STANFORD PROJECT

AEC Global Teamwork | ANJA JUTRAŽ



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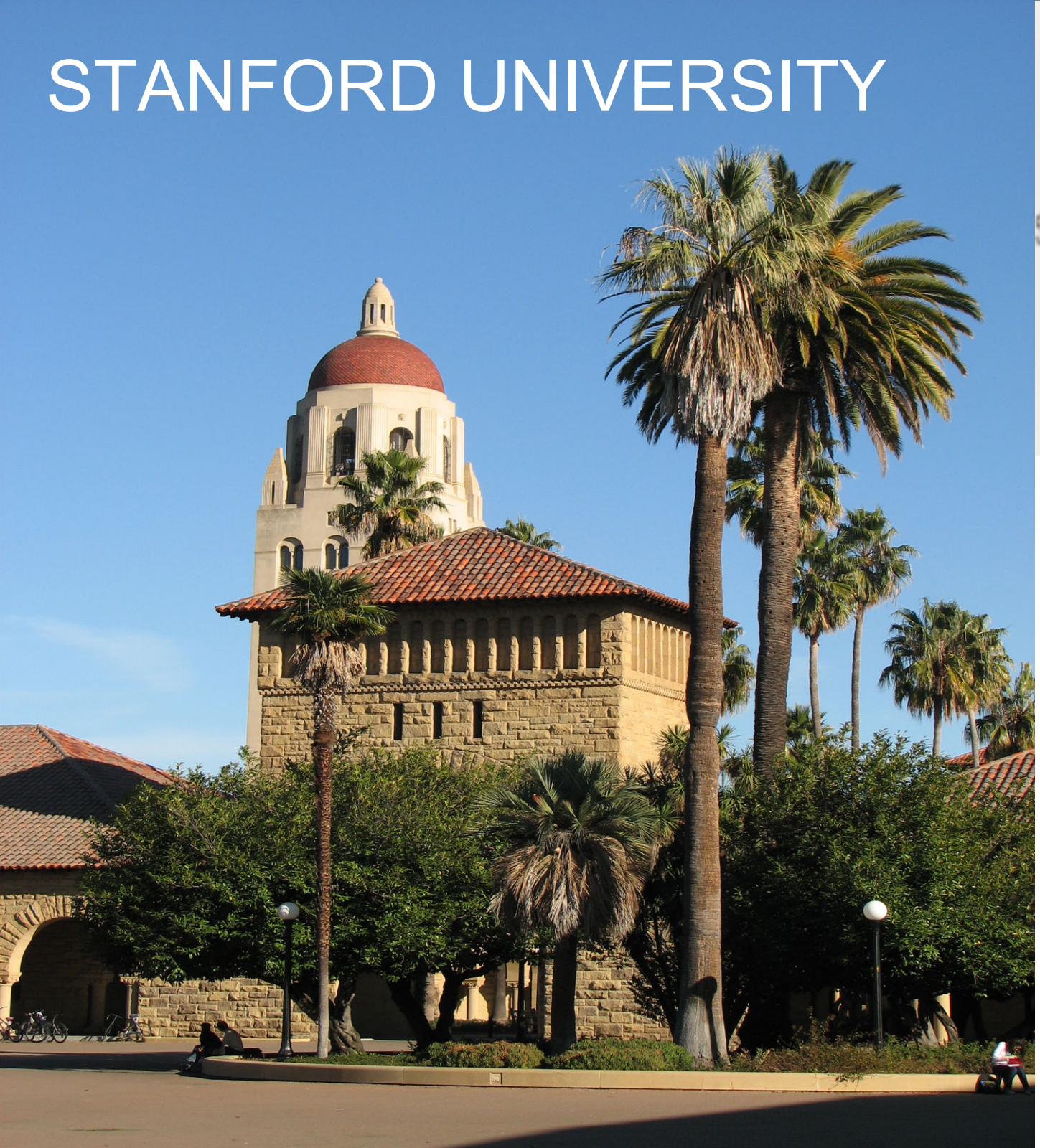



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p5 pBL lab

problem::project::product::process::people::based learning

Collaborators

- AEC Global Teamwork
- CIFE
- MediaX
- LDT

News

Education

AEC Global Teamwork

18th Annual Kick-off Event

January 13-16, 2011

5th Swinerton Sustainability Challenge

2nd DPR Competion

Research

M3R:

Mixed Media Mixed Reality

2010 USDLA 21st Century Distance Learning Award

U.S. Distant Learning Association (USDLA) announced May 4th, 2010 that

the **PBL Lab** and the **Architecture, Engineering, Construction (AEC) Global Teamwork course** at Stanford University, won the

21st Century Award for Best Practices in Distance Learning Distinction.

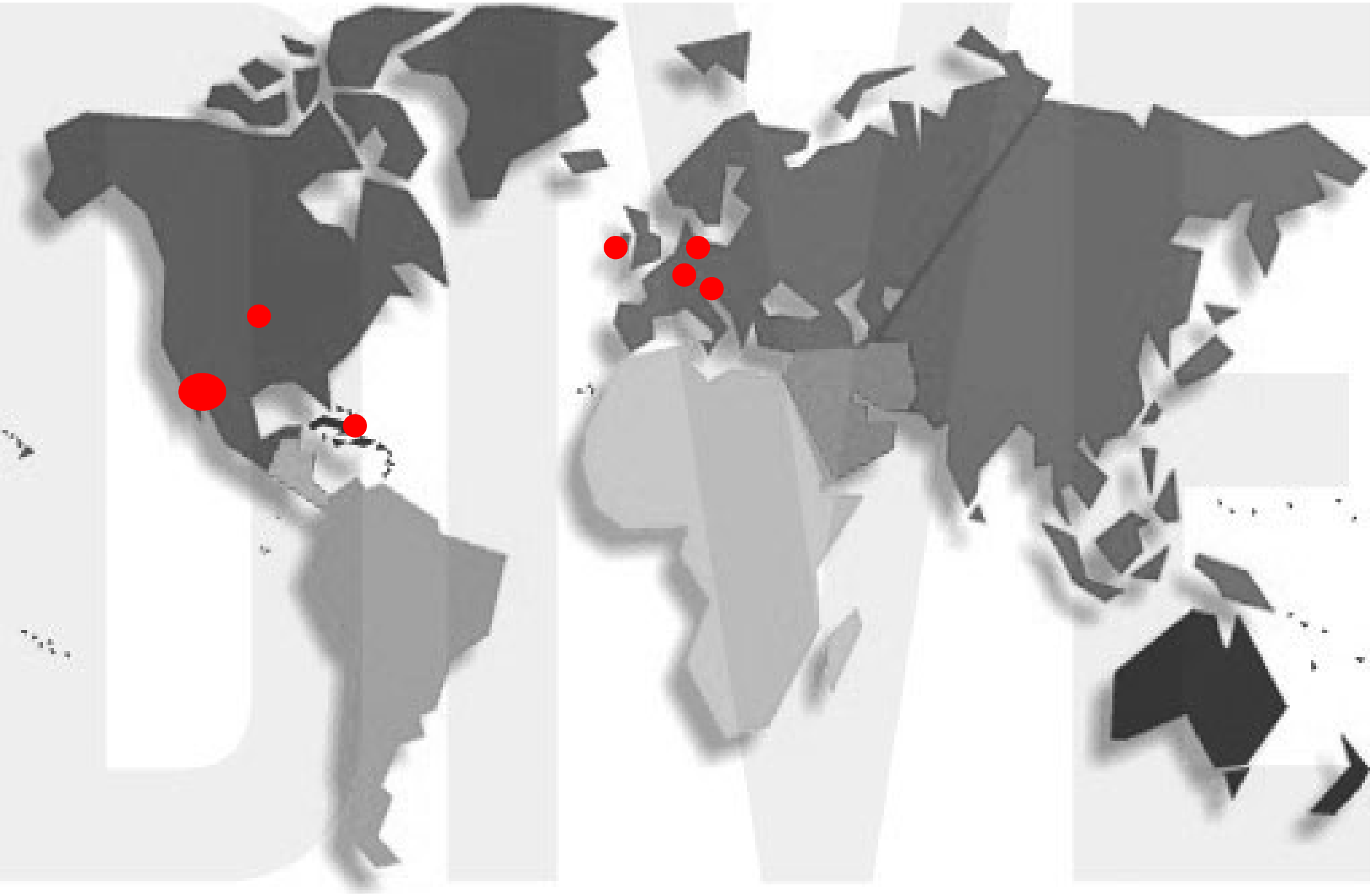
Welcome



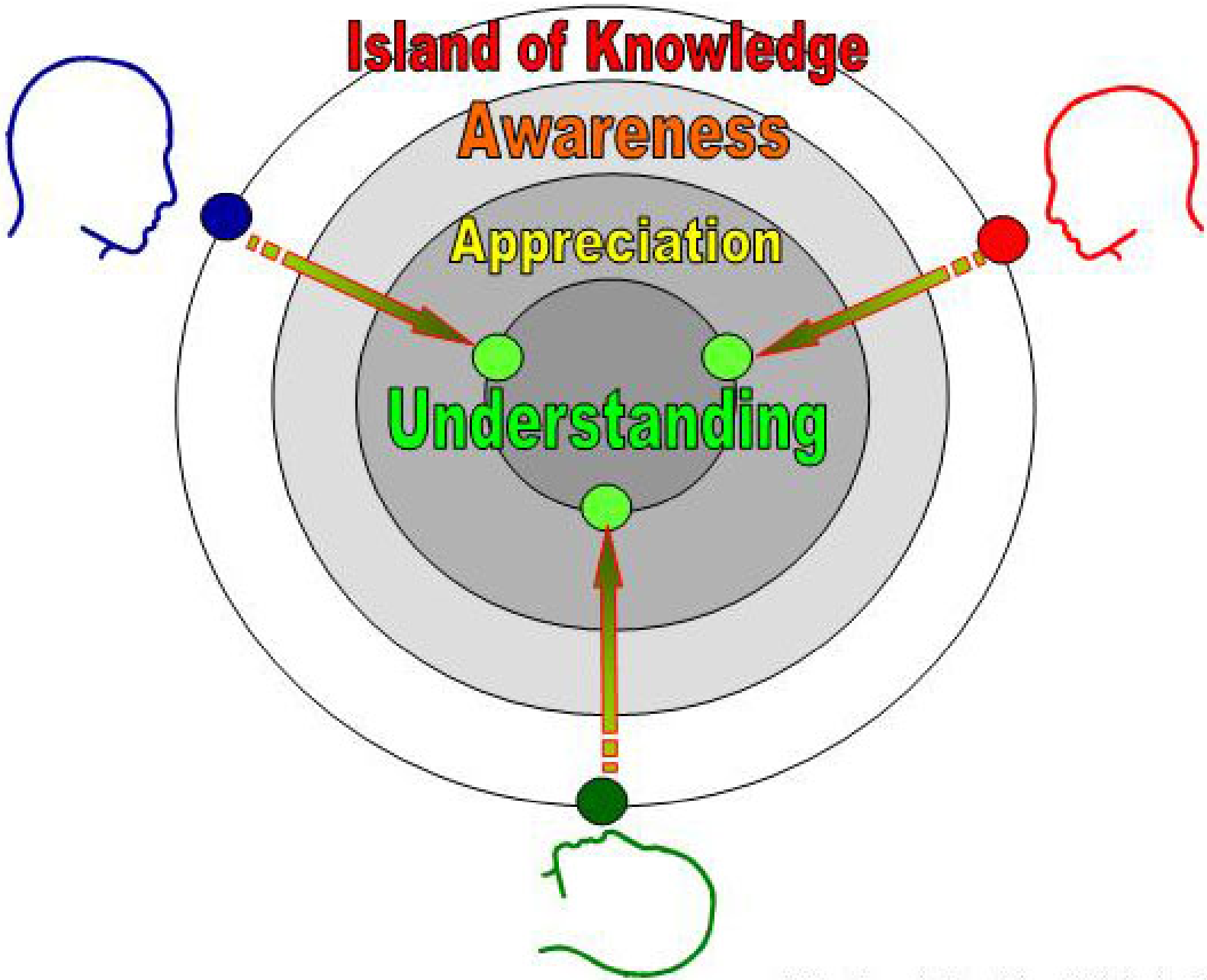
The **PBL Lab** is the home of a unique, innovative, integrated research and curriculum development effort launched in 1993 in the Department of Civil and Environmental Engineering at Stanford University.

The PBL Lab's **Goal** is to be world leaders in Global Teamwork together with our partners.

DISTANCE LEARNING



CROSS DISCIPLINARY LEARNING



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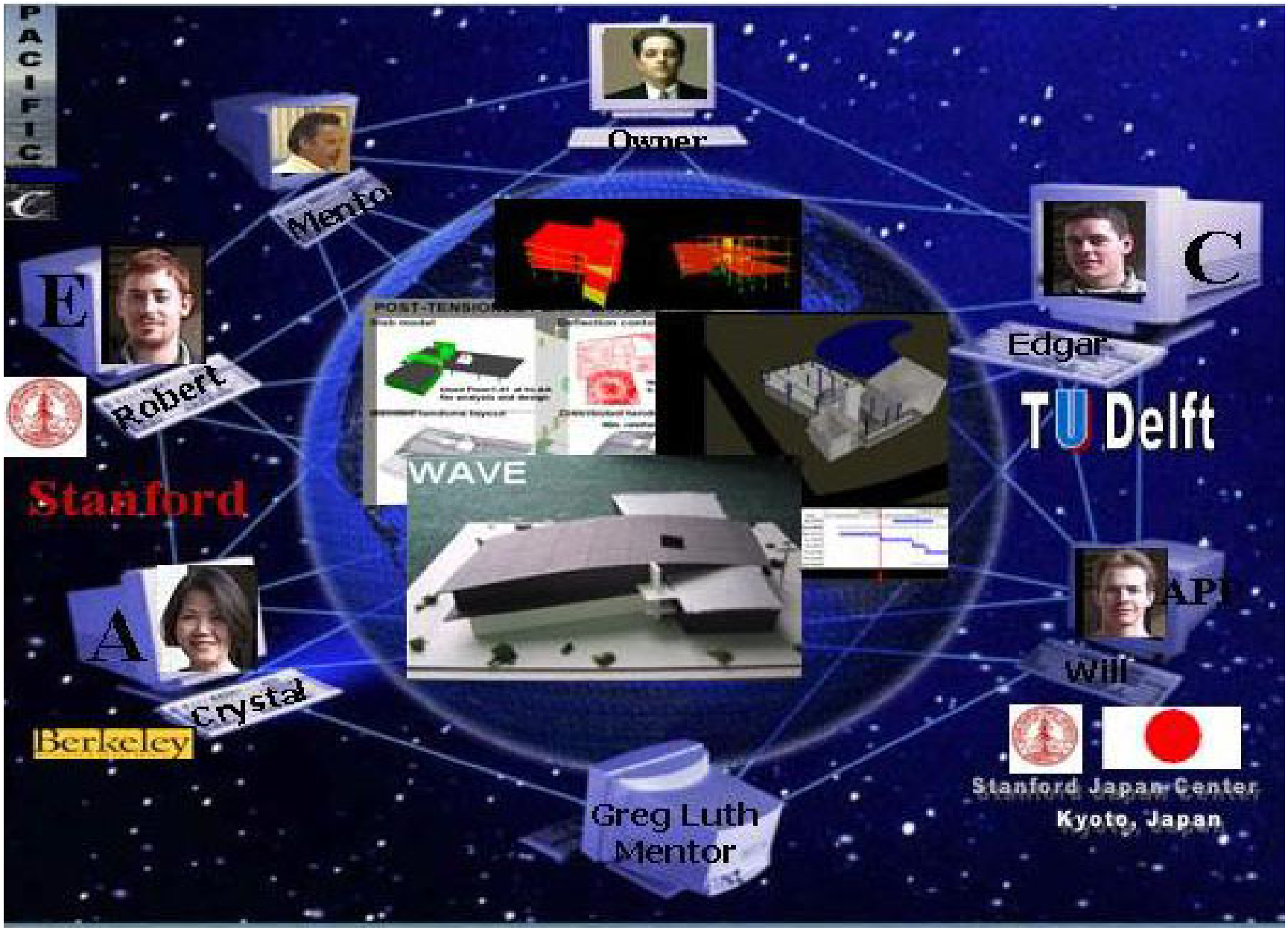
A/E/C - GLOBAL TEAMWORK

A - ARCHITECTURE E - ENGINEERING C - CONSTRUCTION



MENTORS

Super-Coach and Mentor
Renate Fruchter, Stanford University

Architects
Mike Martin, UC Berkeley
Humberto Cavallin, University of Puerto Rico School of Architecture
David Bendet, Perkins and Will, Architects
Robert Alvarado, Charles M Salter Assoc. Inc.
Chuck Eastman, Georgia Tech
Paola Sanguinetti, Georgia Tech
Hans Verheij, NACO, Netherland
Dirk Donath, Bauhaus University, Germany
Daniel Gonzales, Design Village
Willem Kymmell, UCS Chico
Wafaa Sabil, Gensler
Jan Slyk, Warsaw University of Technology, Poland
Peter Anderson, CCA, USA

Structural Engineers
Helmut Krawinkler, Stanford University
Ronnie Borja, Stanford University
Greg Luth, GPLA of California
Shilin Yang, GPLA of California
Nick Arenson, D. R. Horton
Karl Beuke, Bauhaus University, Germany
Frank Werner, Bauhaus University, Germany
Larry Bank, University of Wisconsin, Madison
Grace Yamamoto, ARUP
Erik Kneer, Degenkolb
Nick Arenson, D.R. Horton

Construction Managers
Bob Tatum, Stanford University
Martin Fischer, Stanford University
Eduardo Miranda, Stanford University
Henry Tooriany, Microestimating Inc.
Henry Tooriany, Hunt Construction
Mark Bartlett, Hunt Construction
Adhamina Rodriquez, Swinerton Builders
Josh Odelson, DPR
Kjell Nilver, KTH, Sweden
Tomo Cerovsek, University of Ljubljana

Life Cycle Financial Management
Hans Wilhelm Alfen, Bauhaus University, Germany
Bjorn Wuendsch, Bauhaus University, Germany
Matthias Ehrlich, Bauhaus University, Germany
Axel Seifert, LA

MEP/LEED
Adhamina Rodriquez, Swinerton
Alisdair McGregor, ARUP
Cole Robers, ARUP
Afaan Naqvi, ARUP
John Nelson, UW Madison

Project Assignments Due Dates and Milestones

Winter Quarter		
Week	**Date**	**Activity**
2	24-Jan	
		Clarify Project Constraints, Data Collection
		First Architectural Concept Sketches
		Cyber Discussion in ThinkTank on topic:
		"Can This Profession be saved?"
		Work on AEC Project Solutions
3	28-Jan	Work on AEC Project Solutions - first A concept
4	4-Feb	Work on AEC Project first concepts: E, MEP, C, LCF
5	9-Feb	Exchange ppt of first concept for Peer Review
5	11-Feb	Second Alternative A,E,C concepts
6	18-Feb	AEC Project PPT for reviews and crits
7 and 8	2/19-3/10, 20	Work on AEC Project Solutions
9	March 7-10/2	EACH team schedules 2 Dry Runs
	11-Mar	Winter Cyber Project Presentation
Spring Quarter		
10	1-Apr	Project Web Doc Phase 1: Concept Dev.
		Work on details, analysis, 3D model, cost, schedule
11	8-Apr	AEC Teams Prep PPT file for Fishbowl
		Work on details, analysis, 3D model, cost, schedule
12	15-Apr	AEC Teams review and integrate Fishbowl feedback
		Work on details, analysis, 4D model, cost, schedule
13	22-Apr	No Class - Project team work
14	29-Apr	NO CLASS - PROJECT WORK
15	5/2-5/2011	EACH AEC Team schedules 2 dry runs
	6-May	Final Presentation and Party Celebration
16	14-May	Web Project Document - Phase II: Project Development



1/ obisk Stanforda, spoznavanje, prve ideje...



1/ obisk Stanforda, spoznavanje, prve ideje...

River Team



Central Team



Island Team



Express Team



Pacific Team



Ridge Team



Atlantic Team



1/ obisk Stanforda, spoznavanje, prve ideje...

2/ distance learning, komunikacija, sodelovanje, predavanja, sestanki, delo na projektu...

ICT in support of project teamwork:

BIM - building information models

IPD - integrated project delivery

VDC - virtual design and construction

RECALL - capture multi-media and multi-modal communicative events

Google Calendar – coordination and time zone management

Google Docs – document editing and management

Google Wave - discussion forum for asynchronous collaboration and communication

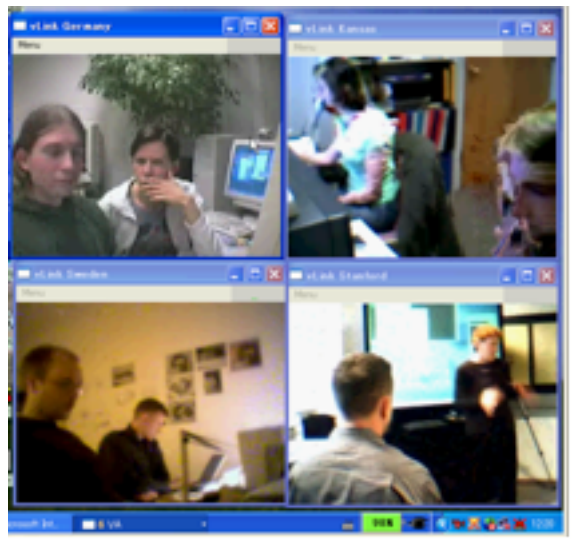
Dropbox – document sharing and management

Skype – voice communication channel

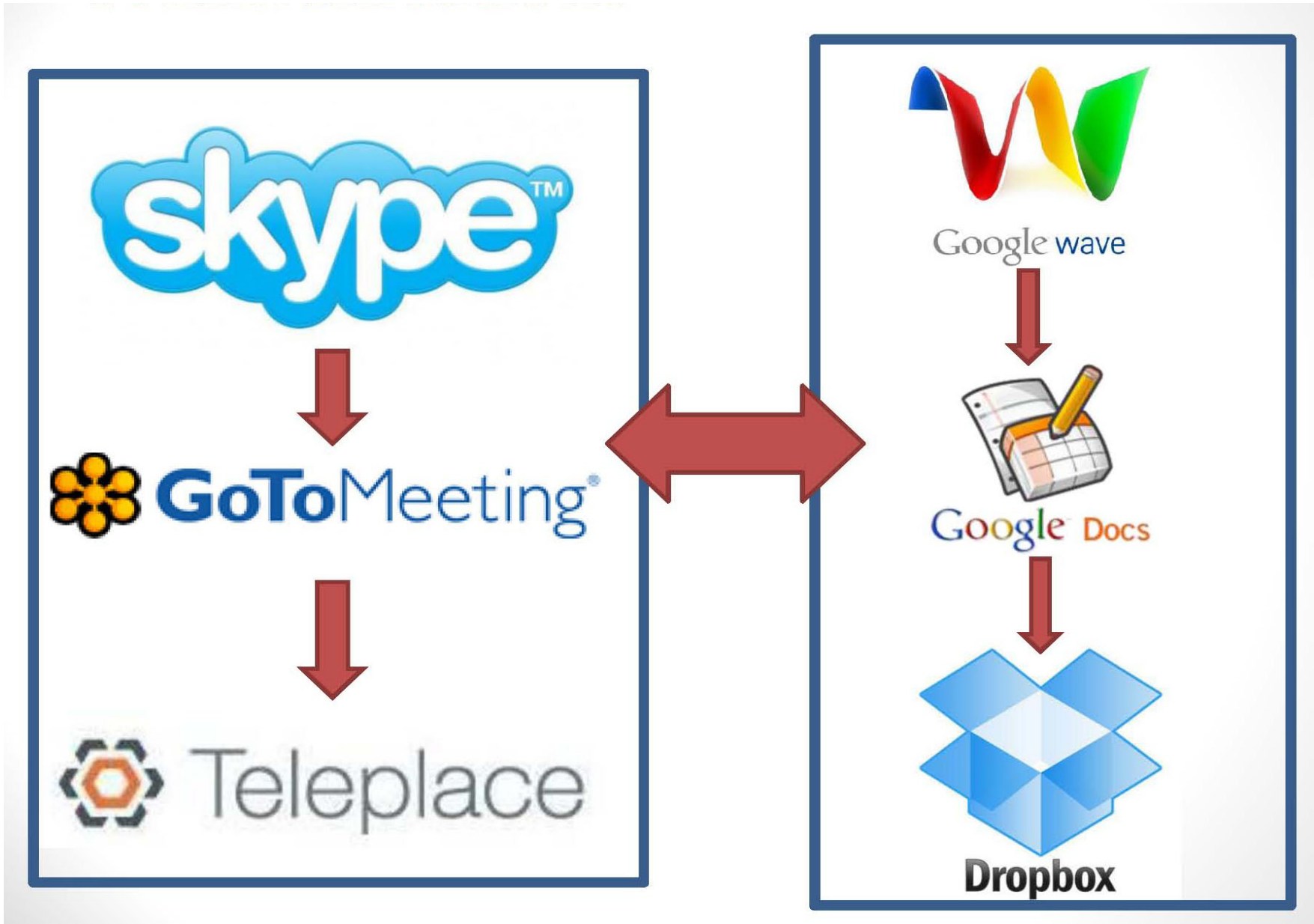
GoToMeeting – Web based collaboration and on line data, video, audio sharing

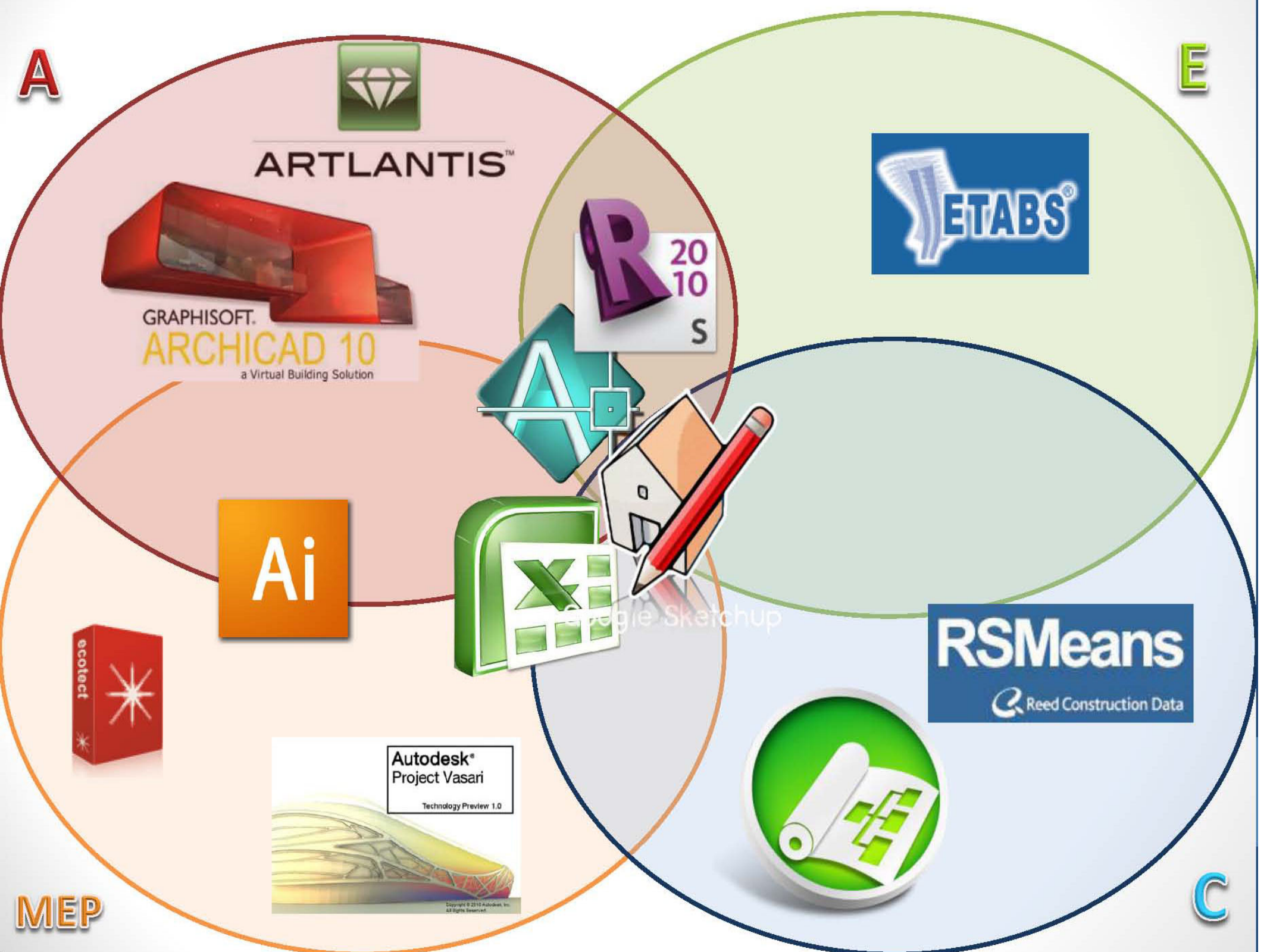
Teleplace – Web 3.0 virtual world collaboration teamspace

VSee –multi-point video streaming from VSeelab



2/ distance learning, komunikacija, sodelovanje, predavanja, sestanki, delo na projektu...

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ARTLANTIS™
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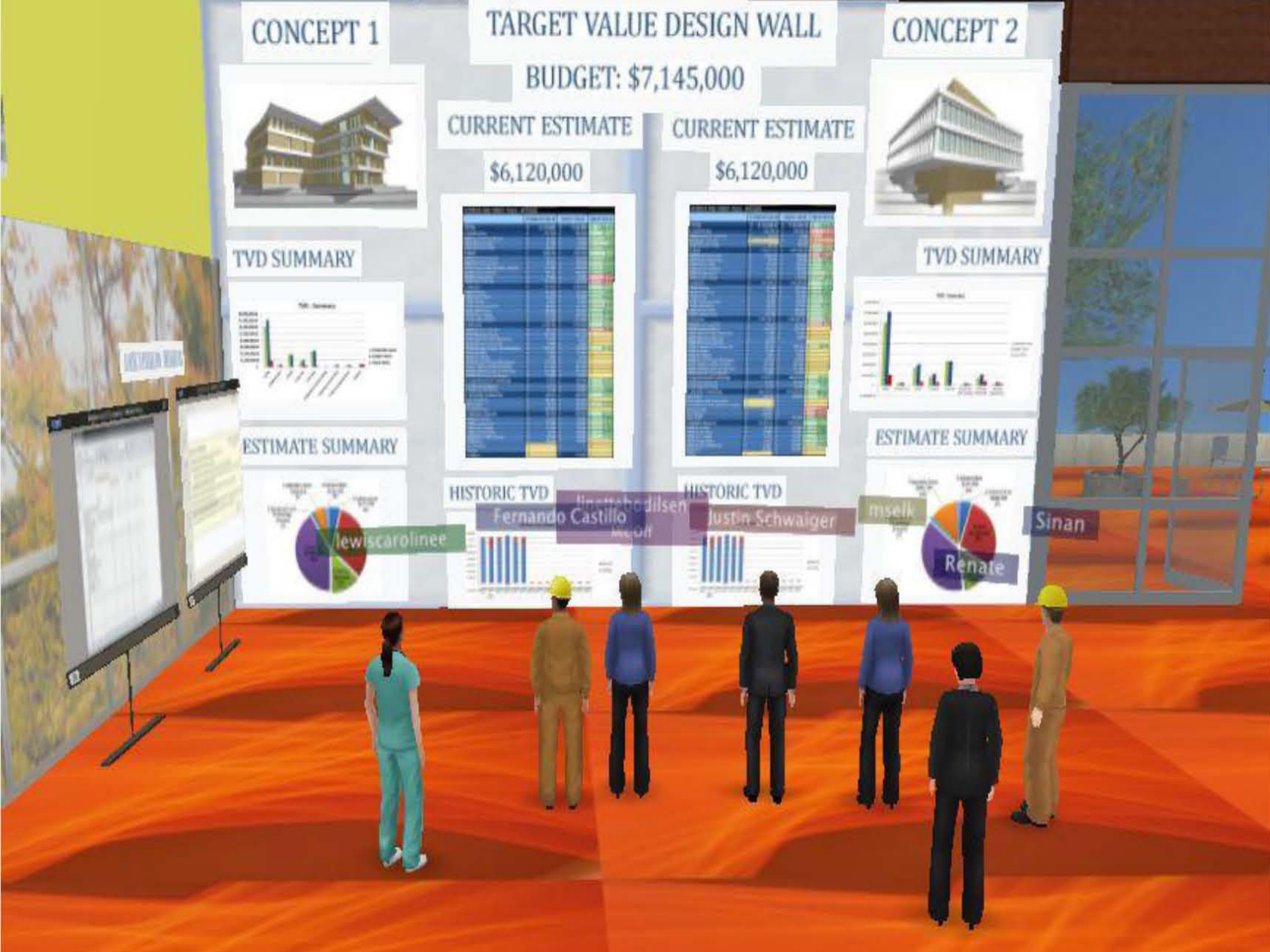
Autodesk®
Project Vasari
Technology Preview 1.0
RSMeans
Reed Construction Data
MEP
C


CONCEPT 1
TARGET VALUE DESIGN WALL
BUDGET: $7,145,000
CONCEPT 2
CURRENT ESTIMATE
$6,120,000
CURRENT ESTIMATE
$6,120,000
TVD SUMMARY
TVD SUMMARY
ESTIMATE SUMMARY
ESTIMATE SUMMARY
HISTORIC TVD
HISTORIC TVD
lewiscarolinee
Fernando Castillo
Justin Schwaiger
mselk
Sinan
Renate

3/ obisk Stanforda, končne prezentacije



UDELEŽENCI FA

...
2008/2009 Anja Jutraž
2009/2010 Lana Topolovec
2010/2011 Sinan Mihelčič

INTERNET
Teleplace
http://www.stanford.edu/
http://pbl.stanford.edu/
http://pbl.stanford.edu/AEC%20projects/projpage.htm