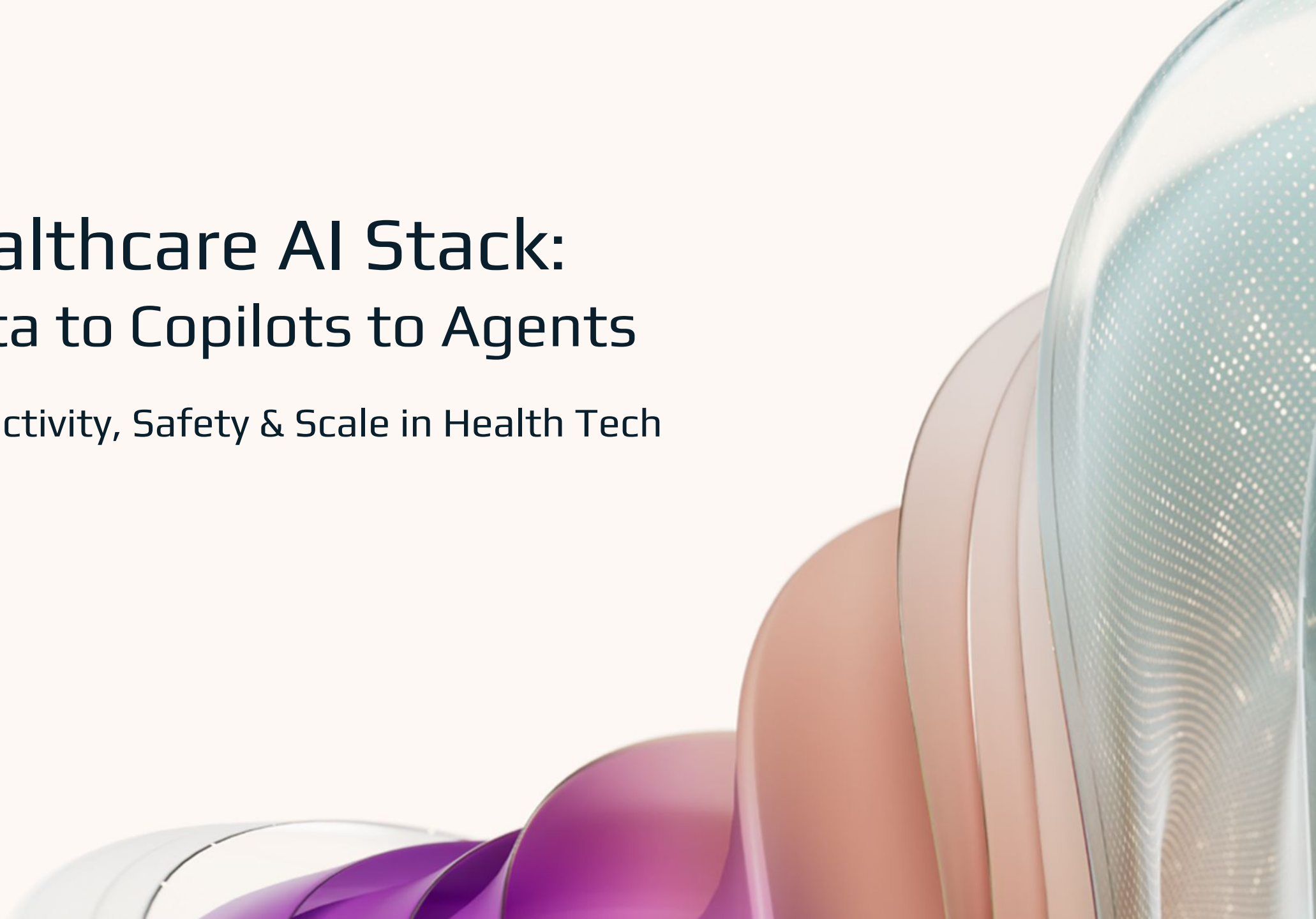




The Healthcare AI Stack: From Data to Copilots to Agents

Driving productivity, Safety & Scale in Health Tech



Why this matters now



80% of data is unstructured:
notes, images, signals



Documentation burden
hurts quality and retention



Manual handoffs slow care
and revenue cycles

**Key takeaway: AI helps only when data
and guardrails come first**

The stack at a glance



**Data
Foundation**
FHIR, DICOM,
governed lakehouse



**Copilots
for People**
productivity
across clinical & ops



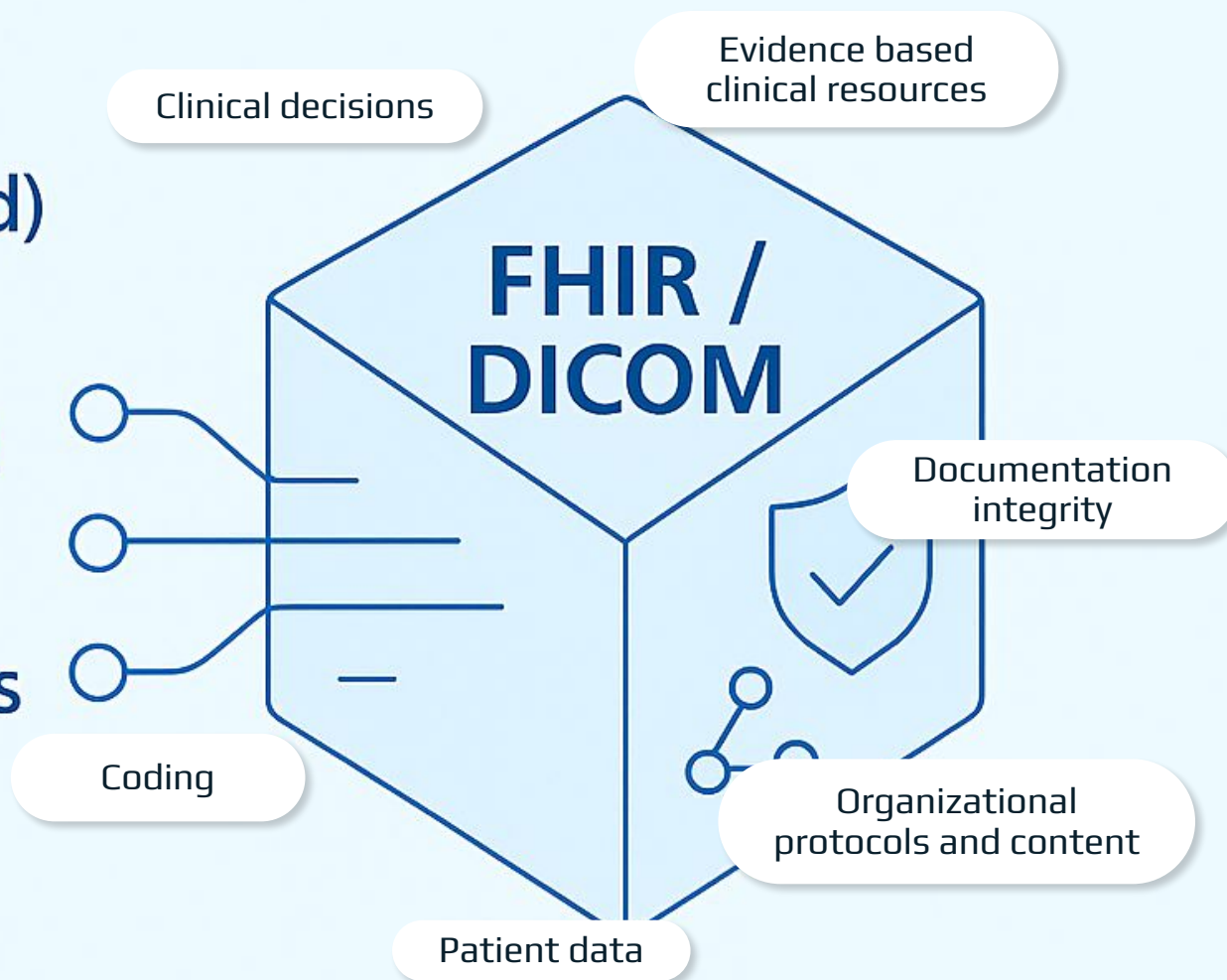
**Agentic
Automation**
tool-calling,
approvals, action logs

Responsible AI & Governance
surround every layer

Layer 1: Data foundation

- Ingest FHIR & DICOM into a lakehouse (Bronze/Silver/Gold)
- Standardize metadata; preserve lineage and consent
- Make PHI queryable for analytics, copilots, and agents

Quality data \Rightarrow grounded, auditable AI



Layer 2: Copilots for people



- Ambient documentation drafts notes and letters
- Work coordination: meeting→actions, policy Q&A with citations
- Ops wins: schedules, handovers, rota planning, learning content

Copilots

Query

What can Copilot help you with? ⓘ

Was the patient experiencing ear pain?

Code

What can Copilot help you with? ⓘ

What is the ICD-10 code for Alzheimer's disease?

Research

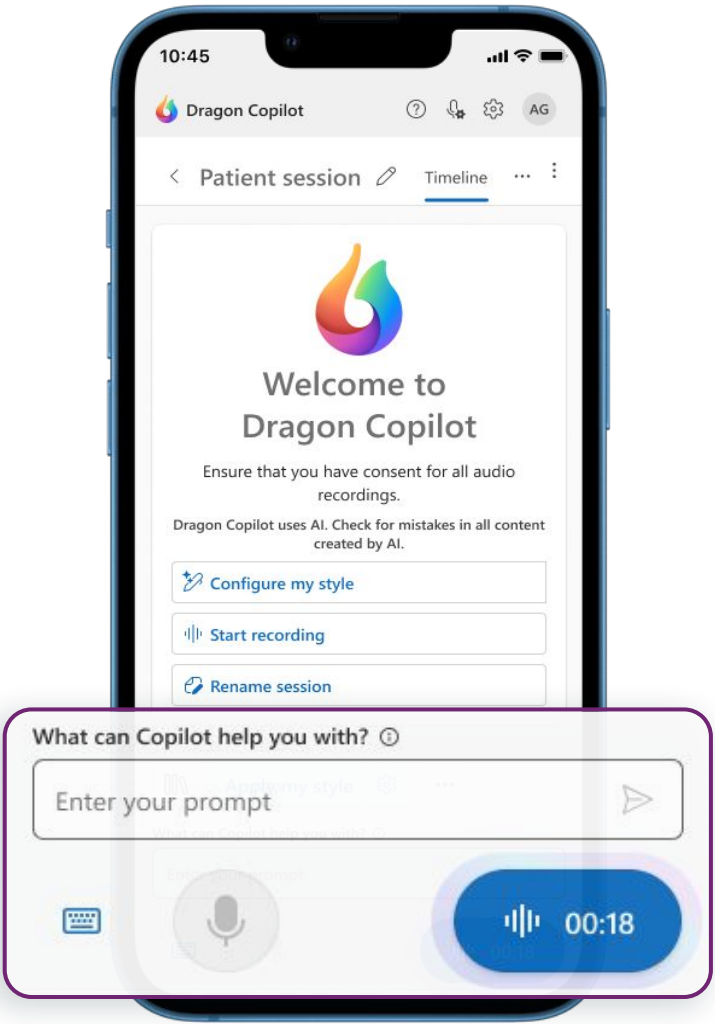
What can Copilot help you with? ⓘ

Outline the key steps and postoperative care for a laparoscopic cholecystectomy

Edit and append

What can Copilot help you with? ⓘ

Update the fever reading to 101



Sum

mariz

What can Copilot help you with? ⓘ

Summarize the ear issues briefly for a referral to an otolaryngologist

Creat

What can Copilot help you with? ⓘ

Draft a prior authorization letter for a new biologic treatment for the rheumatoid arthritis patient

Assist

What can Copilot help you with? ⓘ

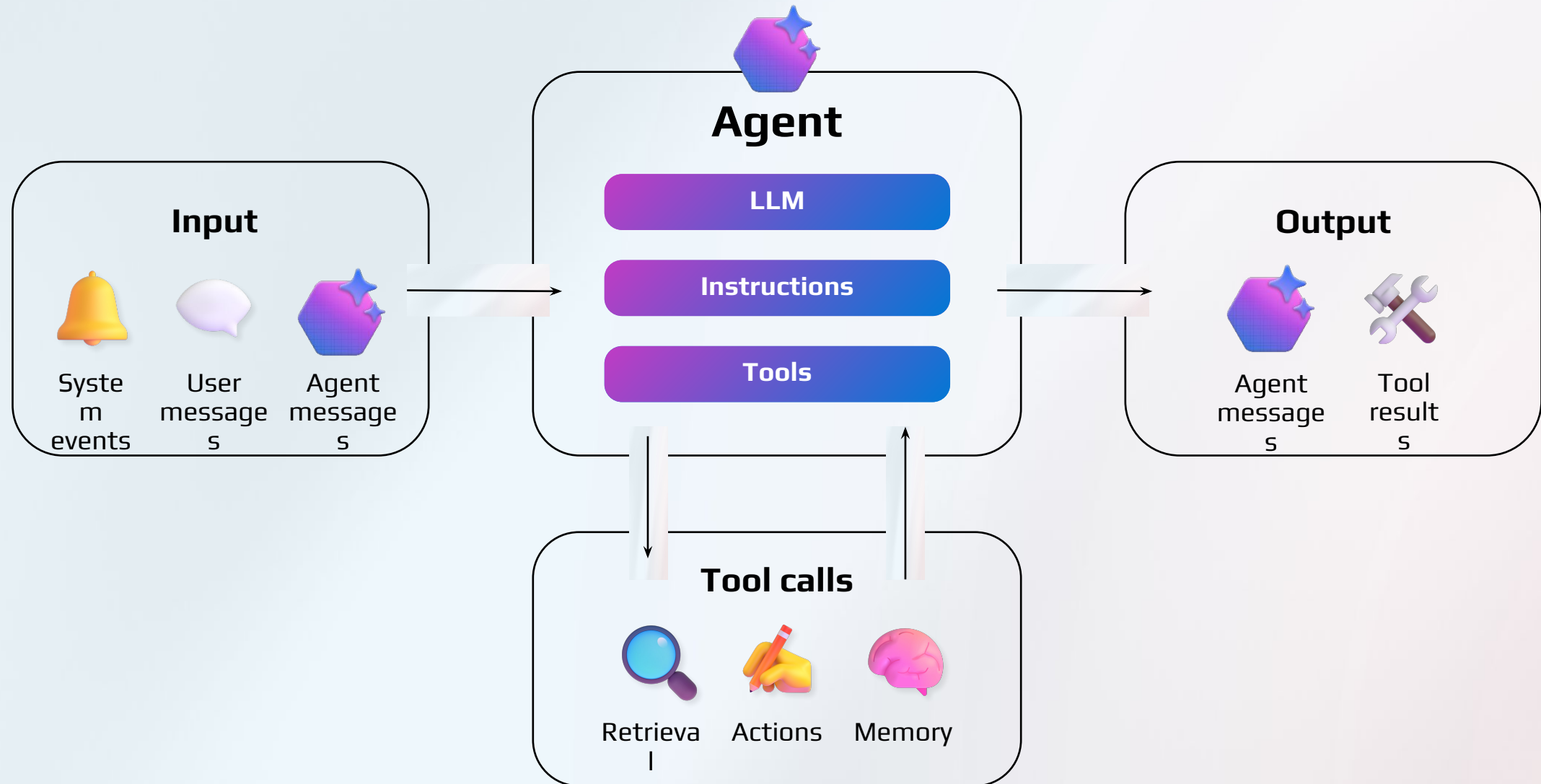
Generate a concise APSO note summarizing this visit

Layer 3: Agentic automation

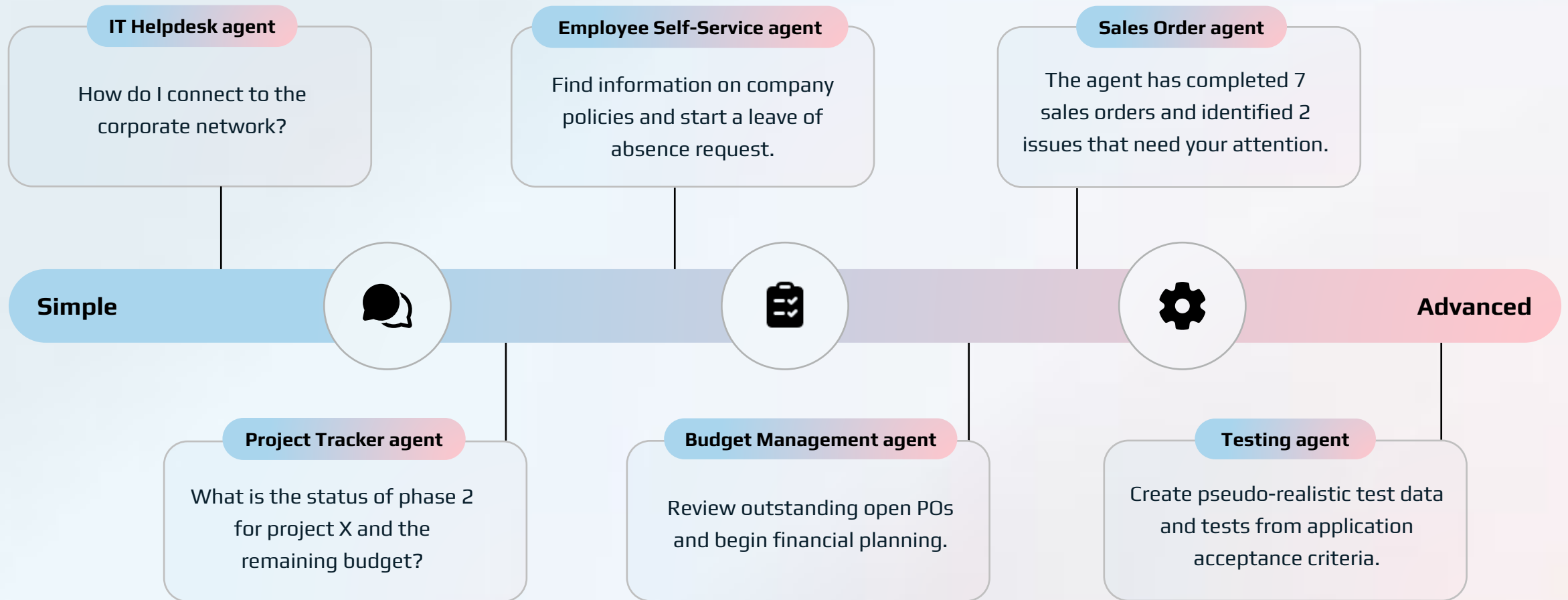
- Agents plan→call tools/APIs
→request approval→complete
- Patterns:
 - human-in/on-the-loop
 - activity logs
 - rollback
- Multi-step flows: triage, eligibility, prior-auth, discharge



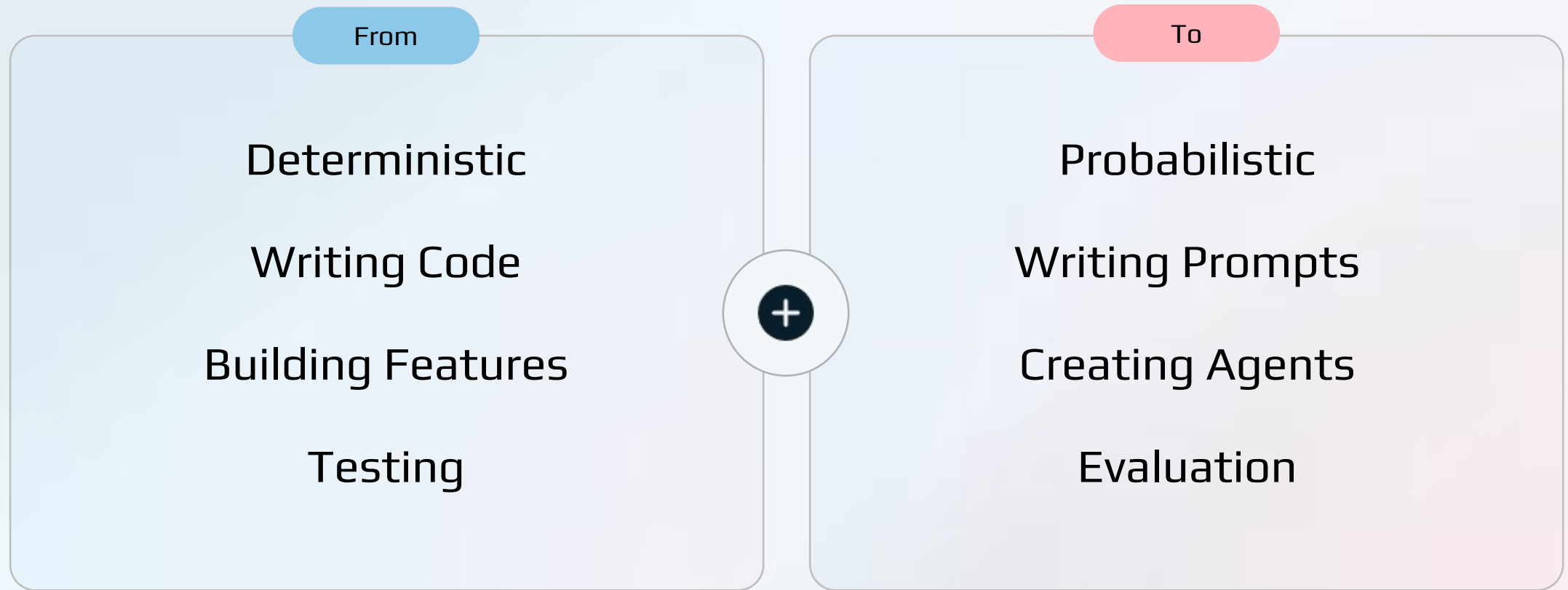
What is an agent?



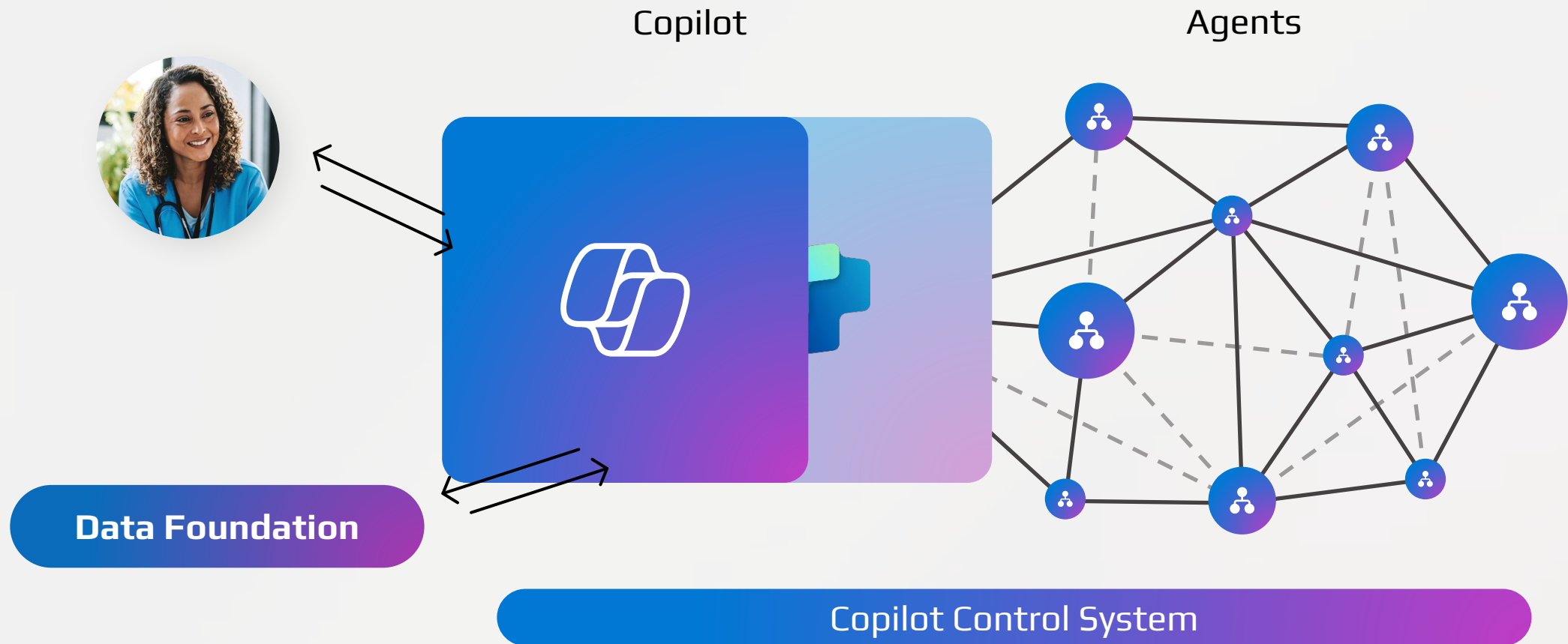
...with customized solutions...



...and the way we write code is changing



Copilot + Agents



Governance & safety

- Identity & access;
least privilege;
data minimization
- Content safety
& prompt shielding;
evidence-backed answers
- Audit trails for clinical
oversight and incident response

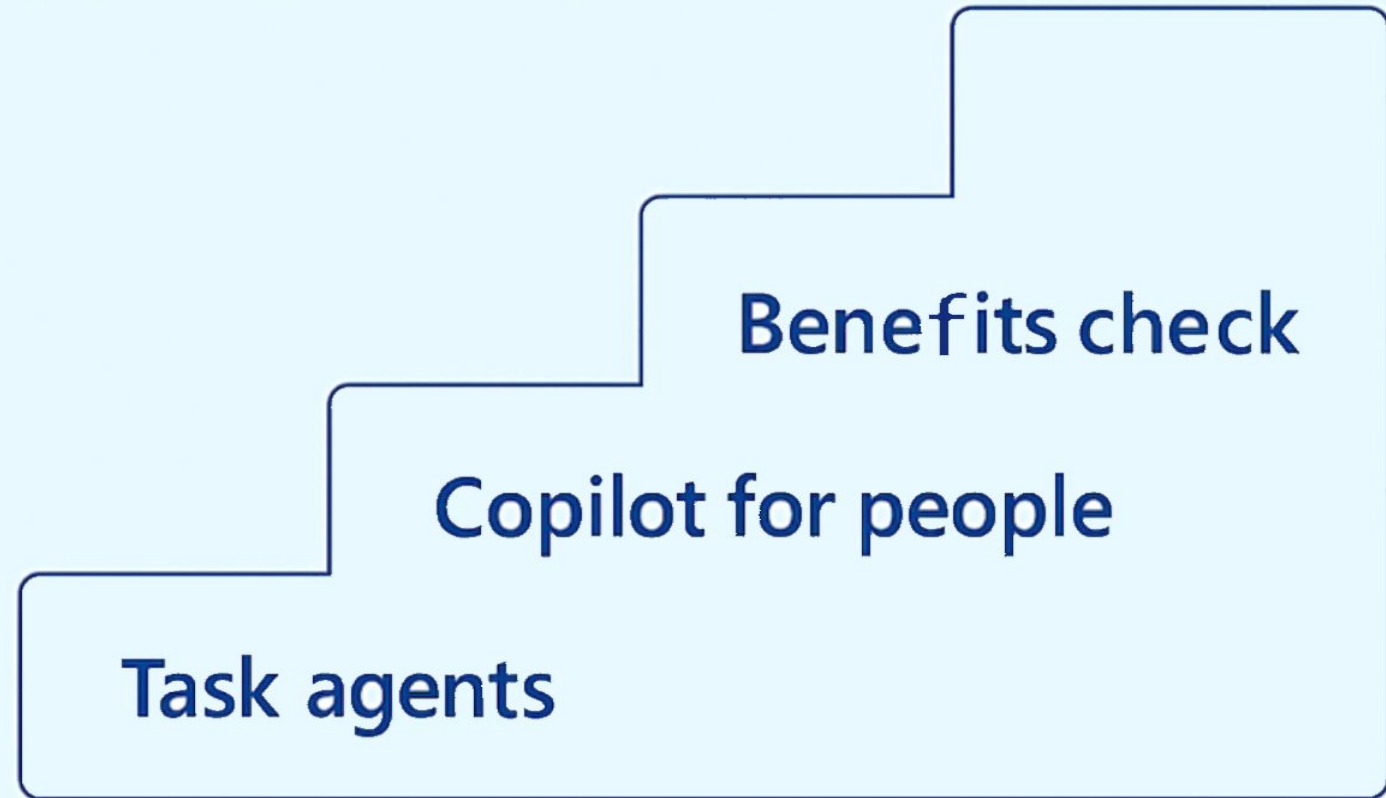


Value & impact (example ranges)

- Data:
Documetion time ↓ 45–60%
- Prior-auth cycle time
prior-auth packet;
- Meeting-to-action conversion
- Governance posture ↑
auditable & compliant by design



Adoption ladder: Start small, scale fast



90-day motion: pick one workflow
→ pilot → measure → expand

Real-world use cases where data, copilots and agents can help



Transform clinical workflow

Streamline documentation, surface information and automate tasks

Simplify tasks like summarizing emails, managing meetings, writing letters, or creating presentations



Accelerate clinical research and patient care, including Trusted Research Environments

Enable safeguarded search of clinical and institutional knowledge like medical protocols and treatment information

Help clinicians and researchers navigate and analyze drug documentation

Generate and validate clinical coding such as SNOMED, ICD-10, HCC codes within complex clinical conversations



Personalize patient engagement

Automate appointment scheduling, triage patient inquiries, and guide patients through post-care instructions

Allow patients to interact with an agent on hospital websites and ask questions about health conditions or unfamiliar terms



Enhance care management with actionable insights

Provide accessible insights by extending copilots and healthcare agents with real-time information to better personalize care

Compile the latest medical research and categorize studies by drug efficacy, side effects, and patient quality of life

Thank you