Open Embedded Assessments: Play, Author; Anywhere, Anytime
MIT, Atomic Jolt, Lumen Learning

Background on OEA

- Concept generated during COSL, realized by MIT, Atomic Jolt and Lumen Learning
- Goals of Open Embedded Assessments (OpenEd 2014)
  - Do for assessments and items, what’s been done for content (whole courses, lectures, videos)
  - Embed anywhere ✔
  - Share (don’t reinvent the wheel for every course)
  - Evaluate, record and track responses ✔
Development History of OEA

- Early Concept (circa 2008)
- Public Demo (2014)
- Lumen Learning (2015+)
- MIT / CLix (2016+)
- Atomic Assessments (2017)
- You?

COSL Planting Seeds
Atomic Jolt: Ball and Duffin
Lumen: Wiley -> Mosbacker
MIT: Muramatsu -> Merriman, Shaw and DeLong

OEA Components

- Player
  - Embedded in web page
  - For each question type
  - Might be a “generic” type but “custom” player based on project needs
- Authoring
  - QTI (Canvas or Moodle export) -> OEA (import)
  - Native authoring
- Repository / Question Bank
- Data logging
Mini Case Study: About CLIx

- Connected Learning Initiative scope and scale
  - Contemporary OER modules for Grade IX in math, science and English bringing active learning and digital tools to the classroom in India’s government (public) schools
  - ~460 schools in 4 states in India, goal of ~30,000 students in India
  - (Up to 2M assessments to be offered)

Mini Case Study: How is CLIx using OEA?

- Players “embedded” for use in schools
  - In CLIx Platform (gStudio) loaded from local network server and accessed over local network
  - In Unplatform2 loaded locally on non-Internet-connected, non-networked computers in schools
  - Can gather usage logs and responses
    - Just starting to gather the data
  - Authored in the cloud
Mini Case Study: How is Lumen using OEA?

- Helping students learn!
- Types of quizzes taken: 2.6M
  - Module Pre-tests: 191,771
  - In-content Embeds: 284,717
  - Topic-level Self-check: 1,707,981
  - Summative Quizzes: 380,728

Mini Case Study: How is Atomic Jolt using OEA?

- Atomic Assessments
  - LTI embed and grade write back into Canvas
- (Developed players and authoring tools for MIT / CLIx)
Get OEA and Questions?

- **MIT / CLIx - kirky@mit.edu**
  - [https://github.com/CLIxIndia-Dev/OpenAssessmentsClient](https://github.com/CLIxIndia-Dev/OpenAssessmentsClient)
- **Lumen Learning - bracken@lumenlearning.com**
- **Atomic Jolt - justin.ball@atomicjolt.com**
  - Atomic Assessments, customization and development
  - [https://github.com/atomicjolt/open_assessments](https://github.com/atomicjolt/open_assessments)

THANKS!