The Future Is Now:
Teaching and Learning Technologies (TLT)
Our Presenters

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What time zone are you in?

1. Eastern
2. Central
3. Mountain
4. Pacific
5. Alaska
6. Hawaii-Aleutian
7. Other
What is your primary role at your institution?

1. Faculty
2. Academic technology
3. Other IT professional
4. Library
5. Student
6. Other (add to chat)
7. N/A
Today’s Agenda

1. Program Overview

2. Core Teaching and Learning Technologies

3. Harvard Divinity School’s Migration to Canvas

4. Pedagogical Innovation and Research on Learning

5. Open Source Community

6. Wrapping Up
Anything else?

Please add additional areas for discussion in the chat window now.
TLT Program Overview
What’s In a Name?

Learning Management Ecosystem

Black Pearl

Teaching and Learning Technologies
Harvard IT “Big 5” Strategic Objective

\[ \Sigma Hx, SIS, TLT, IAM, Sec \]

\[ hpH + sCIOC + B5 + UITP&P \]
How about you?

Does your institution use “surge funding” for transformation projects?
    How is it going?
    Risks? Rewards?

Please comment in the chat window now.
# About the Program

## The Vision

Provide a continually evolving set of faculty-friendly, student-focused technologies that support teaching and learning across all Harvard schools, facilitate pedagogical innovation, and contribute to educational research.

<table>
<thead>
<tr>
<th>Strategic Objectives</th>
<th>Guiding Principles</th>
<th>Key Performance Indicators</th>
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<tbody>
<tr>
<td>Provide core teaching and learning technologies to all Schools</td>
<td>• Communicate and socialize program across the University</td>
<td>• University migration from previous platform(s) to core technologies</td>
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<td>Support pedagogical innovation and research on learning</td>
<td>• Balance need to move quickly with thoughtful planning</td>
<td>• Usable data from teaching and learning activities available for research</td>
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<td>Establish strong Harvard community based on actual partnerships with faculty and with academic support professionals</td>
<td>• Seek early and continuous faculty input from across the Schools</td>
<td>• Meaningful engagement with faculty / teaching teams and with academic support professionals around needs</td>
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<td>Cultivate open source community around component development that complements core technologies</td>
<td>• Transition program to ongoing services with sustained community and sustained vision</td>
<td>• Harvard-specific technology enhancements and applications generated by open source community</td>
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<td>Deliver high-quality program on time, on budget, in scope</td>
<td>• Embrace fluidity</td>
<td>• Program delivered on time and on budget</td>
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</table>
Platform Strategy to Support Teaching and Learning

1. Provide multiple platforms to support Harvard’s residential and online teaching and learning needs

2. Provide unified user experience across platforms to enable users to learn and navigate the environment

3. Enable access to data for research on teaching and learning

4. Ensure extensibility and interoperability across platforms
Timeline
Program Governance

Approach

Through committees, communities, and conversation, TLT regularly engages with faculty, administration, staff, and students from across the University for early and continuous input about all facets of the program.

Committees
- Align strategy
- Set priorities and direction
- Monitor overall success

Communities
- Seek input
- Solve problems
- Share information

Conversations
- Share agenda
- Engage discussion
How about you?

How do you engage with faculty?
What works? What doesn’t?
Please comment in the chat window now.
Core Technologies
What LMS does your institution use?

1. Canvas
2. Desire2Learn
3. Blackboard
4. Moodle
5. Sakai
6. Google Classroom
7. Custom platform
8. Other (add to chat)
IT’S A BREATH OF FRESH AIR. IT’S AN EDUCATIONAL REVOLUTION. IT’S A POWERFUL NEW WAY TO—PARDON OUR OPTIMISM—CHANGE THE WORLD. IT’S A RAPIDLY GROWING COMPANY WITH AN INDUSTRY-PUSHING PLATFORM, HUNDREDS OF TALENTED EMPLOYEES, AND MILLIONS OF PASSIONATE STUDENTS AND TEACHERS. AND, SURE, THERE’S ALSO A PRETTY INCREDIBLE PRODUCT IN THERE, TOO.
Course Migration Progress

- 89% Remaining
- 11% Completed
Development Roadmap
The HDS Migration Experience
Early adoption is key to success

Aggressive migration plan

Achieve buy-in from senior leadership and faculty at HDS
HDS Canvas Migration: Plan Overview

Fall 2014 Goal: 50% of HDS Courses will use Canvas

- Voluntary early adopters
- Spring 2014 pilot participants
- All courses for first-year students
- Large courses with multiple sections
- Full year courses
- Jointly-offered courses (FAS and HDS need to be on same platform)
- Courses with visiting/adjunct faculty teaching courses for the first time

**STATUS:** 70% of HDS courses use Canvas for fall 2014

Spring 2015: 100% of all HDS Courses will use Canvas

- All remaining HDS courses

**STATUS:** on-track for full migration to Canvas for spring 2015
## HDS Canvas Migration: Timeline

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<th>Academic Year 2014 - 2015</th>
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<td>All remaining HDS courses</td>
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<td>Ongoing Assessment and Enhancements to Canvas platform</td>
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HDS Canvas Migration: Communication Plan

- March/April: met with HDS Dean and Executive Dean to discuss strategy and proposed migration plan and received approval to present to Faculty Council
- May: met with Faculty Council to review plan and received approval from senior leadership and the council to move forward
- May: communicated migration plan to entire HDS faculty and HDS community
- June: sent specific, tailored messages to each of the faculty sub-groups that we targeted for migration in the fall 2014
- June: held meetings with all key stakeholders at HDS to provide updates on the migration plan (Academic Affairs, Registrar, Student Services, Library)
- July 1: finalized list of fall Canvas faculty; created courses; provided faculty their course site URLs and training/support resources
- July – September: sent regular updates to faculty, teaching staff, support staff, and students about workshops, training sessions, and other support resources
- October: notify faculty who will use Canvas for the first time in spring 2015
- November – February: send regular updates to faculty, teaching staff, support staff, and students about workshops, training sessions, and other support resources
HDS Canvas Migration: Training & Support

Training Resources

• Targeted hands-on workshops for faculty, faculty assistants, and teaching fellows (July – October; December – February)
• Promoted regular weekly office hours of local support team
• One-on-one training sessions by appointment
• Canvas online documentation and tutorials

Support Resources

• Full-time HDS IT & Media Services staff
• Academic Technology Consultants (4 doctoral student employees)
• TLT Support staff
• Canvas Helpdesk
HDS Canvas Migration: Lessons Learned

• Earlier communication needed with some administrative stakeholders at HDS (focus was on faculty; more time was needed with Student Services, Library)

• Would have been beneficial to have a larger pilot group in Spring of 2014

• As a department, we could have more thoroughly explored all of Canvas’s functionality before working directly with faculty over the summer (ex: functionality of discussions was a big change)

• Lack of dedicated time with faculty over the summer was challenging (some faculty not returning to campus until less than 2 weeks before start of fall term)

• Better communication / coordination with Registrar needed to ensure that fall course websites were locked down to enrollees at the correct time following shopping period (led to temporary inaccessibility of course sites for some students)
Questions for Dan?

Please add questions / comments in the chat window now.
Pedagogical Innovation and Research on Learning
Pedagogical Innovation
Data to Support Educational Research
Developer Community
Join Us!

Who
• Developers within Harvard
• Developers beyond Harvard

What
• Develop and share custom LTI components
• Contribute code back into Canvas
• Contribute code back into edX

Why
• Share code, environments, knowledge, ideas
• Build skills and community

How
• Reach out: http://tlt.harvard.edu
Wrapping Up
So Far

✓ Completed planning phase

✓ Secured program funding

✓ Signed license agreements for Canvas and Canvas Catalog

✓ Developing integrations and course administration tools with Canvas

✓ Engaging with teaching and learning community partners
Right Now

- Hiring term positions: software engineer, devops, business analysts
- Rolling out Canvas across the schools
- Piloting Canvas Catalog
- Developing first pedagogical component
- Developing capacity and guidelines to extract data for research
- Cultivating open source developer community
Questions? Comments?

Please add questions / comments in the chat window now.
Thank you!
Appendix
LTI Component: Student Location Tool

Course
CSCI E-12: Fundamentals of Website Development

Challenge
Finding a way for students, especially students joining at a distance, to feel more connected with campus, classmates, and teaching team

Solution
Build an LTI component that displays on a map where classmates and teaching staff are located based on self-identified contact and location information

Impact
Students and teaching staff can learn more about classmates and create informal in-person meet-ups