

THE NEXT GEN LEARNING EXPERIENCE AND ITS IMPACTS

REGIONS UPWARD SPIRAL
IBM ALMADEN RESEARCH CENTER
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Overview: Current H.E. Landscape

- Continued erosion of funding base
- Major demographic shifts
- Family income as a predictor of college attainment
- From Arms-race to brains-race
- Universities as complex organizations
- Anticipatory retardation or “the Penguin Effect”
- Impact of technology

The Rise of Attention Economy

“What information consumes is rather obvious: It consumes the attention of its recipients. Hence a wealth of information creates a poverty of attention.”

Herbert Simon, Nobel Prize in
Economics

Therefore:

The power is no longer in the hands of those who control the channels of distribution; the power is now in the hands of those who control the limited resource of attention.

The Need for Transformation

- SHELL study relating to longevity of organizations
- Path breakers and benchmarks
- Developing the ambidexterity
- Altering the DNA & modifying the genetic code of H.E.

“Only those who will risk going too far can possibly find out how far it is possible to go.” *T.S, Eliot*

What is Learning



“Learning is much more than accessing content. In the 21st century, learning is a complex blend of skills, competencies, and the will to continue learning throughout life. These skills and competencies include the ability to think critically and solve complex problems, work collaboratively, communicate effectively, and pursue self-directed learning or metacognition.”

Diana Oblinger, *Educause*

Current Reality

“The Challenge today is to develop sustainable business models that are compatible with current economic reality. Innovative business models and products must work financially or it won't matter how good they are ecologically or socially.”

Dator Senoo

Current Education Trends



- Green, global, & mobile
- The i-tune University
- Learning as socialized, globalized, and modularized
- Competency-based

Required Competencis with the ability to:

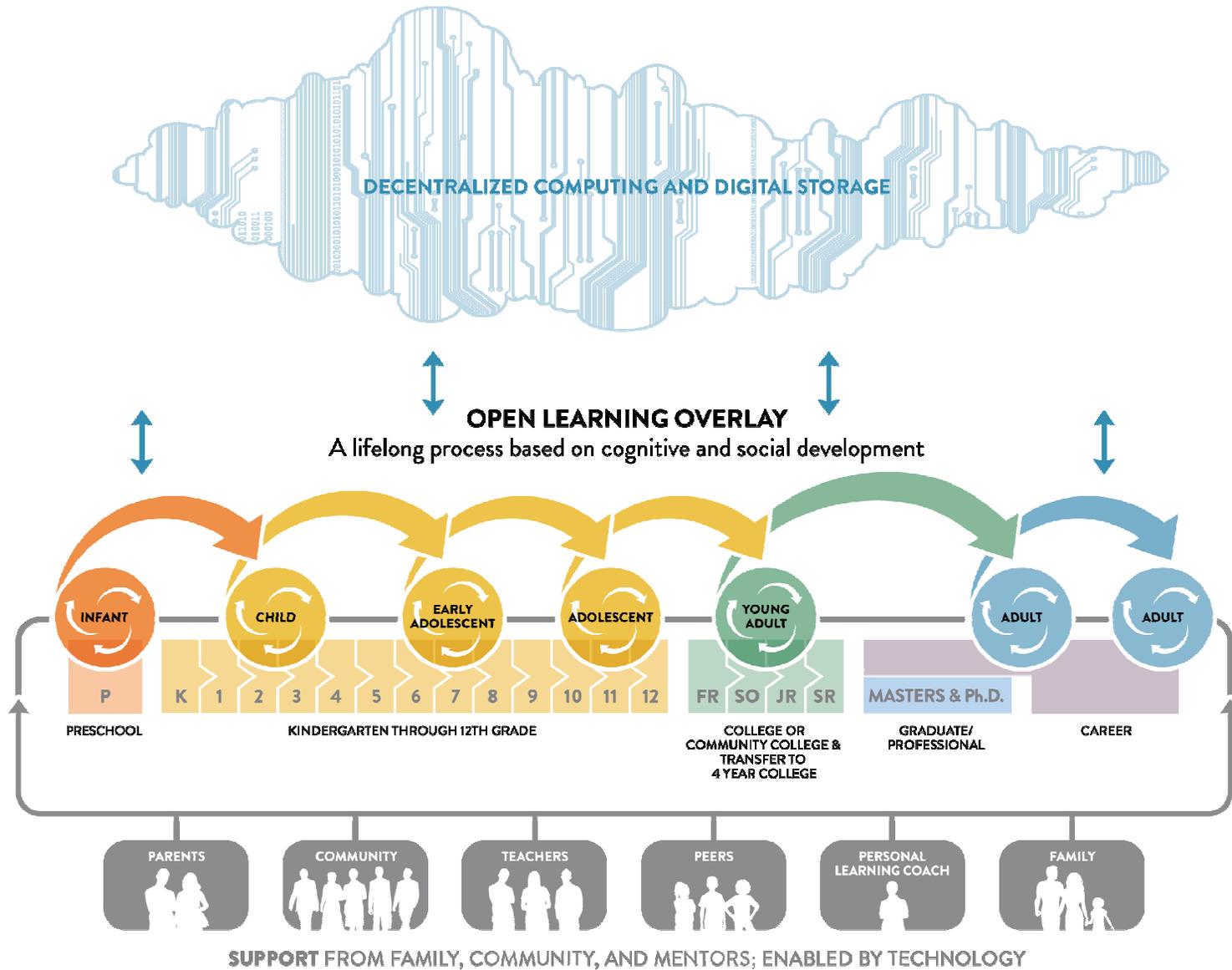
- “Imagination, joyfulness, and social dexterity...combine seemingly unrelated ideas into a novel invention.” Daniel Pink
- Fostering creativity by crossing boundaries of domain
- “Designers are the alchemists of the future”
Richard Koshalek
- “Games are the most elevated form of investigation.” Albert Einstein

An Open Learning Ecosystem



- Requires innovative methods of teaching and learning
- Accommodates a very broad mixture of learning providers
- Removes the old divides between formal education and informal learning
- Uses transparent and strategic technologies where appropriate
- Offers and delivers learning that is social, contextual, and continuous

SCHEMATIC DIAGRAM OF OPEN LEARNING SYSTEM SUPERIMPOSED OVER STATIC EDUCATIONAL INSTITUTIONS



Partnership with Business & Education



“... a pivotal opportunity and means to collaborate in rethinking, reimagining, and reengineering teaching, learning, and educational delivery systems to address the needs of the region’s employers, students, and communities.”

Future Trends

- Green, global & mobile
- Campuses as “cool places”
- Open learning systems
- Collaborative learning spaces
- Classrooms vs. collaboratoria & imagineria
- Library vs. learning commons
- More self study & studio spaces

Infrastructure Implications



- Need high speed broadband networks available on 24x7 basis
- Virtualization of most labs
- Integrated building systems with smart local sensors connected to the cloud
- Campus information & augmented reality
- Utilities for inter-cloud communication

Working collaboratively in:

- Eliminating the cancer of “It cannot be done”
- Migrating from “admiring & deliberating problems to fixing them”
- Developing a strong bottom line orientation
- Seeking systemic solutions with focus, clarity, and urgency
- Act with exceptional vigilance

Specific Suggestions

- Online courses, programs, & degrees
- Reducing graduation requirements to 120 credits for all majors
- Requiring service learning for every student
- Simplifying and realigning GE to enhance graduation
- Increasing self support offering
- Modularizing graduate degrees as stackable certificates

Dare to aspire!



- Let our imagination shape our new reality
- Envision SJSU's brand as:
 - Graduating global savvy collaborative visionaries
 - SJSU as the cradle of creativity and epicenter for innovation
 - SJSU as the place for dreamers, innovators, and high achievers
 - SJSU, a place that continually transform learning

Closing Remarks

- “Never doubt that a small group of thoughtful, committed people can change the world.”
Margaret Mead

- “If everything seems under control, you are not going fast enough.” *Mario Andretti*