Organizing collaborative-learning activities in the Crowd-Sourcing Era

Ben Koo
Industrial Engineering
Outline

- What is XLP?
  - A Methodology for Learning Activity Design

- Crowd-Sourced Knowledge Management
  - Digital Technologies and their impacts
  - Applicability

- Inter-Disciplinary Learning Activities
  - Preparation Stages (Challenge Designers)
  - Execution Stage (Missionaries)
A Grand Challenge

How to cover all 20K courses offered through a national online course system?

One System
Apps: Applications, M&T: Methods and Tools, FND: Foundational Courses, INFR: Infrastructures
Functions of Universities

- **Input**
- **Integrated Experience**
- **Output**

- **Content**
- **Service**
- **Product**
Keys to Sociable Learning

- **Role Definition**
  - Challenge Designers
  - Extreme Missionaries

- **Input/Output**
  - Definition of Pre-conditions and Goals
  - System Integration

- **Time Management**
  - Time awareness and Project Management for all
What is your ideal university?
Products from a Traditional Course

Everything must serve the Learningflow Philosophy!

System Architecture

WIKI

Search

Social Experience Optimization

UI Design

Question2Answer

Base

User Management

Learningflow Design

Media Management

Database Concepts: Tsinghua University, September-December 2012
Instructor: Ben Koo
Local Document Sharing Service
Compute before Doing
Intellectual Property Law

- Chinese People’s University, Law Professor, Wang Chun Yan
- Creative Commons, Mainland China
- XLP Court and XLP Patent Office
Participating Categories

Owner: XLP Operators

Clients: XLP Sponsors

Customers: Students/Teachers

Stakeholders: Employers

Partners: Experts/Volunteers

Suppliers: Social Media

Social Enterprises.

Data service providers
Operational Management Processes

Governance processes
- Knowledge Management
- Process Management
- Organizational Structure
- Goal Management

Core processes
- Missionaries
  - Story Design
  - Activity Design
- Challengers
  - Validation
  - Content Presentation
- Process Documentation
  - Project Plan
  - Execution
  - Presentation
- Configuration Management
- Quality Assessment

Support processes
- HR, Finance, Online Data, Physical Resources, Promotional Media
An Operating System for Learning

- Distributed Workflow
  - Everyone is different
  - Some of the tasks can be done remotely
  - Both synchronous and asynchronous games

- Context Aware and Configurable Workflow
  - Prof. Zhang Hong Yan of Beijing Jiaotong University

- UUCampus as a new partner
  - A highly scalable infrastructure for Massive Online Learning Activities (MOLA)
  - Prof. of Software Engineering School at Beijing University, Prof. Yu Jingsong
Future of XLP

- Tsinghua International Summer School 2013
  - Theme: Building a Sustainable Digital Nation
  - From Chinese Culture to Nano Technologies
  - Starting July 1st, Ending September 7th

- A series of Demonstrative Courses at Tsinghua
  - Integrating with over 100 Key Research Labs in Tsinghua
  - Working with Music Schools and Department of Humanity

- International Partners
  - Creative Commons, P2PU, Singapore University of Technology and Design
Thanks for your attention

Contact Info:
Ben Koo
Email: koo0905@gmail.com
Website: http://toyhouse.cc