

# ***Extend & Integrate Blackboard Learn with LTI***

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**Blackboard Learn**

# AGENDA



- **Introductions**
- LTI Overview
- LTI Vendors
- Setup
- Examples Of Use
- Q&A Session

# INTRODUCTIONS



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# LTI DEFINED

*“a single framework or standard way of integrating rich learning applications...to allow the seamless connection of web-based, externally hosted applications and content...to platforms that present them to users”*

Source: <http://www.imsglobal.org/toolsinteroperability2.cfm>

# LTI TERMINOLOGY

- **Learning Tools Interoperability** - LTI
- **Tool Consumer** – The system that "consumes" the tool (Blackboard)
- **Tool Provider** – The system that provides the tool (i.e. LearningObjects, NoteFlight, Piazza, etc..)
- **LTI 1.1** - Basic LTI & LTI specification combined
- **Basic LTI** - LTI Version 1.0

# HOW & WHY USE IT



## **How:**

- Direct LTI Link
- LTI Within A Building Block

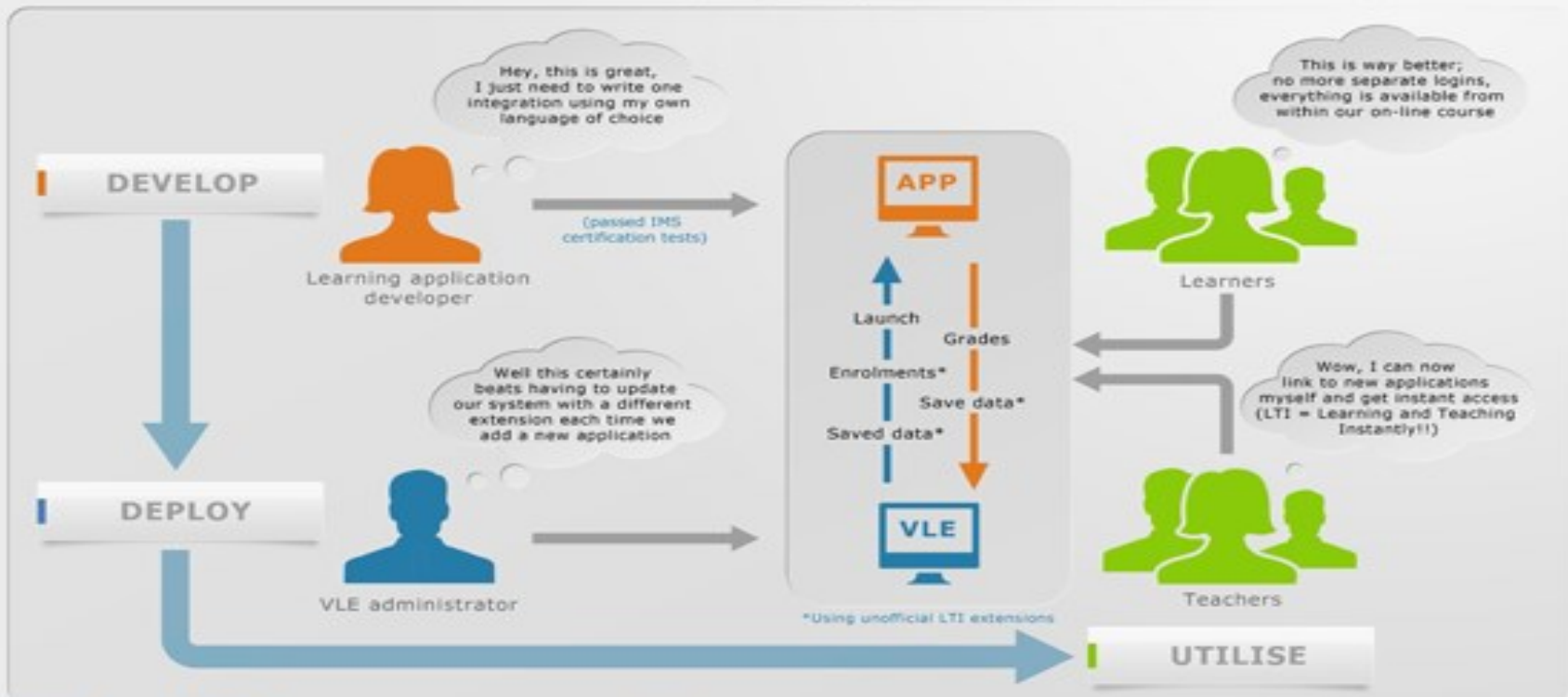
## **Why:**

- To give faculty freedom to choose
- Improved student engagement
- Ease of use

# LTI BENEFITS

## How can Learning Tools Interoperability (LTI) benefit me?

The IMS LTI specification provides significant benefits for all parties involved in **developing**, **deploying** and **utilising** learning applications. It provides a standard mechanism for **launching** external tools which is supported by all major **virtual learning environments** (VLEs) as well as other educational systems. LTI 1.1 adds the ability to pass **grades** back to the VLE and the IMS is continuing to develop the specification further. In the meantime some unofficial extensions have been widely adopted to give tools access to an **enrolment list** and a simple **data store**.



ceLTIC

Creating Environments for Learning  
using **Tightly Integrated** Components  
A JISC-funded project

[www.celtic-project.org](http://www.celtic-project.org)





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# BLACKBOARDS SUPPORT

- CC v1.0 Compilant
- CC v1.1 Compilant
- CC v1.2 Compilant
- LTI™ v1.0 Compilant (SP4+)
- LTI™ v1.1 Compilant (SP10+)

IMS GLOBAL®



Current Registrations:  
[imscert.org](http://imscert.org)

LTI is also support in Bb [Coursesites](#)

# LTI VENDORS

- [NoteFlight](#)
- [Piazza](#)
- [MediaCore](#)
- [MyOpenMath/IMathAS](#)
- [BadgeStack](#)
- [WebAssign](#)
- [SoftChalk Cloud](#)
- [Collaborate](#)
- [VoiceThread](#)
- [Khan Academy](#)
- [Quizlet](#)
- [Prulu](#)
- [Internet Archive](#)
- [Google Charts](#)
- [FunBrain](#)
- [Wiktionary](#)
- [Mahara](#)

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# GUI ADMIN SETUP



# FACULTY SETUP



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# EXAMPLE 1

F;asfjslkfj;



# EXAMPLE 2

<http://youtu.be/QDXRys2o1eY>

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# RESOURCES



- [Basic LTI Provides Setup – Administrators](#)
- [IMS Global Learning Consortium](#)
- [Bb Help Wiki LTI – Administrators](#)
- [Sample LTI Code on Oselot – Developers](#)
- [ceLTic Project](#)
- [EduApps](#)
- [IMS LTI Certified Vendor Catalog](#)



*Questions ??*

**THANK YOU!**



**Thank you!**

**Don't forget to fill out your session evaluation**

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