

# **e-Learning and the Business Case for Digital Libraries**

**About SCRAN**

**eLearning and Cultural  
Resources**

**Projects and Sustainability  
Digital Library Resources  
as Learning Objects**





S · C · R · A · N

# **Scottish Cultural Resources Access Network**

**A Networked Multimedia Resource Base  
for the Study and Celebration  
of Human History and Material Culture  
from the Digitised Resources of  
Libraries, Archives, Museums & other  
Cultural Organisations in Scotland**

# **Organisation and Governance**

- **A Registered Educational Charity**
- **Obtains and administers Grant-aid**
- **Controls the Content Creation**
- **Manages the digital IPR**
- **Runs a learning resource service**



# **eLearning**



**Multimedia**

**Interactive**

**Re-usable**

**Learning Resources**

# From the Nation's Treasurehouses



- **Public, Academic, National Libraries**
  - Mitchell Library, South Lanarkshire, East Lothian, Orkney Islands, Dundee, Edinburgh, Glasgow, St Andrews, Strathclyde, Cambridge University Library, National Library of Scotland, The British Library
- **Museums**
  - Hunterian Museum, National Museums of Scotland, Scottish Mining Museum, Scottish Football Museum, Victoria & Albert Museum, Natural History Museum
- **Galleries**
  - Burrell Collection, National Galleries of Scotland, Imperial War Museum
- **Archives**
  - Scottish Screen, Grierson Archive of Documentary Film, Scottish Music Information Centre, Scottish Theatre Archive, National Archives of Scotland
- **The Built Heritage**
  - National Trust for Scotland, Historic Scotland , Lennoxlove House
- **The Media**
  - Scottish Television Film & Video Archive, The Scotsman, The Herald
- **Contemporary and Performing Arts**
  - Traverse Theatre Company, The Sound of Scottish Writers Project
- **User Organisations**
  - Learning & Teaching in Scotland, Universities Scotland, BCS

# SCRAN Content Creation



Robert Burns (1759-1796) was born in Alloway in Ayrshire, the son of a farmer who provided him with an excellent education. On the death of his father in 1784, Burns tried his hand at farming, but met with little success. While Burns considered emigration, he wrote a number of his finest poems: *The Twa Dogs*, *The Cotter's Saturday Night*, and *To a Mouse* all date from 1785. He hoped that by publishing his work, in the now famous Kilmarnock edition of his poems (1786), he would raise the money to establish himself in Jamaica. But such was the success of the edition that he decided to remain in Scotland and he was lionised by Edinburgh society.

It was while Burns was in Edinburgh that Alexander Nasmyth painted this portrait, now the most famous image of the poet. Introduced to each other by their mutual acquaintance and patron, Patrick Miller of Dalswinton, Burns and Nasmyth became good friends. The portrait was commissioned by the publisher William Creech, to be engraved for a new edition of Burns' poems. Apparently Nasmyth never quite completed the portrait, preferring to leave it unfinished rather than take the risk of losing his likeness.

The poetry of Robert Burns, both in Scots and English, has become an important part of Scottish national identity. His personality - democratic and generous - has also become an ideal for many Scots.

*Date:* 1787  
*Material:* Oil on canvas  
*Dimensions:* 38.40 x 32.40 cm  
*Who:* Alexander Nasmyth (Maker),  
Robert Burns (Sitter)  
*Where:* Dumfriesshire, Ellisland (home of subject),  
Scottish  
*Description:* Robert Burns, 1759 - 1796. Poet.

## Dublin Core Metadata

*References:* National Galleries of Scotland *A Companion Guide to the Scottish National Portrait Gallery*  
Edinburgh: Trustees of the National Galleries of Scotland, 1999  
[National Galleries of Scotland Website](#)





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## Painting of Robert Burns (1759-1796) By Alexander Nasmyth, 1787

[< prev](#) [next >](#)

Record: 22

[picture view](#)

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[search](#) [clear](#)[logout](#)



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explore  
culture on  
**SCRAN**



## Welcome to SCRAN

SCRAN is the history and culture site which lets you learn directly by accessing images, movies, sounds and virtual reality. There are one million heritage records from museums, galleries, archives and media. [Select the text version of the site](#)

**news** SCRAN wins another award

**news** SCRAN amongst Guardian's top sites

**news** SCRAN shop is now online

### Search of the Day: Designs on our Buildings

As well as a substantial archive on historic buildings, SCRAN also holds a number of collections relating to the process of urban design and the development of towns and cities. Find out more by exploring these collections:

**search** Urban Design - Charting Cities

**search** Royal Fine Art Commission: Advising on Design

**search** Architectural History



**M**  
A Millennium Commission  
Lauding Project

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**great scots**

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**licences**

**new on site**

**search**

1 million  
records

**explore**

ready-made  
resources

**illustrate**

your interests

**create**



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## Search Results: Picture View

If you would like to view your results as a list, click on Text View.

Click on any image to view its Full Record.

[search](#) [clear](#)

[manage albums](#)

[logout](#)

Number of hits retrieved: 358 Records 1 to 9

Page: [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [>>](#) | [40](#) | [Text View](#)



[A'Chailleach](#)

*Scottish Viewpoint*



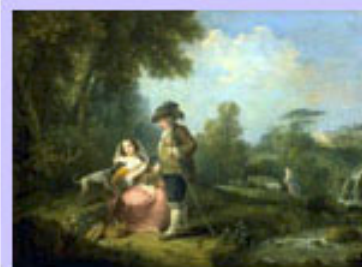
[Maol Chean-Dearg](#)

*Scottish Viewpoint*



['A Caprice Landscape with Ruins'](#) by Studio of Canaletto

*Glasgow Museums*



## Films of Scotland documentary: Clydescope (video clip)



A panoramic film of the Clyde, from Biggar to Brodick, with Billy Connolly as a guide.

Extract: Billy Connolly with Tam Harvey accompanying, cruises down the River Clyde on 'The Waverley', the last surviving sea-going paddle steamer in the world. It is still in operation today.

[Get Image](#)

Sponsored by Films of Scotland and the Clyde Tourist Association. Produced by Viz . Written and directed by Murray Grigor. 30 mins.

## A modern Scottish triptych, no 3, 'Chorale pibroch for Sorley Maclean'

Recording of the piano solo by Ronald Stevenson



A commercial recording released by Altarus in 1993.

One of a series of 3 piano pieces, each written to commemorate a great Scottish intellectual. This one was composed for the writer Sorley Maclean.

[Get Image](#)

Ronald Stevenson's (1928-) long career as a concert pianist and composer has taken him all over the world, but he has been based in Scotland since the 1950s. His extensive output ranges from concertos to song-cycles and includes the longest continuous composition for solo piano, the 80-minute 'Passacaglia on DSCH'.

## Art Gallery and Museum, Kelvingrove Park, Glasgow, main hall (QuickTime VR panorama)



The main hall soars over three storeys and spans five bays with arcaded support. At the north end is the grand organ, looking in the opposite direction, the Glasgow Corporation's City arms fill the upper part of the south wall.

A competition held in 1891 resulted in the controversial selection of English architects J.W.Simpson and E.J.Milner Allen to design this new art gallery and museum.

Part of the capital required was raised by the staging of an international exhibition in Kelvingrove Park. The Foundation stone was laid in 1897 and the building opened in 1901.

[Get Image](#)

# Not just Pictures...



"There are video clips, there are audio clips - a whole range of different ways of presenting information – so this is the future of learning in our schools"

*Nicol Stephen MSP, Deputy Minister for Education*

# A Sustainable Service

- Seamless, adaptive access
- 7/24 serviceability
- Rights protection
- Backup and disaster recovery
- Secure storage of archival masters
- Media and platform migration
- Content updating and refreshment

–***Recurrent Expenditure***



# Funding Sustainability





# **Funding Sustainability**

- **Riding the Tiger**
- **Revenue Grant in Aid**
- **Institutional Commitment of Core Funding**
- **Contributor Membership Fees**
- **Sponsorship**
- **“Friends”**
- **Commercial Sales**
- **Educational Licensing**





# Licensing Model

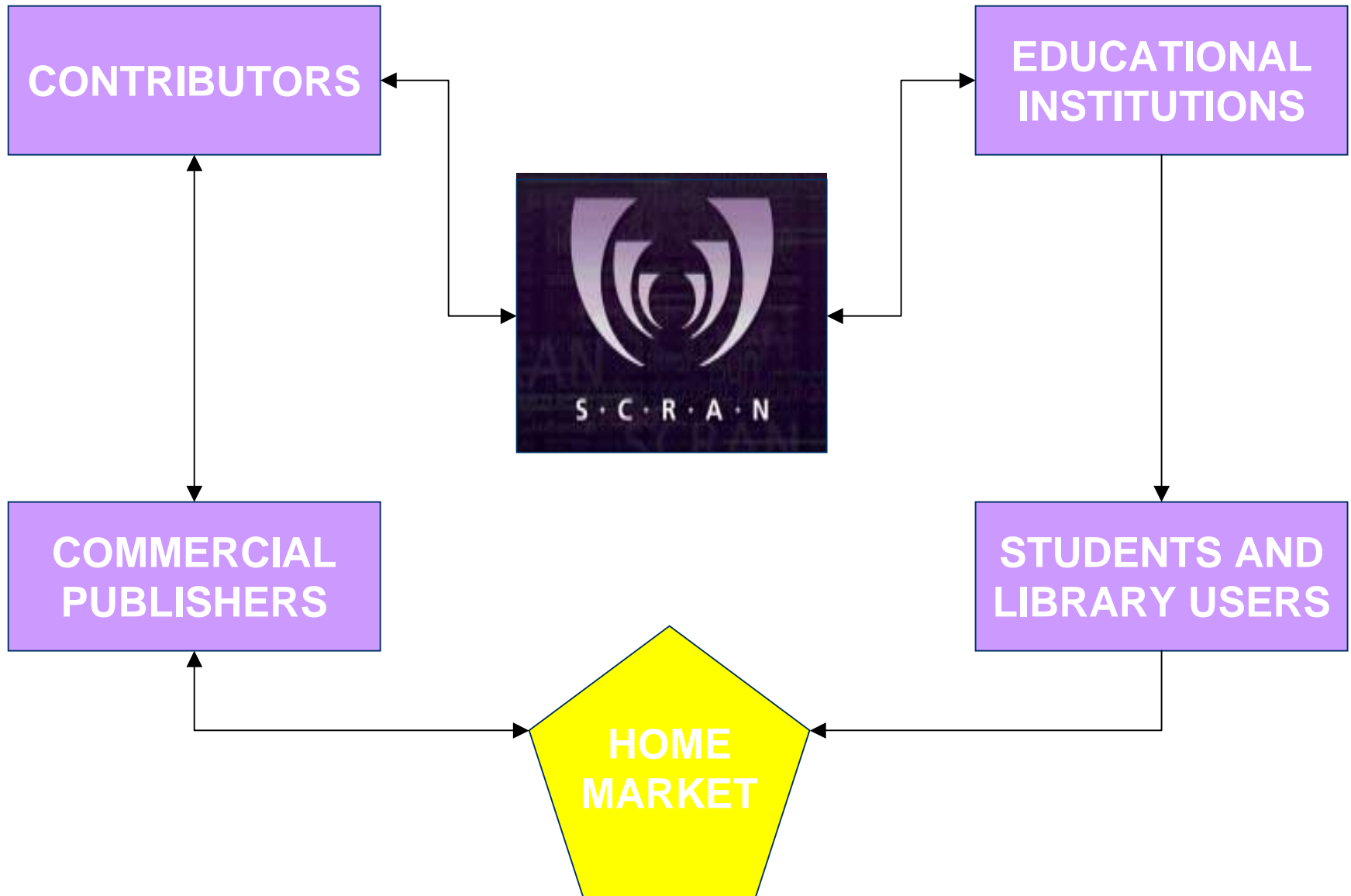
- **Contributor Licence**

- Contributor retains Commercial Rights
- SCRAN receives:
  - perpetual, non-exclusive, worldwide right to non-profit, educational use
- Rights “snap back” if SCRAN taken over

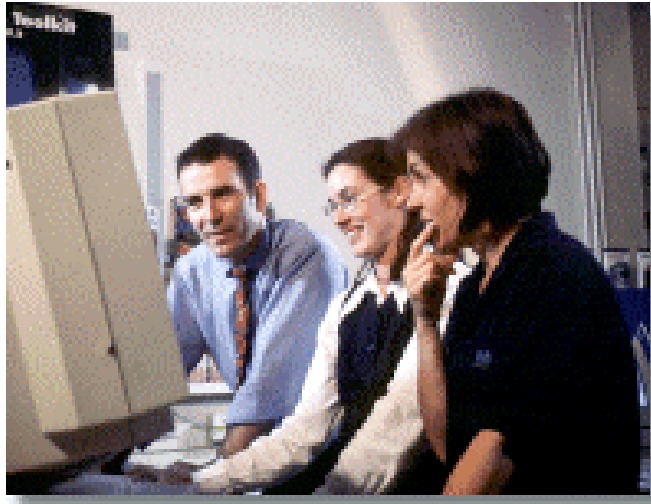
- **User Licence**

- User gains:
  - non-exclusive, non-transferable, institutional right to non-profit, non-proliferation, educational use


# SCRAN Licensing Model



# Educational Licence



*SCRAN licence to use digital assets*



SCRAN

This certificate is issued to the person/organisation named below under the terms of the full SCRAN Licence Agreement. Full terms and conditions of use are included within the Licence Agreement.


**DO**

- Use SCRAN assets
- Copy printouts or make worksheets
- Make computer presentations

**DON'T**

- Sell the images
- Give copies to friends
- Send assets by electronic means

TEAR OFF AND KEEP SAFE



SCRAN

Username \_\_\_\_\_

Password \_\_\_\_\_

Term \_\_\_\_\_

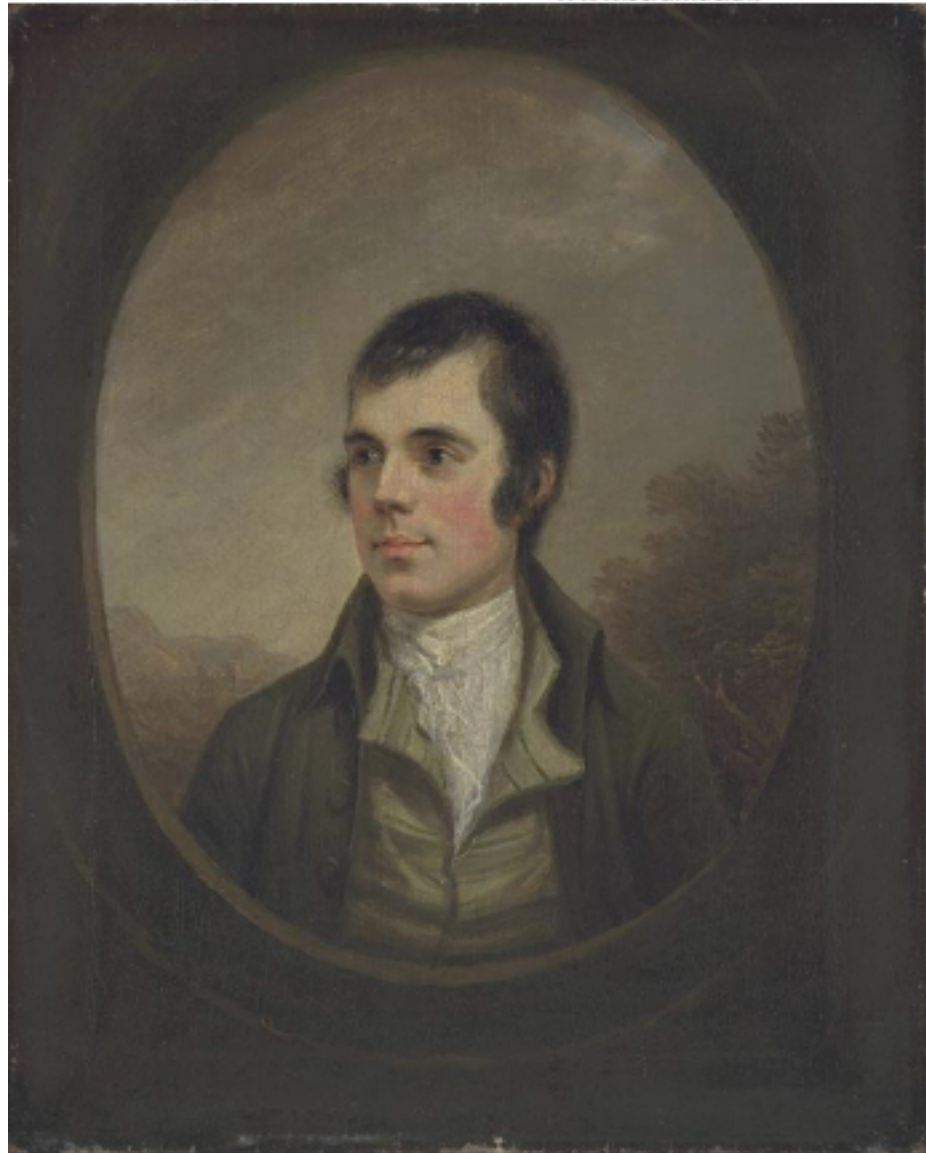
Name \_\_\_\_\_

Scotish Culture Navigation Access Package  
Version: 1.0 (March 2007)  
Copyright: 2007  
SCRAN: scran@scran.ac.uk  
Tel: 0171 400 5011

*Scotish culture's digital heart*

- **Watermark**

Copyright Image Licensed to SCRAN  
www.scran.ac.uk



- **Fingerprint**

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— date and time downloaded by whom via which computer



# **Rights Management**

- **Authentication & Authorisation**
- **Watermarking & Fingerprinting**



# **SCRAN Millennium Project Outturns**

- **350 contributors**
- **1,200,000 records**
- **150,000 images**
- **10,000 sound/movie clips**
- **800 learning resource packs**
- **Licenced to all Schools in Scotland**
- **JISC deal for HE/FE, UK-wide**



# **SCRAN**

## **Futures**

- **Extended User Licensing:**
  - Education Authorities in England
  - Learning Organisations World Wide
- **Additional Digital Libraries:**
  - Resources for Learning in Scotland
  - British History Library
  - AMICO Library
- **The SCRAN Portal**
- **SCRAN Digital Libraries as Learning Object Repositories**
  - VLEs, MLEs
  - Curriculum Online, SSDN, X4L





# Resources for Learning in Scotland

- £4million NOF Grant
- National Library of Scotland
- 115 Library & Archive Projects
- Complementary to and Integrated with SCRAN

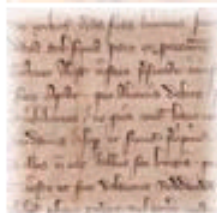




R L S . O R G . U K

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fuelling  
learning with  
**R.L.S.**



## Welcome to Resources for Learning in Scotland

**Resources for Learning in Scotland (RLS)** is a consortium headed by the [National Library of Scotland](#) and including the [National Archives of Scotland](#), the [Scottish Cultural Resources Access Network](#), and over 100 Scottish archives and libraries, to create digital content for the study and celebration of social, cultural and industrial heritage in Scotland, complementary to and integrated with the SCRAN resource base.

The NLS has just been awarded substantial grant aid from the [New Opportunity Fund's Digitisation Initiative](#) to implement RLS.

RLS fully supports the work of the [UK Metadata for Education Group \(MEG\)](#) in working towards interoperable access to educational resources. Over the life of the programme, [rls.org.uk](#) has ambitions to become the portal of choice for people seeking Lifelong Learning resources in Scotland. In the meantime, visit this page for news of the continuing development of the RLS programme of projects, and to search the resource bases of RLS and SCRAN.

instant search

**Search**  
1 million  
records

**Explore**  
ready-made  
resources

**Discover**  
new worlds



New Opportunities Fund  
**funded**

**NGfL**

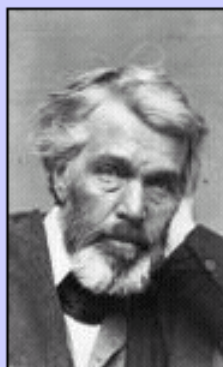


Number of hits retrieved:630 Records 316 to 324

Page: 1 | << | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | >> | 70 |

Text View

login



**Historian and author  
Thomas Carlyle**

circa 1865  
*Hulton Getty*



**Historiated initial  
depicting scenes from the  
second Punic War**

From a fifteenth century  
Italian manuscript of Livy's  
History  
*University of Glasgow  
Library*



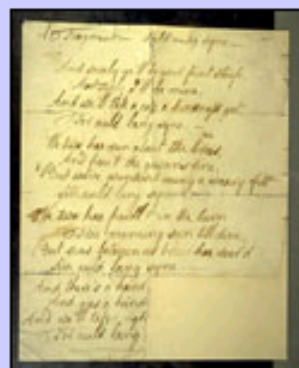
**Historiated initial from  
fourteenth century  
manuscript of Boethius'  
On the Consolation of  
Philosophy**

*University of Glasgow Library*



**History of Tlaxcala**

A Sixteenth century  
manuscript  
*University of Glasgow  
Library*



**holograph fragment of  
'Auld Lang Syne' poem by  
Robert Burns**

*Burns Monument Trust*



**Hours of the Virgin (Lauds)  
- historiated initial**

*Murthly Hours, Folio 54r  
National Library of Scotland*

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BRITISH HISTORY LIBRARY

instant search:  and  and   

## The British History Library

Welcome to the British History Library featuring over 2000 images from the British Galleries at the V&A - the world's greatest museum of the decorative arts.

Start with the Featured Search or Treasures listed below. Type in your own Instant Search above or select from the options on the right.

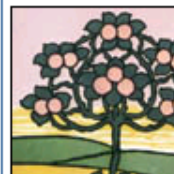
Inspirational, beautiful and unmatched in scope, the stunning new British Galleries display the most comprehensive collection of British design and art on view anywhere in the world. [more>>](#)

### Featured Search



These lavish designs were created for the first production of Gilbert and Sullivan's comic opera, *The Mikado*, which opened in London in 1888. The Japanese Exhibition of 1884 had inspired Gilbert's theme, and provoked a new craze for 'Japonisme' in London society. The thoroughly-researched costumes and set of *The Mikado* led one critic to state that audiences should be grateful 'for being translated from the terrible land of fogs to the sunny landscapes of Japan'. [featured search>>](#)

### Collection Treasures

[some significant cultural treasures](#)[leading manufacturers of the times](#)[homepage](#)[quick search](#)[assisted search](#)[resources](#)[about us](#)

powered by

[homepage](#) | [quick search](#) | [assisted search](#) | [resources](#) | [about us](#)



instant search:  and  and  [search](#) [clear](#)

## Search Results: Picture View

Click on any image to view its Full Record.

Number of hits retrieved: 164 Records 82 to 90

Page: 1 | << | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | >> | 19 |

[Text View](#)



[JUG](#)

Victoria & Albert Museum



[JUG](#)

Victoria & Albert Museum



[JUG](#)

Victoria & Albert Museum



[Kingfisher with Irises and Pinks](#)

Victoria & Albert Museum



[Locket](#)

Victoria & Albert Museum



[LOVER'S RIBBON](#)

Victoria & Albert Museum

A M I C O



## Welcome to The AMICO Library™



Welcome to the Art Museum Image Consortium (AMICO), a not-for-profit organization of institutions with collections of art, collaborating to enable educational use of museum multimedia.

Together, AMICO Members are building [The AMICO Library \(TM\)](#), a licensed digital educational resource available under subscription to universities and colleges, public libraries, primary and secondary schools, and museums.



A [subscription](#) to The AMICO Library (TM) offers online access to high-quality museum multimedia including high resolution images, multiple views, catalogue details, sound and video.

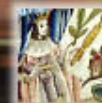
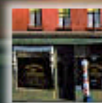
The AMICO Library (TM) has a [range of educational uses](#), and is dedicated to providing new ways to teach and study art history.

[Membership](#) of AMICO is open to all institutions with collections of works of art, willing to contribute to The AMICO Library (TM).

[HOMEPAGE](#)[RESOURCES](#)



AMICO



instant search:  and  and

SEARCH

CLEAR

## Search Results: Text View

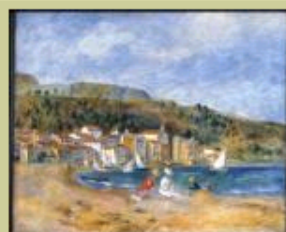
[manage albums](#)

[logout](#)

If you would like to view your results as a list, click on Text View.

Click on any image to view its Full Record.

Number of hits retrieved: 138 Records 1 to 9  
Page: 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | >> | 16 | [Text View](#)



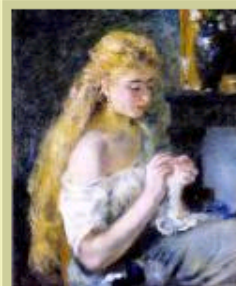
"The Beach at Le Lavandou, French Riviera"  
Clark Art Institute

[Copyright Link](#)



A Bouquet of Roses  
Clark Art Institute

[Copyright Link](#)

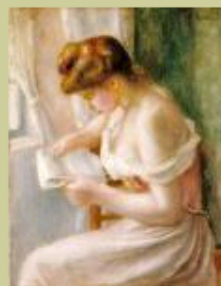


A Girl Crocheting  
Clark Art Institute

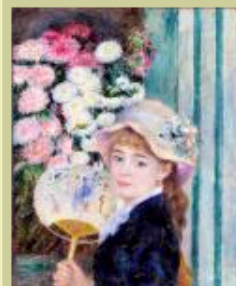
[Copyright Link](#)



A Girl Gathering Flowers  
Clark Art Institute



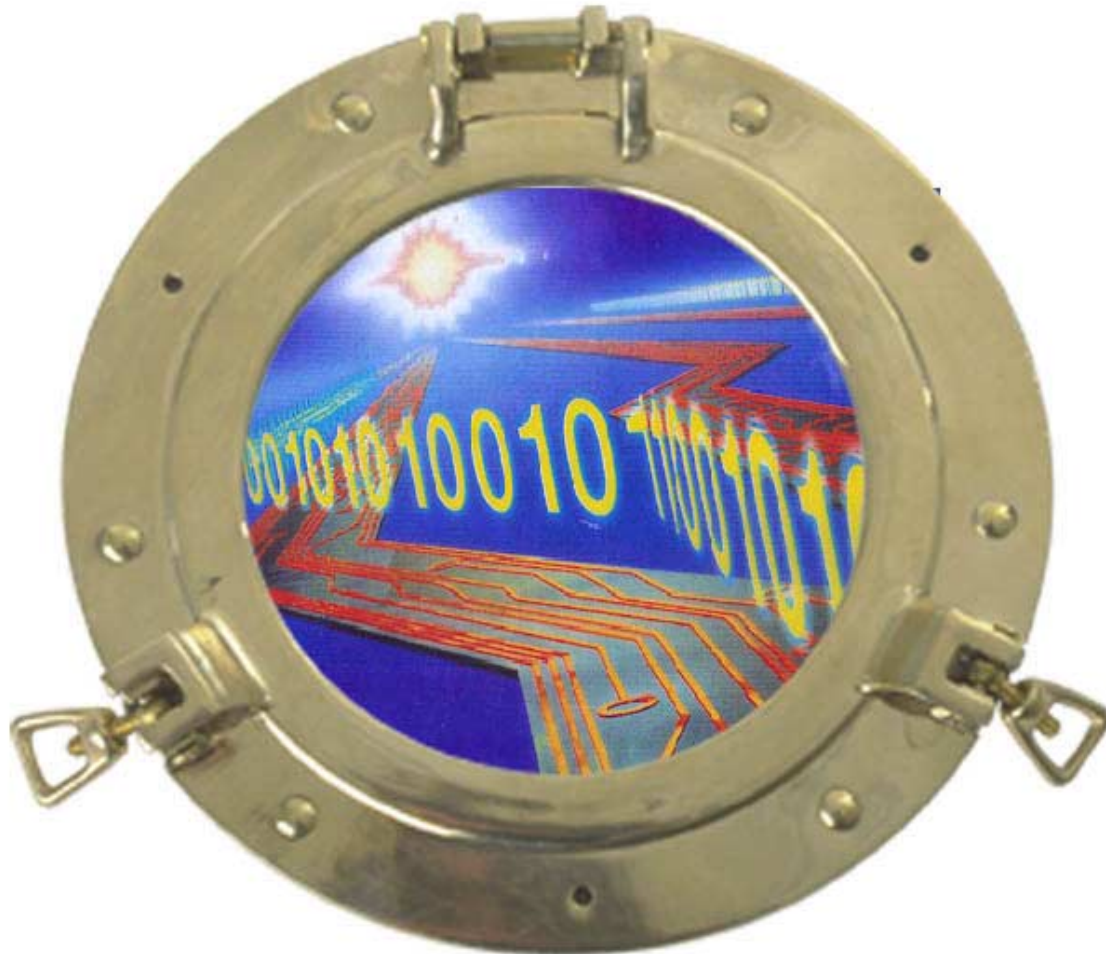
A Girl Reading  
Clark Art Institute



A Girl with a Fan  
Clark Art Institute



# The SCRAN Portal



# Netwide Search

SCRAN - Cultural Resources @ Your Fingertips - Microsoft Internet Explorer

File Edit View Favorites Tools Help

search|browse|information|education|news|my scran|help| home|shop

**Search SCRAN and other databases**

Enter your search terms in one or more of the boxes on the right and select any or all of the checkboxes, then click Search.

This search uses the words you enter to find any records that contain all of these words in any place.

It provides maximum retrieval, but using [Assisted Search](#) offers more relevance. Teachers may prefer to use our

**records containing:**

**and:**

**and:**

**please select any of the checkboxes below:**  
[\[select all checkboxes\]](#)

<input checked="" type="checkbox"/> <b>SCRAN</b>	<input type="checkbox"/> <b>AMICO</b>
<b>libraries:</b>	<b>image services:</b>
<input checked="" type="checkbox"/> <b>Edinburgh</b>	<input type="checkbox"/> <b>Archaeology (ADS)</b>
<input type="checkbox"/> <b>Glasgow</b>	<input type="checkbox"/> <b>Helix</b>
<input type="checkbox"/> <b>Scotland-wide</b>	<input checked="" type="checkbox"/> <b>Picture Australia</b>
<input type="checkbox"/> <b>UK-wide</b>	
<input type="checkbox"/> <b>world-wide</b>	
<b>gateways:</b>	<b>heritage services:</b>
<input type="checkbox"/> <b>Education (SVTC)</b>	<input type="checkbox"/> <b>Monuments (Canmore)</b>
<input checked="" type="checkbox"/> <b>Art &amp; Design (ADAM)</b>	<input type="checkbox"/> <b>Portable Antiquities</b>

Internet

## Search Results: Picture View

Click on any image to view its Full Record.

Number of hits retrieved: 7447 Records 6607 to 6615

Page: 1 | << | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 |

>> | 828 | Text View

instant search

search

clear

login



6607: [PictureAustralia LISMORE, Glasgow, 1598, BUILT AT GLASGOW 1885](#)



6608: [PictureAustralia A relic of the gold days - The old Bar of the Glasgow Arms Hotel now delicensed, at Talbot, Vic. ...](#)



6609: [PictureAustralia LOCH TORRIDON Glasgow, 2000 Tons, Built at Glasgow, 1881. Abandoned in the N. Atlantic, Jan 1915. Then under Russian flag.](#)



6610: [PictureAustralia LOCH VENNACHAR, Glasgow, 1485 Tons, Built at Glasgow, 1875. Dismasted 1892. Southern Ocean. Run down in](#)



6611: [PictureAustralia LOCH NESS, Glasgow, 1203 Tons, Built at Glasgow, 1869. A hulk at Adelaide since 1910.](#)



6612: [PictureAustralia LOCH GARRY, Glasgow, 1493 Tons, Built at Glasgow, 1875. Broken up at Genoa.](#)



7444: [PictureAustralia](#)  
[Glasgow Arms Hotel](#)  
(Newcastle trip)



7445: [PictureAustralia](#)  
[Cocktail party for](#)  
[Canadian High](#)  
[Commissioner on board](#)  
[HMCS New Glasgow and](#)  
[HMCS Sussexvale, Garden](#)  
[Island](#)



7446: [PictureAustralia](#)  
[Cocktail party for](#)  
[Canadian High](#)  
[Commissioner on board](#)  
[HMCS New Glasgow and](#)  
[HMCS Sussexvale, Garden](#)  
[Island](#)



7447: [PictureAustralia](#)  
[Colonial premiers at](#)  
[Municipal Art Gallery,](#)  
[Glasgow](#)

Page: 1 | << | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 |  
Text View

**search status report: running [or complete]**

**click collection organisations below left to display relevant results**

collection	hits	status
<a href="#">SCRAN</a>	4480	complete
<a href="#">Edinburgh Univ. Lib</a>	2106	complete
<a href="#">VADS Adam</a>	13	complete
<a href="#">PictureAustralia</a>	848	complete

# Digital Library Resources as Learning Objects

## SCORM:

*(Shareable Content Object Reference Model)*

- **Asset** – Learning content in its most basic form.
- **Shareable Content Object (SCO)** – A collection of one or more assets, that can be accessed by topic or curriculum outcome.
- **Content Aggregation** – A series of aggregations, SCOs and assets to be presented to the learner.

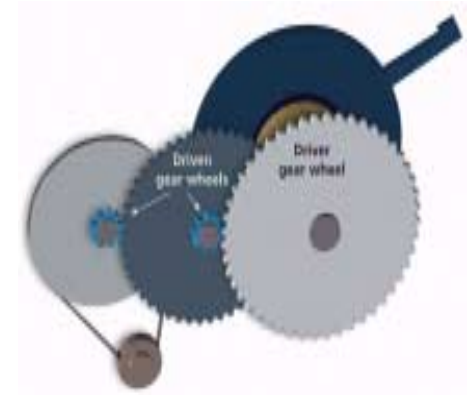
The Shareable Content Object Reference Model  
of the Advanced Distance Learning (ADL) group [www.adlnet.org/scorm](http://www.adlnet.org/scorm)



# **RAID:** An Object should be

- **Reusable** – can be modified and used in many different learning situations.
- **Accessible** – can be indexed and found as needed.
- **Interoperable** – operates across a wide variety of hardware, learning environments and tools.
- **Durable** – does not require modification as versions of system software, players and plug-ins change.

# Re-usable Content





SCRAN.AC.UK



# **Accessible Content**

# **IEEE Learning**

# **Object**

# **Metadata**



SCRAN.AC.UK



**Locate  
tailored  
resource  
packs for  
your subject  
area**

**How to**

Navigate the curriculum tree by clicking on the open folders until you find the pack you need.

**Or** Enter a keyword

**Or** Browse the list of Resource Packs

**NB:**

This facility is constantly being updated. If there are currently no resource packs in your subject area, you may want to browse Projects for

## Curriculum Navigator

The Curriculum Navigator is the fast way for teachers to find SCRAN resources on specific subjects in the UK curricula, be it the Scottish Curriculum or the National Curriculum for England.

The Curriculum Navigator contains resource packs on many different subjects and is constantly being updated. Keep checking the [School News](#) section for information on new additions to the Curriculum tree.

instant search

search

clear

logout

[Click here to find all Items](#)

Find Items:

go

(one word only please)

Click the Curriculum Folders below to navigate the tree:

[Top](#)[A. Scottish Curriculum](#) (702 Items)[B. National Curriculum \(England\)](#) (643 Items)

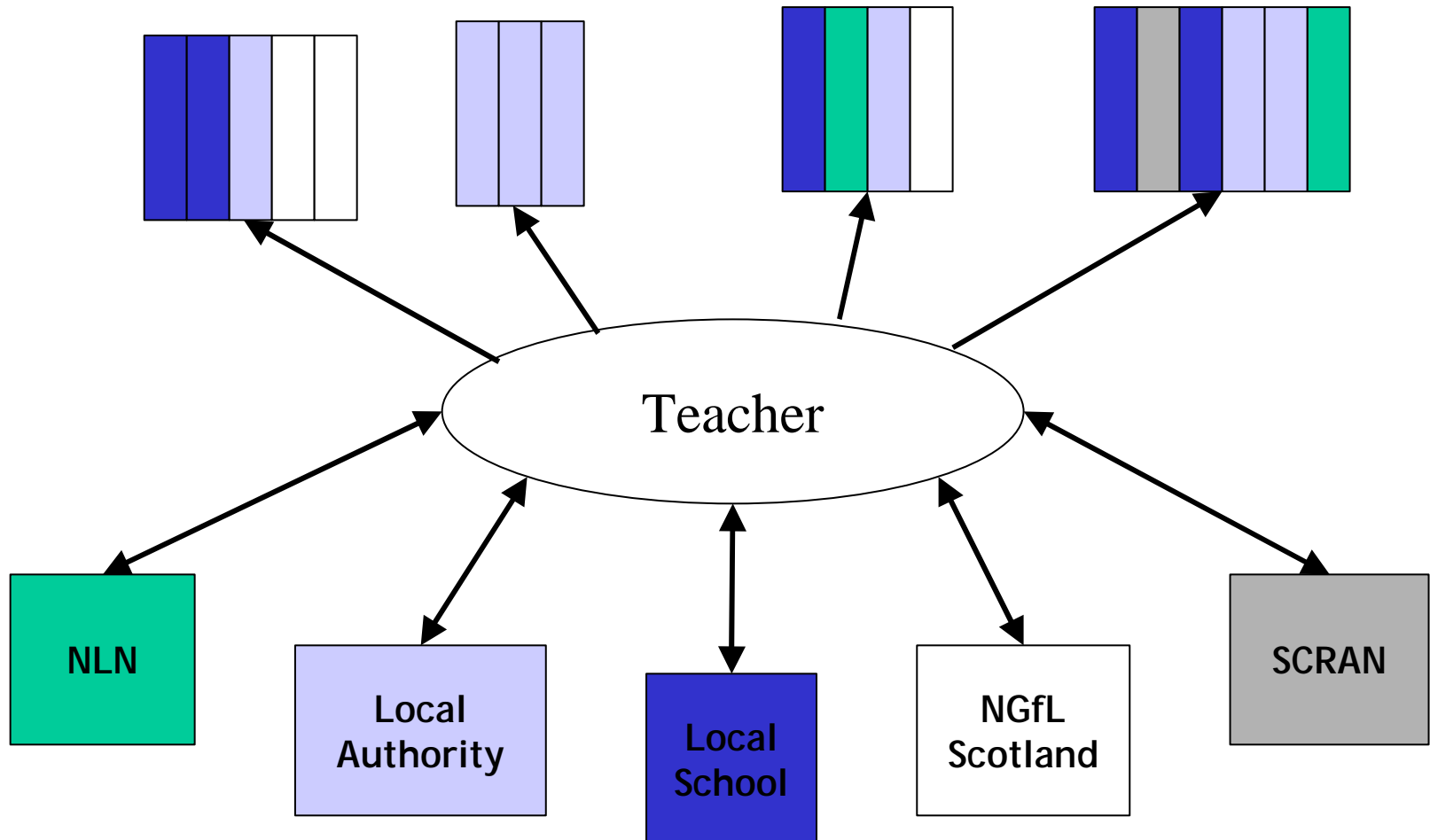
# Interoperable Content:



# IMS Content Packaging Best Practice Guide



# Packaging Content from Multiple Repositories



# Interoperable Content: Tools to Create New Learning Objects From SCRAN and other Resources



# **Into the Walled Garden...**

- **Resources on SCRAN are protected from piracy**
- **SCRAN assets can be freely re-used in all licensed institutional institutions**
- **Educationalists are encouraged to contribute learning objects built from SCRAN assets**
- **Funding is available to encourage best practice in the creation and contribution of further learning content**



# E-Learning and Digital Libraries: a Business Case



- Digital Preservation implies substantial ongoing costs
- The most likely source of future revenue to meet these costs is Educational Licensing
- Licenced resource services must fulfill the evolving needs of their customers
- Digital Library services like SCRAN must therefore adapt to the standards and frameworks of Learning Object Repositories





# New Kinds of Learning Resources



“I am beginning to realise that, from Primary through Secondary School and on to my first two years at University, I had almost become indoctrinated into believing History was something you learned exclusively from Books. This website has opened my eyes to some of the other possibilities”

*History undergraduate, Dundee*



**bruce@scrان.ac.uk**



**Thank you!**