

Inclusive by Design: How Accessibility Transforms Learning Outcomes at Scale



Open LMS





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Open LMS + Brickfield Education Labs:

- Helping institutions build courses that truly support neurodiverse and accessibility-focused learners.

Prior roles include:

- Founding sales leader at Watershed Learning Analytics
- Leadership at UL
- Advisory work with UCNLearn (reading intervention)

My focus is on using data, inclusive design, and responsible AI to remove barriers and create learning environments where every learner can succeed.



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Session Takeaways

- Accessibility as a **design philosophy**
- Analytics must move **beyond completion** to reveal how learning actually happens
- **Data shows us patterns:** how different minds absorb, navigate, and engage
- AI lets us **reshape our approach:** moving existing content into multiple formats to best serve learning styles
- **Small steps** can make learning more equitable, accessible, and impactful
- **Designing for accessibility** improves outcomes for everyone



We love learning.

**Raise your hand if you
believe your learners would
further succeed if you truly
understood how they learn
best.**





CAST UDL Guidelines 3.0

Design for the Edges: Everyone Benefits

- **UDL Principles**

- Multiple means of **representation**
- Multiple means of **engagement**
- Multiple means of **action & expression**

AI + data *finally* give us visibility into where and how to apply CAST UDL principles



CAST UDL Guidelines 3.0

Making UDL Actionable with Data + AI

- **Gather** learning data signals
- **Identify** modality patterns
- Use AI to **reshape** content
- **Iterate** based on outcomes

Open LMS + Brickfield provides accessible delivery + the data layer to renewal where and how to apply CAST UDL principles.

Student Tools

Convert Audio

Benefits learners who process audio better than text.

Text Documents

Allows use of personal reading tools, TTS, and customization.

Self-Service

Eliminates disclosure barriers; Empowers independence.

Digital Skills

Build confidence and competence in digital tools.

Browser Guide

Shares benefits of Browser technology – most used app.

Agency

Support learner through ownership of journey.

A Real World Perspective

UDL, accessibility, and inclusive design only work when the learning environment is reliable.

“It was important to us that whatever interface we had was engaging, it also had to be accessible, and the technology itself really has to be reliable. I was a school teacher in another life and know from experience that there's nothing worse than being in front of a room full of students and the tech doesn't work.”

Marshman Foundation



Responsible Data & Ethical AI

- Data must be **transparent, secure, and institution-owned**
- **Privacy, consent, and human oversight** must guide AI usage
- **Patterns of choice** over labels
- Inclusive design begins with **responsible stewardship**
- Align with **EU standards**



Danke!

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