

# Mapping INTERREG Programmes

The screenshot shows the 'borderireland' website interface. At the top, it says 'Your guide to cross-border activities in Ireland'. A navigation menu on the left includes 'ACTIVITIES', 'PUBLICATIONS', 'PEOPLE', 'ORGANISATIONS', 'FUNDING', and 'MEDIA CENTRE'. The main content area is titled 'Organization Search Results' and shows 72 organizations returned for the search 'County is "Fermanagh"'. The results are ordered by name and displayed in a list format. The first few results are:

- 1 Age Concern Inveistown**  
Address : 3 Troy Lane, Ballinamallard, County Fermanagh, Northern Ireland  
Description: Age Concern Inveistown, a group of Age Concern Northern Ireland, is a voluntary organisation committed, though campaigning and ...
- 2 Age Concern Roslea (Finn Valley Club)**  
Address : Roslea Post Office, Roslea, County Fermanagh, Northern Ireland  
Description: Age Concern Roslea, a group of Age Concern Northern Ireland, is a voluntary organisation committed, though campaigning and ...
- 3 Balcas Timber Ltd**  
Address : Lough Eniskillen, County Fermanagh  
Description: Balcas is one of the UK's most advanced wood processing companies, with seven manufacturing and processing sites in Ireland.
- 4 Ballinamallard Girl's Brigades**  
Address : 73 Berragh Road, Ballinamallard, County Fermanagh, Northern Ireland  
Description:
- 5 Bellecoo and District Historical Society**  
Address : Railway Road, Bellecoo, County Fermanagh  
Description: The society has organised a heritage centre in the County Fermanagh town which displays local artefacts and provides ...
- 6 Belleek and District Community Partnership**  
Address : Unit 2, Craft Village, Belleek, County Fermanagh  
Description: Belleek and District Community Partnership is an umbrella group for 10 smaller groups in the Belleek and Boa electoral ward ...
- 7 Belleek and District Development Trust Ltd**  
Address : The Erne Gateway, Carr, Belleek, County Fermanagh, Northern Ireland  
Description: The Belleek and District Development Trust was formed as a local community-based company in 1991, with the specific aim of ...
- 8 Belleek and District Social Development Group**  
Address : Unit 2, Craft Village, Main Street, Rathmore, Belleek, County Fermanagh, Northern Ireland  
Description:
- 9 Belleek Cross-Border Childcare Company Ltd**  
Address : Station Road, Belleek, County Fermanagh  
Description: A community run business, with a Board of Directors that offers childcare facilities to children up to the age of 12 from ...

**Centre for Cross Border Studies**  
**Institute for International Urban Development**  
**National Institute for Regional and Spatial Analysis**  
**All-Island Regional Observatory**  
**International Centre for Local and Regional Development**

**Final Report**

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## **Development Team**

Mapping-II was developed by an interdisciplinary team drawn from the ICLRD partners.

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- Justin Gleeson, Project Manager,
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### **Institute for International Urban Development**

- John Driscoll, ICLRD Director
- Daniel Tsai, Senior Research Associate

## ***Funding Support***

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## Acknowledgements

We would like to acknowledge the support and guidance provided by Monica Curren of the Special EU Programmes Body.

Joe Shiels of the Centre for Cross Border Studies in Armagh and Daniel Tsai of the Institute for International Urban Development in Cambridge, Massachusetts were jointly responsible for developing the software programming and web-design interface for Mapping-II. This constituted the majority of the work for this project. Justin Gleeson of the All-Island Regional Observatory and Aoife Shinnors of the National Institute for Spatial and Regional Analysis undertook the diligent and detailed work involved to geo-code the address of projects in the Republic of Ireland. John Driscoll of the International Centre for Local and Regional Analysis provided project management support and together with Patricia Clarke of the Centre for Cross Border Studies, provided advice and feedback to the design team. Mairead Hughes of the Centre for Cross Border Studies provided invaluable project administration support.

We would also like to acknowledge the guidance and support provided by Rob Kitchin, Brendan Bartley and Paul Lewis at the National Institute for Spatial and Regional Analysis at NUI Maynooth. Brendan and Rob are key members of the ICLRD. *InterTradeIreland*, while not directly involved in this pilot project, supported early initiatives in mapping infrastructure programmes on a cross-border basis. Through various collaborating organisations, this work is starting to provide data and mapping information to policy makers and practitioners involved in cross-border projects. Further information on the collaborative institutions involved in this work can be found at:

- Centre for Cross Border Studies [www.ccbs.org](http://www.ccbs.org)
- International Centre for Local and Regional Development [www.iclrd.org](http://www.iclrd.org)
- All-Island Research Observatory  
<http://nirsa-rro.nuim.ie/nirsa/index.php?maPage=aboutUs&monSousMenu=null>

## Introduction

Evidence-based spatial planning and the demand for high quality data on an all-island basis is ever increasing. The 2006 ICLRD InterTradeIreland report – *Spatial Strategies on the Island of Ireland: Development of a Framework for Collaborative Action* – highlighted the need for complete, consistent and comparable datasets for the development and implementation of all-island collaborative spatial planning. The report is available on the ICLRD website (<http://www.iclrd.org/documents/SpatialStrategiesontheIslandofIreland.pdf>).

The Irish Government's recently published National Development Plan 2007-2013 notes the importance of co-operation on spatial planning on a North-South basis. It also points out that collaborative spatial planning will be based "for the first time on new all-island datasets and thematic mapping which will greatly enhance evidence-based policy and strategic decision-making on an all-island basis". Similar initiatives are underway by various government departments in Northern Ireland including the Department of Regional Development and the Strategic Investment Board.

To support these efforts ICLRD through its partners and other research organizations (the All-Island Research Observatory (AIRO) and the National Centre for Geocomputation at NUI, Maynooth; and the Regional Studies Association have undertaken three major activities:

- The publication of *The Atlas of the Island of Ireland—Mapping Social and Economic Change*;
- Identifying spatial indicators that can inform cross-border spatial planning; and
- Incorporating mapping capabilities on the BorderIreland web site.

The Atlas, published jointly by ICLRD and AIRO, presents a set of detailed, full colour maps on population, housing, transport and the economy across the island based on census data for the Republic of Ireland in 1991 and 2002 and census data for Northern Ireland in 1991 and 2001. As noted in the Joint Foreword by Minister John Gormley T.D and Minister Conor Murphy M.P. M.L.A, the Atlas can facilitate 'better harmonization of information sets North and South so that we can plan better for an even more prosperous and sustainable future on our remarkable island.'" The Atlas provides a baseline for the future, especially in 2011 when the census in both Northern Ireland and the Republic of Ireland occur at the same time.

In support of evidence-informed spatial planning and analysis, ICLRD and its partners held a conference in Dundalk on Nov 15, 2008 on *Supporting Evidence-Informed Spatial Planning and Analysis—Towards the Development of Spatial Databases on the Island of Ireland*. Attended by over 95 delegates, the conference presented the findings of two earlier seminars held at the National University of Ireland, Maynooth and the University of Ulster to identify potential spatial indicators. The seminars were organized in collaboration with the Regional Studies Association Irish Branch.

Information on the Atlas and the spatial indicators can be found on the ICLRD website <http://www.iclrd.org/>.

### ***Enabling Networks--Mapping Cross-Border Activities and Organisations***

As the amount of information generated on cross-border co-operation has grown so has the need to adopt a comprehensive and disciplined approach to managing information and understanding its value. Methods of spatial analysis have developed rapidly over the past decade; nonetheless, in our experience, the growing capacity of spatial analytical techniques continues in a large part to be underutilized in North/ South policy decision making.

In 2006 with funding from the EU Interreg programme, the Centre for Cross Border Studies, the Institute for International Urban Development and the National Institute for Spatial and Regional Analysis (NIRSA) successfully demonstrated a spatial mapping programme to visualize information on cross-border co-operation held in the Border Ireland database.

The notion of fully integrating the mapping application into the Border Ireland website was broadly welcomed by reviewers of the pilot mapping initiative as a “natural next step in the development process”. In 2007, the same partners began a second phase of work to fully integrate the prototype mapping programme into the online Border Ireland database. This will allow users to interactively explore cross-border co-operation by abstracting, summarising and spatially presenting the large volume of cross-border data.

***The growing capacity of spatial analytical techniques is underutilized in North/ South policy decision making.***

### ***Benefits of Mapping Cross-Border Programmes***

Devolution in the United Kingdom together with regionalisation in the Republic of Ireland and the North-South Strand of the 1998 Good Friday Agreement have created a public policy system which is becoming more layered with different spatial areas involved in the planning and delivery of programmes.

Sub-regions within the border regions are at different stages of building cross-border co-operation. The International Fund for Ireland followed by the EU INTERREG and then EU Peace programmes have all targeted their funding at Northern Ireland and the six Southern border counties based upon the belief that a combination of the Troubles and the Border were causing a double disadvantage. This has created a ‘Border funding region’ which in the future will begin to see smaller ‘micro-regions’ for area-based cooperation within functional catchment areas. Examples of new areas include the North West Gateway initiative, the Newry-Dundalk sub region, and small connected town in the central border region.

At its most powerful, mapping co-operation is about understanding the relationship between the assets of different sub-regions. Understanding the formal and informal linkages within each distinct sub-region—and the organisations that promote such linkages—is a key aspect of developing a comprehensive understanding of the regional economic environment.

It is nowadays widely assumed that local networks, resting on the importance of geographical proximity, play a major role in the economic and technological development of regions. Geographical proximity between organisations is believed to favour co-operation, mutual learning, knowledge creation as well as innovation.

Accepting that innovation has a strong location or geographical component the mapping functionality fulfills an important role of illuminating the spatial dimension of co-operation through simplification, quantification and communication of its vast and ever growing information. Border Ireland aims to support the different layers of policy making by ensuring the availability of sound, representative information. Its emphasis is on creating a cross-border information source on the co-operative activities and outputs of each of the social partners that can be easily understood by multiple audiences. As cross-border co-operation evolves on the island, Border Ireland is helping users to become more familiar with their sectoral peers i.e.those people who co-operate within similiar sectors.

*Mapping functionality highlights the spatial dimension of co-operation through simplification, quantification and communication of its vast and ever growing information.*

### ***Border Ireland***

Border Ireland ([www.borderireland.info](http://www.borderireland.info)) is a comprehensive database which integrates information on activities focused upon cross-border cooperation, the organisations and people that carry these out and the outputs from the activities. The Centre for Cross Border Studies initiated Border Ireland to centralise the very large amount of uncoordinated and fragmented information about North-South co-operation and the Irish border region. This has involved the creation of an information capture strategy and strong working relationships with a network of over 200 information providers from all government departments, North and South; the managing authorities for EU programmes; relevant charitable foundations on the island; research coordinators in all higher education institutions, and key community and voluntary, and business leaders. For the first time, Border Ireland exists as an online guide to the full range of cross-border cooperative activities, research material, publications, funding opportunities and contact details.

Formally launching it in March 2006, the Irish Minister for Finance, Mr Brian Cowen TD, said: “This website will be the keystone for information provision that will enable us all to meet future challenges, be they economic, social or educational. I would encourage everyone who wishes to benefit from a cross-border approach to their activities to make use of this invaluable website.”

Border Ireland has continued to develop as a portal for information on and communication about cross-border co-operation on the island of Ireland developing a range of interactive facilities including an RSS-fed cross-border media centre, and support materials to support cross-border decision-making. By December 2007 Border Ireland had recorded 24,493 visitors with over 800 organisations registered as users of the system accessing information on 3450 cross-border activities and 1850 publications.

## Mapping--II

Phase 1 of the project developed a stand-alone web-based mapping application for visually displaying and interacting with geographic information about cross-border projects. The report on Phase 1, *Mapping INTERREG Programmes Final Report*, is available on the ICLRD website.

The Mapping--II project focused on integrating geographic information into the BorderIreland.info website. Rather than simply attach the stand-alone application of phase 1 into Borderireland.info, the approach was to identify key areas of the web site where visual, geographic content is relevant and useful for the enhanced browsing of site information. Integrating the mapping function into the BorderIreland.info web site enhances the sustainability of the mapping project given that the web site's data base is constantly updated.

Key activities under Mapping—II included:

1. Developing the software to integrate the mapping software programme into the BorderIreland.info database. This represented the majority of the work under Mapping--II and required developing new queries and design features to enhance functionality and ease of use. Considerable work went into developing search capabilities that can be passed from the BorderIreland.info system to retrieve accompanying map answers. Integrating the mapping application with this approach broaden the scope of the mapping queries that a user may ask.
2. Geo-coding southern counties. Given the difficulty of geo-coding data from the Republic of Ireland, additional work was required to geo-code data to provide a fuller picture of the location of organisations and cross-border projects north and south.

The development team focused on developing a mapping interface for three of BorderIreland categories of information:

- Activities-- Within Border Ireland activities are broadly defined as projects, research or events with a cross-border element. A user can search for any cross-border activity undertaken since 1980 by a keyword search or by a sector such as transportation, community development, culture etc. Each activity is accompanied by a short summary, funding details, start and end dates, a named contact to get further information and a link to related publications.
- People-- a comprehensive database of people who have been involved in undertaking cross-border activities or producing cross-border publications since 1980. A user can search for any person by entering their surname and if available, receive information details including email, telephone and organisation as well as a link to publications and activities in which they have been involved.
- Organizations-- a comprehensive database of organisations which have been involved in cross-border co-operation since 1980. A user can search for any organisation by entering a keyword and will be provided each organisation's details include email, telephone, short description, web address and a named contact as well as a link to all activities, publications and people associated with that organisation.

This new mapping functionality will allow users to search and navigate the Border Ireland dataset on the principal of geographical cooperation and to visualise co-operation among and

between councils and counties. Displaying co-operation on a geographic map of the region is often the best way of emphasising the concentration of resources within an area. This is a unique feature of Border Ireland which is not available elsewhere.

The programming work on the mapping--II application was completed in December 2007 and is currently being integrated into a new website design for Borderireland. The Centre for Cross Border studies anticipates that the new design will go on-line in the summer of 2008.

**A key observation from both Mapping I and Mapping II is that organisations and funding agencies involved in cross-border programmes need to collect specific address information on the location of cross-border projects if the projects are to be linked to a geographic information system.**

In Northern Ireland, the ability to locate projects on a map is easier given the use of postal codes. In the Republic of Ireland, postal codes are not available and each location has to be identified using a GeoDirectory. The more specific the address is, the more precise the location can be illustrated on a map.

## Activities

The primary area of integration between maps and datasets is in Activities, where users can search and browse through cross-border activities. The Border Ireland activities page allows a user to select activities by Sector, as shown by the sector pie chart below. Alternatively, one can search for an activity by name or browse all listed activities.

The screenshot shows the 'borderireland' website interface. At the top, there is a navigation bar with links for 'Login / Register', 'About Border Ireland', and 'Feedback'. The main header reads 'Your guide to cross-border activities in Ireland'. A sidebar on the left contains a menu with the following items: ACTIVITIES, PUBLICATIONS, PEOPLE, ORGANISATIONS, FUNDING, and MEDIA CENTRE. The main content area is titled 'Activities' and contains the following text:

*Within Border Ireland activities are broadly defined as projects, research or events with a cross-border element.*

You can search for any cross-border activity undertaken since 1980 by entering a keyword in the box below or clicking a sector. If you have more detail on the sector, location or time period of an activity, please use the advanced search.

Each activity is accompanied by a short summary, funding details, sector, start and end dates, a named contact for whom you can get further information and a link to related publications.

Below the text is a search box labeled 'Search for Activities' with a 'SEARCH' button. Below the search box are two buttons: 'BROWSE ALL' and 'Advanced Search'.

Below the search area is a 'Browse by Sector' section with a pie chart. The pie chart is divided into 11 segments, each representing a sector: Culture, Community Development, Agriculture, Transport, EU Programmes, Tourism, Health, General, Environment, Education, and Economic Development. The 'Transport' segment is highlighted in blue.

Selecting a sector, such as Transport, shows all activities for that sector. In Mapping--II, an accompanying map is shown on the (expanded) sidebar. The number of activities for the sector is shown on the map by county. The map is generated dynamically from borderireland.info data plus geographic data.

The visitor can choose either to interact with the map or proceed as before and browse the activity records on the right. In this example, the visitor has selected "Transport" from the sector pie chart, resulting in 254 activities across Ireland.

The screenshot shows the 'borderireland' website interface. At the top, there is a navigation bar with 'Login / Register', 'About Border Ireland', and 'Feedback'. Below this is a header with the site logo and the tagline 'Your guide to cross-border activities in Ireland'. A breadcrumb trail indicates 'You are here > Home > Activities > Search Results'. The date 'Friday, 4 January 2008' is displayed in the top right corner.

On the left side, there is a sidebar with a menu containing 'ACTIVITIES', 'PUBLICATIONS', 'PEOPLE', 'ORGANISATIONS', 'FUNDING', and 'MEDIA CENTRE'. Below the menu is an interactive map of Ireland with county boundaries. The county of Fermanagh is highlighted in a darker shade, indicating it is the selected county for the search results.

The main content area is titled 'Activities Search Results' and shows '254 Activities returned where Sector is "Transport"'. It includes a search filter for 'Activities per page: 25' and 'Order by: Start Year' in 'Descending' order. A list of 11 activities is displayed, each with a title, date range, and a brief description. The activities include:

- Community Transport Advice and Information Service** (Dates: 2005 - 2007)
- N14/N15/N8 Lifford to Strabane Road Scheme** (Dates: 2004 - 2008)
- A1/N1 Newry to Dundalk Link Road** (Dates: 2005 - 2007)
- INSTANT (Information and Management System for Multi-modal Transport, North and South)** (Dates: 2005 - 2007)
- Provision of Marine Safety Equipment at Londonderry Port** (Dates: 2004 - 2006)
- A3/N54 Road at Rabbit Island (2 phases)** (Dates: 2004 - 2008)
- A37/N53 Cross-Border Ballynacarry Bridge - feasibility study** (Dates: 2004 - 2008)
- N54 Road Alignment Scheme** (Dates: 2004 - 2008)
- Redevelopment of the Old Town Dock to a Fishing Vessel Quay** (Dates: 2004 - 2008)
- Coastal Infrastructure and Safety Improvement Programme** (Dates: 2004 - 2008)
- Vessel Traffic Management System (VTMS) project** (Dates: 2004 - 2008)

The sidebar map is interactive. Selecting an individual county on the map highlights the selected county and also regenerates the retrieved records to show records only for the selected sector and county. The map is therefore integrated into the Activities database to enable visitors to geographically visualize the data and select refinements of that data.

In this example, the visitor has clicked on the county of Fermanagh, resulting in 25 activity records shown, down from an overall 254 records. The visitor can browse individual activity record details as before, or select other counties from the map to see activities for that sector and county.

This screenshot shows the same 'borderireland' website interface, but with the search results filtered by the county of Fermanagh. The breadcrumb trail remains 'You are here > Home > Activities > Search Results'. The date is still 'Friday, 4 January 2008'.

The sidebar map now highlights the county of Fermanagh. The main content area is titled 'Activities Search Results' and shows '26 Activities returned where Sector is "Transport" and county is Fermanagh'. It includes the same search filter for 'Activities per page: 25' and 'Order by: Start Year' in 'Descending' order. A list of 11 activities is displayed, each with a title, date range, and a brief description. The activities include:

- Community Transport Advice and Information Service** (Dates: 2005 - 2007)
- North/South Driver Training project** (Dates: 2004 - 2008)
- INTERREG Rural Roads Infrastructure project** (Dates: 2004 - 2008)
- Cross-Border Driver Training Scheme** (Dates: 2003 - 30 June 2004)
- Rural Roads Infrastructure and Tourism project** (Dates: 2003 - 2005)
- A509 Enniskillen/Belturbet road improvements** (Dates: 2002 - 31 December 2002)
- ICBAN / NWR/CG Joint Transportation Study** (Dates: 1998 - 1999)
- A509 Enniskillen/Belturbet road** (Dates: 1997 - 1998)
- R283 Killyclogher Western Approach Road** (Dates: 1977 - 1997)
- B127 Ummera Road** (Dates: 1977 - 1997)
- C431 Garvary School (at Derrylin)** (Dates: 1977 - 1997)


## People

The mapping application was expanded to include 'People' where someone referenced in the borderireland data base can be searched for by name or browsed as part of a list.

The sidebar map is applied to the People module, showing the distribution of people by their organizational locations. The list shows 2000+ people, sorted by last name. A visitor can browse down to the detail level for a selected person. With the accompanying interactive map, a visitor can select a county and refine the query to show only people within that county.

Name	Position	Organisation
1 <a href="#">Duchess of Abercorn</a>	Founder	The Pushkin Prizes Trust
2 <a href="#">Mr Nicholas Acheson</a>	Researcher	Centre for Voluntary Action Studies University of Ulster
3 <a href="#">Mr Roger Adair</a>	Manager	Donegal Energy Action Team (DEAT)
4 <a href="#">Mr John Adams</a>	Training Centre Coordinator	Ballymun Youth Action Project
5 <a href="#">Mr Harry Agnew</a>	Managing Director	Fred C Robinson Limited
6 <a href="#">Mr Bertie Ahern TD</a>	An Taoiseach	

In this example, the visitor has selected the county of Fermanagh, resulting in the list of people to be reduced from 2000+ to 73.

**borderireland**  [Login / Register](#) | [About Border Ireland](#) | [Feedback](#)

Welcome to Border Ireland, please login for full access

Your guide to cross-border activities in Ireland

You are here > [Home](#) > [Organizations](#) > Search Results Thursday, 10 January 2008

**ACTIVITIES**  
**PUBLICATIONS**  
**PEOPLE**  
**ORGANISATIONS**  
**FUNDING**  
**MEDIA CENTRE**

**People Search Results**

73 People returned  
 People per page:  Order by:

Page 1 of 3: [ 1 ] 2 3 [ Next ]

1 [Mr Trevor Armstrong](#)  
**Position :** Chairperson  
**Organisation:** Fermanagh Young Farmers' Club

2 [Mr Lesley Baillie](#)  
**Organisation:** Fermanagh Rural Community Network


3 [Ms Joy Baxter](#)  
**Position :** Project Manager  
**Department :** Working for Business Unit  
**Organisation:** Fermanagh College

4 [Ms Anne Beattie](#)  
**Position :** Lecturer  
**Organisation:** Fermanagh College

5 [Mr Nigel Brady](#)  
**Position :** Director  
**Organisation:** Western Regional Energy Agency and Network (WREAN)

6 [Ms Kate Burns](#)  
**Position :** Chief Executive  
**Organisation:** Irish Central Border Area Network (ICBAN)

The visitor can select another county from the map and see the resulted subset of people. The visitor can also, as usual, select an individual from the list and see the detailed record.

**borderireland**  [Login / Register](#) | [About Border Ireland](#) | [Feedback](#)

Welcome to Border Ireland, please login for full access

Your guide to cross-border activities in Ireland

You are here > [Home](#) > [Organizations](#) > Search Results Thursday, 10 January 2008

**ACTIVITIES**  
**PUBLICATIONS**  
**PEOPLE**  
**ORGANISATIONS**  
**FUNDING**  
**MEDIA CENTRE**

**People Search Results**

29 People returned  
 People per page:  Order by:

Page 1 of 2: [ 1 ] 2 [ Next ]

1 [Ms Caroline Brady](#)  
**Position :** Research Policy Officer  
**Organisation:** Border Regional Authority

2 [Ms Roseanna Clarke](#)  
**Position :** Manager  
**Organisation:** Maudabawn Cultural Centre

3 [Ms Helena Collins](#)  
**Position :** Secretary  
**Organisation:** Women Into the Network (WIN)

4 [Mr Brian Courtney](#)  
**Position :** Director  
**Organisation:** Diesel Engineering Services

5 [Mr Brian Daly](#)  
**Position :** Sales Manager  
**Organisation:** Agri-Gear Limited

6 [Ms Rachel Doherty](#)  
**Organisation:** Cavan Tourism

7 [Mr Savina Donohue](#)

## Organisations

The top level organizations page originally allowed the visitor to select browsing of cross-border organizations by name, full listing or by selection via a “hot map”. The mapping project substitutes the static hot map with the dynamic map. This provides not only visual consistency but dynamic change. If the underlying map data is improved upon, all dynamic maps will reflect this change.

The visitor can start the search by selecting to see all organizations or pick a county from the map and see the organizations for that county.

The screenshot shows the 'borderireland' website interface. At the top, there is a navigation bar with links for 'Login / Register', 'About Border Ireland', and 'Feedback'. The main header reads 'borderireland Your guide to cross-border activities in Ireland'. Below this, a breadcrumb trail indicates 'You are here > Home > Organisations' and the date 'Friday, 4 January 2008'.

The left sidebar contains a menu with the following items: ACTIVITIES, PUBLICATIONS, PEOPLE, ORGANISATIONS, FUNDING, and MEDIA CENTRE. The main content area is titled 'Organisations' and contains the following text:

In this section we provide a comprehensive database of organisations which have been involved in cross-border co-operation since 1980. You can search for any organisation by clicking a county in the map or by entering a keyword or location in the Search box. Each organisation's details include email, telephone, short decription, web address and a named contact as well as a link to all activities, publications and people associated with that organisation.

Below the text is a search box with the label 'Search for Organisations by keyword' and a 'SEARCH' button. There are also links for 'BROWSE ALL' and 'Advanced Search'. Underneath is a section titled 'Browse by County' with a map of Ireland where each county is labeled with a number representing the count of organizations. The numbers are: 183, 2, 335, 118, 72, 57, 188, 4, 48, 35, 37, 75, 9, 1, 5, 6, 22, 2, 3, 1, 8, 15.

At the bottom of the page, there is a footer with links for 'About Us', 'Contact Us', 'Acknowledgements', and 'Disclaimer', along with the copyright notice '©2007 Centre for Cross Border Studies'. Below the footer are several logos, including W3C (WAI-AA, XHTML, CSS), the Centre for Cross Border Studies, and logos for the European Union and the Special EU Programmes Body.

Shown below is the result of a visitor selecting the county “Fermanagh”, as highlighted in the sidebar map and as shown in the records to the right.

The screenshot shows the 'borderireland' website interface. At the top, there is a navigation bar with 'borderireland' logo and the tagline 'Your guide to cross-border activities in Ireland'. Below this is a breadcrumb trail: 'You are here > Home > Organizations > Search Results'. A sidebar on the left contains a menu with categories: 'ACTIVITIES', 'PUBLICATIONS', 'PEOPLE', 'ORGANISATIONS', 'FUNDING', and 'MEDIA CENTRE'. A map of Ireland is shown with County Fermanagh highlighted in green. The main content area is titled 'Organization Search Results' and displays '72 Organisations returned where County is "Fermanagh"'. It includes a search filter for 'Organisations per page: 25' and 'Order by: Name'. The results list includes:
 

- 1 **Age Concern Irvinestown**: Address: 3 Trony Lane, Ballinamallard, County Fermanagh, Northern Ireland. Description: Age Concern Irvinestown, a group of Age Concern Northern Ireland, is a voluntary organisation committed, though campaigning and ...
- 2 **Age Concern Roslea (Finn Valley Club)**: Address: Roslea Post Office, Roslea, County Fermanagh, Northern Ireland. Description: Age Concern Roslea, a group of Age Concern Northern Ireland, is a voluntary organisation committed, though campaigning and ...
- 3 **Balcas Timber Ltd**: Address: Laragh, Enniskillen, County Fermanagh. Description: Balcas is one of the UK's most advanced wood processing companies, with seven manufacturing and processing sites in Ireland, ...
- 4 **Ballinamallard Girl's Brigade**: Address: 73 Barragh Road, Ballinamallard, County Fermanagh, Northern Ireland. Description: ...
- 5 **Belcoo and District Historical Society**: Address: Railway Road, Belcoo, County Fermanagh. Description: The society has organised a heritage centre in the County Fermanagh town which displays local artefacts and provides ...
- 6 **Belleek and District Community Partnership**: Address: Unit 2, Craft Village, Belleek, County Fermanagh. Description: Belleek and District Community Partnership is an umbrella group for 18 smaller groups in the Belleek and Boa electoral ward. ...
- 7 **Belleek and District Development Trust Ltd**: Address: The Erne Gateway, Corry, Belleek, County Fermanagh, Northern Ireland. Description: The Belleek and District Development Trust was formed as a local community-based company in 1991, with the specific aim of ...
- 8 **Belleek and District Social Development Group**: Address: Unit 2, Craft Village, Main Street, Rathmore, Belleek, County Fermanagh, Northern Ireland. Description: ...
- 9 **Belleek Cross-Border Childcare Company Ltd**: Address: Station Road, Belleek, County Fermanagh. Description: A community run business, with a Board of Directors that offers childcare facilities to children up to the age of 12 from ...

The visitor can select another county resulting in the organization records refreshed on the right. The visitor can also select an individual organization and see its detailed record.

The screenshot shows the 'borderireland' website interface with search results for 'Cavan'. The breadcrumb trail is 'You are here > Home > Organizations > Search Results'. The sidebar menu is the same as in the previous screenshot. The map of Ireland now highlights County Cavan in green. The main content area is titled 'Organization Search Results' and displays '37 Organisations returned where County is "Cavan"'. It includes a search filter for 'Organisations per page: 25' and 'Order by: Name'. The results list includes:
 

- 1 **A. W. Ennis Ltd.**: Address: Ballyconnell Mills, Ballyconnell, County Cavan, Ireland. Description: A.W. Ennis Ltd. has been connected with the milling industry for over 250 years. A.W. Ennis operates from its two main sites, ...
- 2 **Agri-Gear Limited**: Address: Kells Road, Bailieborough, County Cavan, Ireland. Description: Agri-Gear Limited together with its sister company Wheeltrac have been supplying the Irish Tyre & Wheel markets through our ...
- 3 **Bailieborough Development Association Ltd**: Address: Barrack Street, Bailieborough, County Cavan, Ireland. Description: Founded in 1996 by a group of local people who were concerned about the social and economic situation of the area, the focus of ...
- 4 **Ballycloy Ltd**: Address: c/o Ballyhaise Development Association, The Square, Ballyhaise, County Cavan. Description: Ballycloy Ltd is the limited company managing the Ballycloy Suckler Calf Initiative launched in 1998 as a cross-border venture ...
- 5 **Belturbet Community Development Association**: Address: The Railway Station, Railway Road, Belturbet, County Cavan, Ireland. Description: Belturbet Community Development Association (BCDA) was established to promote the benefit of the inhabitants of North Cavan and ...
- 6 **Border Counties History Collective**: Address: Main Street, Blacklion, County Cavan. Description: The Border Counties History Collective began in August 1997 and has grown since to become a collective of 23 local history ...
- 7 **Border Regional Authority**: Address: Althara House, Cavan, County Cavan. Description: The Border Regional Authority was established in January 1994 to cover the counties of Cavan, Donegal, Leitrim, Louth, ...
- 8 **Cavan County Council**: Address: The Courthouse, Farnham Street, Cavan, County Cavan, Ireland. Description: Cavan County Council is responsible for the delivery of wide range of services including the provision of infrastructure ...
- 9 **Cavan County Enterprise Board**: Address: Cavan Innovation and Technology Centre, Dublin Road, Cavan, County Cavan, Ireland. Description: The strategic role of the CEBs is to stimulate economic activity at city/county level and to develop indigenous enterprise ...

## Future Possibilities

The approach taken in Mapping--I and Mapping--2 was to use in-house map data. In particular, this approach differs from integrating popular web-based mapping information, such as Google and Mapquest data in the following ways: (1) the GIS information can be built up in-house and specific to cross-border purposes; (2) map links can be controlled to provide further information where-as external maps are outward pointing destinations. However, there may be areas where in-house maps are not available and external maps are useful. One such example area is in the area of transport activities which deal with road segments, instead of point locations. External maps are well suited for showing roads. As a demonstration example, the screen below shows a listing of Transport sector activities.

The screenshot shows the 'borderireland' website interface. The header includes the logo and navigation links like 'Login / Register', 'About Border Ireland', and 'Feedback'. Below the header is a navigation menu with categories: ACTIVITIES, PUBLICATIONS, PEOPLE, ORGANISATIONS, FUNDING, and MEDIA CENTRE. A search bar is visible with the text 'You are here > Home > Activities > Search Results'. The main content area is titled 'Activities Search Results' and shows 254 results for the sector 'Transport'. A list of activities is displayed, including:

- 1 Community Transport Advice and Information Service** (Date/s: 2005 - 2007)
- 2 N14/N15/A5 Lifford to Strabane Road Scheme** (Date/s: 2005 - 2006)
- 3 A1/R1 Newry to Dundalk Link Road** (Date/s: 2005 - 2007)
- 4 INSTANT (Information and Management System for Multi-modal Transport, North and South)** (Date/s: 2000 - 2007)
- 5 Provision of Marine Safety Equipment at Londonderry Port** (Date/s: 2004 - 2006)

Selecting the activity “N14/N15/A5 Lifford to Strabane Road Scheme” shows an accompanying embedded road map:

This screenshot shows the detailed view of the 'N14/N15/A5 Lifford to Strabane Road Scheme' activity. The left sidebar remains the same. The main content area displays the following details:

- Activity Name:** N14/N15/A5 Lifford to Strabane Road Scheme
- Description:** The improvements to the Lifford/Strabane cross-border route include strengthening and widening of sections of the N14 and N15 routes where they come to meet the A5.
- Date/s:** 2005 - 2006
- Target Region:** Border
- Sector:** Transport / Roads
- Funded by:** EU Community Initiatives - INTERREG IIIA
- Amount(€):** 1,800,000
- Administered by:** National Roads Authority, Donegal County Council
- Contact Person/s:** Eugene O'Connor, Francis Coyle

Below the text is an embedded Google Map showing the project location. The map highlights the N14, N15, and A5 roads, with a red arrow pointing to the Lifford area. The map includes labels for various locations like Sixty Acres, Blackrock, Coolatee, Brado, Edenmore, Roslagier, Mung, Drumbooy, Lifford, Roundhill, and Town Parks. A 'View Larger Map' link is provided at the bottom of the map.



## Summary

Mapping I and Mapping II were developed to demonstrate how cross-border information can be linked to a mapping function. The benefit of both of these pilot projects as well as the output of Mapping II will be evident when this new function is fully integrated into the redesign of the borderireland web site.

The borderireland.info web site is a dynamic database-backed system containing an ever changing set of data about cross-border activities, organizations, news, and people. While predominantly text and numeric based, it lends itself to becoming more geographically visual.

The Mapping—II project integrates interactive, geographic, visual components into the system so that visitors can better understand the questions and answers they pose and receive as they browse the website. Creating this mapping function within the borderireland web site will create a ‘sustainable’ and dynamic mapping capability that will be constantly updated as new projects are entered.

The mapping function can also promote networking among cross-border organisations. This will become increasingly important as the dynamics and nature of cross-border cooperation shifts with the ongoing peace process. Organisations will need to strengthen their networking linkages among and between councils when developing projects that serve smaller catchment areas.