#### IT & Public Policy

Ed Lazow ska, University of Washington Steve Maurer, UC Berkeley

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#### An experiment

- New course
- New instructor collaboration
- New sites (UCB and UCSD) joining two previous sites (UW and Microsoft)
- Double the number of sites
- Evolving technology

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#### Course web

- http://www.cswashington.edu/education/ courses/csep590tu/04au/
  - Announcements
  - Readings/schedule
  - Lecture archive
    - Backup fortechnology glitches
  - Project information
    - M ore on this shortly

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#### Threaded em ail archive

- Join through the course web
- Do it today!
- Currently ~34 UW ,~14 UCB ,~19 UCSD , ~9 ?

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#### Course expectations

- Do the reading prior to class
- Participate in class to the extent possible given the technology
- Produce a sm all-group term paper
  - A "balanced policy brief" on some topic w ithin the IT & Public Policy sphere
  - W ewillwaita couple of weeks for course enrollment to stabilize
  - W ewilluse a Wiki to exchange ideas, form

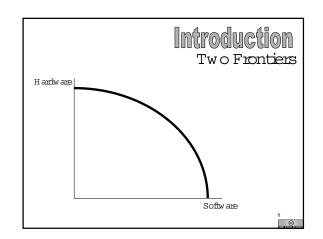
#### Tonight

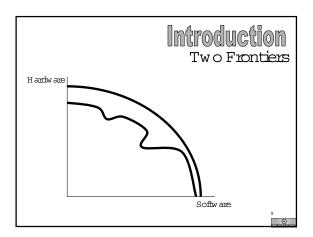
Catch the debate at 11

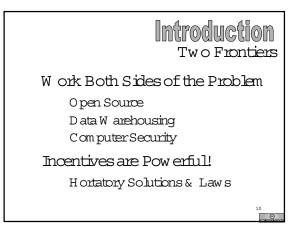


6 @ Procuring Knowledge
An Introduction to
IP Law and Economics

Stephen M. M. auter
Goldman School of Public Policy







# Introduction Two Sets of Tools

#### LegalTradition

Local (Nuts-and-Bolts) Optim ization
Ts-Tsm

#### Economics Tradition

G lobal (Big Picture) Optimization Precision

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### Introduction

Two Themes

## Marginal Cost = Zero

The Second Copy is Cheap!

Jargon: "Non-Rival"

### **Network Externalities**

ICare W hat You Buy.

2 @

# Tonight

MP = 0

O ther R & D Institutions
Applications . . .
D atabase Policy
(Private-Public Partnerships)
(A cadem ic Entrepreneurs)

Intellectual Property ("IP")

#### A RightTo Exclude



Som e H istory

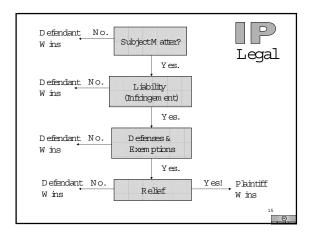
Late M edieval Origins
Statute of M onopolies (1524)
Patent & Tradem ark Office
Fashions in IP Law

M any Types

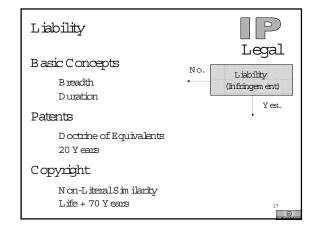
Patents, Copyright, SCPA, etc.

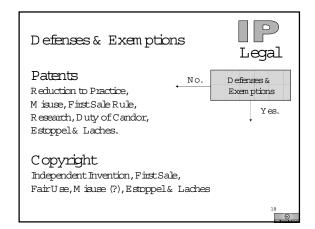
M any Proposals

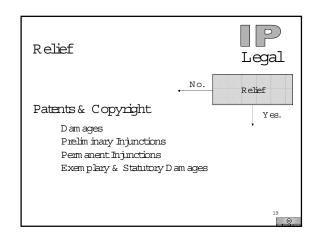
D atabases



#### SubjectM atter Legal Patents: \* Products, Compounds, No. SubjectM atter? M achines, Processes . . . \*\* Life, Business M ethods, Software? Yes. \* Novelty Copyright: \* Expression, Not Ideas \* W ritings, Plays, M ovies, D igital Audio . . . \*\* Software? \* C reativity Other Statutes - The Public Domain











A Choice of M ethods

NO D om inantSolution!!!

W hat A = W = Tryingto A coomplish?

W hat A re the Benefits/D raw backs?

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W hat Are We Trying to Accomplish?

- 1. "N obody Can BeM adeBetterOff W ithoutM aking SomeoneElseW orse Off."
- 2.M axim ize N etSocial V alue (v-c) > 0
- 3.0 ld Econom y Prescription: P = M C

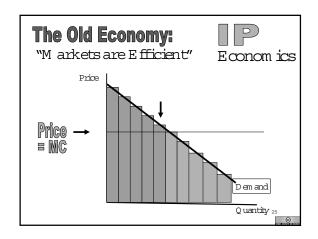
Economics

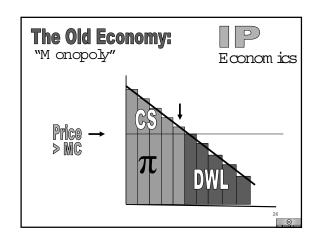
W hat Are We Trying to Accomplish?

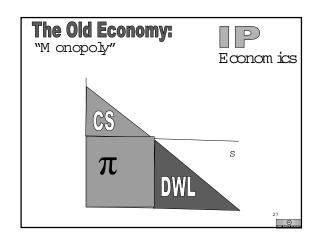
- 1.Ex PostEfficiency "DeadweightLoss"
- 2.Ex Ante Efficiency "Innovation"
- 3. Eliciting Privately Held Information
- 4. A gency Problem s Sponsors
- 5. A gency Problems Researchers

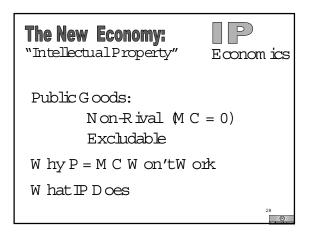
13

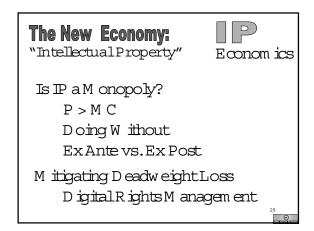


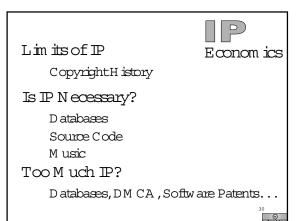




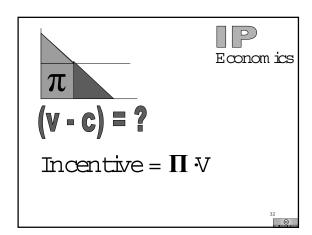


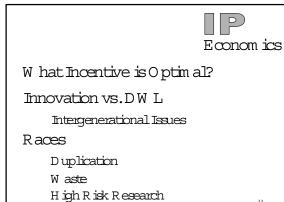


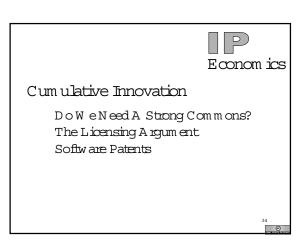




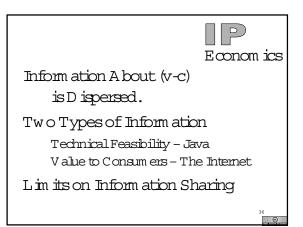




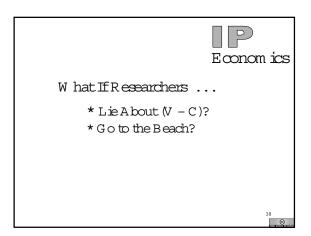




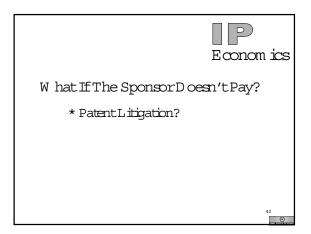


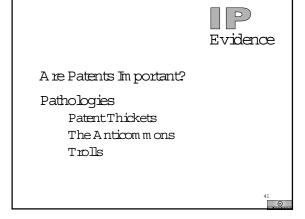


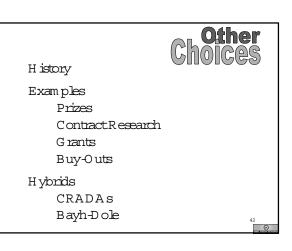














- 1.ExPostEfficiency NoDeadweightLoss!!
- 2.ExAnte Efficiency "Innovation" You MustKnow "v"!!
- 3. Eliciting Privately Held Information Directed Prizes (DARPA, X-Prize) Blue Sky Prizes (Google)



- 4. A gency Problem s Sponsors Types of Prizes CommitmentStrategies
- 5.Agency Problems-Researchers



- 1.Ex Post Efficiency NoDeadweightLoss!!
- 2. Ex Ante Efficiency "Innovation" You MustKnow "(v-c)"!! PacketSw itching Competitive bidding & second-price auctions.
- 3. Eliciting Privately Held Information



- 4. A gency Problem s Sponsors
- 5. A gency Problem s Researchers



- 1.Ex Post Efficiency NoDeadweightLoss!!
- 2.Ex Ante Efficiency "Innovation" You Know "c" Before, "v" A fterward!!
- 3. Eliciting Privately Held Information

- 4. A gency Problem s Sponsors
- 5. A gency Problem s Researchers An Imperfect Solution ...

Application:

H istory

US.

Feist & Congress Europe (1996)

U.S.Politics

IP as a Hidden Tax Users vs. Sellers

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Application:
Databases

Policy

The Paradox: WhyDoWeHaveaDatabase

Industry at A 11?

The Issue: DW L vs.M ore innovation

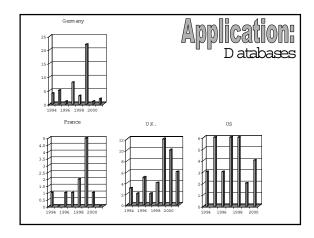
The Evidence:

W ho's Been Injured?

W hatNew DatabasesW ouldWeGet?

The European Experiment

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Applications

D atabases

Advice to Congress

0 ptions

Property Rules Liability Rules

M isappropriation The INS Case

CumentLaw

Prove It!

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