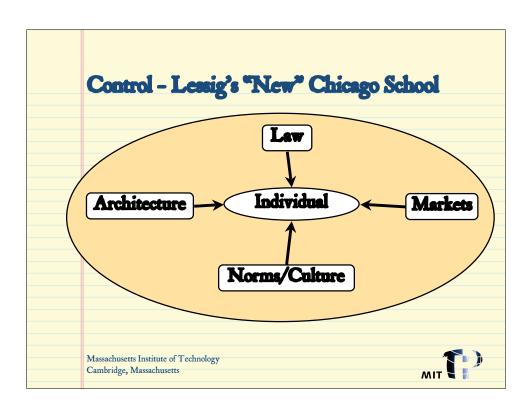
# Architecture and Control ESD.68, Spring 2006 Massachusetts Institute of Technology Cambridge, Massachusetts

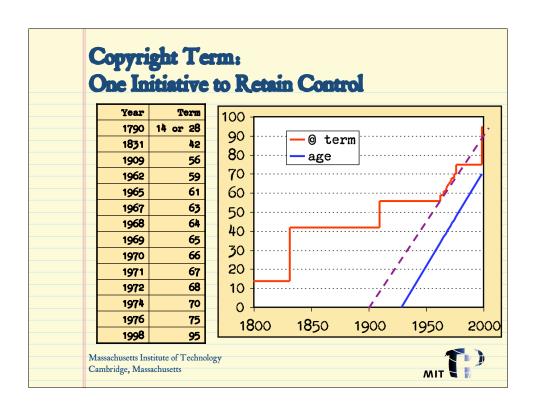
The Views At Conflict	
- Content drives the development of the internet	- Content drives the development of the internet
- Content providers need to retain classical forms of control to support the economics of creativity	- The economics of internet distribution change the business of content distribution radically
<ul> <li>The law should protect those controls</li> <li>And technology should be managed to maintain these controls</li> </ul>	- These economic benefits are a sufficient incentive to provide contour - Technology & law need not change dramatically
- Then, and only then, will content providers participate fully	- Only those willing to adapt to these changing economics will survive



### Responses To Loss Of Control

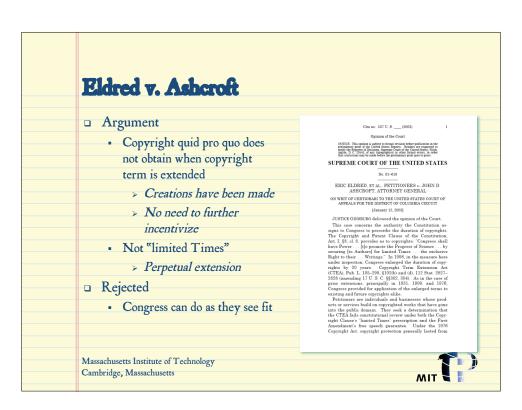
- □ Legal Initiatives
  - Lawsuits, Legislative & Regulatory Changes
- □ Technological Initiatives
  - "Digital Bottles", Copy protections, New Formats (SACD, Audio DVD, etc.)
- □ Economic Initiatives
  - Price reductions, Distribution channels with control
- □ Behavior/Norm Initiatives
  - Education programs





Corporate Influences; Lobby	ring and	Nego	tistion	
"Steamboat Willie," Debut of Mickey	Year	Term	MMouse	Diff
Mouse, 1928	1790	14		
Note Importance of ~25 Years In	1831	42		
These Trends	1909	56		
May Have Been Latent At Outset	1962	59	34	25
Pattern Became Too Obvious To	1965	61	37	24
Miss	1967	63	39	24
□ 1998 Statute: "Sonny Bono Copyright	1968	64	40	24
Term Extension Act"	1969	65	41	24
/1./	1970	66	42	24
a/k/a	1971	67	43	24
"Mickey Mouse Protection Act"	1972	68	44	24
White Trotte and The	1974	70	46	24
	1976	75	48	27
	1998	95	70	25
Massachusetts Institute of Technology		<u>'</u>	4	
Cambridge, Massachusetts			MIT	





http://www.waxy.org/archive/2003/01/15/eldred\_s.shtml

Comic strips removed for copyright reasons.

Mickey Mouse and Goofy, "Eldred Verdict" strip see http://www.waxy.org/archive/2003/01/15/eldred\_s.shtml.

Bolling, Ruben. "Tom the Dancing Bug" #633 (January
23, 2003).

Available at http://dir.salon.com/story/comics/boll/2003/01/23/boll/index.html (accessed 18 September 2006).

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### Ice-T's Take on Napster, the Law and Morality (2000 Aug 7)

The recording companies, "are tripping off the fact this stuff comes through the computer clean," he said. "That's the thing. When it comes on the radio, you can tape it, I can send it to my homeboy. But mail moves slow and the Internet moves faster."

Photo and text removed for copyright reasons.
See: Holson, Laura. "Ice-T's Take on Napster, the Law and Morality." New York Times, August 7, 2000.

[...]Why do so many people traffic in music they haven't paid for? "To me," Ice-T said, "you got the Times, August 7, 2000. cops and the robbers. And, to me, I think human beings want it free. And that's just your nature. And, if there is a way around paying, that is what you are going to do. None of you guys are moral enough to say I would rather pay \$16 than get it free."



### Music: The Legal Context

- □ First Distinction
  - · A "Song"
  - A "Sound Recording"
- Second Distinction
  - Reproduction Right
    - Making Copies
  - Public Performance Right
    - > Owned By the "Song" Owner
    - > Not Owned By the "Recording" Owner
    - > Changed in 1995 to add "digital audio transmission"
- □ Compulsory License (Section 115)
  - If a recording has been distributed, the owner of a song must license the use of the song at a legislated rate

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### The Actors

- Record Companies
  - Contracts with Recording Artists
  - Financing, Promotion and Distribution of Recordings
  - Royalty Payment To Artists
- Music Publisher
  - Contracts with Songwriters
  - Commercial Exploitation of Songs
  - Licensing for
    - > Recordings
    - > Sheet Music Printing
    - > Public Performances, Live and Recorded

- □ ASCAP/BMI/SESAC
  - "Performance Rights Societies"
  - Representation of Publishers and Songwriters wrt Performance Licensing
  - "Songs" not "Song Recordings"
- Harry Fox Agency
  - Licensing Agency
  - Specifically To Record Companies for Music Publishers
  - For Reproduction of "Songs" as Phonorecordings
  - Compulsory Licensing Arrangements



### The Actors (continued)

- □ Recording Industry Association of America
  - Trade Association
  - Promotion of Record Company Interests
  - Aggressive Anti-Piracy and Intellectual Property Protection Efforts
- □ The Recording Artists Themselves
  - Prince
  - Courtney Love
  - Janis Ian
  - Don Henley & The Recording Artists Coalition
  - Metallica

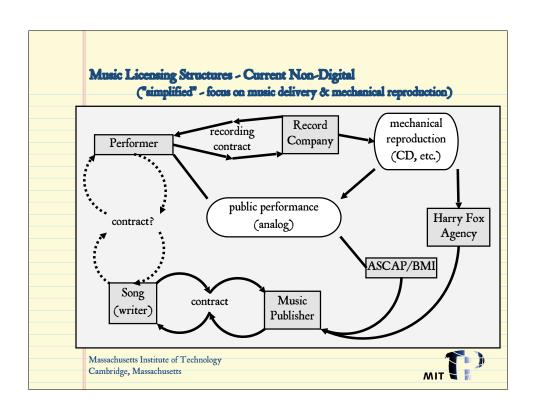
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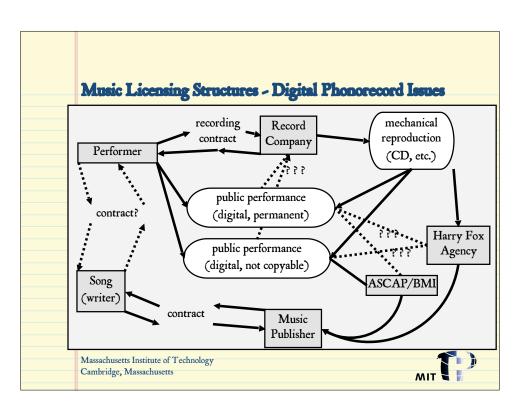


# A Complex Structure of Relationships

- □ Creators of Intellectual Property
  - Composers
  - Performers
  - Arrangers
- □ Distributors of Intellectual Property
  - Music Publishers
  - Phonorecording Manufacturers
  - Performers
  - Broadcasters, etc.
- □ Consumers of Intellectual Property







### Why All The Extra Lines?

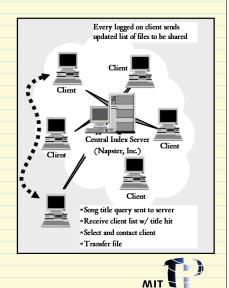
- Record Companies
  - Digital Copies, Persistent Or Otherwise, Are As Good As The Original
  - Could Displace CD Sales Added To The 1995 Law
- □ Harry Fox
  - Digital Copies, Persistent Or Otherwise, Are "Mechanical Reproductions"
  - Thus, Copying Licenses Must Be Paid
- ASCAP/BMI/SESAC
  - Digital Distribution Is A "Public Performance"
  - Thus Performance Licenses Must Be Paid

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# Enter - Napster

- □ Shawn Fanning -
  - Northeastern U. Undergraduate
  - 1st prerelease mid-1999
- Concept
  - MP3 Search Engine
  - File Sharing Protocol
  - IRC/Communication Tool Within A Community
- Peer-to-Peer Technology Rather Than Central File Store
  - Central Indexing/Locating Mechanisms
- Explosive Growth
  - Feb 2000; 1.1 million
  - Aug 2000; 6.7 million
  - Feb 2001; 13.6 million US



# Pew Study - Upward Trend Percent of Internet Users Who Download Music (+/- 3%)

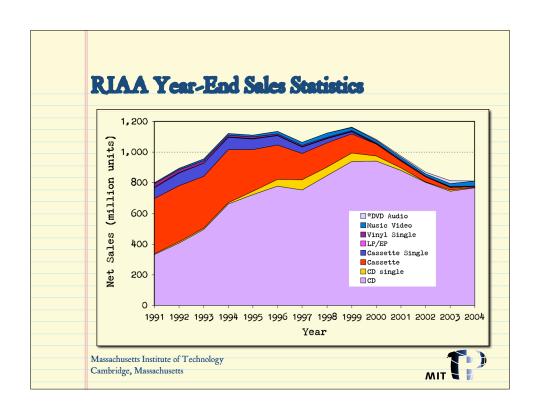
	7-8/2000	2/2001
< \$30k	28%	36%
\$30k-\$50k	24%	31%
\$50k-\$75k	20%	29%
\$75k+	15%	24%

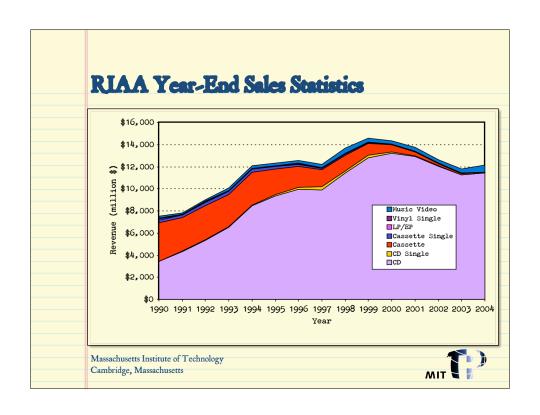
		7-8/2000	2/2001
Men		24%	36%
Won	nen	20%	23%
Whit	es	20%	26%
Black	8	29%	30%
Hispa	nics	35%	46%

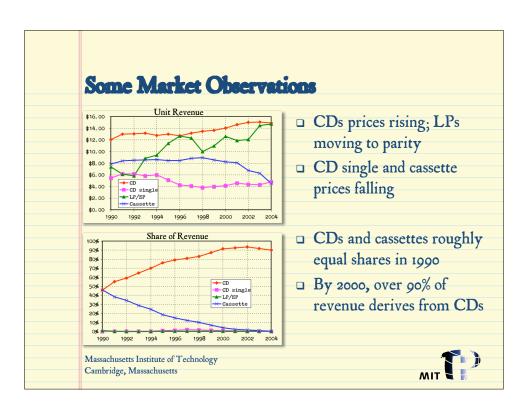
	7-8/2000	2/2001	
∢High Sch	48%	55%	
Grad HS	25%	31%	
Some Coll	25%	32%	
Grad Coll+	15%	21%	

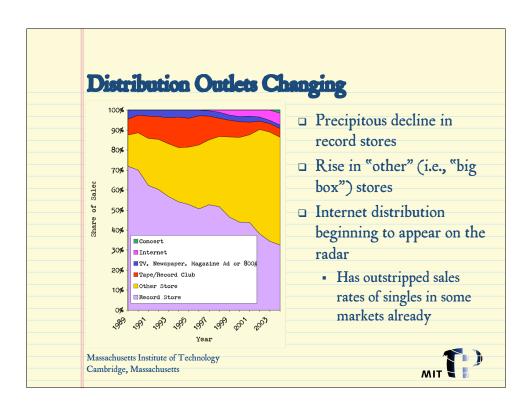
	7-8/2000	2/2001
18-29	37%	51%
30-49	19%	23%
50+	9%	15%













### RIAA Sues Napster For Copyright Infringement RIAA Positions Napster Counterpositions

- - Making Copies
    - > No Right To Distribute
  - Playing Phonorecords
  - - > No Licensing
  - Economic Harm To Artists, Industry
  - Secondary copyright liability
    - > Contributory
    - > Vicarious

- Fair Use ("space shifting")
- Noncommercial Use Home Recording Act
- DMCA Safe Harbor Provision
- Transitory digital network connections
- Information location tools
- Lawful Sharing (uncopyrighted works or copyrights not enforced by owners)

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# Soay Decision (Sony v Universal City Studios, 464 U.S. 417, 1984)

- □ A manufacturer of a device that can (even frequently is) used for infringement cannot be held liable for contributory infringement, so long as the device is capable of "substantial noninfringing uses"
- □ Use of a VCR to "time shift" is not infringement
  - Does violate exclusive right to copy, but
  - Is exempt under "fair use"



### Secondary Liability in Copyright Infringement

- □ Contributory copyright infringement
  - If one has knowledge of infringement;
  - And one "induces, causes or materially contributes to" the infringement
  - One is liable for contributory infringement.
- □ Vicarious copyright infringement
  - If one has an obvious financial interest in infringement;
  - And one has the right & ability to supervise the infringement;
  - And fails to block the infringement;
  - One is liable for vicarious copyright infringement.

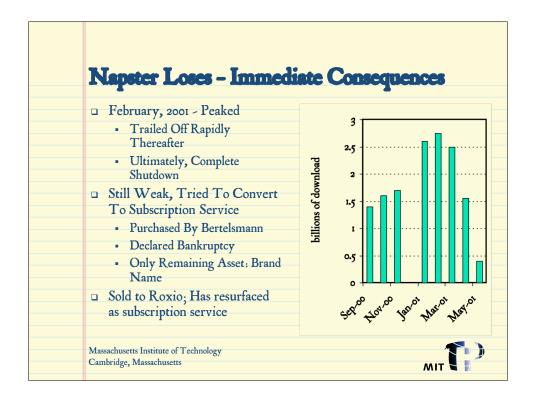
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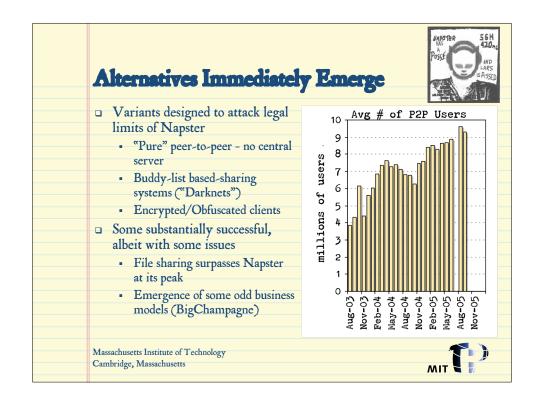


## Factors in finding "Fair Use"

- □ Purpose and character of use
  - Noncommercial, private, more like it's fair use
- □ Nature of the creative work
  - More unique/intense effort to create, less likely it's fair use
- □ Amount of the work in question
  - The more that is copied, the less likely it's fair use
- □ Effect of the use on the market or potential market
  - More the economic harm, the less likely it's fair use







### Grokster, KaZaA

- □ Evolution of the Sony Betamax decision
  - "Substantial noninfringing uses"
- □ Napster lost this argument (one of several)
- □ Grokster also lost, but it took the Supreme Court
  - Sony doctrine skirted, preserved
    - > Concurring opinions spar over extent of preservation
  - Notion of "inducement" for economic gain

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Cite as: 545 U.S.\_\_\_\_(2005

Opinion of the Court

### SUPREME COURT OF THE UNITED STATES

No. 04-480

METRO-GOLDWYN-MAYER STUDIOS INC., ET AL., PETITIONERS v. GROKSTER, LTD., ET AL

ON WRIT OF CERTIORARI TO THE UNITED STATES COURT OF APPEALS FOR THE NINTH CIRCUIT

[June 27, 2005]

JUSTICE SOUTER delivered the opinion of the Court.

JUSTICE SOUTER delivered the opinion of the Court.
The question is under what circumstances the distributor of a product capable of both lawful and unlawful use is
liable for acts of copyright infringement by third parties
using the product. We hold that one who distributes a
device with the object of promoting its use to infringe
copyright, as shown by clear expression or other affirmative steps taken to foster infringement, is liable for the
resulting acts of infringement by third parties.

A Respondents, Grokster, Ltd., and StreamCast Networks, Inc., defendants in the trial court, distribute free software products that allow computer users to share electronic files through peer-to-peer networks, so called because users' computers communicate directly with each other, not through central servers. The advantage of peer-to-peer networks over information networks of other types shows up in their substantial and growing popularity. Because they need no central computer server to mediate the exchange of information or files among users, the high-



### Grokster:

### A New Secondary Infringement Doctrine

- □ Inducement
  - If there is an affirmative act to promote infringement;
  - And there was intent to do so as well;
  - Then one is liable for inducement infringement liability
- □ Contrast with "Brief Amici Curiae Of Computer Science Professors Harold Abelson,... David Clark,... Edward Felten,... Brian Kernighan,... and David S. Touretzky" http://www.eff.org/IP/P2P/MGM\_v\_Grokster/20050301\_cs\_profs.pdf
  - "Amici have no knowledge of the particular motives of Respondents, but caution against the inference that a particular design decision, such as a decision to include encryption or not to use filtering technologies, necessarily represents bad faith. It may simply represent good, conservative engineering."



### And, Of Course, Suits Against Direct Infringers

- □ Over 15,000 lawsuits filed
- □ Almost all settled, without litigation
  - Cecelia Gonzales v. RIAA -- not so lucky
  - Summary judgement against her (\$22,500)
- □ Patricia Santangelo (Elektra v Santangelo)
  - "an Internet-illiterate parent, who does not know Kazaa from kazoo, and who can barely retrieve her e-mail."
  - Challenge on evidence -- show that \*she\* did it

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## **Artists Split on the Subject**

- □ Disdain for Record Companies
  - Outstanding FTC Consent Degree On Price Collusion in CD Market
  - High Profile Artist Controversies
    - » Prince, Courtney Love, Janis Ian
    - > Recording Artists' Coalition
- □ Others Working With RIAA
  - Metallica, Dr. Dre
- □ Independents On The Outside, In Many Respects



# Pew Study: Artists, Musicians and The Internet (12/2004)

### Artists, Musicians and the Internet: Summary of Findings at a Glance

32 million Americans consider themselves artists and about 10 million of them get some kind of compensation for their creations and performances.

American artists have embraced the internet as a creative and inspiration-enhancing workspace where they can communicate, collaborate, and promote their work.

Notable numbers of artists say the internet has been a boon to their marketing efforts.

For some artists, the internet has had a helpful social impact as they network with other artists, communicate with their fans, and stay in touch with friends when they are on the road.

Artists are divided, but not deeply concerned about the file-sharing that happens online. They want control over their creations, but most do not say internet piracy is a big threat.

Artists think unauthorized peer-to-peer file-sharing should be illegal, and most would go after the companies, rather than individual file-sharers.

Artists are split about what constitutes fair use of digital material.

Online artists are also active consumers of media content online. But those who download files say if they get content for free, they usually support the artist or author in other ways.

Source: Madden, Mary. Artists, Musicians and the Internet. Washington, DC: Pew Internet & American Life Project, December 5, 2004.

### http://www.pewinternet.org/PPF/r/142/report\_display.asp

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### Complicating Factor - Distribution As A Player

- □ Injuries To Artists Generally Decried
- □ Injuries To Users Generally Decried
- □ Injuries To Record Companies Generally Applauded

Images removed for copyright reasons.

- 1) Griffith, Bill. "Overthowing Royalties." *Zippy the Pinhead*, May 23, 2001.
- 2) Napster promotional image.



### The Recording Industry Business Model

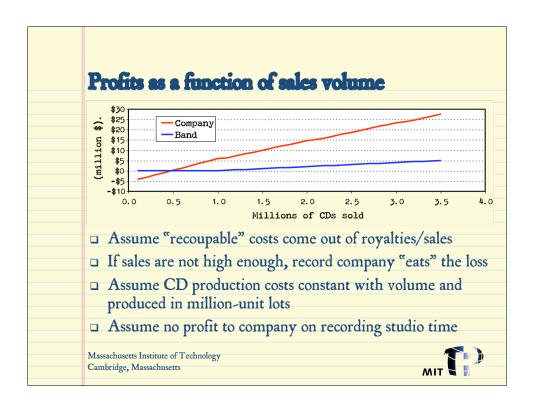
- "Courtney Love Does the Math" Courtney Love; Salon; June 14,
   2000
  - Presented While in Litigation With Her Record Company
  - Settled Out of Court
- □ Is Copyright Working?
  - Conflict Between Artists and Industry
  - Utilitarian Arguments For Copyright
- Article Objective: To Demonstrate The Unfairness Of The Industry
   To The Basic Performer (vs the Superstars)
- Presents The Basic Elements Of A Modern Recording Contract

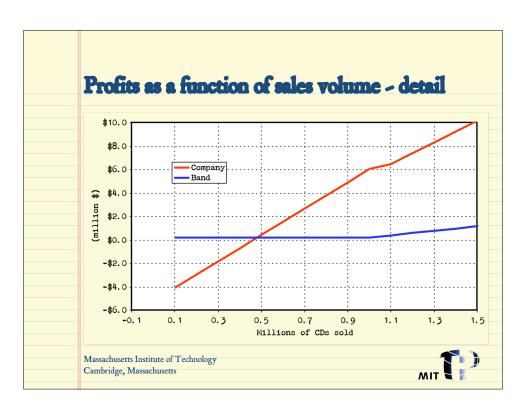
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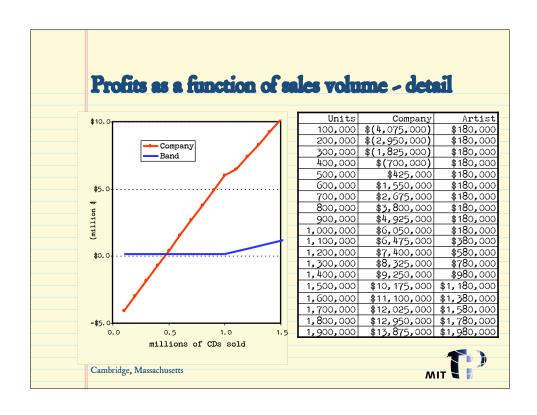
Cambridge, Massachusetts

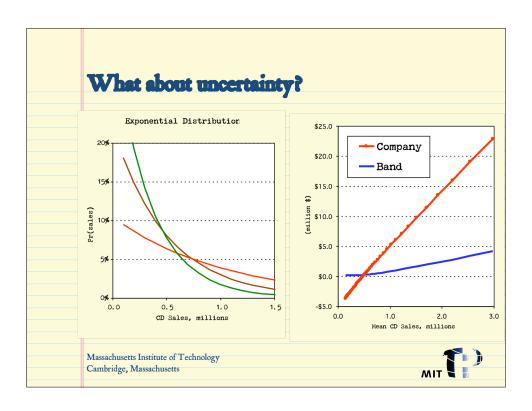


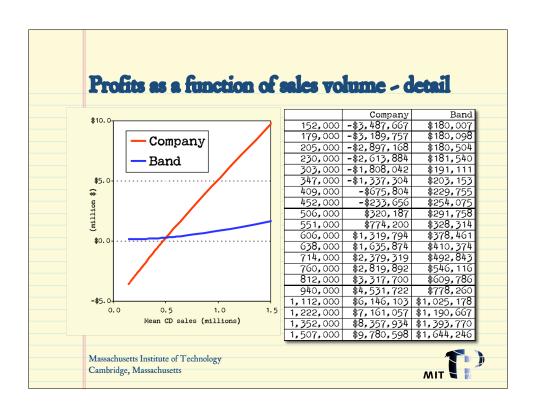
### **Economics - Courtney Does the Math** □ Monies Received By The Band Monies Expended By Record Company - Advance:.....\$1,000,000 - Advance:.....\$1,000,000 - Royalties:.....\$2,000,000 • Video Production:.....\$1,000,000 - Tour Support:....\$200,000 > 20% of Assumed \$10/unit Radio Promotion:.....\$300,000 □ Monies Expended By The Band - CD Manufacturing:....\$500,000 □ NOT to Record Company - Agent:....\$100,000 > Assumed per 1,000,000 units Publisher Royalty:.....\$750,000 .....\$25,000 - Legal:.... > \$0.75/unit .....\$2,200,000 Taxes:..... □ Monies Received By Record Company □ TO Record Company Sales Gross: \$10,000,000 Recording Costs:....\$500,000 Recouped Video Costs:.....\$500,000 Recouped Video Costs:.....\$500,000 Recouped Tour Support:....\$200,000 Recouped Tour Support:.....\$200,000 Recouped Promotion:....\$300,000 Recouped Promotion:....\$300,000 Recouped Advance:....\$1,000,000 Recouped Advance:....\$1,000,000 □ Net: \$6,070,000 □ Net: \$180,000 Massachusetts Institute of Technology

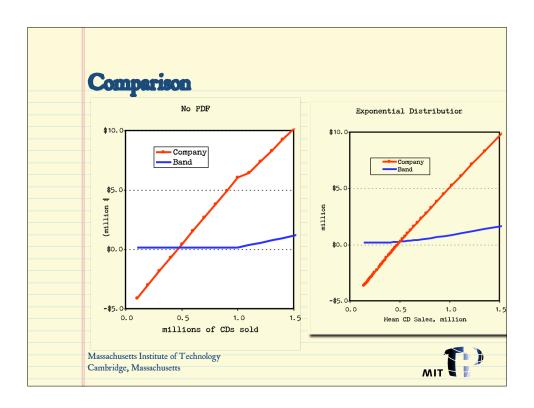












### Conclusions?

- □ Of Course, the Shape of the Distribution Can Change a Lot
  - But, What Does the Base Analysis Suggest?
  - Are the Companies That "Unfair?"
  - Or, Is There Something Else?
- □ Note:
  - Also see Steve Albini's "The Problem With Music"
  - Other Artists With Perspectives Online
    - > (Links: IP Controversies: Digital Music: Record Industry Practices)
    - > Prince http://www.npgmusicclub.com
    - > Janis Ian http://www.janisian.com

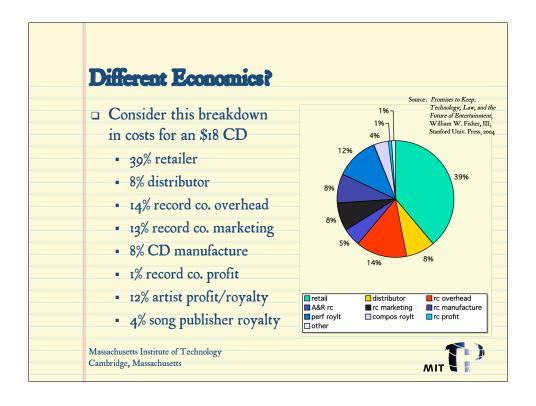
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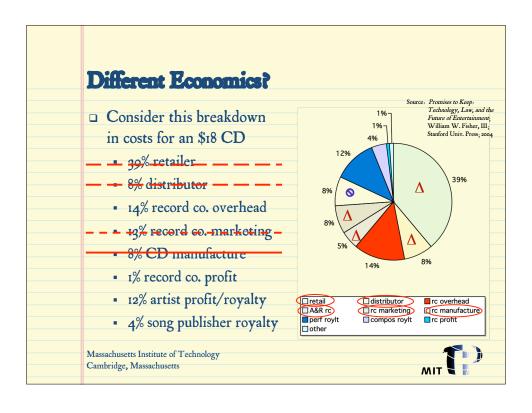


### So, Maybe The Record Company Has A Case

- But Digital Distribution Should Have Some
   Economic Consequences
- □ The Physical versus the Digital Product
  - Changes in delivery
  - Changes in retail
  - Changes in product
  - Changes in control







### It's Not Just About PaP/Music

- Digital technology has led to many new opportunities
- Dut certain constructions of the law are turning those opportunities into a stranglehold on freedom & culture
- How far do we want to go to protect this construct?
- □ What do we get out of it?

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### The Views At Conflict

- Content drives the development of - Content drives the development of the internet the internet Content providers need to retain - The economics of internet classical forms of control to support distribution change the business of content distribution radically the economics of creativity - These economic benefits are a - The law should protect those controls sufficient incentive to provide content - And technology should be managed - Technology & law need not change to maintain these controls dramatically - Then, and only then, will content - Only those willing to adapt to these providers participate fully changing economics will survive Massachusetts Institute of Technology