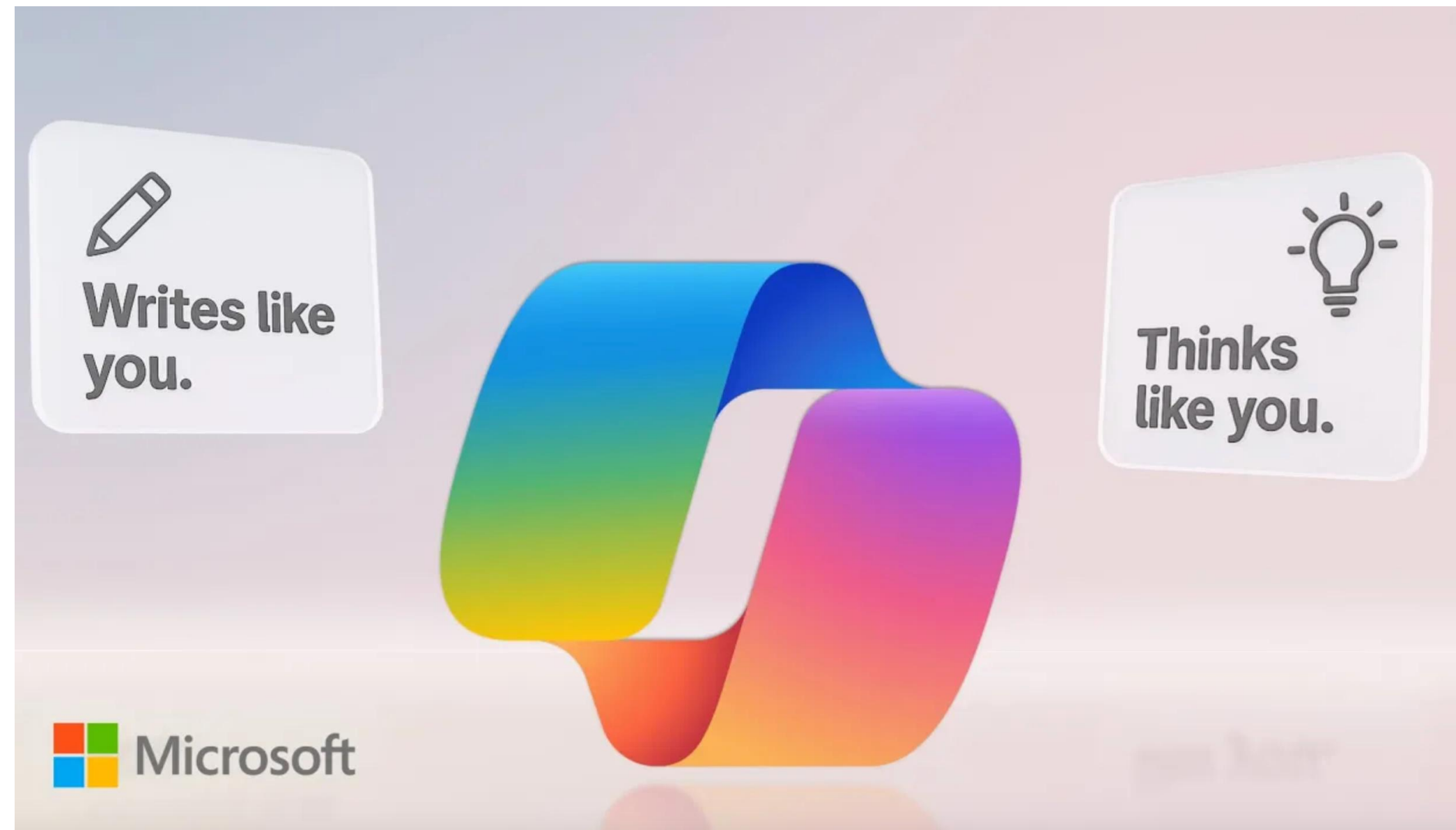
COPILOT TUNING?

Model Fine-tuning Technique



MANAGED / ABSTRACTED TASKS

- Simplified Data Selection
- Data Ingestion and processing
- Access Lists (ACLs) are built-in – The model preserve data ACLs and ensures alignment access/use of the data.
- Pre-defined / Reusable tasks

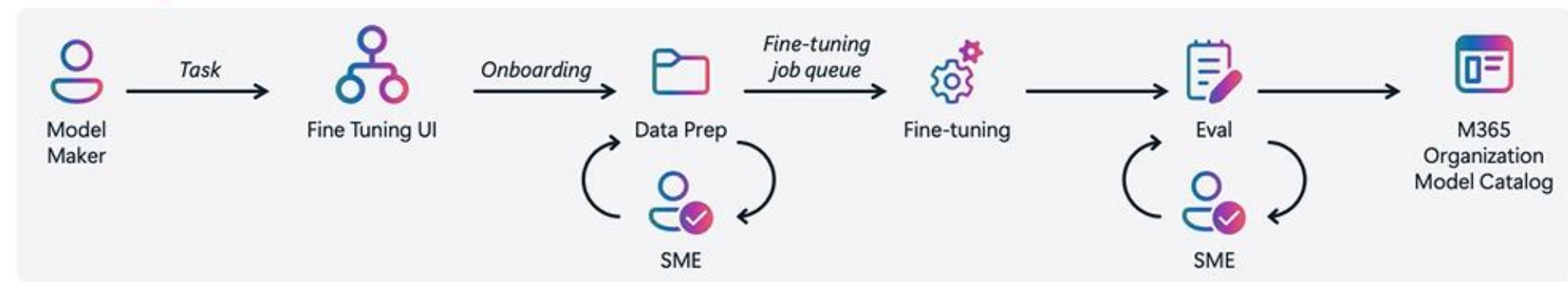


SECURITY

- Enhanced governance by having your own SMEs control what models and what access is deployed
- Eyes-off approach for complete data sovereignty. Training & inference happens in isolated environments

Microsoft 365 Copilot Tuning

Training



Agent Creation



Administration

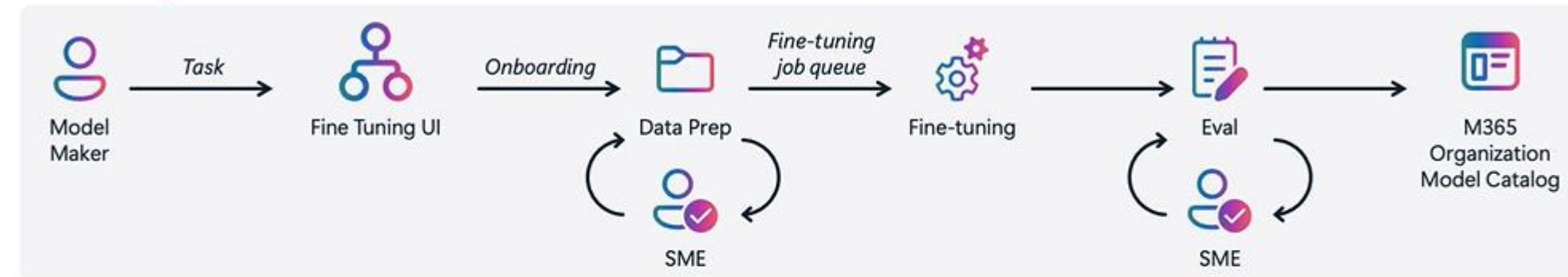


TUNING

- AI assisted data preparation for more efficient and quick customisation
- Low-code self-service interface for more control and less infrastructure to manage.
- Task-specific tuning for better and more targeted outcomes.

Microsoft 365 Copilot Tuning

Training



Agent Creation



Administration

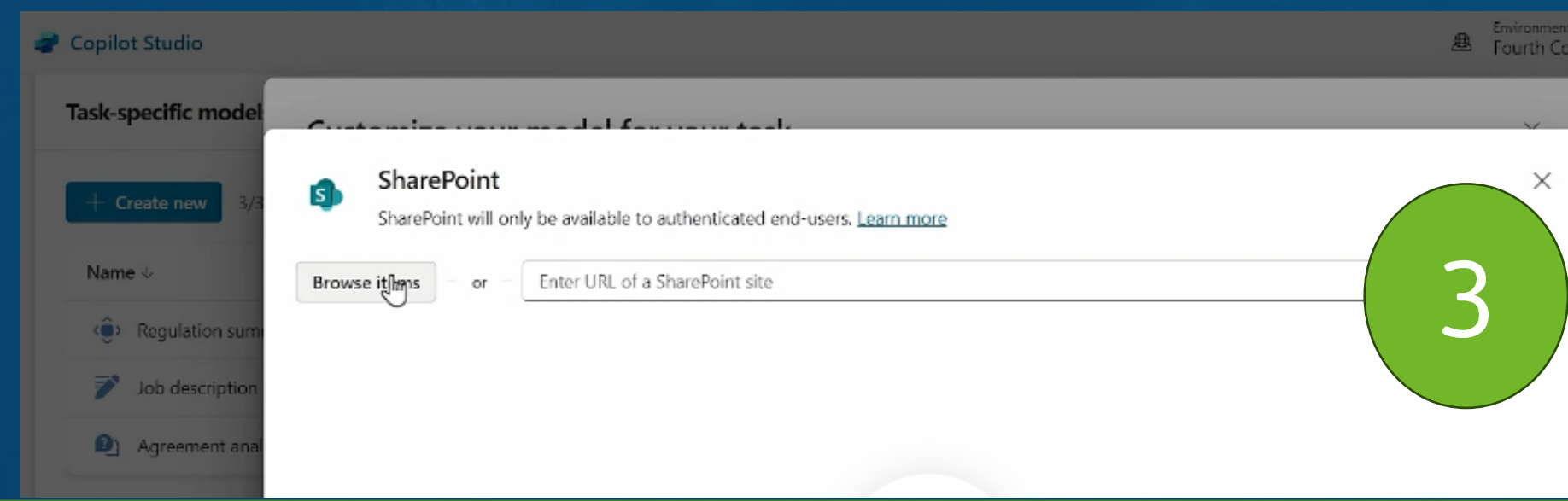
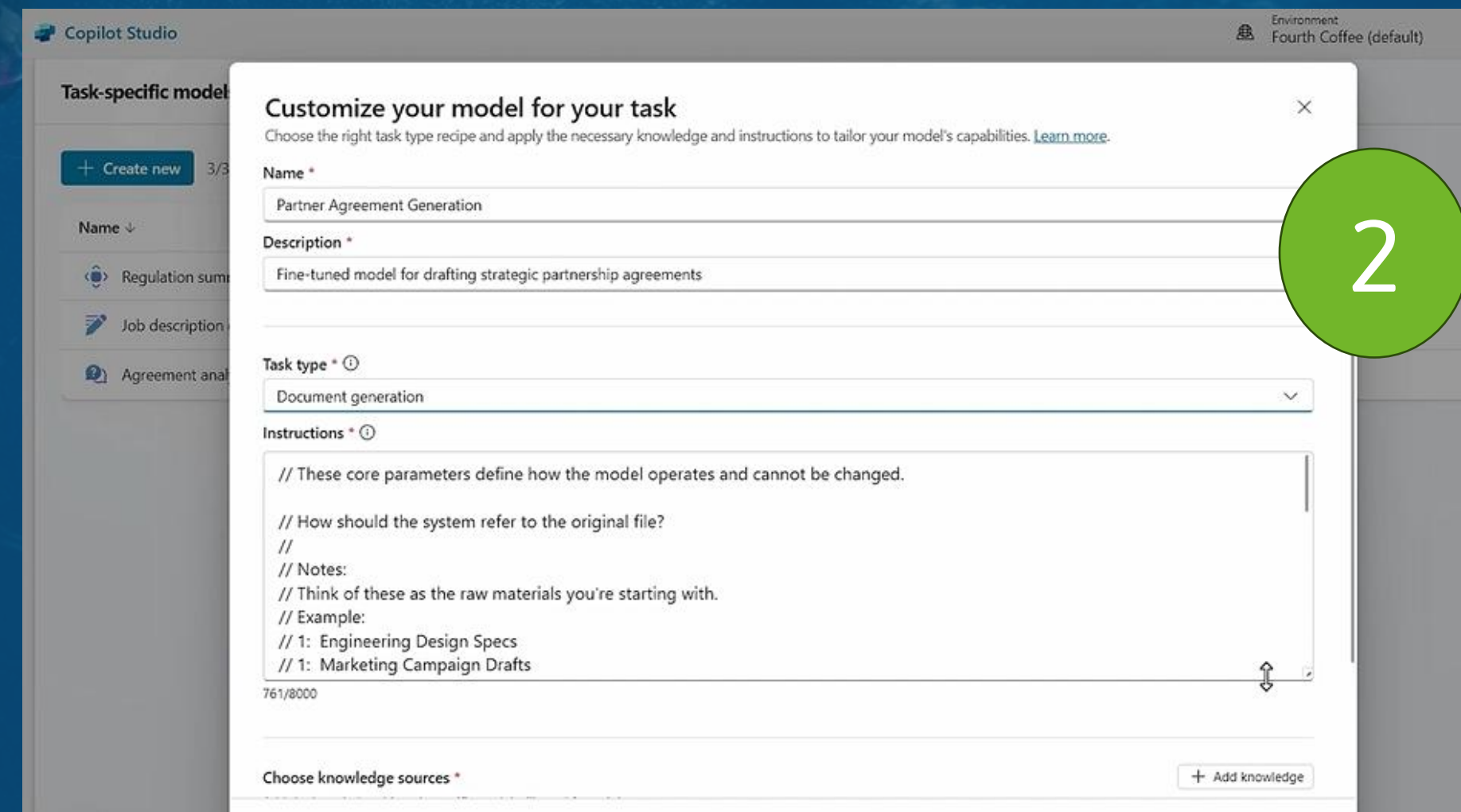
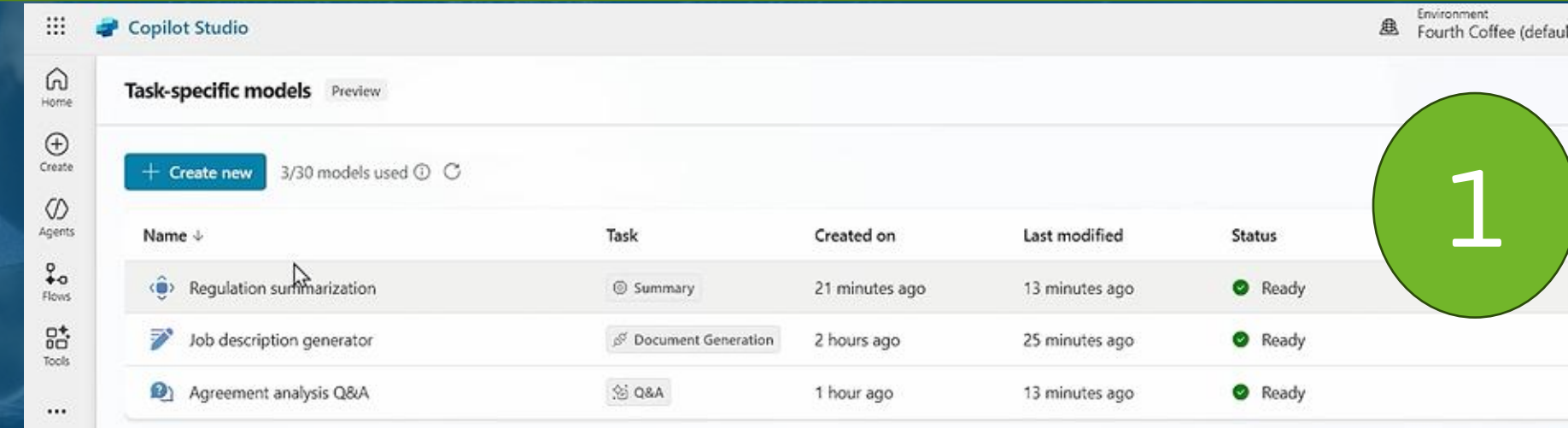


HOW DOES COPILOT TUNING WORK?



CREATE MODELS

- Requires “model-making” permissions.
- You can create any task-specific models with one of the 3 available types.
- You can choose a knowledge source. At this point, only SharePoint is supported.
- The tuning happens in Copilot Studio



DATA PREP & TRAINING

- AI-assisted data prep and labelling, which enables infusing SMEs domain knowledge when training task-specific models.
- The user can compare side-by-side output of fine-tuned vs standard models.
- Once the fine-tuned model is published, new agents could be built of this model in Copilot Studio.



Copilot Studio

Task-specific model

+ Create new 4/3

Regulation sum
Partner Agree
Job description

Partner Agreement Generation

Fine-tuned model for drafting strategic partnership agreements

Ready for labeling Download and process this batch. [Learn more](#)

Batches ↑	Size	Last modified	Status	Assigned to	Actions
Primary Batch 1	20	1 day ago	Labeled	MM Mila Moraes	Review labels
↳ Secondary Batch 1	11	1 day ago	Ready for labeling	MM Mila Moraes	Label data
↳ Secondary Batch 2	9	1 day ago	Ready for labeling	MM Mila Moraes	Label data

Copilot Studio

Task-specific model

+ Create new 4/3

Regulation sum
Partner Agree
Job description
Agreement anal

Partner Agreement Generation

Fine-tuned model for drafting strategic partnership agreements

Training finished

Your task-specific model has completed training. You can now publish it.

[Download results](#)

Back Step 1 of 3 [Publish model](#) [Close](#)

WHY COPILOT TUNING

Enhancing Personalization

The Copilot Tuning feature aims to enhance personalization, making user interactions more tailored to individual needs and preferences.

Increasing Relevance of Suggestions

By improving the relevance of suggestions, the feature ensures that users receive the most applicable and useful information for their tasks.

Driving Better Outcomes

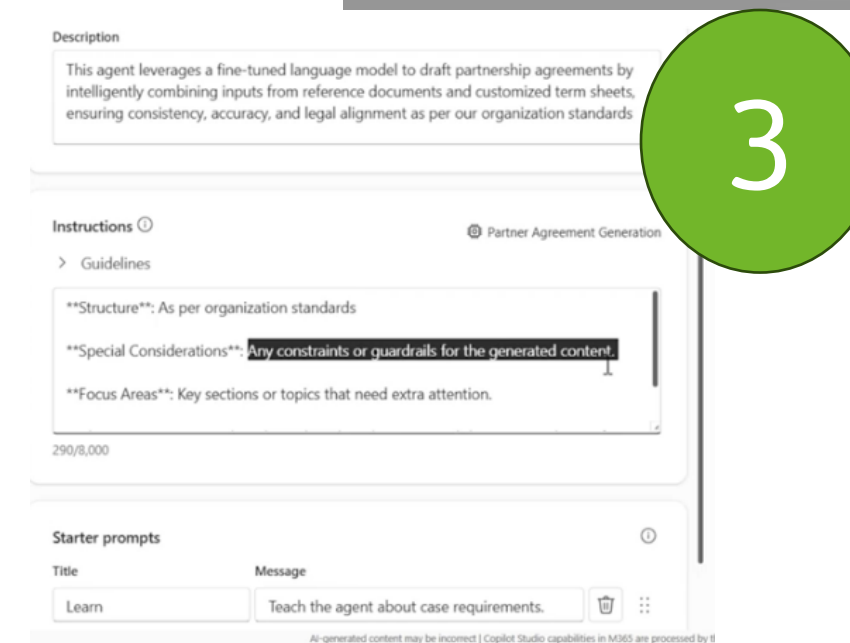
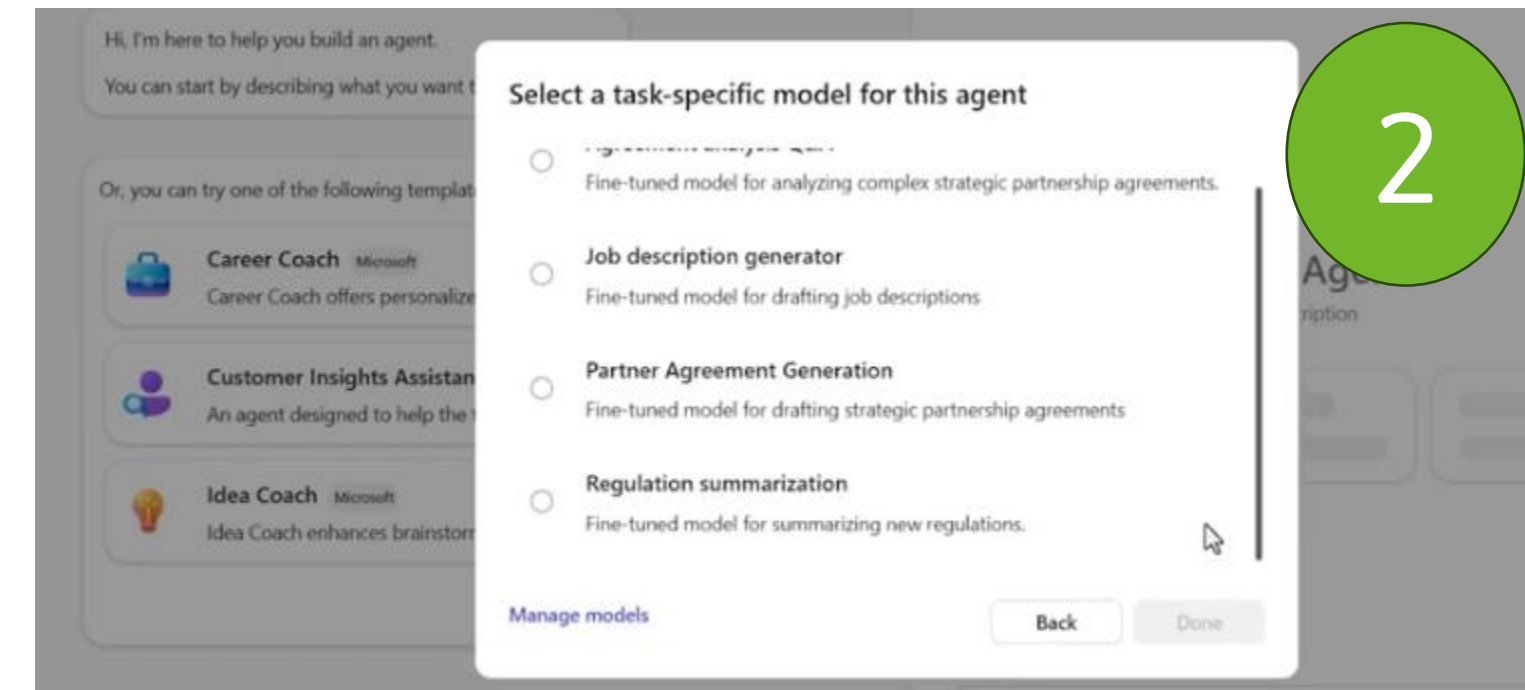
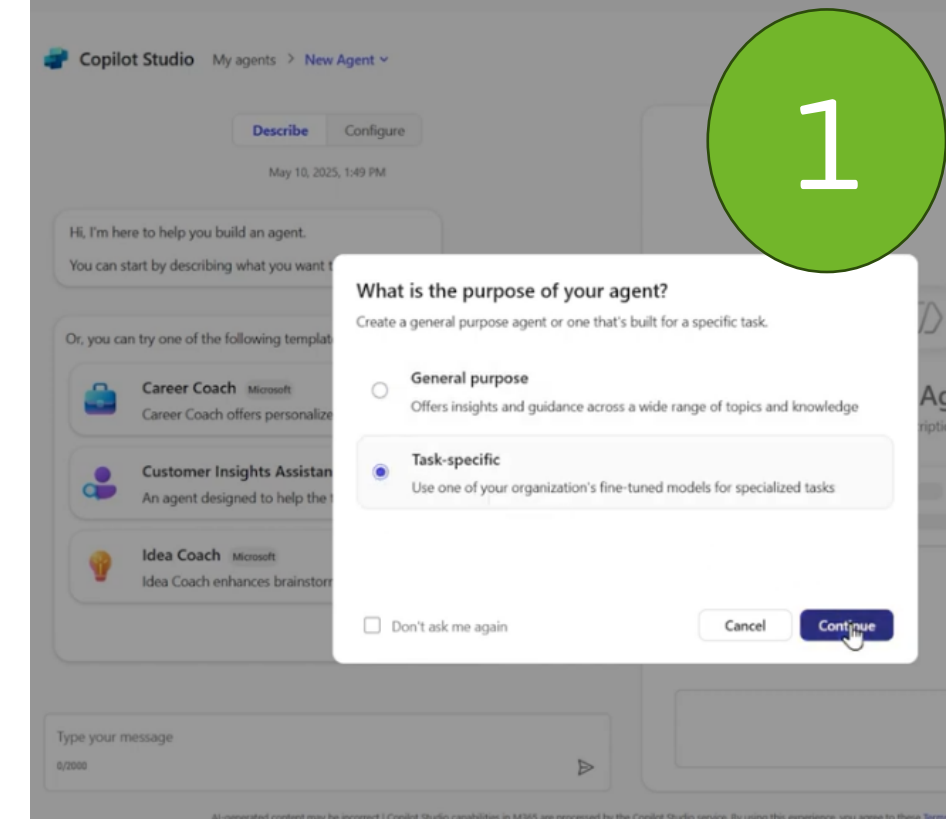
The ultimate goal is to drive better outcomes for users, enabling them to complete their daily tasks more efficiently and effectively.



Copilot Tuning

AGENT CREATION

- Fine-tuned models can be used to create context-aware agents that use the organization's expertise, tone, and style
- You can also customise the agent instructions, starter prompts, etc
- The agent can be shared with other users/groups and ensures alignment between who can access and who can use the agent/data.



LIMITATIONS OF COPILOT TUNING



LIMITATIONS

- Currently in Private Preview and not open to users to explore and experiment with.
- There is a licensing limit currently where the service is only available for organisations with 5000+ copilot licenses.
- There are only 3 types of Tasks supported today (Docs generation, summarisation, and Q&A)
- There is currently on one supported data source which is SharePoint. Microsoft is working on other integration w the Microsoft Graph API.
- Data prep, training, and labeling can take long times (ie: hours and/or days).
- No clear guidance at this point on the cost. Given the models are trained and run on isolated environments, we can expect this to be a little expensive



CONCLUSIONS

Powerful feature

Highly requested feature that can cut down the manual work of tuning models and embedding organizational knowledge into context-aware agents.

Technical limitations

Limited types of tasks, and data sources are available today

Early days

Would be great to trial and experiment with once it's available for the public. I expect Microsoft to change/lower the license requirements.



QUESTIONS?

Has Altaiar – Chief AI Officer (Rapid Circle)

- LinkedIn: <https://www.linkedin.com/in/altaiar/>
- Twitter: <https://x.com/hasaltaiar>
- Web: <https://www.hasaltaiar.com.au/>