

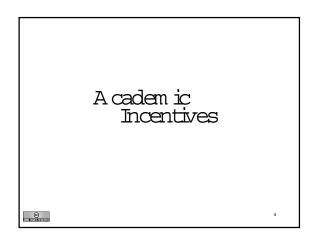
...and should we?

#### Introduction

#### O verview

- Traditional A cadem ic Incentives
- A cadem ic Patenting
- The First Puzzle: DW L
- The Second Puzzle: A cadem ic Priorities

© CYCLOTH SECTOR



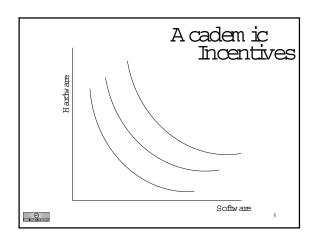
### A cadem ic Incentives

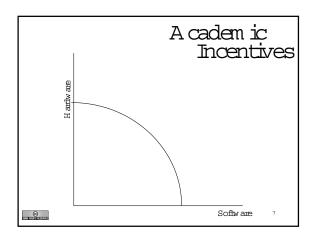
A Puzzle from the LastLecture
Investing in the Unknowable

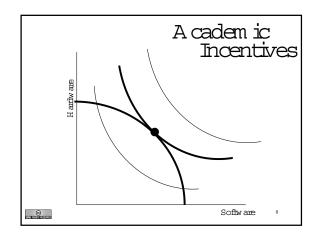
#### H istory

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Camegie, Rockefelleretal.
• PeerReview
NIH & NSF
Curiosity and Its Sunoqates







### Beyond Grants

Is ItOptimal?

Beyond The GrantModel

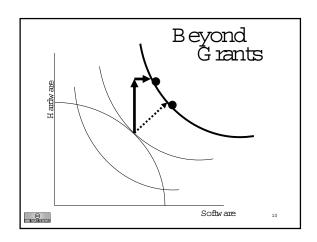
 ${\tt NASA\&DoD.}$ 

Licklider

Industry Participation

Gifts, Affiliates Programs,

Grants, ORUs.



#### Beyond Grants

Basic Argum ent:

M ore Curiosity-Driven Research

Caveats:

**@** 

W ho Benefits Most?

Tilting The R&D M ix

Basic vs. Applied

Long-Term vs.Short-Term

GovernmentResponses

Crowding Out?

# Beyond Grants A Natural Extension (?)

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#### A cadem ic Patents

#### A cadem ic Patents

Money is Different!

- Curiosity + M oney
- Cashing OutLong Term R&D?
- Cashing Out Reputation?

<u>@</u>

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#### A cadem ic Patents

#### Pre-1980s Individuals

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Consulting Patents

Left University to Form Businesses.

#### U niversities

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Harvard: NoDW L form edicalR&D Berkeley: ProfitM axim ization

W isconsin: Socially Responsible Investing

Stanford: Marketing Know ledge

#### A cadem ic Patents

#### Bayh-Dole (1980)

- M arketing Know ledge
- Increm ental Im provem ents
- •NotM oney forUniversities
- Not Increased R & D Incentives

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#### A cadem ic Patents

#### Licensing Offices

- G row th of Patenting, Licensing,
   and Startups
- How Profitable Is Licensing?
- Incom e vs. Incentives
- The "Lottery Ticket" Dynam ic

#### A cadem ic Patents

#### A cadem ic Entrepreneurs

Staying in A cadem ia The 40% Solution

Money for Labs & Departments

#### Politics

An Iron Triangle?

V isible vs. Invisible Benefits

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## The First Puzzle:

1) M arketing

Tim e to M arket
Survey D ata
A Tax on Know ledge?
Pharm aceuticals
Tacit Know ledge
Is Consulting Enough?

:

## The First Puzzle:

2) Increm ental Improvements
Empirical Evidence
WhyNotPatentReform?

© 20

## The Second Puzzle:

Basic vs. Applied Research Statistics vs. A necdotes

The Future

"Changing the University" Engines of Grow th? Is the Culture Changing? Tenure

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(e)

## The Second Puzzle:

A SilverLining?
Understanding MarketNeeds
Side Effects

Hoarding Information Conflicts of Interest

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## Conclusions

M ore Study is Needed!

In Praise of Naïve Arguments

The Scottish Verdict - "Not Proved"

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