



Caroline Breslin

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University of Strathclyde

Digital Libraries in the Classroom



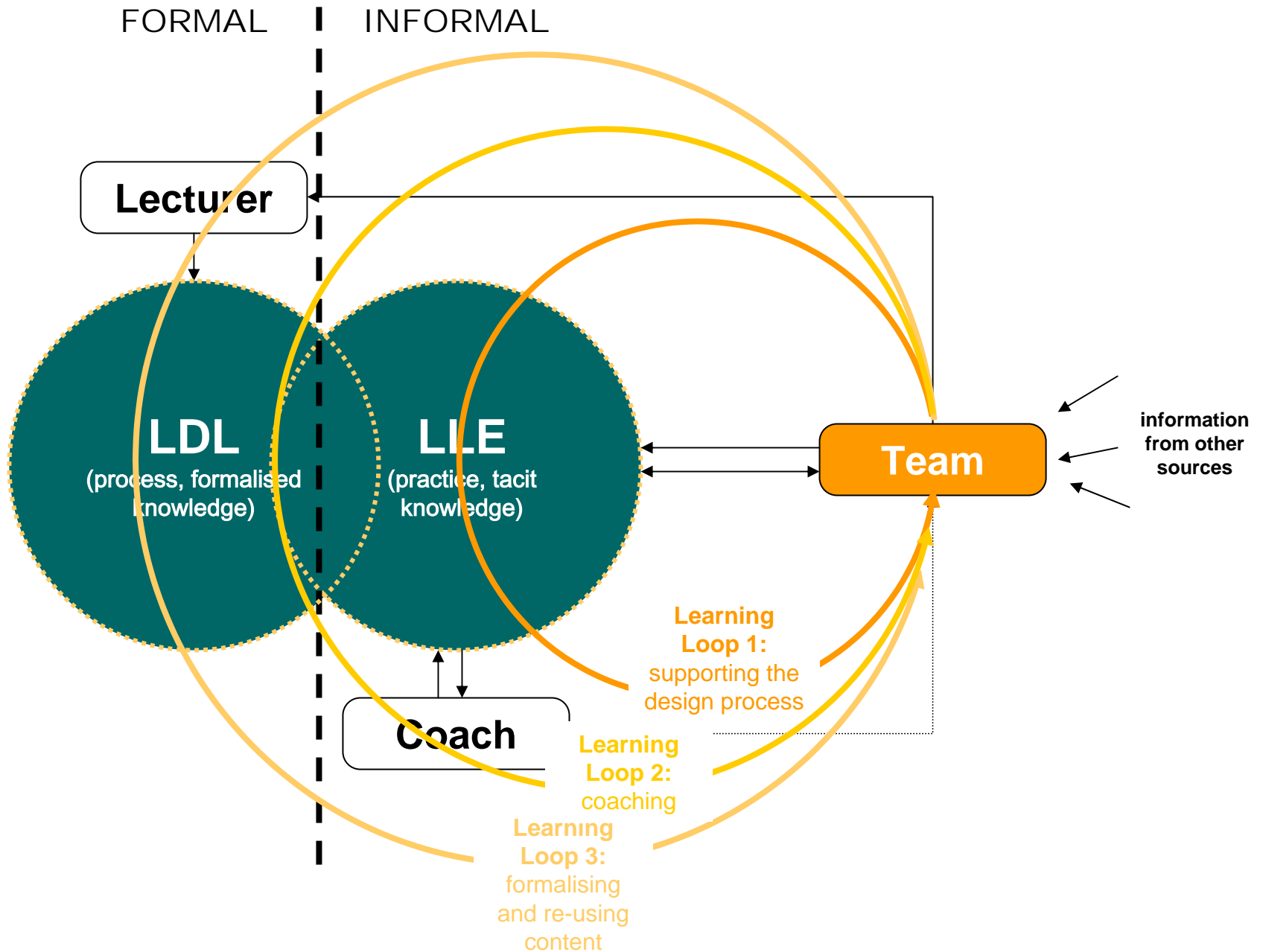
*“digital libraries for global
distributed innovative design
education and teamwork”*

To *enhance student learning* opportunities by enabling them to participate in *global team-based design* engineering projects that give them experience of working within multi-cultural contexts.

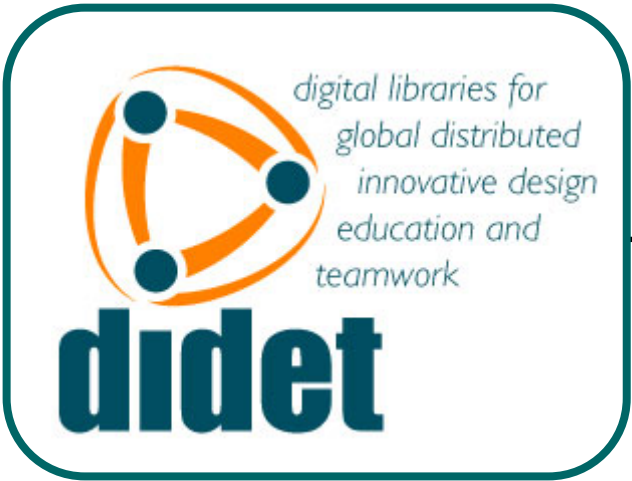
Make this possible through a range of *information and communication technologies*.

STANFORD
UNIVERSITY





Revised Design Knowledge Framework (after Eris, 2003)

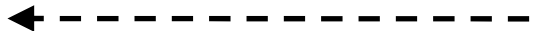


LauLima Digital Library (LDL)
longer term: reuse by staff and students

LauLima Learning Environment (LLE)
a workspace environment: point of need

Formal and More Permanent

Less Formal and Dynamic

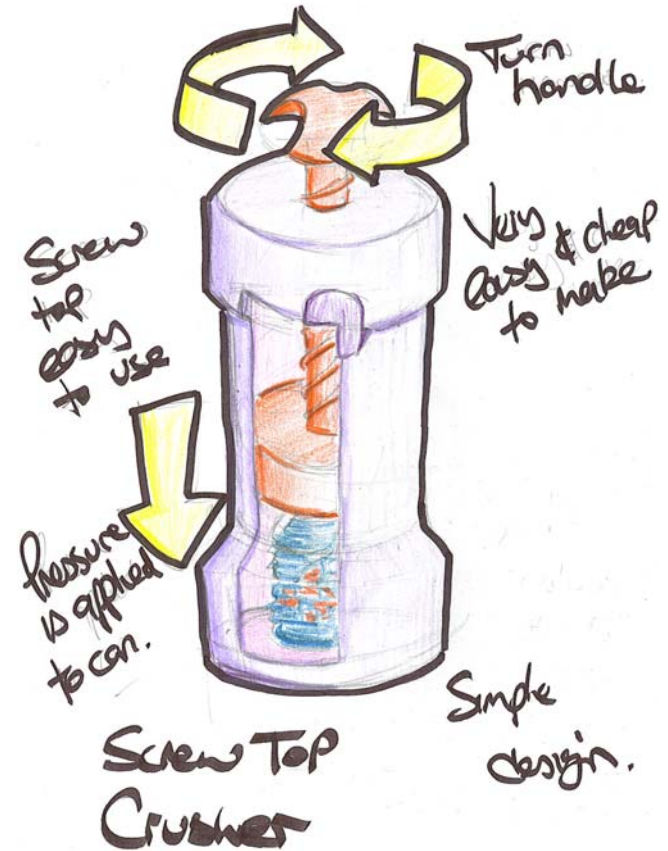
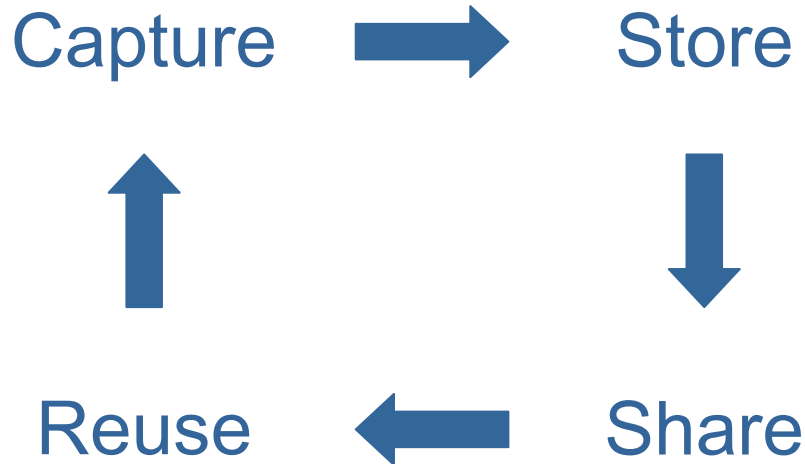


- Retrieval of resources
- Reuse of student-generated resources, design concepts and sharing processes
- Quality assurance
- Metadata and standards
- Granularity
- Browse/ search

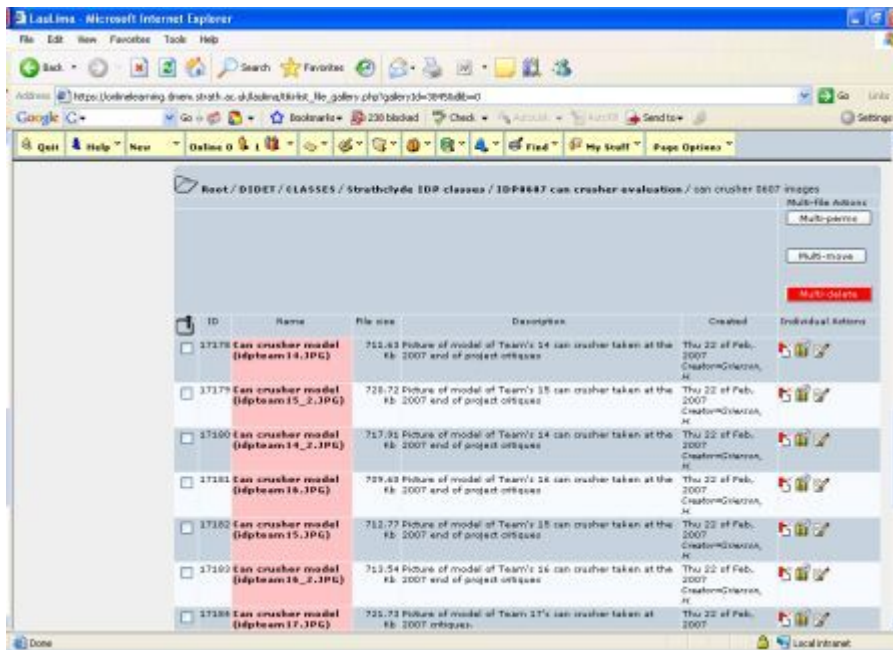
- Storing and sharing content
- Group Collaboration/ Team communication
- Cross team activities
- Workflow management (process)
- Manipulation of information
- Capturing tacit information
- Knowledge structuring

LauLima System Architecture

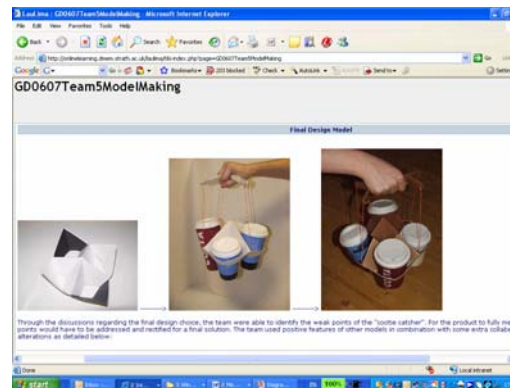
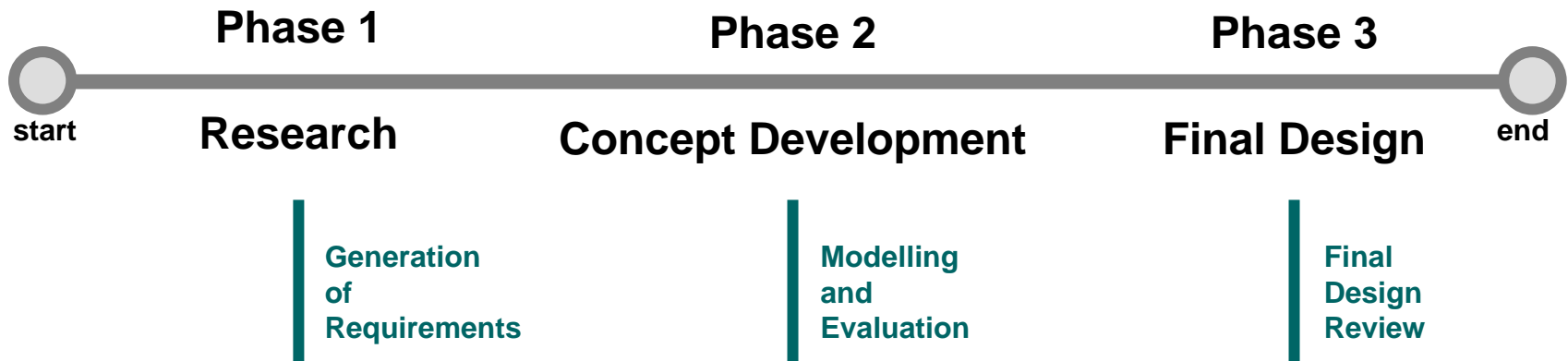
How LauLima is Used



Create a map of design process...



Delivery of Milestones

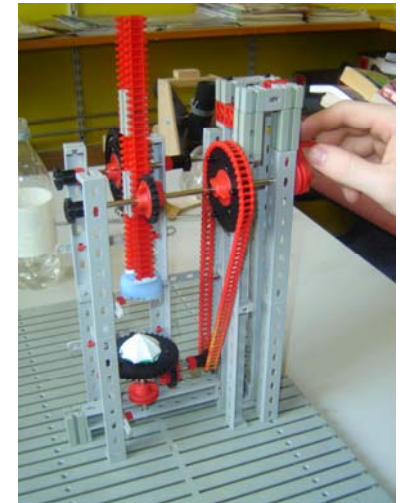


Assessment – of design and process management

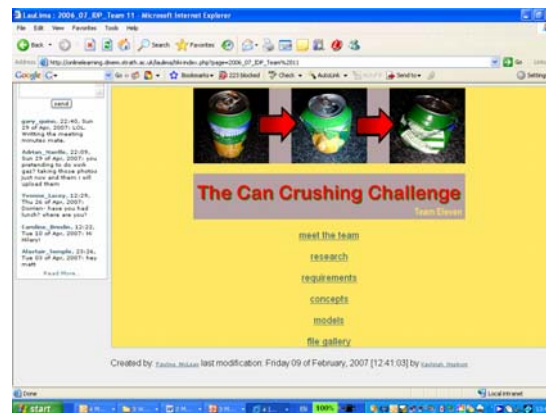
Formal Exam



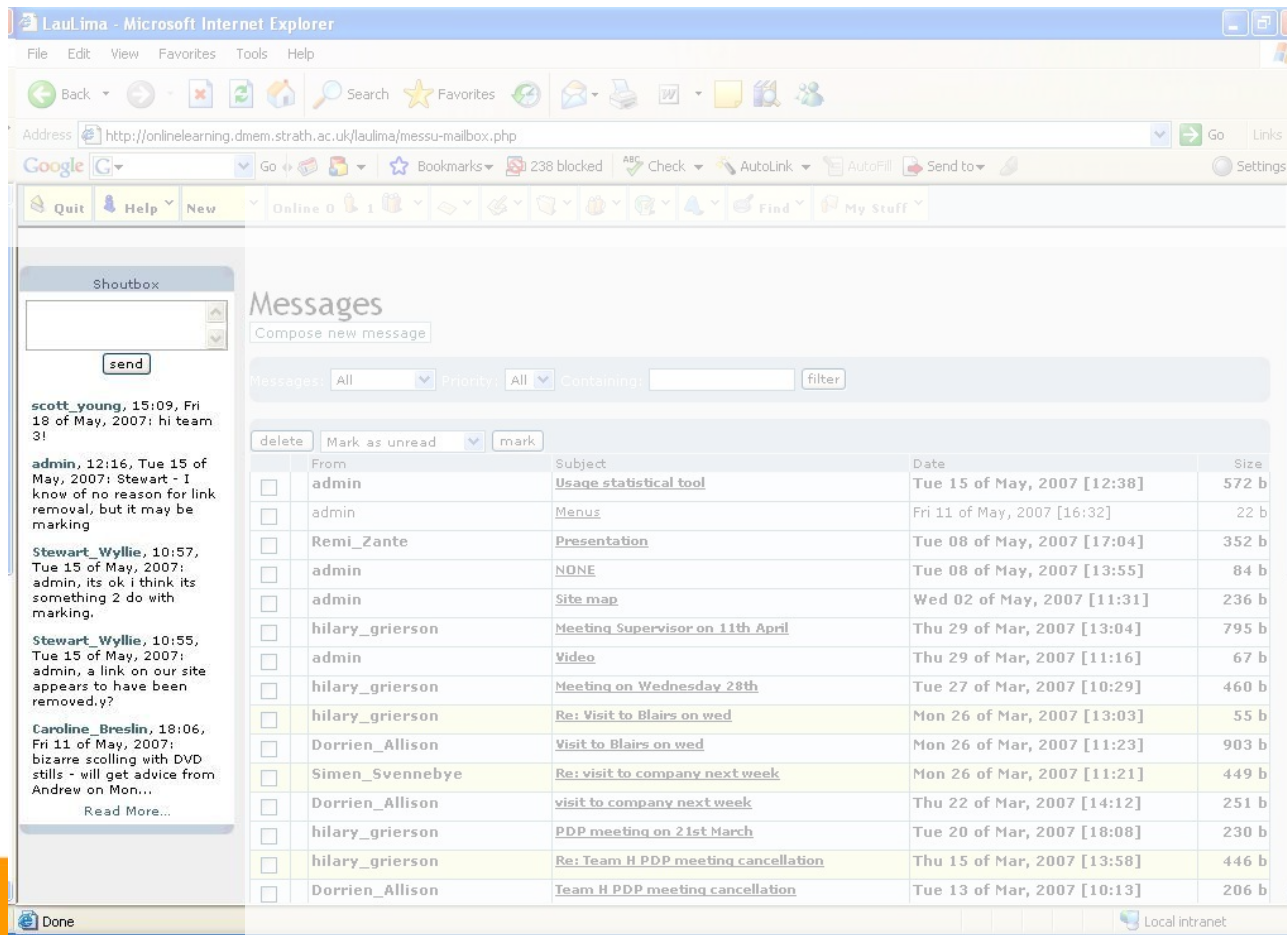
Design Critique and Demonstration



LauLima Site



Communication – formal and informal



Shoutbox

send

scott_young, 15:09, Fri 18 of May, 2007: hi team 3!

admin, 12:16, Tue 15 of May, 2007: Stewart - I know of no reason for link removal, but it may be marking

Stewart_Wyllie, 10:57, Tue 15 of May, 2007: admin, its ok i think its something 2 do with marking.

Stewart_Wyllie, 10:55, Tue 15 of May, 2007: admin, a link on our site appears to have been removed.y?

Caroline_Breslin, 18:06, Fri 11 of May, 2007: bizarre scolling with DVD stills - will get advice from Andrew on Mon...
Read More...

Messages
Compose new message

Messages: All Priority: All Containing: filter

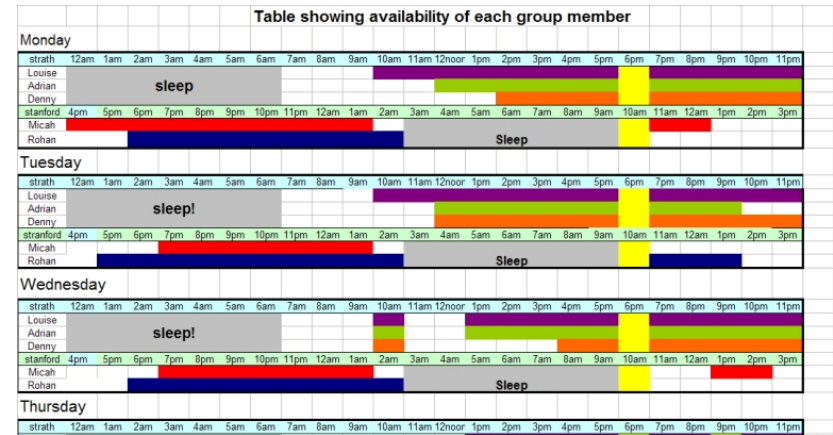
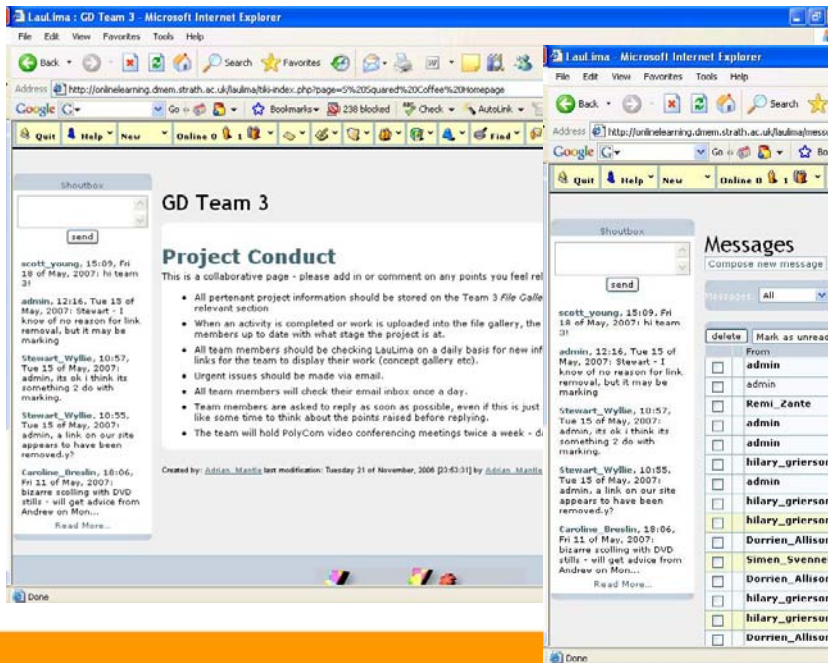
delete Mark as unread mark

	From	Subject	Date	Size
<input type="checkbox"/>	admin	Usage statistical tool	Tue 15 of May, 2007 [12:38]	572 b
<input type="checkbox"/>	admin	Menus	Fri 11 of May, 2007 [16:32]	22 b
<input type="checkbox"/>	Remi_Zante	Presentation	Tue 08 of May, 2007 [17:04]	352 b
<input type="checkbox"/>	admin	NONE	Tue 08 of May, 2007 [13:55]	84 b
<input type="checkbox"/>	admin	Site map	Wed 02 of May, 2007 [11:31]	236 b
<input type="checkbox"/>	hilary_grierson	Meeting Supervisor on 11th April	Thu 29 of Mar, 2007 [13:04]	795 b
<input type="checkbox"/>	admin	Video	Thu 29 of Mar, 2007 [11:16]	67 b
<input type="checkbox"/>	hilary_grierson	Meeting on Wednesday 28th	Tue 27 of Mar, 2007 [10:29]	460 b
<input type="checkbox"/>	hilary_grierson	Re: Visit to Blairs on wed	Mon 26 of Mar, 2007 [13:03]	55 b
<input type="checkbox"/>	Dorrien_Allison	Visit to Blairs on wed	Mon 26 of Mar, 2007 [11:23]	903 b
<input type="checkbox"/>	Simen_Svennebye	Re: visit to company next week	Mon 26 of Mar, 2007 [11:21]	449 b
<input type="checkbox"/>	Dorrien_Allison	visit to company next week	Thu 22 of Mar, 2007 [14:12]	251 b
<input type="checkbox"/>	hilary_grierson	PDP meeting on 21st March	Tue 20 of Mar, 2007 [18:08]	230 b
<input type="checkbox"/>	hilary_grierson	Re: Team H PDP meeting cancellation	Thu 15 of Mar, 2007 [13:58]	446 b
<input type="checkbox"/>	Dorrien_Allison	Team H PDP meeting cancellation	Tue 13 of Mar, 2007 [10:13]	206 b

Done Local intranet

How LauLima is Used

- Project management
- Management of workflow
- Monitoring and feedback

GD Team 3

Project Conduct

This is a collaborative page - please add in or comment on any points you feel relevant sections.

- All pertinent project information should be stored on the Team 3 File Gallery relevant sections.
- When an activity is completed or work is uploaded into the file gallery, the members up to date with what stage the project is at.
- All team members should be checking LauLima on a daily basis for new info links for the team to display their work (concept gallery etc).
- Urgent issues should be made via email.
- All team members will check their email inbox once a day.
- Team members are asked to reply as soon as possible, even if this is just like some time to think about the points raised before replying.
- The team will hold PolyCom video conferencing meetings twice a week - d

Messages

delete	Mark as unread	mark	Subject	Date	Size
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Usage statistical tool	Tue 15 of May, 2007 [12:38]	572 b
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Menus	Fri 11 of May, 2007 [16:32]	22 b
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Times when everyone is available

- Varying levels of ability - and enthusiasm!
- Assessment of content Vs assessment of style
- Ownership and control of technology
- Ease of use/learning curve/resistance

Resolved by...

- Adequate training and support – at all sites; focus on **best practice**
- Online team monitoring and support; use of system logs
- Monitoring and evaluation for assessment and for actively feeding into development
- Acknowledgement of technological issues; balance of research and development, rapidly changing requirements and technological solutions
- Assessment of content Vs assessment of style

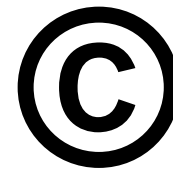
...and using LauLima in conjunction with other tools and technologies



Creative Vs Legal Balance



Vs



Resolved by...

Complementary teaching and learning; Information Literacy

Note benefits (and challenges) of cross-discipline team



**Design Manufacture and
Engineering Management**

Learning Services

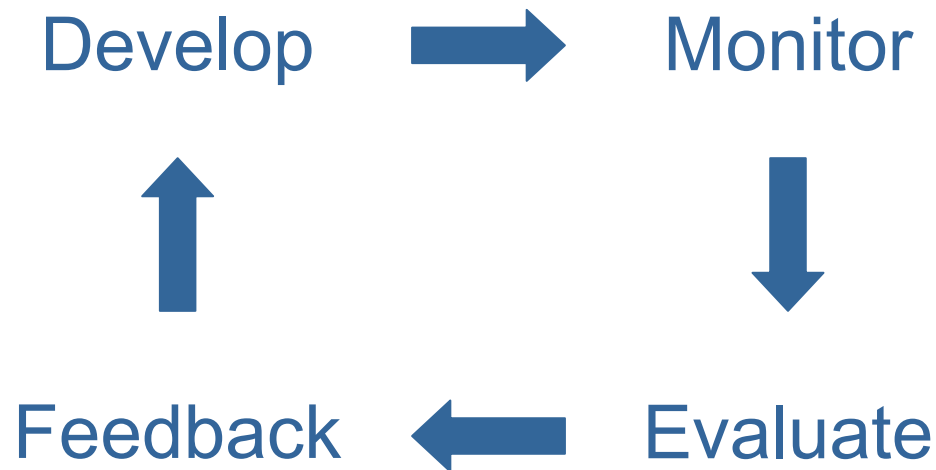
**Centre for
Digital Library Research**

**Centre for Academic Practice
and Learning Enhancement**

Collaboration Issues...

...not just for students but for staff!

Resolved by...



= Evolution

- 24/7 remote access for staff and students
- Allows true global working



- Enhances design process for students by enabling capture of tacit knowledge in one secure, accessible location and enabling its reuse in future design work

In design projects things get said or written that are never given to other people and sometimes that's a **major** part of the project. Things that you do, quick sketches that only you see, can often be lost

Having a place where you can keep all the information – make sure everything gets **shared** – is very **important**



Technological

Pedagogical



Cultural

**Project
Evolution**

Q&A

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