

## Corporate Approaches to Using Al: Overview

- I. Strategic Framing
- II. Team Infrastructure & Culture
- III. Training & Learning
- IV. Responsible Use
  - V. Practical Application
- VI. Takeaways

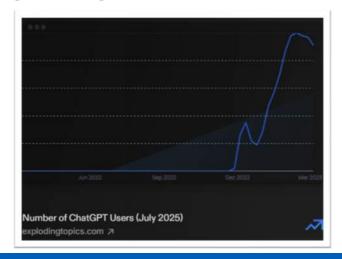
### **Start Somewhere!**

### **Strategic Framing:**



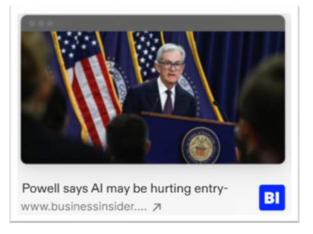
# I. Strategic Framing: Al Forecasts & Industry Trends

- 72% of organizations now use Al
- ChatGPT: ~800M weekly users
- AEC firms expect AI to be essential
- Al reshaping hiring and skills









### I. Strategic Framing:

#### Al Investment in 2025

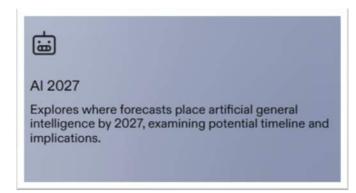
- Global investment is projected to reach \$200 billion in 2025
- U.S. accounting for \$100 billion
- Led by Amazon, Microsoft, Alphabet, and Meta

LLM's are only the beginning...

### I. Strategic Framing:

**Future Horizon (2026–2027)** 

- Autonomous Al agents emerging
- Half of business decisions may be Al-driven
- Design workflows for future AI capabilities



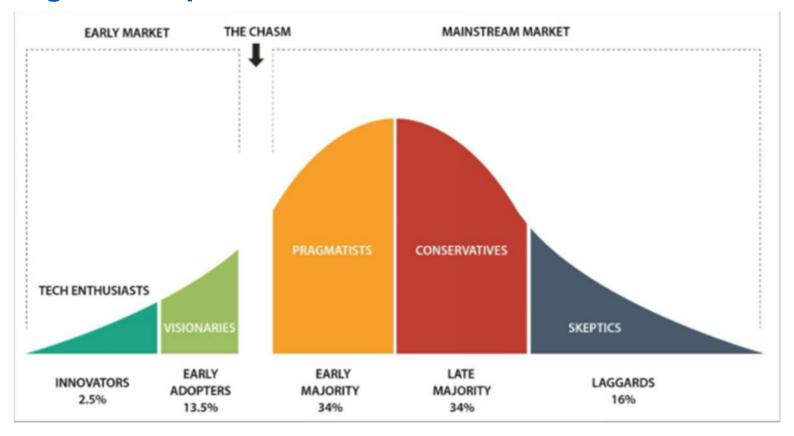


#### Agentic systems

Timeline for agentic Al development, featuring systems that interpret visuals and diagrams, and operate computers independently without human intervention.

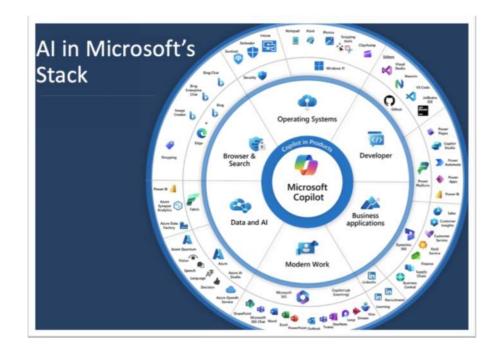
### I. Strategic Framing:

### **Crossing the Adoption Chasm**

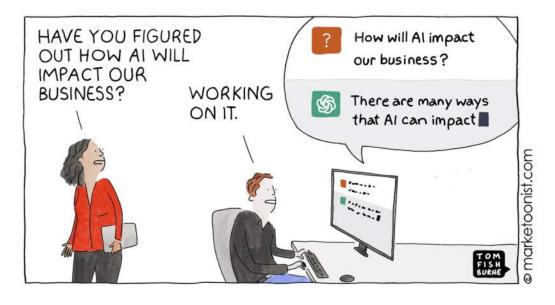


## I. Strategic Framing: Al Fluency as the Goal

- Al touches every application
- Al learning starts with leadership
- Treat Al fluency as a core skill
- Integrate into development plans
- Build everyday Al culture



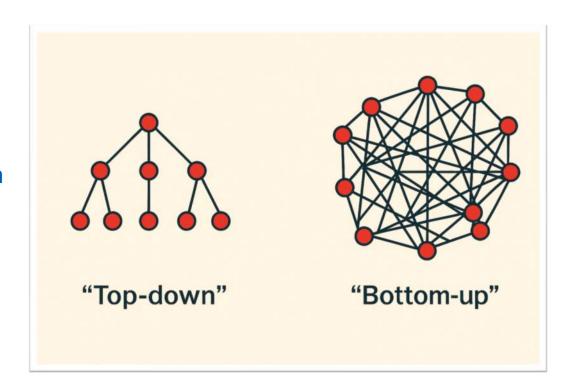
### **Team Infrastructure and Culture:**



### II. Team Infrastructure & Culture:

#### **Organization Setup**

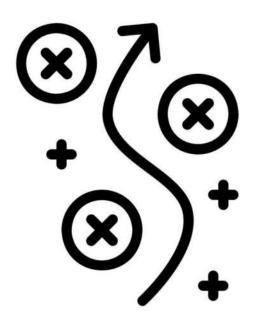
- Overall strategy, onboarding, and policies
  - High level task force, Local user groups, Department POC
- Top down and Bottom up
  - Two-way feedback drives adoption
- Shared Workspace for Al Collaboration
  - Central AI hub for resources and prompts
  - Company-wide AI chat/forum
  - Share wins to scale learning



### II. Team Infrastructure & Culture:

#### **Avoiding Deprecation**

- Stay agile, tools evolve fast
- Build for concepts, not just tools
- Monitor and pivot as needed
- Foster experimentation
- Encourage initiative



### **Training & Learning:**



## III. Training & Learning: Onboarding Ideas

- Baseline competency for all
- Ethics and policy awareness
- Consistent understanding across employees
- One-on-One setup and coaching
- Role-specific instruction
- Address individual concerns
- Mentor follow-up support

# III. Training & Learning: Ongoing Education Ideas

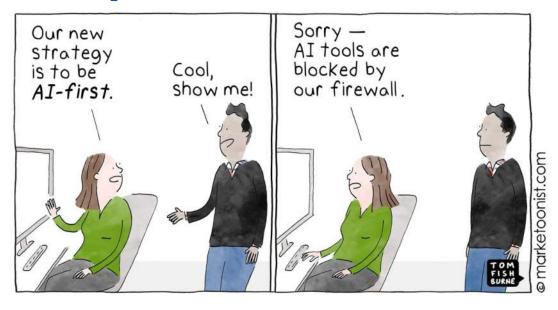
- Periodic tips and webinars
- Byte-sized content
- Share internal success stories
- Feedback-driven updates

# III. Training & Learning: Prompt Library

- Curated repository of effective prompts
- Accessibility accelerates adoption
- Encourages knowledge sharing
- Minimizes redundancy



### Responsible Use:



## IV. Responsible Use:

#### **Al Policy & Best Practices**

- Clear usage policy
- Ethical and legal compliance
- Practical do's and don'ts
- Regular updates and enforcement



#### **Approved Tools**

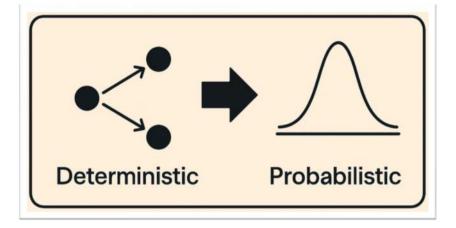
- List of approved Al tools
- Process for evaluating new tools
- Access control and licensing
- Regular review and updates



### IV. Responsible Use:

#### Al is Probabilistic, Not Deterministic

- Al predicts, not guarantees
- Human judgment remains essential
- Trust but verify
- Spot errors and hallucinations
- Build a culture of quality

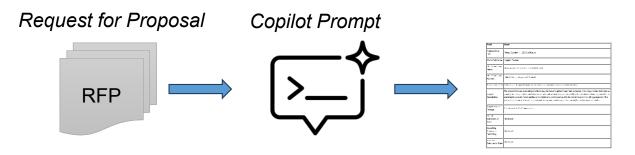






How to use Al

1000 words in, 50 words out



How NOT to use Al

#### Copilot Prompt

50 words in, 1000 words out



"Write a professional client proposal for a 20,000 SF electrical engineering project. Keep it brief and generic. Include a scope, timeline, and a price.

Make reasonable assumptions and add anything else you think is standard.

Use a professional tone."

#### 4 Rules of Co-Intelligence









#### #1 - Always Invite Al

- AI = Intern, not software
- results
- You are not a programmer, You are always responsible you are a teacher

#### #2 – The human in the loop #3 – Treat Al like a person

- Don't over-delegate
- More experiments = better Al doesn't "know" anything
  - Always keep the last step

- Tell it who it is (role)
- Changes how you speak
- Built on plain language
- Conversations get results

#### #4 - This is the worst Al you'll ever use.

- Change comes gradually, until it doesn't
- Al 'agents' will perform work autonomously
- Al will perform some levels of work we never imagined
- Provide the perspective
- Watch, learn, and adapt!

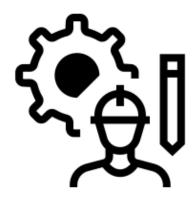
## V. Practical Application: 3 Modes of Al Use



Research Assistant: Summarize and synthesize



"compare these 2 documents"



Doer / Helper: Automate tasks



"re-format this list"



Thinking Partner:
Brainstorm and critique



"analyze this argument"

#### Al as a Cognitive Amplifier

- Boost creativity and insight
- Explore more alternatives faster
- Reduce cognitive load
- Human + Al > human alone



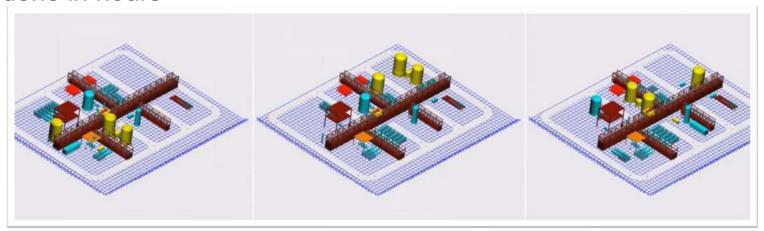
#### **Voice-to-Text & Chat Memory**

- Use voice input
  - Keyboard can be the bottleneck
- Leverage chat memory for context
  - Ask "send to preferences"



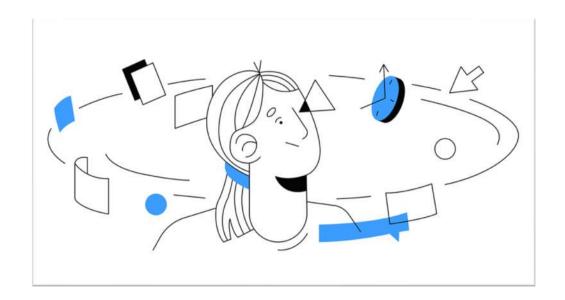
#### **Large Company Examples**

- Siemens Energy uses the EOS M 400-4 to create new burner fronts for its gas turbines, reducing lead times from 26-weeks to 3-weeks
- **Boeing** has developed software to inspect an entire plane using a drone in just 40-minutes (down from 6-hours)
- Skydio's drones can inspect power lines 3x faster than a bucket-truck crew.
- AspenTech, develop 3D layouts straight from HYSYS models → weeks of effort done in hours



#### **Examples of AI in Practice**

- Email editing
- Meeting prep and summary
- Task lists
- Specification breakdowns
- Reports from notes
- Marketing
- Proposals
- Presentations





### Takeaways:



### VI. Takeaways

- Build Momentum, Not Perfection
- Activate your AI community
- Design for change
- Celebrate small wins
- Normalize experimentation
- Frame AI as a long-term skill



### Thank you!