the Learning Laboratory Experiment

Seeking effective change in higher education

how it all started:

- President Casper's challenge to the Commission on Technology in Teaching and Learning '94 stressed the following factors as requirements for preeminence in 21st century higher education:
- technology must be used to attract, retain and engage the brightest and most diverse student community;
- technology must be used to assure that these students have the finest possible learning experience; and
- technology must be used to forge new world wide partnerships with industry, government and educational institutions;
- it is upon the work of this commission, and upon its recommendation, that the Stanford Learning Laboratory was founded in May '97.

Our charge

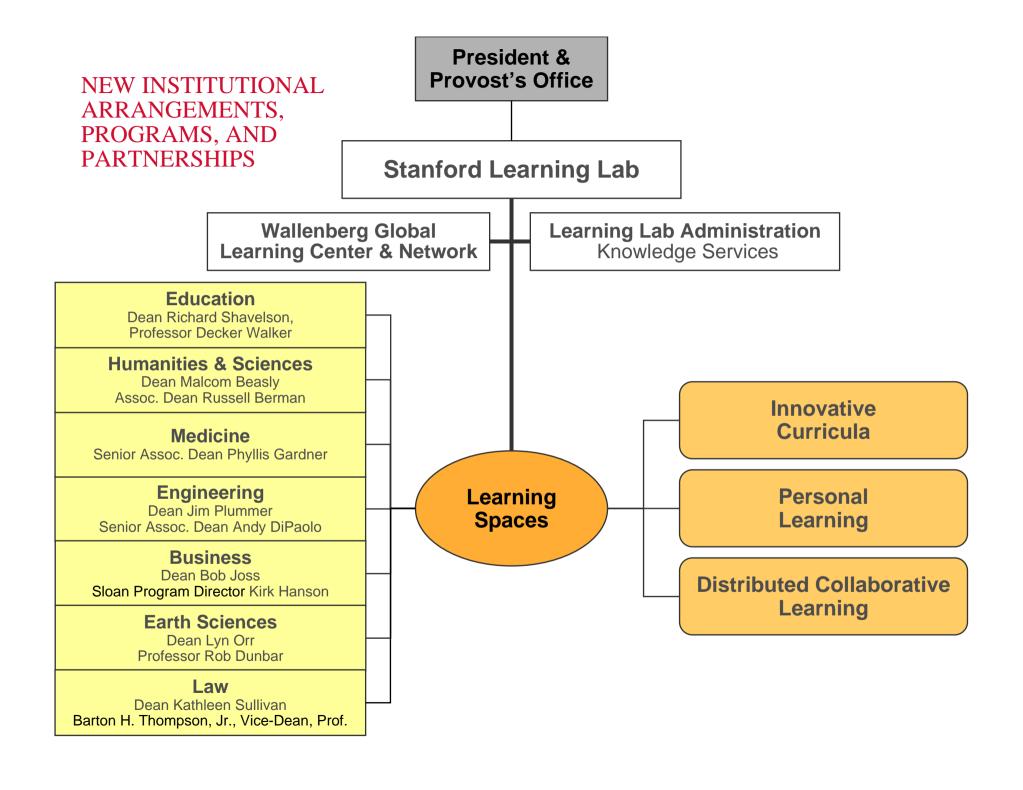
- Identify the challenges presented by new technologies to the normal way the university does its business;
- Devise an integrated solution to these challenges that takes into account both technical development, pedagogical values, institutional stability and traditions.
- Create solutions that are practical, easy to disseminate, cost-effective, and that maintain Stanford's high level of excellence in teaching and research;
- Create partnerships and alliances both within and without the university that will enable these solutions to work;
- Expand ways that the university can serve/penetrate non traditional areas
 of education

applied learning R&D strategies

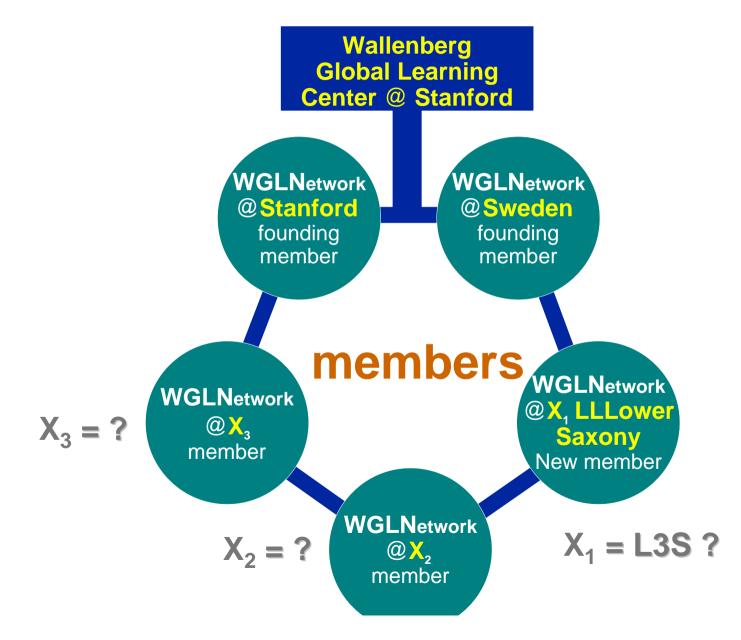
- in the <u>learning space</u>,
 we build products (tools and services) <u>for the institution</u>
 - physical learning spaces to be designed to shape user behavior in favor of desired pedagogy and learning practices.
- in the <u>personal learning</u>, we build products (tools and services) <u>for students</u>.
 - electronic portfolios to capture, organize and re-use personal and communal learning.
- in the <u>innovative curriculum</u>, we build products (tools and services) <u>for the teacher</u>.
 - new curriculum structures and media to improve teaching effectiveness and to adapt to emerging disciplines
- in the <u>distributed collaboration</u>, we build products (tools and services) <u>for our partners</u>.
 - collaborative learning tools and services.

Pedagogical agenda

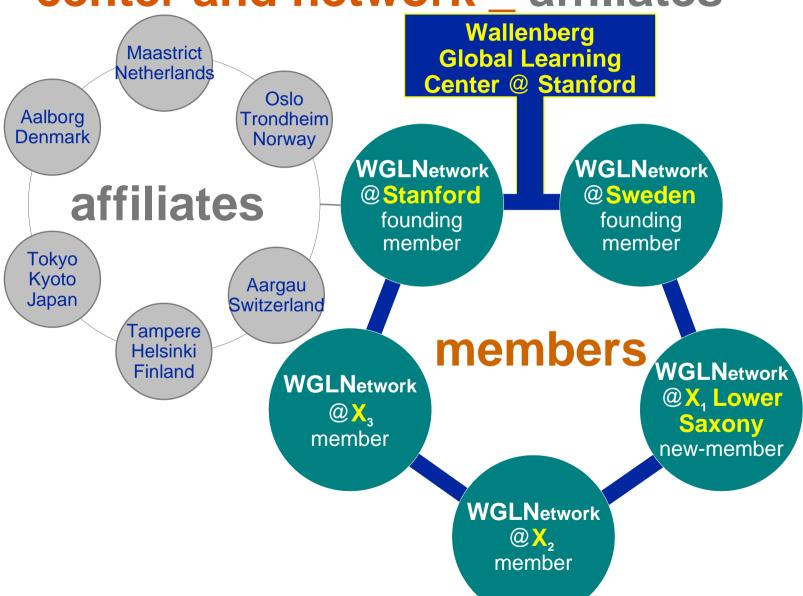
- Create community, and peer to peer connection
- Provide personalized attention and remediation for students
- Provide faculty with quick feed back on course and student performance
- Integrate field research and project activities with formal instruction
- Exploit the sense of place and the resources provided by distributed environments



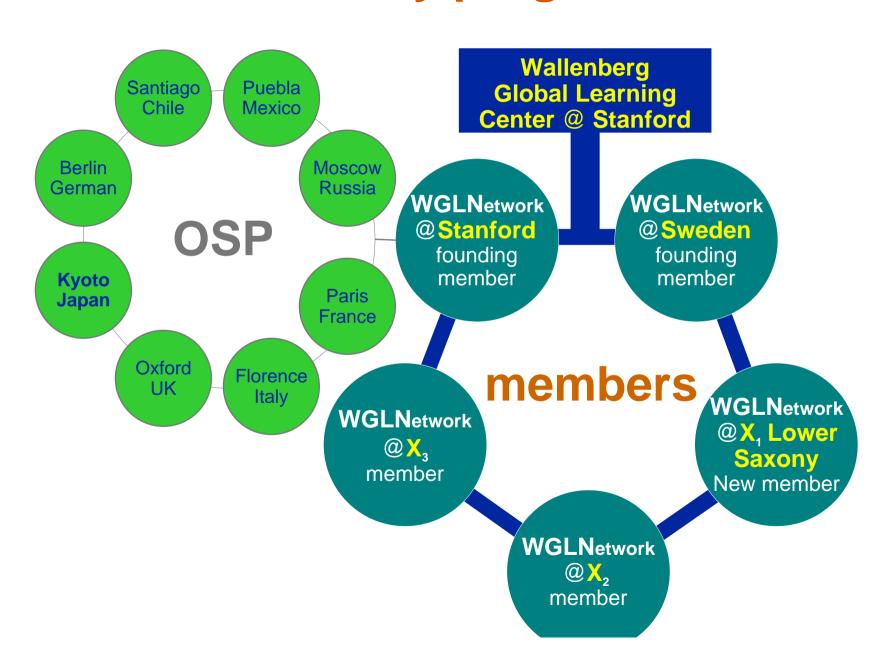
CREATING A GLOBAL NETWORK OF UNIVERSITIES AND RESEARCHERS



wallenberg global learning center and network _ affiliates



overseas study program @ stanford



structuring the Lab's activity_b

thrusts

- 5-10 year open ended commitments
- all Lab activities must be aligned with these
- deliver world class competency recognition for the lab

projects

- 1-3 year start to finish commitments
- most lab activity will be driven be these
- most staff will work on 1-3 projects
- deliver reports, publications, tools and services

structuring the Lab's activity_c

test beds

- 1-3 year start to finish commitments (renewable)
- most projects will require one or more test beds
- deliver compelling working models of the future

studies

- 2 week to 5 year start to finish commitments
- most staff will see a steady turnover of these (variety)
- deliver reports and publications

DESIGNING SPACES AND BUILDINGS FOR THE NEW TEACHING



Designing a building that will provide on-going experiments in learning spaces: Wallenberg Hall

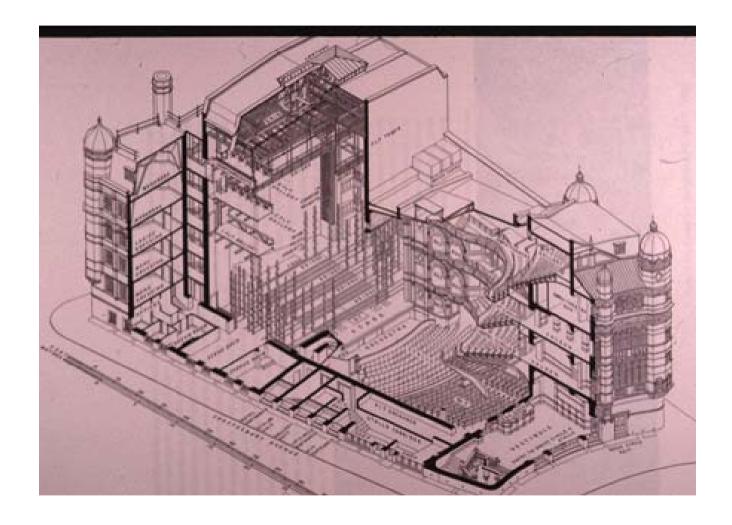
- Gateway to the University
- Unique research/ learning environments
- Showcase for principles of learning
- Technology-augmented experiences
- Center for global communities
- Completion date 2002



Design Challenges

- Spaces that allow for rich interaction in physical and virtual digital environments.
- Spaces that promote self-organization of learning communities and activities, in a global as well as local sense.
- Spaces that concurrently provide for different levels of formal and informal interaction in public and private venues.
- Spaces that are in some manner 'transparent' or otherwise 'viewable.'
- Spaces that are 'smart' in the sense of integrating technology to augment human experience. These spaces might have 'memory' of the people who inhabit them and the experiences that occur.

Models from the past: the theater ... A PERMANENTLY UNFINISHED BUILDING





Models from the past: the piazza FLUID MIX OF PUBLIC AND PRIVATE

