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# A New Model for Open Sharing

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# MITOPENCOURSEWARE MASSACHUSETTS INSTITUTE OF TECHNOLOGY



- I. Vision
- II. Implementation
- III. Outcomes
- IV. External Outreach

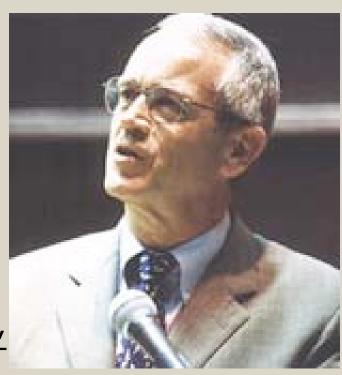
# Vision — Institutional decision-making

- Fall 1999 Faculty committee appointed
- Fall 2000 "OpenCourseWare" concept recommended to MIT President Charles M. Vest
- April 2001 MIT OCW announced in The New York Times

# Vision — Institutional decision-making

"OpenCourseWare looks counterintuitive in a market-driven world. But it really is consistent with what I believe is the best about MIT. It is innovative. It expresses our belief in the way education can be advanced — by constantly widening access to information and by inspiring others to participate."

Charles M. Vest,
 President Emeritus of MIT



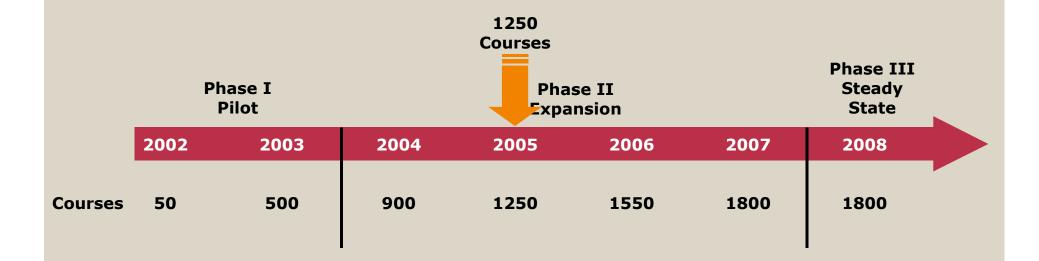
#### Vision — What is MIT OCW?

MIT OpenCourseWare IS NOT: > An MIT education

- Intended to represent the interactive classroom environment
- Degree-granting

- MIT OpenCourseWare IS: > A Web-based publication of virtually all MIT course content
  - Open and available to the world
  - A permanent MIT activity

# Implementation — Where we are



# Implementation — 1250 courses available

#### Site Highlights

- Syllabus
- Course Calendar
- Lecture Notes
- Exams
- Problem/Solution Sets
- Labs and Projects
- Video Lectures



#### MITOPENCOURSEWARE

Welcome to MIT OpenCourseWare a free, open pub. Sation of MIT Course Materials. We invite you to view all the courses available at this time

AVAILABLE COURSES

- Anthropology
- Architecture
- Biological Engineering Division
- Brain and Cognitive Sciences
- Chemical Engineering
- Civil and Environmental Engineering
- Comparative Media Studies
- Earth, Atmospheric, and Planetary Sciences
- Electrical Engineering and Computer Science
- **Engineering Systems Division**
- Foreign Languages and
- ealth Sciences and

#### Welcome to MIT's OpenCourseWare:

a free and open educational resource for faculty, students, and self-learners around the world. OCW supports MIT's mission to advance knowledge and education, and serve the world in the 21st century. It is true to MIT's values of excellence, innovation, and leadership.

- · Is a publication of MIT course materials
- · Does not require any registration
- . Is not a degree-granting or certificate-granting activity
- · Does not provide access to MIT faculty

Learn more about MIT OCW ...

#### Investing in Open Sharing

Demonstrating his belief in MIT and the ideal of open sharing of educational materials, MIT alumnus Jon Gruber has donated \$1 million to the OpenCourseWare project.

#### Other Opencourseware Projects

Top Japanese universities announce Opencourseware initiatives.

Tufts University has launched its pilot OCW project, offering six courses, with more to come in September.

Visit other Opencourseware sites from around the world.

Discover all available courses.

»Course List »About OCW »Help Learn more Answer your Tell us what about OCW's expansion... • Impact

 Media access · Our story

you think... • FAQs • Email us

Newsletter Sign up for monthly email updates on new courses and news from MIT OCW



COURSE LIST | ABOUT OCW | HELP | FEEDBACK

"The MIT OCW program is a generous and far-sighted initiative that wil do more to change the world for the better. This program should be emulated by every university worthy of the

name." -Leigh Pascoe, selflearner in Paris, France Read more World Reaction..

Give Now

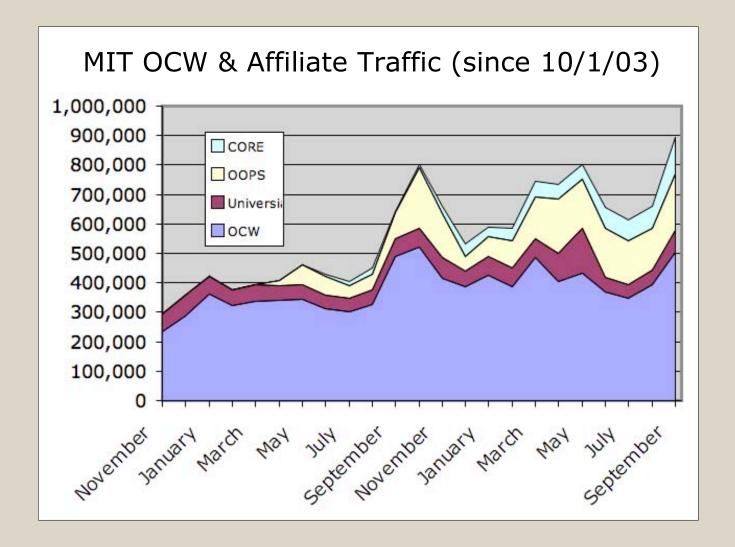
Support MIT OCW with a

Reflections from MIT President Susan Hockfield

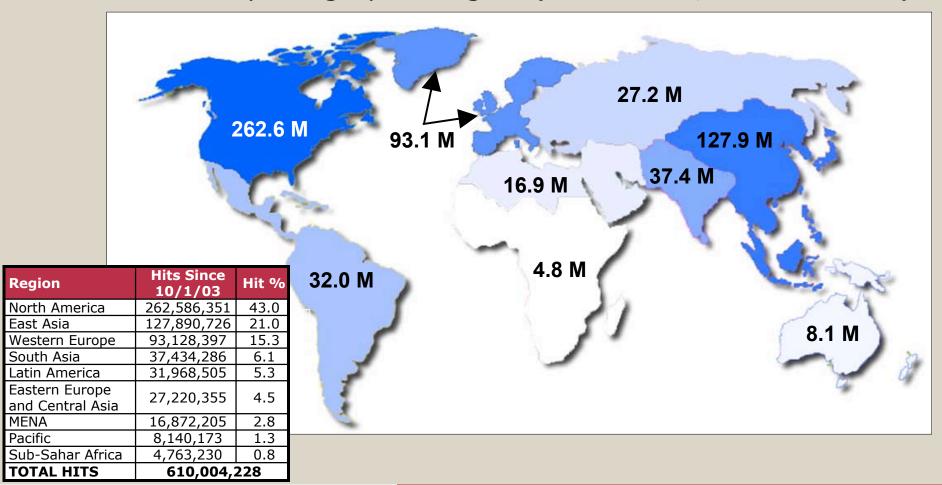


"OpenCourseWare expresses in an immediate and far-reaching way MIT's goal of advancing education around the world. Through MIT OCW, educators and students everywhere can benefit from the academic activities of our faculty and join

a global learning community in which knowledge and ideas are



Traffic by Geographic Region (in Web hits, since 10/1/03)



Countries with most hits in September 2005 (outside of U.S.)

Country		Web Hits
1	China	2,320,503
2	India	1,708,510
3	Canada	968,742
4	South Korea	797,646
5	Sweden	671,133
6	United Kingdom	644,161
7	Taiwan	573,822
8	Japan	537,082
9	Turkey	514,698
10	Germany	448,959

Cou	intry	Web Hits
11	Italy	425,761
12	Brazil	419,551
13	France	413,556
14	Mexico	375,542
15	Romania	361,763
16	Australia	328,446
17	Spain	293,390
18	Singapore	290,249
19	Pakistan	282,645
20	Iran	256,602

- Visitors generally fit one of three user profiles:
  - Educators are 15.3% of all MIT OCW traffic
  - Students are 31.4%
  - Self-learners are 48.2%
- 66% of visitors hold a bachelor's or master's degree
- Visitors most frequently interested in courses in electrical engineering, business, physics, and mathematics

# **Outcomes — Use data**

Use Scenario		% of Use
S	Planning, developing or teaching a course	36%
tor	Enhancing personal knowledge	22%
Educators	Planning curriculum	10%
Edt	Other	32%
<b>10</b>	Complementing a subject currently taking	43%
Students	Enhancing personal knowledge	40%
	Planning future course of study	10%
Sti	Other	7%
	Enhancing personal knowledge	81%
Self- arners	Learning subject matter—course not available for study	9%
	Planning future course of study	8%
	Other	2%

# **Outcomes** — Impact data

	Strongly		Disagree/ Strongly
Statement	Agree/ Agree	Neutral	Disagree
Helped me be more productive and effective	81.1%	18.3%	0.5%
Helped me learn	88.0%	11.6%	0.5%
Improved my courses using OCW (Educators)	84.5%	12.9%	2.7%
Increased my motivation and interest in learning	80.2%	19.0%	0.8%
I would recommend OCW to others	92.5%	7.1%	0.5%

Source: 2004 Intercept Survey

# Outcomes — Impact

According to users, MIT OpenCourseWare is:

- "... the Eighth Wonder of the World."
- "... the Big Bang of the Knowledge Universe."
- "... the greatest thing any institution of higher learning has ever done."
- "... one of the best things ever in history."
- "... like falling in love."
- "... the coolest thing on the Internet."
- "... worthy of the next Nobel Peace Prize."

# **External Outreach — Barriers to use**

- Awareness
- Access
- Language
- Culture
- Academic context

# **External Outreach — Strategies**

- Foster use of OCW materials through awareness-building
  - CORE, UNESCO, U.N. University, Universia, World Bank
- Expand access to materials
  - Translations
    - Universia (Spanish and Portuguese)
    - CORE (Simplified Chinese)
    - Chulalongkorn University (Thai)
  - Mirror sites
    - More than 60 known sites, mostly in Africa and East Asia
    - eGranary, CORE
- Fostering other opencourseware initiatives

## **External Outreach — Mirror sites**

	LIVE	IN PROGRESS	TOTAL
Africa	51	3	54
East Asia	8	2	10
Eastern Europe	1	_	1
Latin America	1	_	1
Middle East	_	1	1
South Asia	3	2	5
TOTAL	64	8	72

#### **Current Mirror Site Locations:**

- Bangladesh
- Brazil
- China
- > Ethiopia
- **>** Gambia

- Ghana
- Guinea
- Indonesia
- Kenya
- Mozambique

- Niger
- Nigeria
- Sri Lanka
- Sudan
- Taiwan

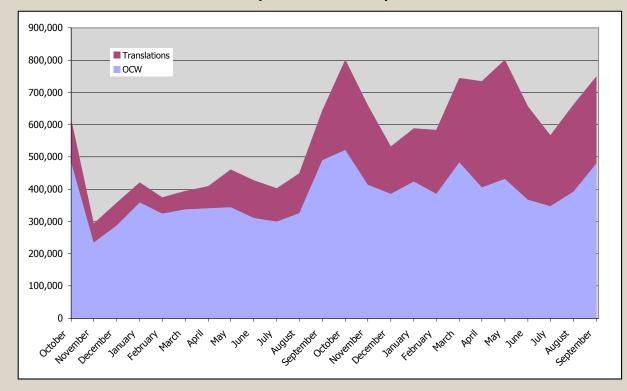
- Tanzania
- Uganda
- Ukraine
- Zambia

### **External Outreach — Translations**

## MIT OCW and Translation Affiliate Visits, 10/03 to 09/05

#### Total translations of MIT OCW content:

- > 94 Spanish
- > 85 Portuguese
- 25 Simplified Chinese
- 15 Traditional Chinese
- 219 Total



# **External Outreach — Emerging opencoursewares**

#### **United States**

- Harvard Law School Berkman Center
- Johns Hopkins
   School of Public Health
- Tufts University
- University of Michigan School of Information
- University of Notre Dame
- Utah State University

#### China (CORE)

- Peking University
- Tsinghua University
- Beijing Jiaotong University
- Dalian Univ. of Technology
- Central South University
- Xi'an Jiaotong University
- Central Radio & TV Univ.
- Sichuan University
- Zhejiang University
- Beijing Normal University
- Plus 146 more

#### **France**

- Telecom Paris
- Ecole Polytechnique
- Techniques Avance\_es
- Ponts et Chausse\_es
- Ecole des Mines de Paris
- Chimie Paris
- Physique-Chimie
- Agronomie
- Statistiques et Economie
- Eaux et Forets
- Arts et Me tiers

#### Japan

- Keio University
- Kyoto University
- Osaka University
- Tokyo Institute of Technology
- University of Tokyo
- Waseda University

#### **Spain**

- U. Politécnica de Madrid
- U. Santiago de Compostela
- U. Barcelona
- U. Islas Baleares
- U. Rovira i Virgili
- U. Jaume I
- U. Murcia
- U. Alicante
- U. Politécnica de Valencia
- U. Autónoma de Madrid
- U. Complutense de Madrid
- U. Sevilla

#### **Portugal**

• U. Aveiro

#### **Vietnam**

• FETP OpenCourseWare

#### **India**

- Rai University
- Somaiya Vidyavihar

### **External Outreach — Feedback**

- How can we make MIT OpenCourseWare more useful to people around the globe?
- What can MIT learn about how people use our faculty's content?
- What can MIT learn from the pedagogy and educational materials from around the world?





### **Thank You!**

Visit MIT OpenCourseWare online at http://ocw.mit.edu

Visit the "Opencourseware How To" site on the Web at <a href="http://ocw.mit.edu/OcwWeb/HowTo/index.htm">http://ocw.mit.edu/OcwWeb/HowTo/index.htm</a>

