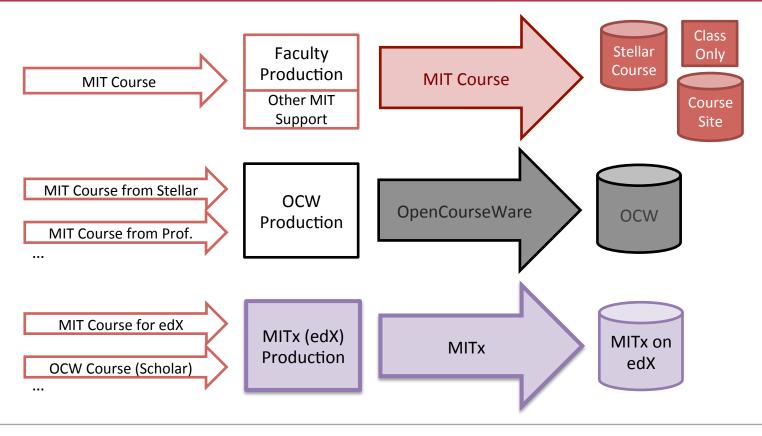
BACKSTAGE What's Behind the Curtain

Brandon Muramatsu, Jeff Merriman & Cole Shaw MIT Office of Digital Learning

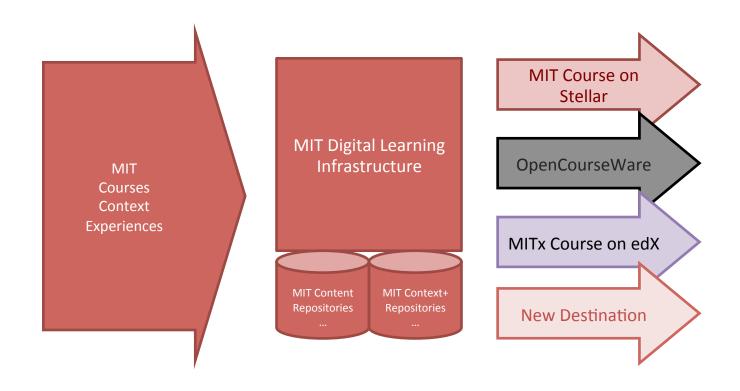
The Problem

- MIT Faculty are <u>investing heavily in content</u> <u>development</u> (notes, videos, assessments) for edX and OCW delivery.
- Ideally, MIT should <u>manage these resources</u> and make them available as needed to our community for re-use.
- Solution must...
 - Support integration with edX, OCW and others
 - Be adaptable to new technologies and market products

Current Development Workflows



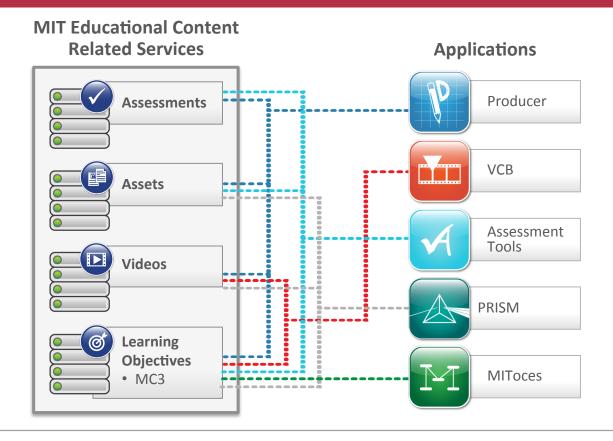
Possible Future



Proposed Solution – Backstage Services

- "Headless" content services with published APIs
 - -REST, Python, Java
- Key applications using these services
- Support a developer community

Backstage Core Service Suite



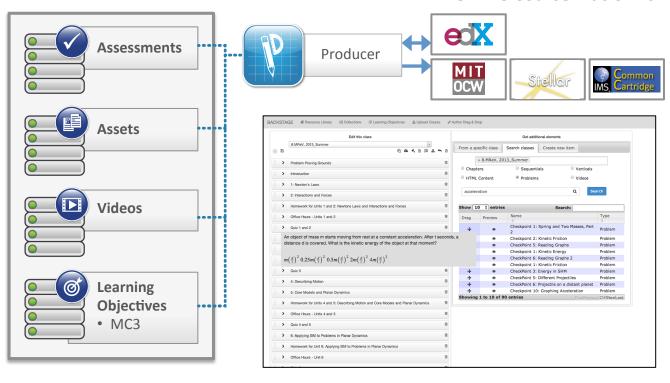
Producer – Asset Management for Reuse

Motivation

- Support content reuse in MITx (edX) content workflow
- Ease content search and integration
- -Explore alternative authoring tools for edX delivery
- Status
 - Proof-of-concept being tested

Producer and Backstage Services

Online Course Platforms



Assessments

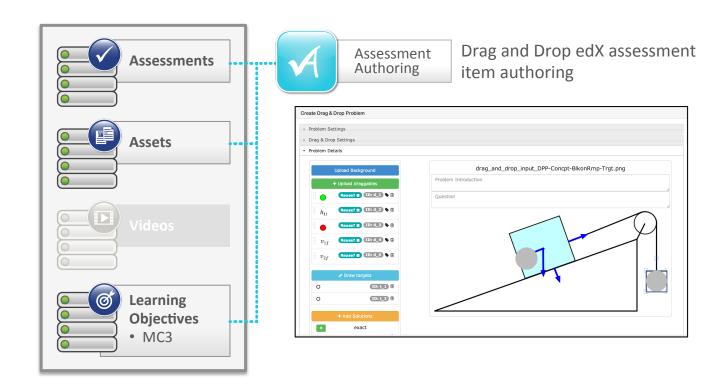
Motivation

- -Manage, share and author assessment items
- Track usage and IRT data across assessment offerings
- —Implement APIs for taking as well as managing/sharing

Status

- Proof of concept drag-and-drop authoring tool (demo)
- App to Embed Assessments (QTI assessment items)
- -Physics Question Bank (PQB) under development

Assessment Backstage Services

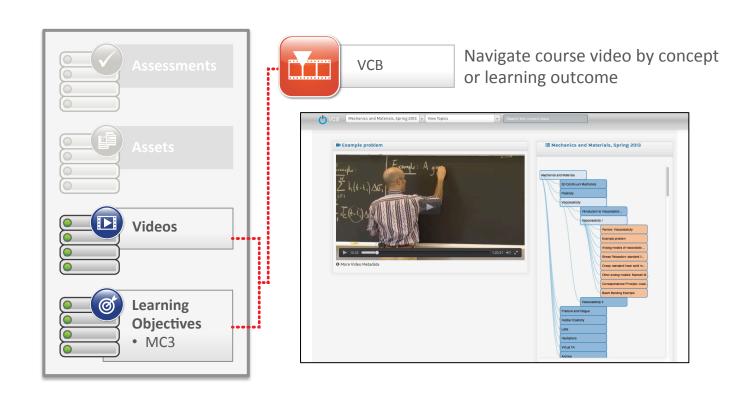


Video Concept Browser – Browse Video by Concept

Motivation

- Enable better use of whole-class lecture video
 (60-90 minutes) by segmenting by concepts/topics
- –Pre-production for MOOC courses
- Status
 - App to browse lecture videos by concepts (demo)

VCB and Backstage Services



Discussion Questions

- How are you reusing course content?
 - Between MOOCs
 - From existing sources, LMS/VLE, OER, etc.
 - What tools are you using?
- Are you tracking data about asset effectiveness?
 - E.g., Did learners have difficulties answering a particular question correctly? Did learners skip materials? Etc.
- Does your course include learning outcomes and transparently link outcomes with content and assessments?

BACKSTAGE The End!

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