

Irish Software Innovation Network



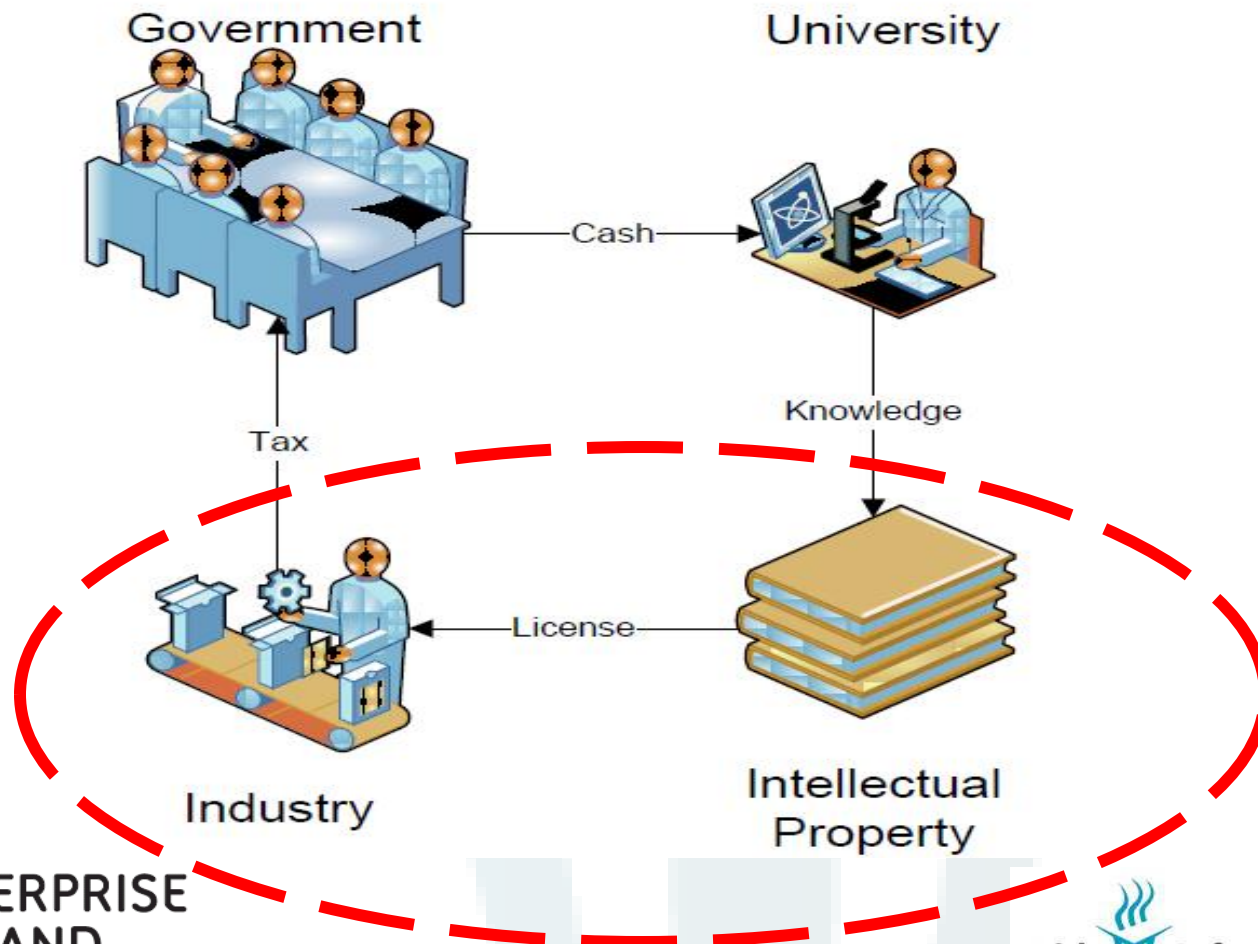
ISIN

www.isin.ie

Return on Investment



Knowledge Economy Cycle





Barriers to Collaboration

Collaboration Barriers



➤ Problems highlighted by Academia

1. Information on Companies and relevant technology areas
2. Cultural Gap - Expectation of Companies
3. Contract Research

Collaboration Barriers



➤ Problems highlighted by Companies

1. Lack of information on Research in 3rd Level Institutes
2. Multiple funding schemes, no consolidation
3. Multiple IP Licensing Agreements



WHAT IS THE IRISH SOFTWARE INNOVATION NETWORK?

About ISIN



- **Funded by Enterprise Ireland, managed by the Irish Software Association**
- **ISIN will facilitate and help Software Companies to identify and engage with relevant 3rd level research**
- **Provide advise on the Commercialisation Process including funding & IP licensing**



ISIN ROLE

ISIN Role



- **ISIN resource and ISIN web site to assist companies find the required technology, funding and other relevant information in one location**
- **Set up/Support Collaboration Clusters**
- **Organise Networking Events between Researchers and Companies**

How ISIN Works



- Meet the company and establish the company's requirements whether it is to solve a problem or find a new technology area
- Identifies relevant academic partners and set up meetings with the company
- Ongoing support, including progress monitoring, guidance and funding advice



Collaboration Clusters

Knowledge Transfer Barriers



- Companies need to look to knowledge sources outside as well as inside the company to successfully innovate

➤ Can improve Innovation by

1. Collaborating with 3rd Level Researchers
2. Joining Collaboration Clusters

Collaboration Clusters



- ISIN will help to form clusters of academics, indigenous software companies and MNC's to address particular problems posed by industry in a collaborative fashion
- Interest in **eHealth, eLearning, Mobile Apps** clusters
- First Cluster set up for wireless technology

www.wirelesslab.ie

Collaboration Clusters



Green IT Cluster

- Good progress. 32 companies registered
- Have 3 SIG's
 - City Smart supported by EI and IBM
 - Green Cloud supported by Microsoft
 - Green ICT championed by Tom Butler, UCC
- Working with EI and IBM to formalise the engagement in Dublin Smart City



ISIN Web Site

www.isin.ie

ISIN Web Site

www.isin.ie

215 Registered, 900 hits a month

- Catalogue of Research in each Institute
- Catalogue of Companies and technology area
- Funding/R&D Tax Credit guide
- IP Licensing guide
- Consolidated Events
- Collaboration – Clusters





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Machine Learning Group

Street Address

UCD CASL, Belfield Office Park, Cloneskeagh

Website Address

<http://mlg.ucd.ie>

Members of the Machine Learning Group are currently actively involved in the following research projects:

Sentiment Analysis

The MLG is conducting an experiment to gauge sentiment towards Ireland's economy in the Irish media. For this experiment we have developed a system that uses active machine learning techniques to dynamically monitor the balance between positive and negative economic news published in popular online Irish news sources.

Clique: Graph & Network Analysis Cluster

Clique is a Science Foundation Ireland funded (SFI) Strategic Research Cluster focussed on graph and network analysis and visualisation. Our industry partners, in this joint initiative are IBM, Ildiro Technologies and Norkom Technologies. Our academic partners are UCD and DERI at NUI Galway along with collaborating academics around the world.

Data Mining - Between Unsupervised and Supervised Techniques (DaM-BUST)

This project focuses on real-life applications for machine learning that do not fit neatly into the traditional distinction between supervised and unsupervised techniques. This research specifically involves the analysis of data from different application areas including *Bioinformatics* (genome & proteomics) and *Multimedia* (image & text).

One-Sided Classification and Inductive Learning (OSCAL)

In traditional supervised classification problems, *discriminating* classifiers are trained using positive and negative examples. However, for a significant number of practical problems, counter-examples are either rare, entirely unavailable or statistically unrepresentative. Such problems include industrial process control, text classification and analysis of chemical spectra. One-sided classifiers are emerging as a solution, which *characterize* the target class, to distinguish it from all other classes. Existing commercial machine learning products do not include this family of techniques. In this project we conduct research into new techniques for one-sided classification and produce a comprehensive toolkit for building one sided-classifiers, that can be incorporated into third-party products



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Computing systems & architectures

- o Oracle Corporation
- o Sogeti Ireland Limited
- o RaymondBrian
- o CLARITY centre:
- o Servecentric Ltd

Content management systems

- o Newsweaver
- o Fluid Rock Ltd.
- o Storm Technology Ltd
- o Ionic

Converging Technology & Science

- o Miso Technology

Data mining in complex sources

- o AW Phelan & Associates

Digital content technologies

- o Axceleon Ltd.

e-Community systems

- o New Media Med
- o Clarigen Ltd.

e-Learning

- o eMedia Interactive

Financial Services

- o KPMG
- o MoneyMate
- o KPMG

Healthcare

- o Realtime Technologies
- o PCTI Technologies
- o dabl ltd

ICT and Internet security

- o Invent -

Mobile applications

- o Tethras
- o DreamTec Software Limited
- o Sentry Wireless
- o Locle

Network infrastructures

- o HEAnet Limited

Participative web & networked collaboration

- o Arrange Your Exchange
- o EFM Expert
- o The TAS Group

Public Sector

Software engineering & data management

- o Umbrella Web Software Ltd.
- o Voxpro Communications
- o TreeMetrics
- o Informatica Ireland
- o PILZ Ireland
- o iSite Solutions
- o Interxion
- o Sage Ireland
- o Codec Systems Ltd
- o Knits Information & Solution Provider
- o Virtual Machinery
- o IBM
- o Danu Technologies
- o Engineers Ireland
- o StaffOrg.com
- o Buildtronics Ltd.

Telecommunications

- o Accuris Networks Limited
- o Oghma Services Limited

Virtual & Online collaborative systems

- o Brightidea Inc.
- o Daysha Consulting

Wireless



Statistics

Statistics from 2010 So Far



EI: Innovation Vouchers (750 in '09)

April Call: 213 (Standard)

20 (Fast Track)

EI: Innovation Partnerships: 16 (55 in '09)

IRCSET Graduate Scheme: 70 companies (80 in '09)

Companies



- **Contacted 85, Visited 54 companies**
- **Supported 18 companies**
- **12 company/academia meetings**
- **4 Innovation Vouchers in the April call**
- **Working with 3 MNC's**
 - **Mapped payment research for MasterCard**
 - **Currently working content management**

Network in Scotland



- A similar industry-wide network, set up in Scotland in 2005 has proved very successful
 - 238 company/academic collaborative projects initiated
 - 30 in software industry in '09
 - 60% of organisations seeking expertise have not collaborated previously with academia
 - 60% of enquiries are from Scottish SME's



Thank You

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