# LAMS

# LAMS Workshop

London Knowledge Lab, London February 15th, 2006

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### Workshop Agenda

Where is LAMS today? LAMS V1.0.2
LAMS Community
Integrations

- 1.0.x vs 1.1 Comparison
- New Features and Functions
- LAMS in the Future

# LAMS 1.0.2

#### HTML Noticeboard

(Embed Video, pictures, Flash, JavaScript, etc in your sequences)

#### Integration Hooks

(Moodle, Blackboard, Sakai, .LRN, WebCT, etc)

#### LAMS Community integration

(Stay tuned with latest progress on LAMS, Share sequences with peers, etc)

Documentation, Training Materials and Installers <u>http://www.lamsinternational.com/documents/1.0/winks/</u>

Improved performance and bug fixing

### LAMS Community www.lamscommunity.org

It's the global online community for all teachers, administrators and developers that use LAMS.

#### Communities structure

Educational Community (K-12, Higher-Ed & Training, R&D) Tech Community

Sequence Repositories

# LAMS Community

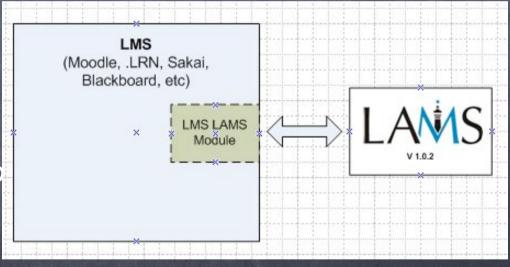
(as of Feb 8th, 2006)

So far since its official launch (30-Sept-2005) we have:
 760 users from 80+ countries
 76 shared sequences, downloaded 995 times.
 740 discussions messages started
 2100 average requests per day

### LAMS & LMS Integrations

http://lamsfoundation.org/integration 5 LMS integrations already... and more to come!

- MoodleBlackboard 6
- Sakai
- O.LRN
- WebCT Campus Editic
- Work in progress
  uPortal
  Microsoft SharePoint



Testing LAMS Integrations http://lamsfoundation.org/integration Available for testing: ✓ Moodle 🗸 Sakai ✓.LRN

All integrations released under the GPL License, fully documented (including walkthrus and animations) and supported by the LAMS Community Introducing...





### LAMS 1.1

Why a new LAMS? Comparing LAMBS Feature and Improvements LAMS & its Tools
 Architecture Your feedback and questions



# Why LAMS 1.1?

Better pedagogical support Research Development
 Ø Need a Modular Architecture (tool plug-ins) Support for Internationalisation Interoperability Complex Activity tools Complex sequencing options

# LAMS 1.1 Features

Pedagogical support and Reusability
Communication & Collaboration
Usability and Interface
Technical improvements

### LAMS 1.1 Features Pedagogy Support

Activities can be run Offline and Online

- Teacher's instructions for online and offline activities
- Introducing Portfolios (whole class and individual student)
- Lesson/Design Printouts
- Simple and Complex Branching
- Grouping: 3 types (manual groupings supported!)
- Specialized and bundled Activities
- Gates (permission, synchronization and time!)
- IMS LD Level A export

Better Monitor Hide/Remove entries Force Complete Students Statistics and performance reviews Start/stop sequences according to dates and time

### LAMS 1.1 Features: Teacher's instructions for online and offline activities

000	Forum Tool	
Forum		
Basic Adv	anced Instructions	
Please input online a	and offline instructions	
Online Instrcution:	Online instruction	
Upload online file:	Browse Upload Online	
Offline Instrcution:	V Offline instruction	
== http://dolly.uklams.net:	:8080/lams/tool/lafrum11/jsps/authoring/authoring.jsp#	1

#### LAMS 1.1 Features: Simple and Complex Branching Visualization of Branching/Grouping # 3 Multiple aroupings/subaroupings Grouping (G (subgroups Chat + Scribe Chat based on Content 1 Notebook people on G1 Branching to allocate and G5 only) groups in sequential order 30'03 Chat Multiple Chat + Scribe Content 2 Choice .G2. G6-Branching Forum Grouping (based on Survey Grouping)

Chat Q+A Notebook Content 3 Grouping (G) Define Later Grouping. (subgroups Chat John, Mary, Benito: Group1 based on Forum Content X Yoichi, Jacky, Manpreet: G2 people on G4 Fei, Kevin: G3 only) JC, Dave: G4 Fiona, James: G5

Karen, Nahid: G6

Karen, Nahid: G6



### LAMS 1.1 Features: Groupings

Three types of groupings:

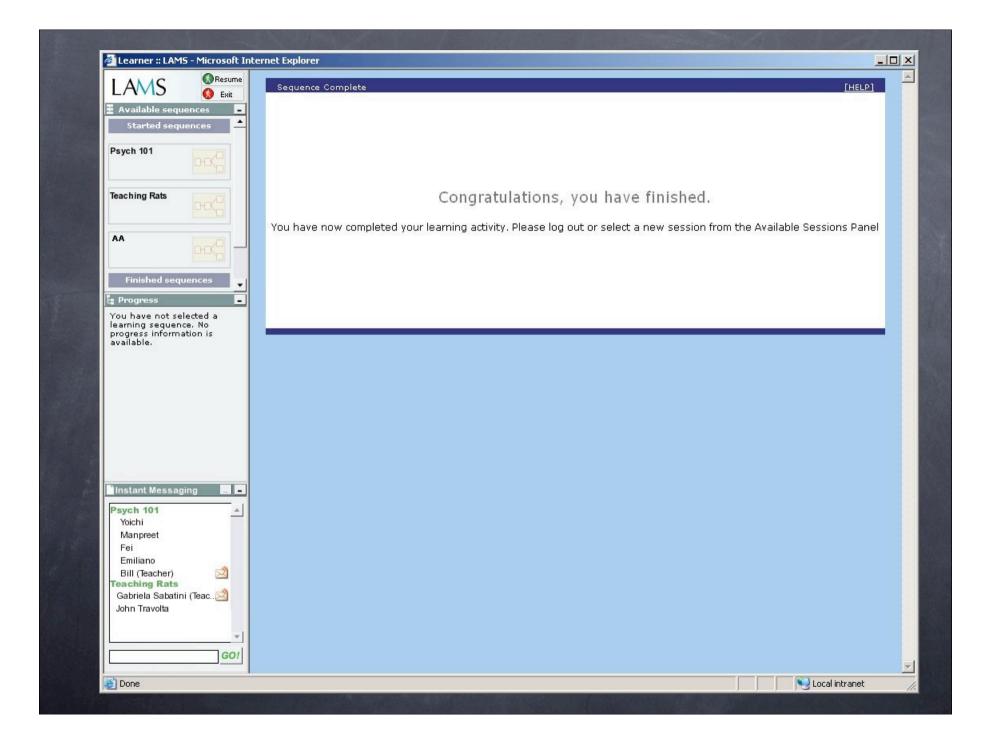
- 1. Number of Random Groups
- 2. Number of people per group (also random)

3. Do-it-your-own groups



LAMS 1.1 Features Communication & Collaboration

- All activity tools support collaboration
- Instant Messaging
- Improved workspace management for peer collaboration
- LAMS Community interoperability
- Shared repository (files, videos, sequences, docs, etc)



	LAMS 1.1 Features: Workspace
File Edit Tools	
Activity toolkit  Forum Autiple Choice Quest Noticeboard Question and Answer Submit File Parallel Activity Title	Workspace Location Properties Location: New Cut Coov Paste Delete Rename © ? Mary Morgan Workspace:Folder_6 © Organisations:Folder_2 LAMS:Folder_4 MACQUAIRE UNIVERSITY:Folder_2 MALCOE:Folder_3 MAMS:Folder_5
En Transferring data from	Name Open Cancel Methods and a second seco

### LAMS 1.1 Features Usability and Interface

Multi language support
HTML Online Editors by default
Themes and skins
Accessibility specifications (W3C Level A)
No more locked sequences!!

000		For	rum Tool	
Forun	n			
Bas	sic Ad	vanced Instructions		
Basic i	nput informa	tion for forum		
	Title:	LAMS Forum		
	Instruction:	Source 🔒 🔃 📾 🥔	at 🔽 🔚 ∺ 😳 🌍 📇 🤜	
		Here we put the instructions for sto	udents.	
		We can edit HTML straight on the	browser	
Topic				
Subje			Start by	Last post
Create	a new topic			

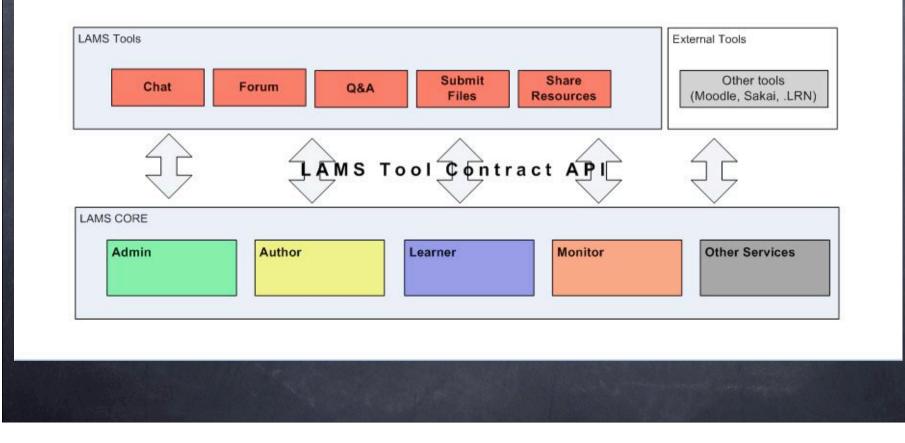


### LAMS 1.1 Features Tech stuff

Multiple authentication mechanism Native support for integrations
 LAMS Tools Contract Easy deployment of Tools
 Support for multiple databases Sternal Tool Wrapper ø etc...



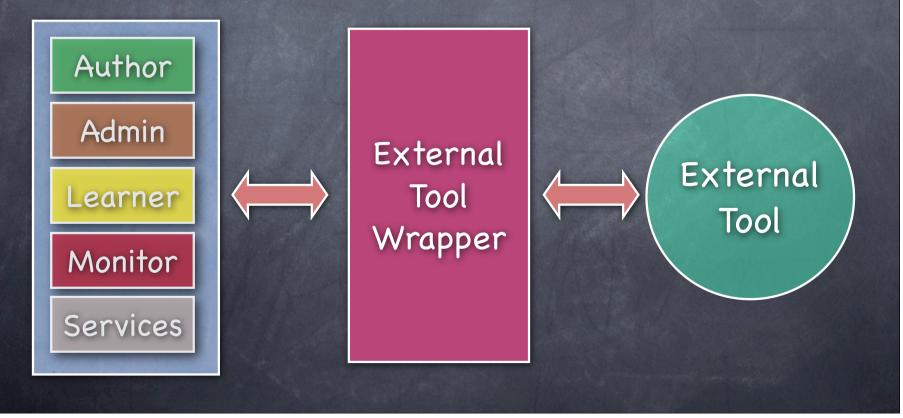
#### LAMS 1.1 Architecture Overview





### External Tool Wrapper

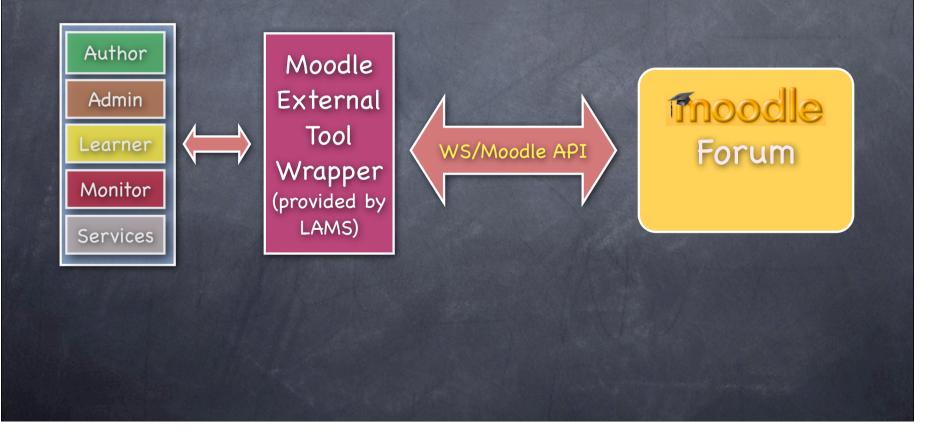
External tool can be used as normal LAMS Tools using the tool wrapper. Effectively, Moodle, .LRN or Sakai tools can be used as native LAMS tools (including advanced features as groupings, branching, define in monitor, etc)





### External Tool Wrapper (Moodle Example)

The LAMS/Moodle wrapper provides another level of abstraction to bundle Moodle activities as LAMS native tools that you can drag and drop create learning sequences just like any other tool



# LAMS 1.1 for Tech-heads

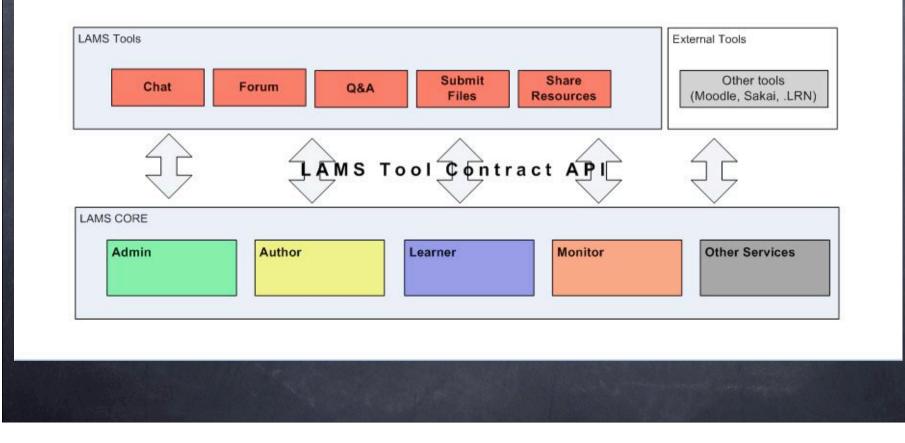
In Soviet Russia, LAMS is the way of the future!

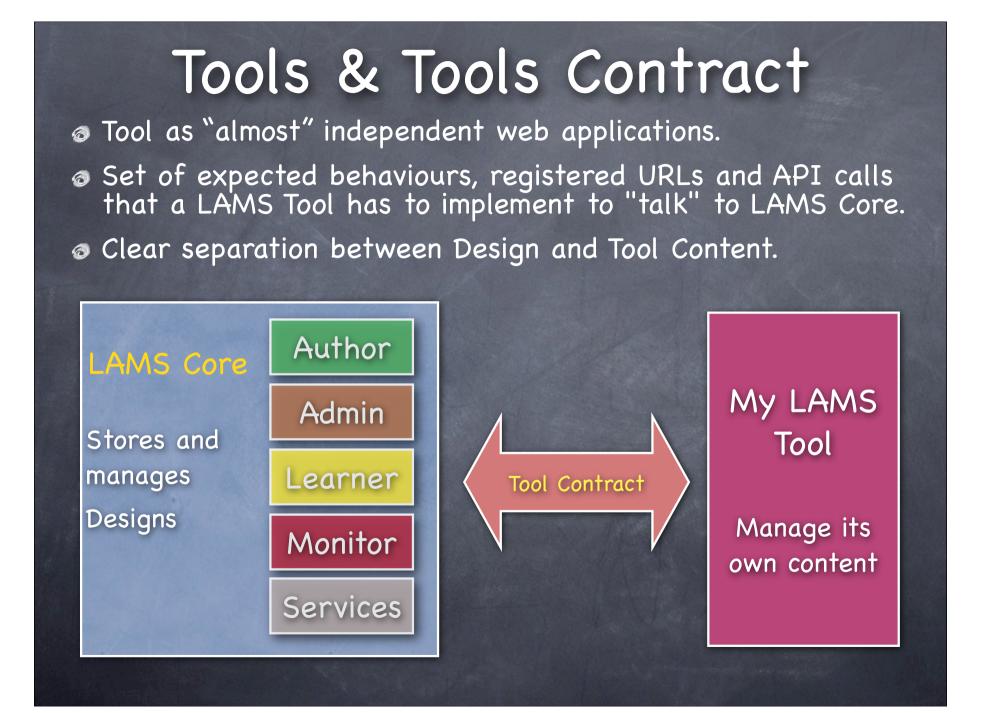
# Dissecting Dolly

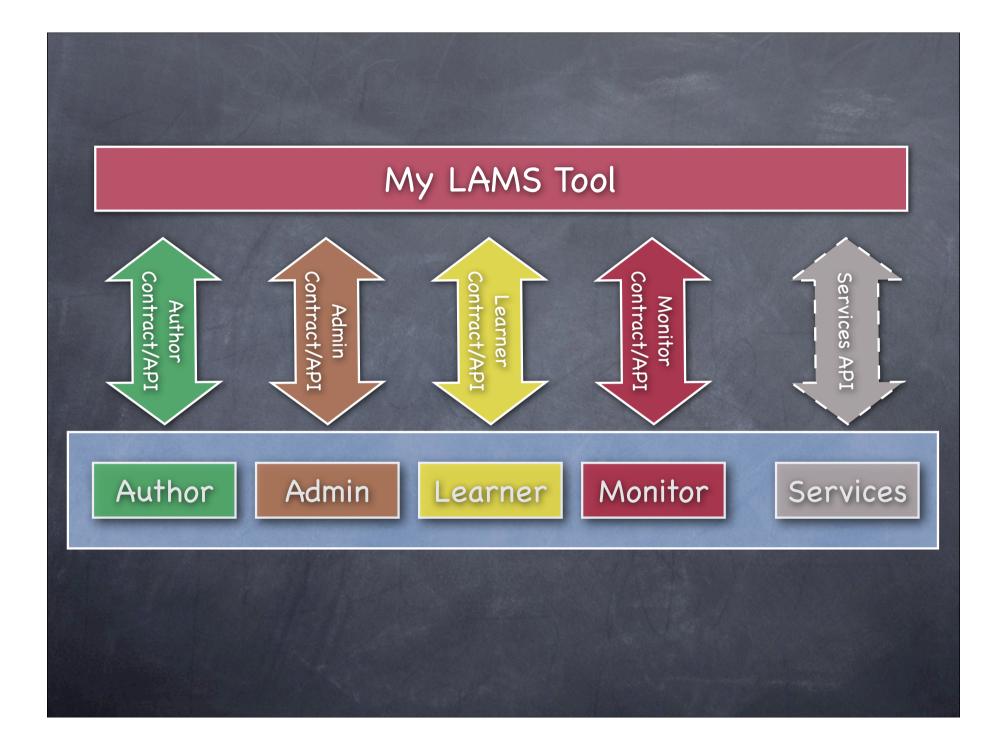
- LAMS 1.1 is a framework for sequencing activities
- Your all one-stop-dev-shop for LAMS 1.1: <u>http://lamsfoundation.org/wiki</u>
- Architecture
- Tools Contract
- LAMS Tools
- Built-in content repository and note services
- Developing a LAMS Tool
- Sequence External Tools within LAMS



#### LAMS 1.1 Architecture Overview







Authoring URL

i.e.: <lams base path>/<tool's authoringurl>&toolContentID=123

Default Tool content

 Author environment must have three mandatory tabs: Basic, Advanced and Instructions

Preview URL

Second Export content format

LAMS Xpress interface

Data exchange (input and outputs data types)

Author

Author Contract/API

#### Monitor URL

- Implement Summary, Instructions, Edit Activity and Statistics tabs.
- Allow edit and hide entries (when required).
- Second Export Portfolio URL

Monitor

#### Learners URL

- Track progress within tool
- Define later, Lock on Finish, Run offline
- Notify Sequencing Engine of users' completion
- Second Export Portfolio URL

Learner

#### Administration URL

- Edit "Default Tool Content"
- Provide statistics about Tool usage
- General view of Tools metadata (tool version, etc)

Admin

- Chat/IM server (based on Jabber)
  Journal and notes
  Content repository
  Add/Remove content
  Add new versions of content
  Stream content to users
- Services API

Services



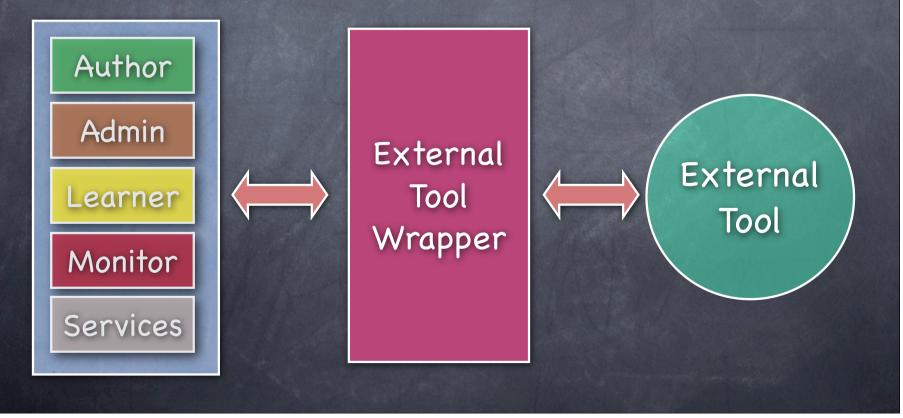
### Tool Compliance and Certification

Test	API+ Authoring (except define later, run offline), Learning (except portfolio export). Used for testing only.
Minimal	TEST + Monitoring (except define later, run offline).
Full	MINIMAL + define later, run offline, portfolio export.



### External Tool Wrapper

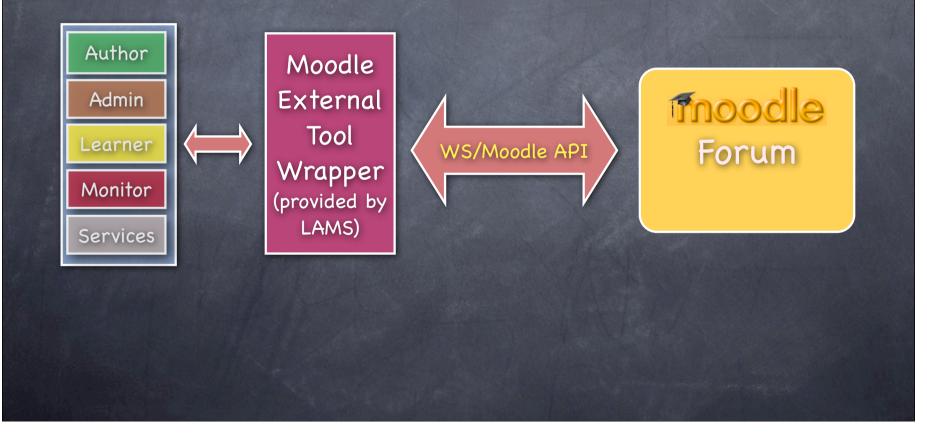
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# Where/How do I start developing a LAMS Tool?

The LAMS Wiki
<u>http://lamsfoundation.org/wiki</u>

The LAMS Tech Community <u>http://lamscommunity.org</u>

