

Einführung in die Entwicklung von Pro-Code Agents:

- **Microsoft 365 Agents Toolkit**
- **Microsoft Foundry**
- **Microsoft Agent Framework**
- <https://github.com/alexander-kastil/talk-pro-code-agents>



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ALEXANDER KASTIL

- Microsoft Certified Trainer since 2000
- Microsoft Agents Framework & Azure AI Foundry Agent Service
- Low-Code & Pro-Code Agents for Copilot for Microsoft 365
- Microsoft 365-, Teams-, SharePoint- & Microsoft Graph
- Azure Cloud Native Apps with .NET Aspire & Dapr
- GitHub Copilot Agentic Software Engineering
- Azure DevOps & Infrastructure as Code
- Angular & Micro Frontends



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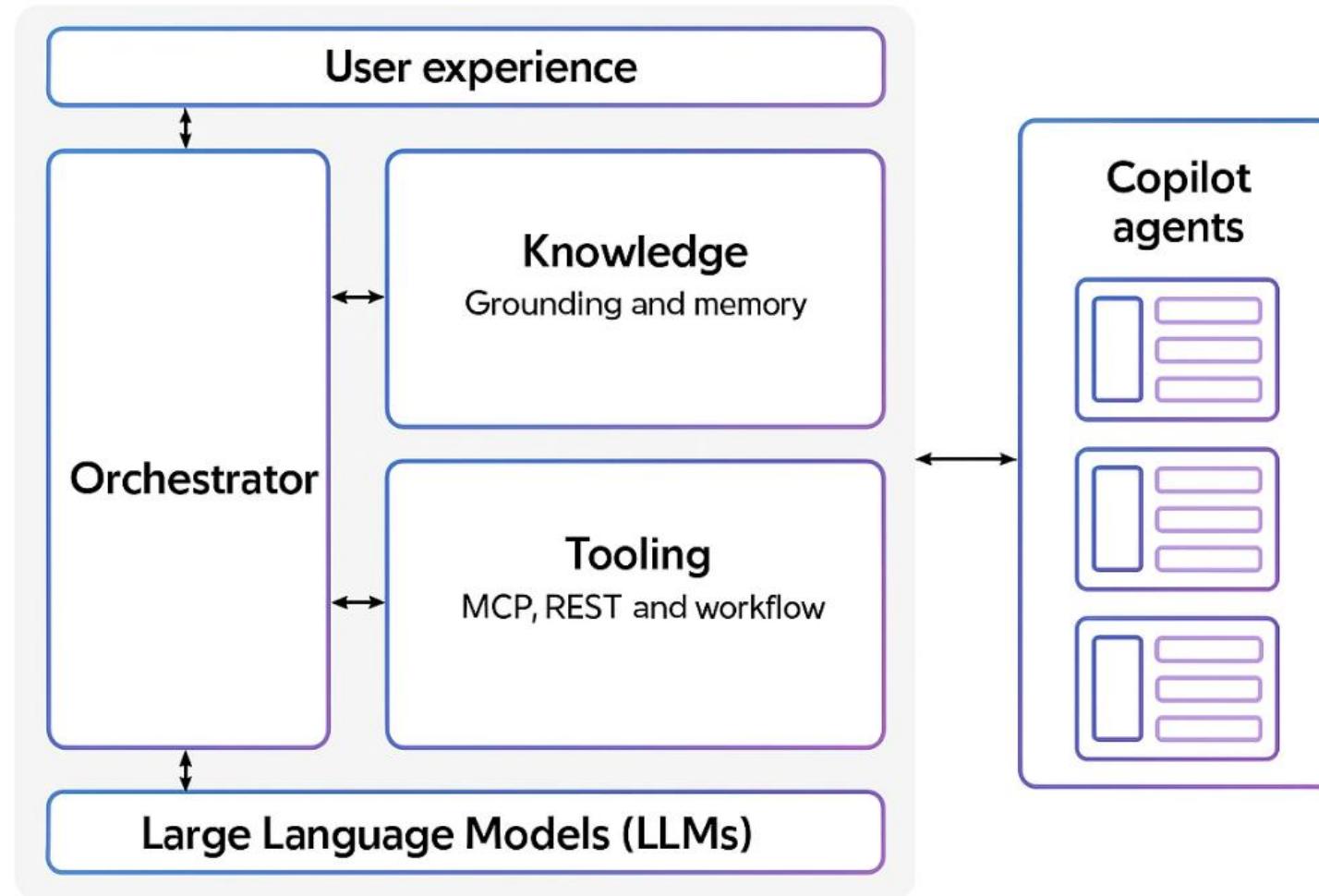


AGENDA

- Copilot & Agents Overview
- Agentic AI & Business Scenario Discovery
- No-Code Agents with Agent Builder
- Low-Code Agents with Copilot Studio

Copilot & Agents Overview

KEY ELEMENTS OF AGENTS



AGENTS TYPES

Copilot agents vary in level of complexity and capabilities depending on your needs

Simple

Advanced



Retrieval

Retrieve information
from grounding data, reason,
summarize, and answer user
questions

Generally available



Task

**Take actions when asked,
automate workflows, and replace
repetitive tasks for users**

Generally available

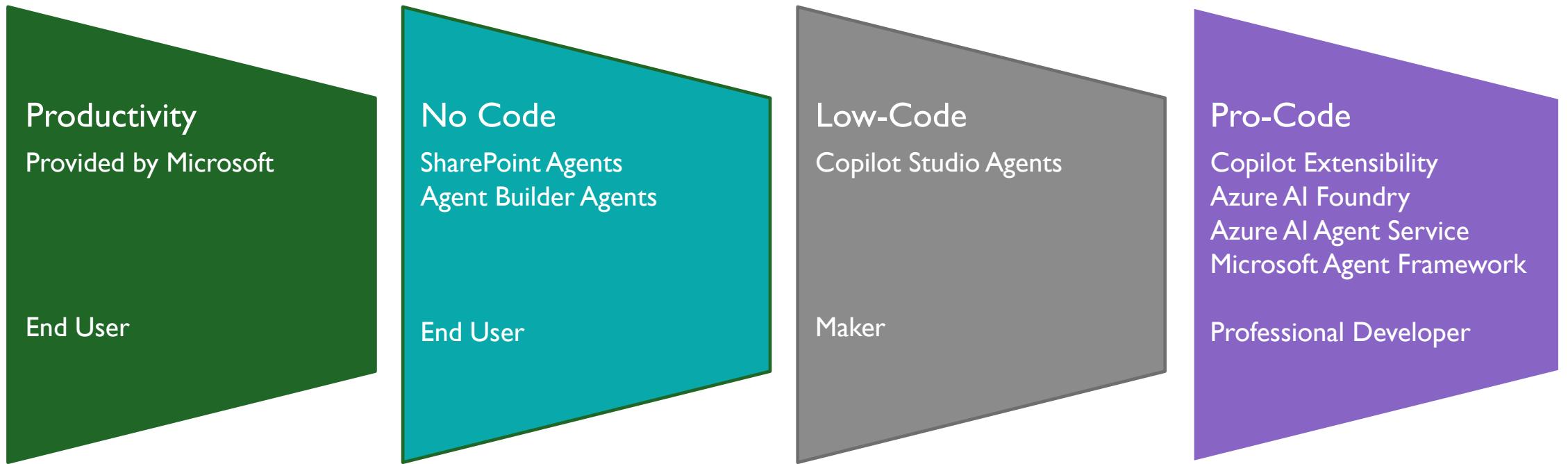


Autonomous

Operate independently,
dynamically plan, orchestrate
other agents, learn, and escalate

Private preview

COPilot & AGENTS EXTENSIBILITY PATH



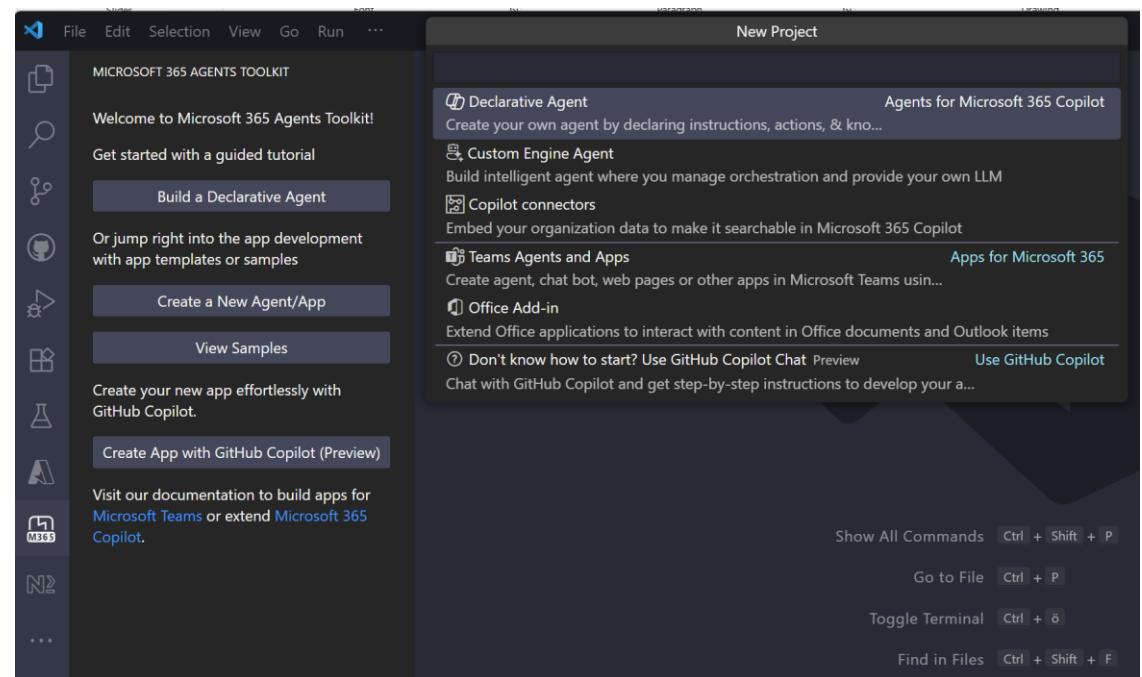
Microsoft 365 Agents Toolkit

DECLARATIVE AGENTS

- Configuration-Driven Customization
 - Declarative agents allow developers to define instructions, actions, and knowledge sources without writing extensive code
- Built on Microsoft 365 Copilot Infrastructure
 - These agents run on the same trusted AI services, orchestrator, and foundation models as Microsoft Copilot
- Custom Knowledge
 - Use custom knowledge to provide extra data and context to Microsoft 365 Copilot that is scoped to a specific scenario or task.
- Custom Actions
 - Enable declarative agents to interact with external systems in real-time.

BUILD YOUR FIRST DECLARATIVE AGENT

- Open Microsoft 365 Agent Toolkit
- Choose Create a New Agent / App
- Choose Declarative Agent
- Make sure you have logged on to:
 - Microsoft 365
 - Azure
- Go to Lifecycle -> Provision
- Development -> Preview Your App (F5)
 - Preview in Copilot (Edge)





Microsoft Foundry



MICROSOFT FOUNDRY



Models



Agent Service



IQ



Tools



Machine Learning



Control Plane

Security, compliance, and governance

Microsoft Agent Framework

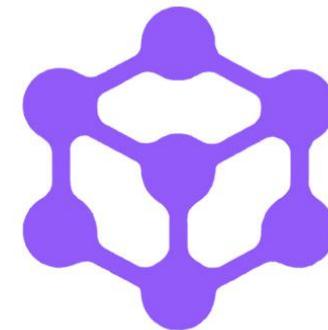
MICROSOFT AGENT FRAMEWORK

AI agents:

- Individual agents that use LLMs to process user inputs, call tools and MCP servers to perform actions, and generate responses.

Workflows:

- Graph-based workflows that connect multiple agents and functions to perform complex, multi-step tasks.
- Workflows support type-based routing, nesting, checkpointing, and request/response patterns for human-in-the-loop scenarios.



IN DEPTH CLASSES

- Designing, Implementing & Maintaining Low-Code Agents using Copilot Studio – 4 days
 - *Introduction to Copilot Extensibility & Agents*
 - *Copilot Studio Basics*
 - *Extending Copilot Studio Agents Tools*
 - *Advanced Copilot Studio Agents*
 - *Designing & Implementing Business Processes*
 - *Publishing & Maintaining Copilot Studio Agents*
- Designing & Implementing Agents and Pro Code Copilots using Microsoft Agent Framework and Azure AI Agent – 5 days
 - *Copilot, Agents & Microsoft Foundry Essentials*
 - *Model Protocol Context Servers*
 - *Develop AI Agents using Microsoft Agent Framework*
 - *Designing & Implementing Agents using Microsoft Foundry Agent Service*
 - *Copilot Extensibility: Agents, Connectors & Copilot APIs*