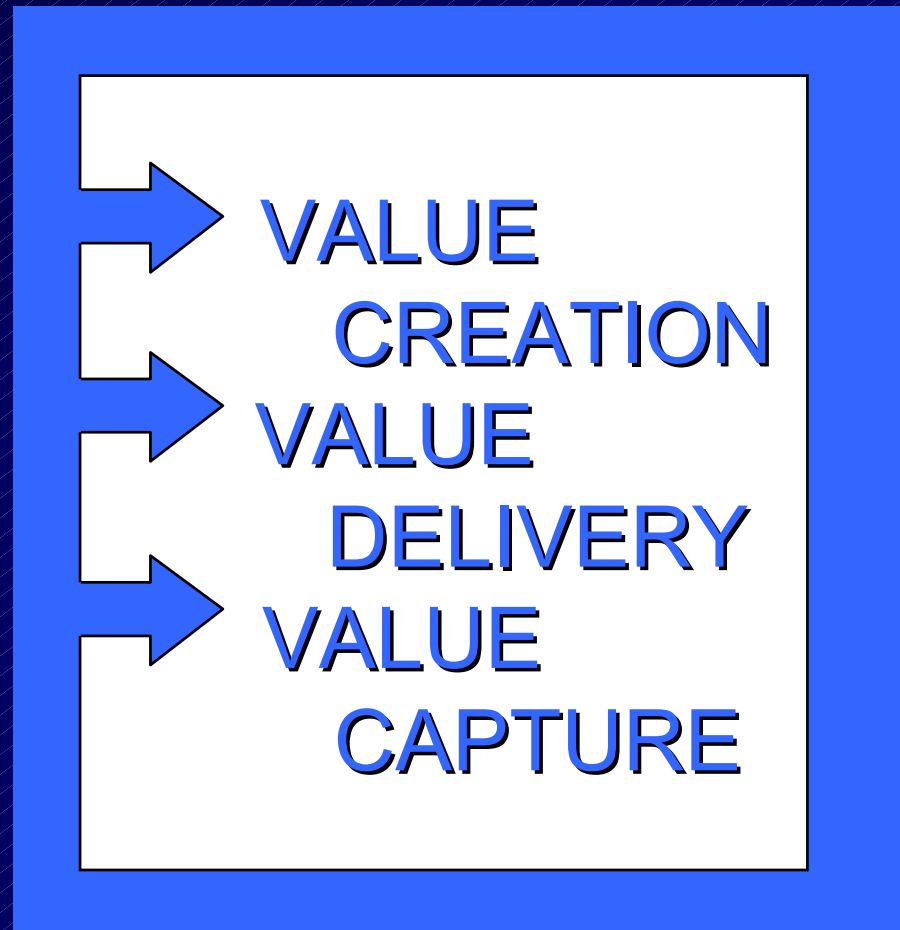
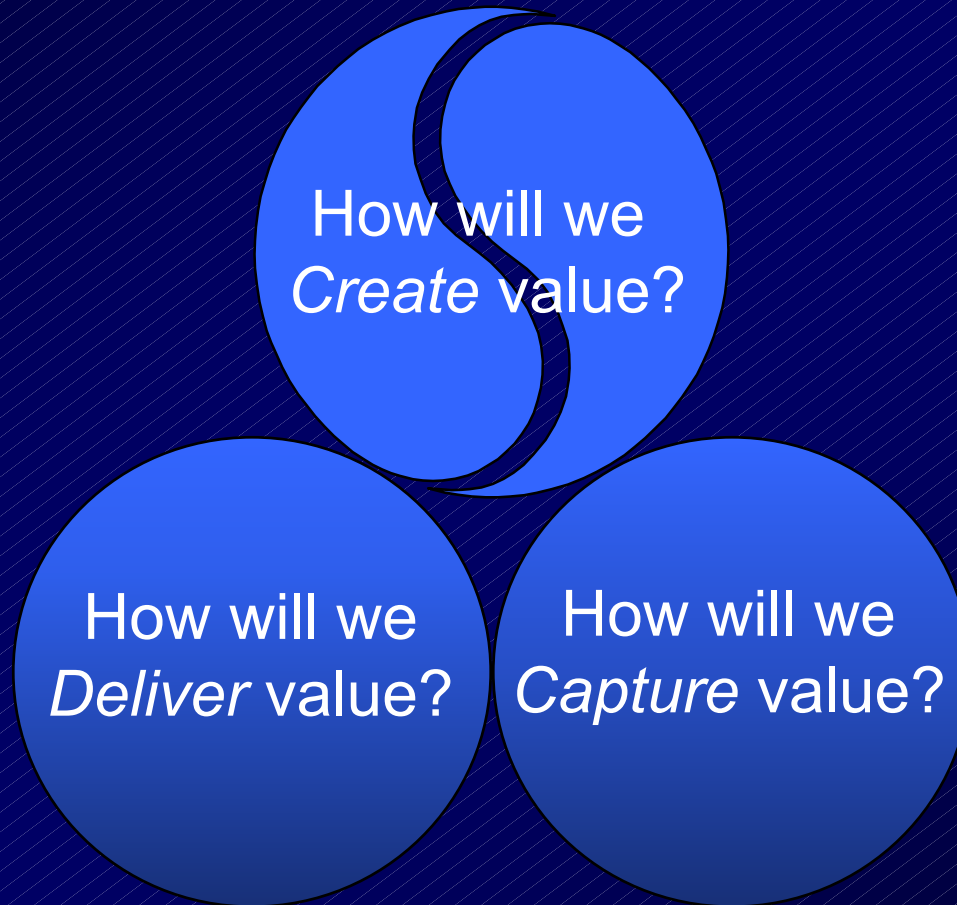


Technology Strategy

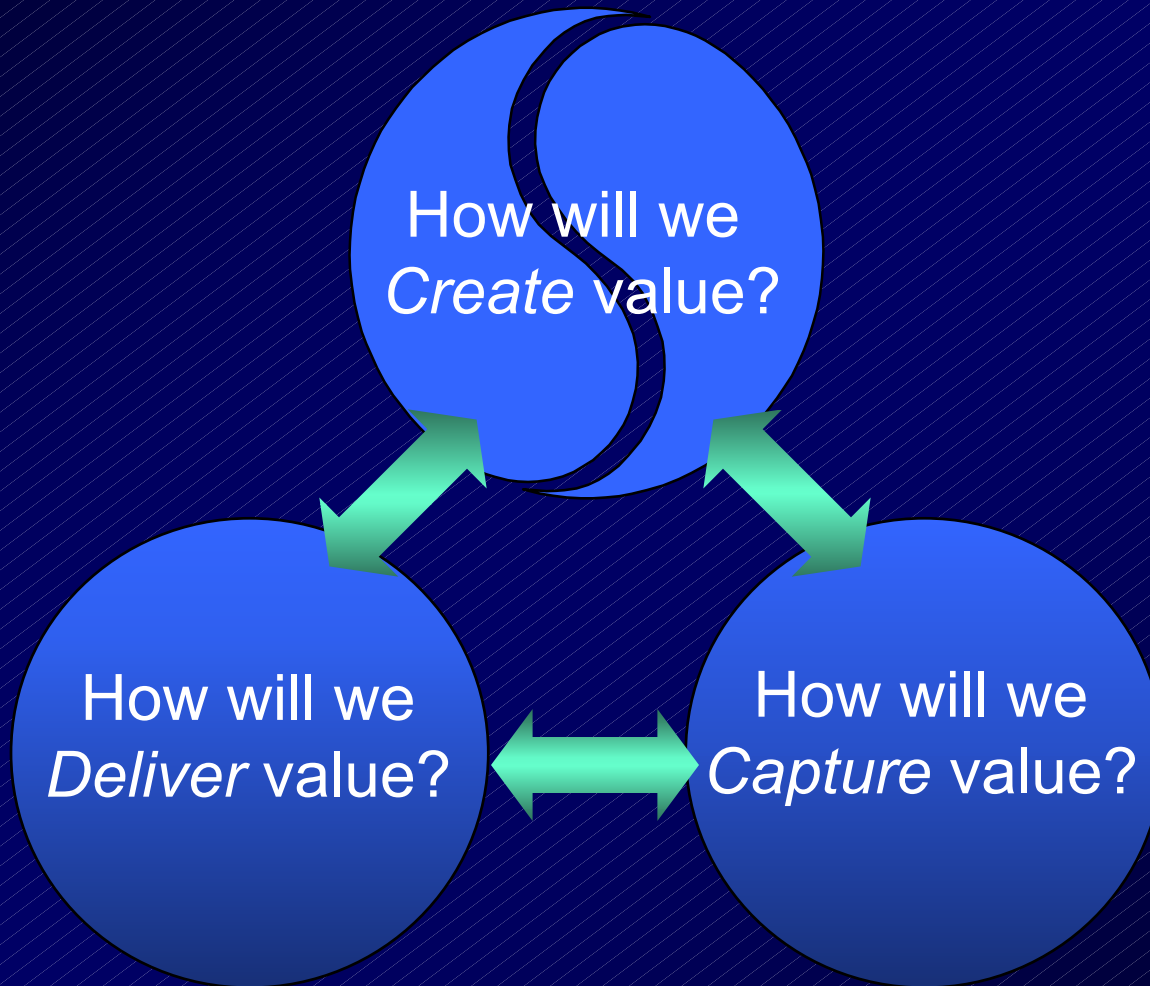
What is a Successful Technology Strategy?



Effective Strategies Answer 3 Key Questions:



Successful strategies are *dynamic*



**And have real resources in
place behind them....**

Why have a strategy?

1. To make choices

**Overcommitment destroys
productivity**

Why is it so hard to kill project #26?

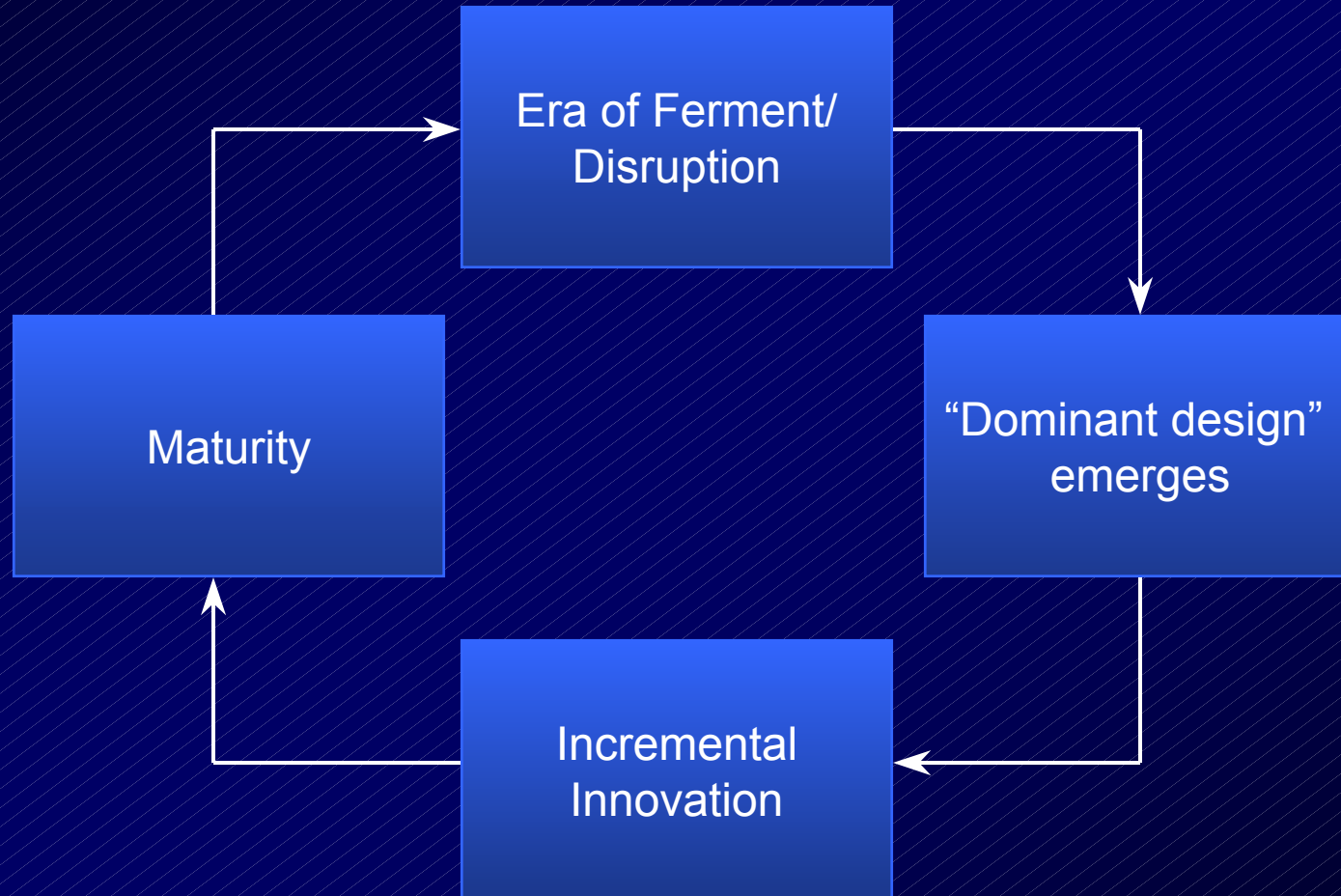
- It's a "good" project!
- Good managers can meet stretch goals
(and I'm a good manager)
- Making difficult decisions takes time & energy

It's very hard to kill projects without a strategy

Reasons to have a strategy:

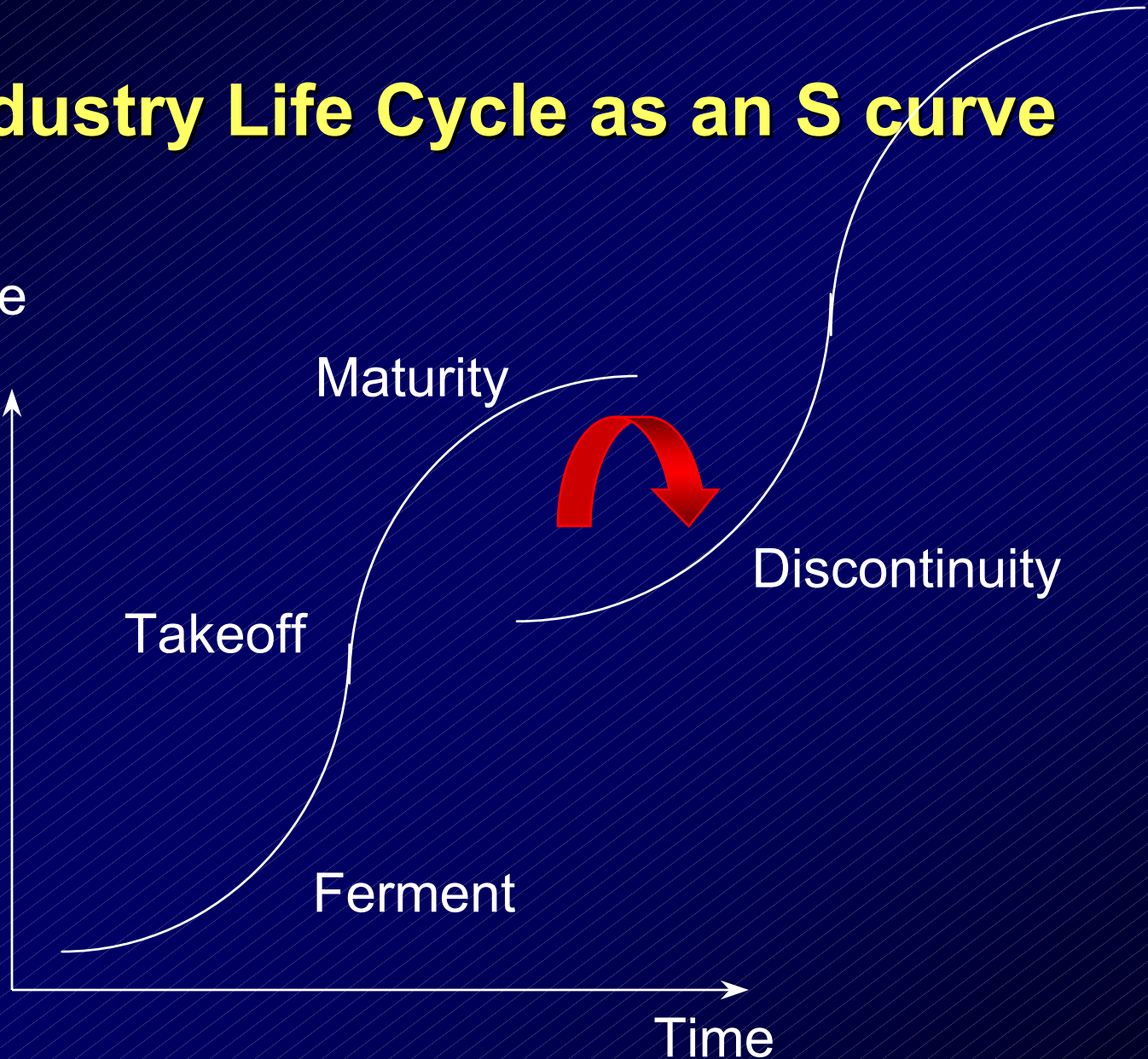
2. To be able to change it

A Key Framework: The industry life cycle

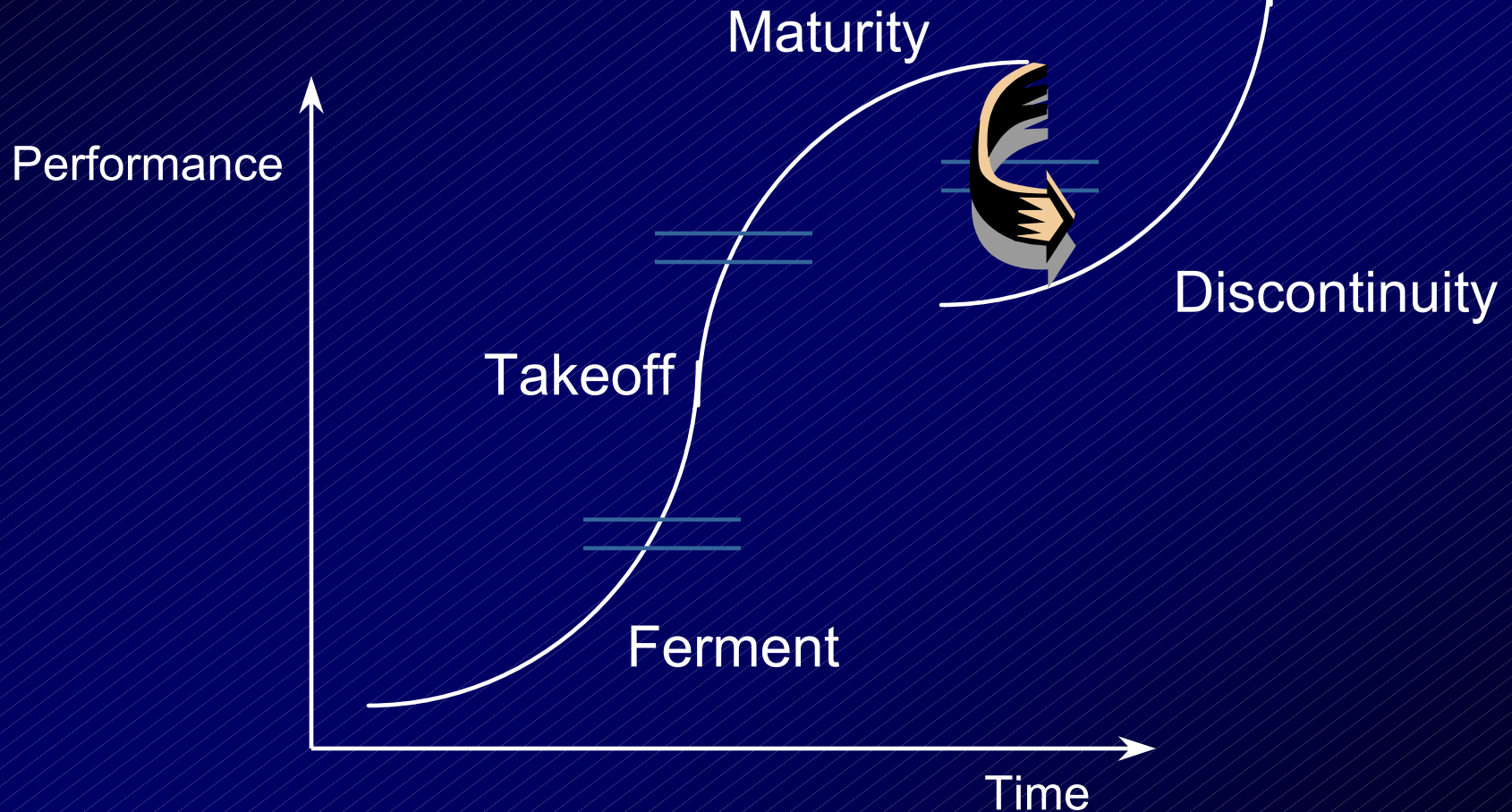


The Industry Life Cycle as an S curve

Performance



The S-curve Maps Major Transitions

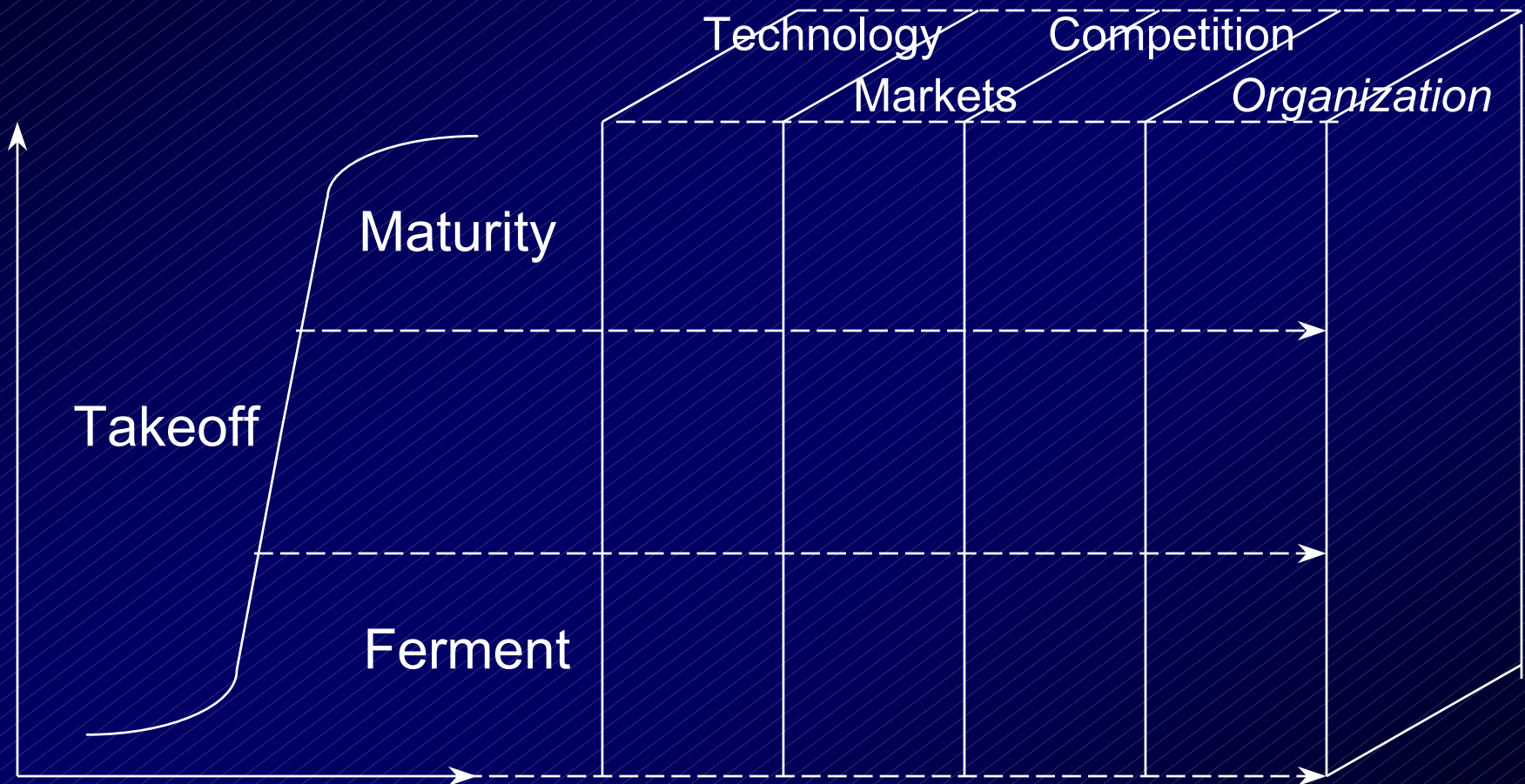


Transitions often challenge existing organizations severely

But they also create major opportunity

- Corning glass
 - Cookware to optical fiber
- HP
 - Instrumentation to computers
- IBM
 - Mainframes to PCs to Services
- Merck
 - “Random” drug discovery to genetics and genomics

Understanding the life cycle is critical since it shapes strategic choices:



Course Outline:

- How will we create value?
 - PDAs, EMI and the Cat Scanner
- How will we capture value?
 - Surface Logix, Abgenix, Ember, Mercury
- How will we deliver value?
 - Siemens, Intel, Synthes, XTV, P&G, Alza/Ciba
- Actually Doing Strategy
 - Kirkham Instruments, Kodak, Nokia

S curves and Technological trajectories

- Read: Foster, R. (1986). "The S-curve: A New Forecasting Tool."
- Think: *What determines the limits of an S curve? Can such limits be determined ex post? How would one determine what to map on the vertical axis of an S curve?*
- Try: *On the course web site you will find an excel program that contains performance specifications for nearly every PDA ever introduced. Draw one or more S curves for the industry. Speculate about the industry's future evolution.*

Next class:

First 2 page paper due the following week.

- Use the next class to choose an industry or firm.
- *Plot and describe the relevant S curve(s) for your industry. Is the industry likely to be subject to “natural technological limits”? Why or why not? Has it experienced “discontinuities”? Is it likely to do so soon?*