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## Going the Distance: Best Practices in Designing and Sharing Reusable Learning Objects

Philip Russell

*Technological University Dublin*, philip.russell@ucd.ie

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# Going the Distance: Best Practices in Designing & Sharing Reusable Learning Objects

**Philip Russell**  
**Deputy Librarian**  
**Institute of Technology Tallaght**

# Background

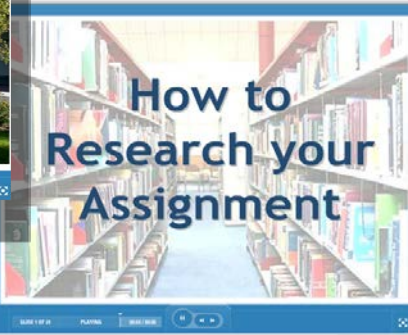
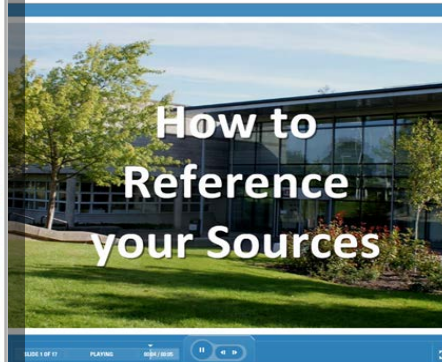
- Institute of Technology Tallaght (ITT Dublin) - range of courses / 4500 FTEs

- Information literacy (IL) / eLearning - strategic focus:

- 3 level IL Framework (2004)
- Strategic Plan (2009-2014)
- Learning, Teaching & Assessment Strategy (2011)



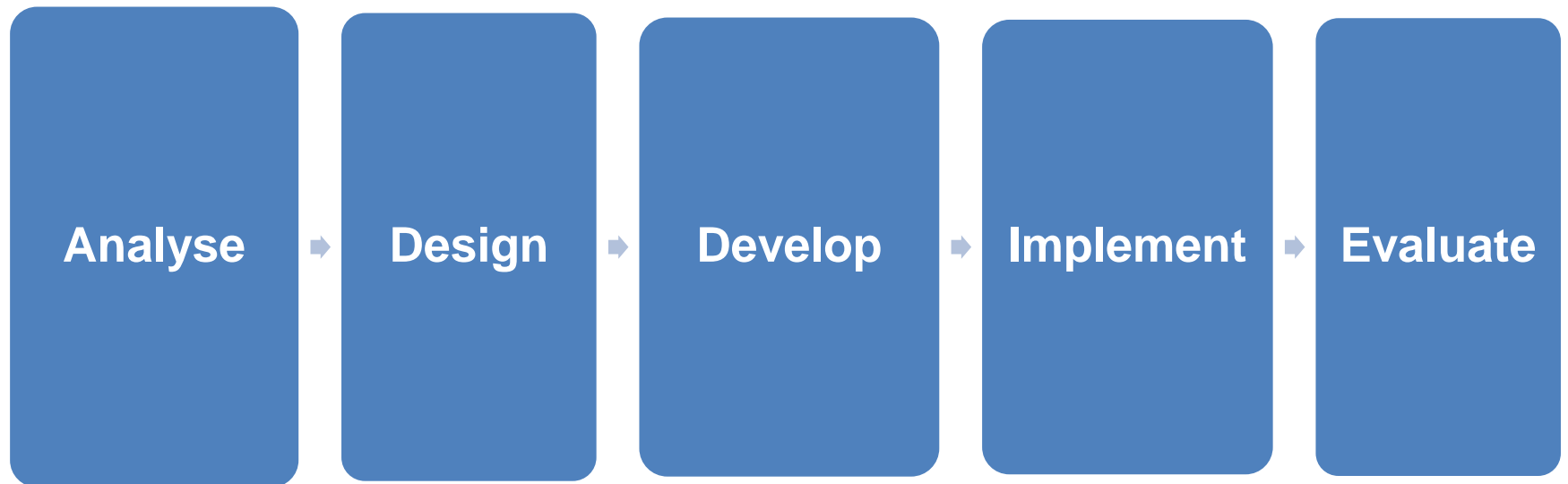
# 'How To' Online Tutorials



- May 2010 - aimed at undergraduates / postgraduates
- Self-paced / interactive / 24x7
- Research, critical thinking, academic integrity, referencing, academic skills
- Sustainable / reusable under Creative Commons



# Project Plan - ADDIE Model



# Planning

- Rationale
- Secured HE funding
- Reviewed existing online tutorials
- ITT resources created from scratch
- Support from IT / learning technologists / Leeds University



# Instructional Design

- Biggs' Model of Constructive Alignment (1999)
  - generic learning outcomes
  - learning activities
  - assessment methods
- Active learning / range of learning styles



The screenshot shows a presentation slide titled "Learning Outcomes" for a plagiarism tutorial. The slide is part of a presentation titled "Plagiarism" and includes the ITT DUBLIN logo. The slide content is as follows:

**Learning Outcomes**

When you have completed this tutorial you should be able to:

- Describe what plagiarism is.
- Explain how to avoid plagiarism.
- Outline the purpose of plagiarism detection software.

The slide also features a magnifying glass icon in the bottom right corner and a navigation bar at the bottom with the text "SLIDE 2 OF 18", "PAUSED", and "00:15 / 00:18".

# Gagné's 9 Steps





# Content Design

- Detailed storyboarding
- Language / consistent font / bullet points
- Branding / logo
- Accessible



# Development Tools



- Created with Articulate Studio 09
- Engaging content / quizzes
- Non technical / easy to use functionality

# Training

- Pedagogical training
  - learning styles / methodologies / assessment
  - online instructional design
- ICT training
  - eLearning software
  - Image editing – Photoshop
  - Web editing – HTML, Dreamweaver, CSS

# Testing & Accessibility

- September 2010 - extensive usability testing / feedback / piloting
- SCORM (sharable content object reference model) 1.2 compliant
- W3C AAA (Web Content Accessibility) Guidelines 1.0
- Creative Commons Attribution-Non-commercial-Share Alike 4.0 International licence
- Available via multiple delivery platforms (website, VLE, institutional repository)

# Implementation

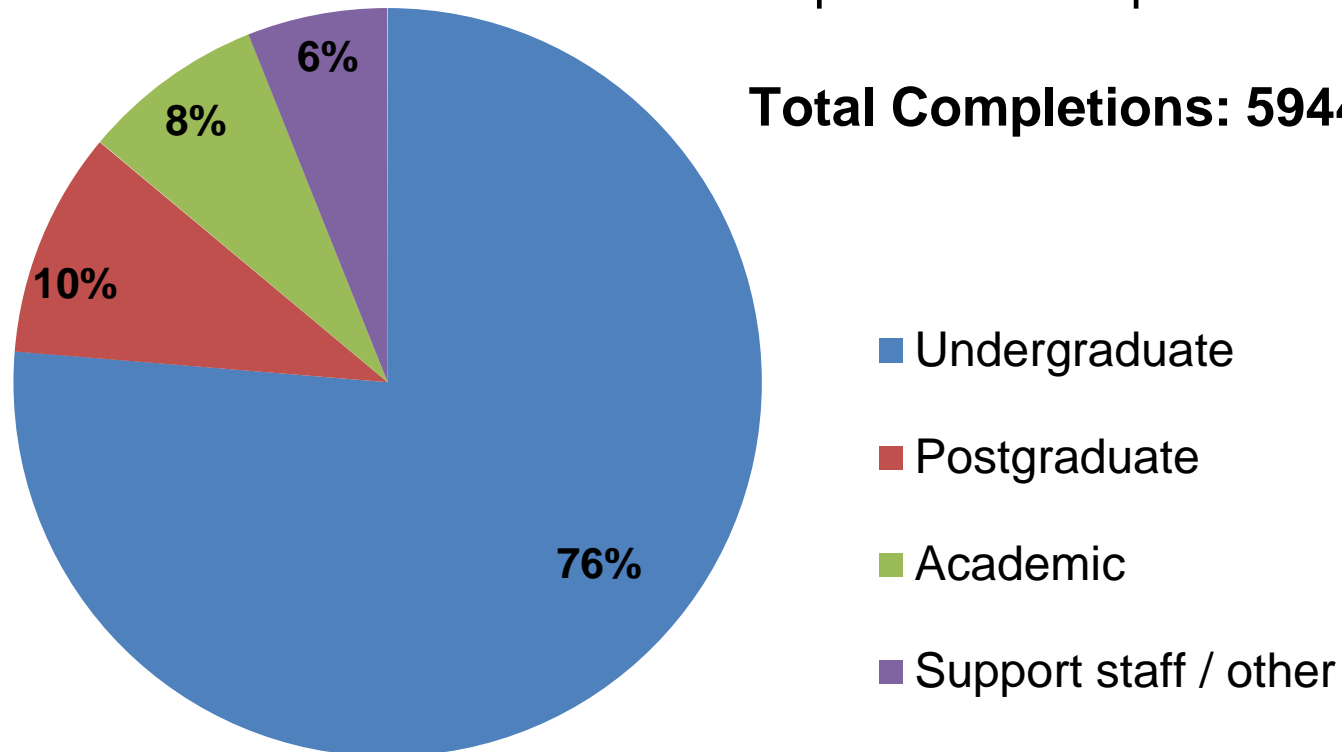


- Tutorials embedded into academic modules via Institute VLE – Moodle
- Enhanced IL delivery
  - Blended approach
  - Learning to Learn module
  - September 2014 – tutorials integrated into over 50 academic modules

# Tutorial Usage

Sept. 2010 – Sept. 2014

**Total Completions: 5944**



# Evaluation Methods

- SurveyGizmo
- VLE/Google Analytics
- Focus Groups
- Online Repositories



# Feedback



## Students

- Improved IL competencies
- Independent learning
- Transition into higher education

## Staff

- Enhanced course content
- Accessibility of resources
- Advocates for sharing



# Students' Comments

“Great tutorial - very good explanation of plagiarism and how to avoid it. Thought the quiz was very useful - meant I could check that I understood the material in the tutorial.”

“As a new student this online resource has made my introduction to college a lot easier, and helped me with my studies. I feel that I am more likely to succeed now at all levels of my course”

“An excellent learning resource – but please add some audio for students with reading difficulties, video content would also be of help.”

# Share and Reuse



- Institutional repositories / national learning object repositories
- Conferences, seminars, workshops, professional networks
- Publications

# OER Repositories

## Information Literacy Resources - to be sure!

Posted by Louise Egan on 17th March 2014



## JORUM

To coincide with March being the month of **St. Patrick** and all things Irish, Jorum is delighted to present 5 **Featured Resources**.

These Information Literacy resources have been created at the **Institute of Technology Tallaght** in Dublin (ITT Dublin). Including online tutorials created by the ITT Dublin covering **research, referencing, plagiarism** and **core academic skills**. The **fifth** of these resources, another Irish University, University College Dublin (UCD), has re-purposed one of ITT Dublin's originals. Author **Jenny Colliery** has re-purposed ITT's Plagiarism resource to create a new OER for plagiarism:

*I selected the IT Tallaght Plagiarism Tutorial as it was simple and comprehensive. UCD*

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### September 2013 Site of the Month

**September 2013 Site of the Month**  
"How To" Online Information Literacy Tutorials  
<http://millennium.it-tallaght.ie/screens/tut.html>  
**Author:** Philip Russell, Deputy Librarian  
**Interviewee:** Philip Russell  
**Institution:** Institute of Technology Tallaght (ITT Dublin), South Dublin,

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## Online Literature Review Tutorial

## NDLR

**Information literacy, academic teaching and learning support**

Institute of Technology Tallaght  
[www.ittdublin.ie](http://www.ittdublin.ie)



Participant(s) **Philip Russell**

Description The aim of this project is to introduce all students to the literature review concept and provide them with an understanding of how to write up the literature review through the design and development of an online learning tool.

# Sharing With the Wider Community



▼ AVOIDING PLAGIARISM

Introduction

Learning Objectives

Key Concepts

Plagiarism Explained

Real Life Plagiarism

Benefits of Avoiding Plagiarism

Intentional or Unintentional

Types of Plagiarism

Tips to Avoid Plagiarism

Plagiarism Detection

Summary

Want to learn more?

Feedback



Slide reproduced with kind permission from J Collery (UCD)

# Plagiarism

## Avoid it at all costs!



Leabharlann UCD  
UCD Library



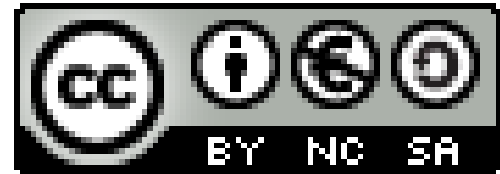
This tutorial was adapted from the IT Tallight, "How to avoid plagiarism" tutorial. Available at <http://millennium.it-tallaght.ie/screens/tut.html>



NEXT

# Factors to Consider for Reuse

- Generic resources
- Interoperable software / SCORM
- Explicit licencing details
- Accessible & discoverable
- Promote / lead by example





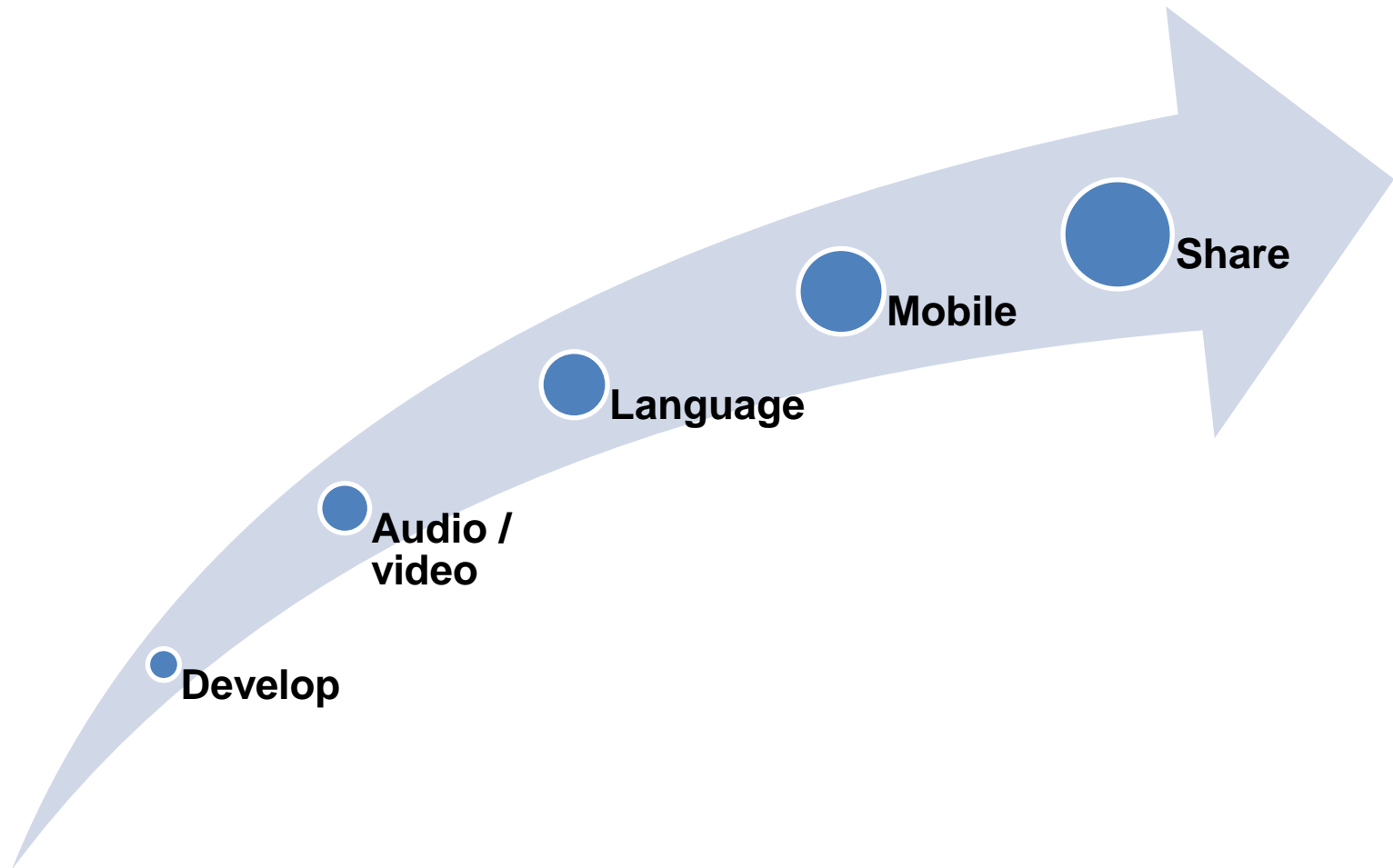
# Lessons Learned

- Staffing / time / funding
- Storyboarding / training
- Extensive testing
- Use feedback to improve

The screenshot shows a web-based quiz interface for 'Plagiarism' at ITT Dublin. The interface is divided into a left sidebar and a main content area. The sidebar contains a navigation menu with 18 items, including 'How to Avoid Plagiarism', 'Learning Outcomes', 'What is Plagiarism?', 'Intentional and Unintentional Plagiarism', 'Why Avoiding Plagiarism Matters', 'Forms of Plagiarism I', 'Forms of Plagiarism II', 'Plagiarism Quiz 1', 'Academic Penalties for Plagiarising', 'Plagiarism Detection Software', 'Using Turnitin', 'Turnitin Originality Report I', 'Turnitin Originality Report II', 'How to Avoid Plagiarism I', 'How to Avoid Plagiarism II', 'Plagiarism Quiz 2', 'Summary', and 'Feedback'. The main content area displays 'Plagiarism Quiz 1' with 'Question 2 of 2' and a 'Point Value: 10'. The question asks, 'Which of the following is plagiarism? Select two answers and click Submit.' The question is presented on a corkboard background with four yellow sticky notes, each with a checkbox: 'Directly copying work from a friend's assignment', 'Using ideas from a journal article but acknowledging the author', 'Using quotation marks and a reference when copying text from a book', and 'Copying an image from the web without reference'. The score so far is '10 points out of 10' and a 'SUBMIT' button is visible. The bottom of the interface shows 'SLIDE 1 OF 18', 'PLAYING', and a progress indicator at '00:00'.



# Future Directions



# Thank You

ITT Dublin library RLOs at:

<http://library.ittdublin.ie/screens/tut.html>

philip.russell@ittdublin.ie



# References

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Blummer, B.A. and Kritskaya, O. (2009) Best practices for creating an online tutorial: a literature review. Journal of Web Librarianship, 3(3), pp.199-216.

Collery, J, (2014) Nuts and Bolts of Developing an Online Plagiarism Tutorial. LIR Annual Seminar, Trinity College Dublin, 21<sup>st</sup> March 2014.

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Mackey, T.P and Jacobson, T.E. (2011) Teaching information literacy online. London: Facet.

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Russell P. et al (2013). Creating, sharing and reusing learning objects to enhance information literacy. *Journal of Information Literacy*, December 2013, Volume 7, Issue 2. Available at <http://dx.doi.org/10.11645/7.2.1744> [Retrieved 4<sup>th</sup> September 2014].

# Image Attributions

**Slide 1: David Peters. Sharing Book Cover**

[http://commons.wikimedia.org/wiki/File:10\\_sharing\\_book\\_cover.pdf](http://commons.wikimedia.org/wiki/File:10_sharing_book_cover.pdf)

**Slide 5: Paul Kilne. Dad's Helping Hand**

<https://www.flickr.com/photos/paulelijah/14116599256/sizes//>

**Slide 9: Gerd Altmann. Learning**

<http://pixabay.com/en/learn-note-sign-directory-64058/>

**Slide 11: Sabine Schulte. Tools**

[http://pixabay.com/p-384740/?no\\_redirect](http://pixabay.com/p-384740/?no_redirect)

**Slide 15: AJ Cann. Feedback Checklist.**

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**Slide 18: Blink and you'll miss it**

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