



Planning for a More Collaborative Construction Industry in Ireland

Presentation To

Engineers Ireland: CPD Meeting

Tuesday 5th March 2013

Presentation by:

Dr. Alan V Hore
Executive Director, Construction IT Alliance

Ralph Montague
Architect, Managing Partner, Arcdox
Co-Ordinator CITA LinkedIn Group

Agenda

Part 1 – The Questions

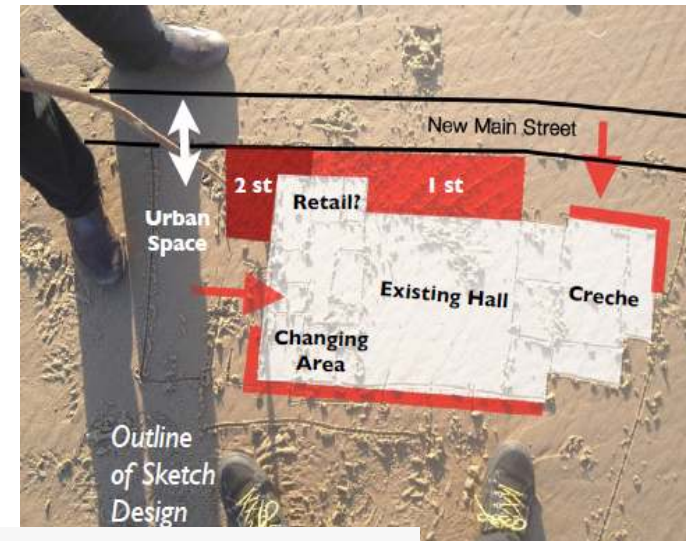
- What are the drivers for Collaboration?
- How can we Collaborate more?
- Who are CITA?
- What do CITA do?

Part 2 – The Solutions

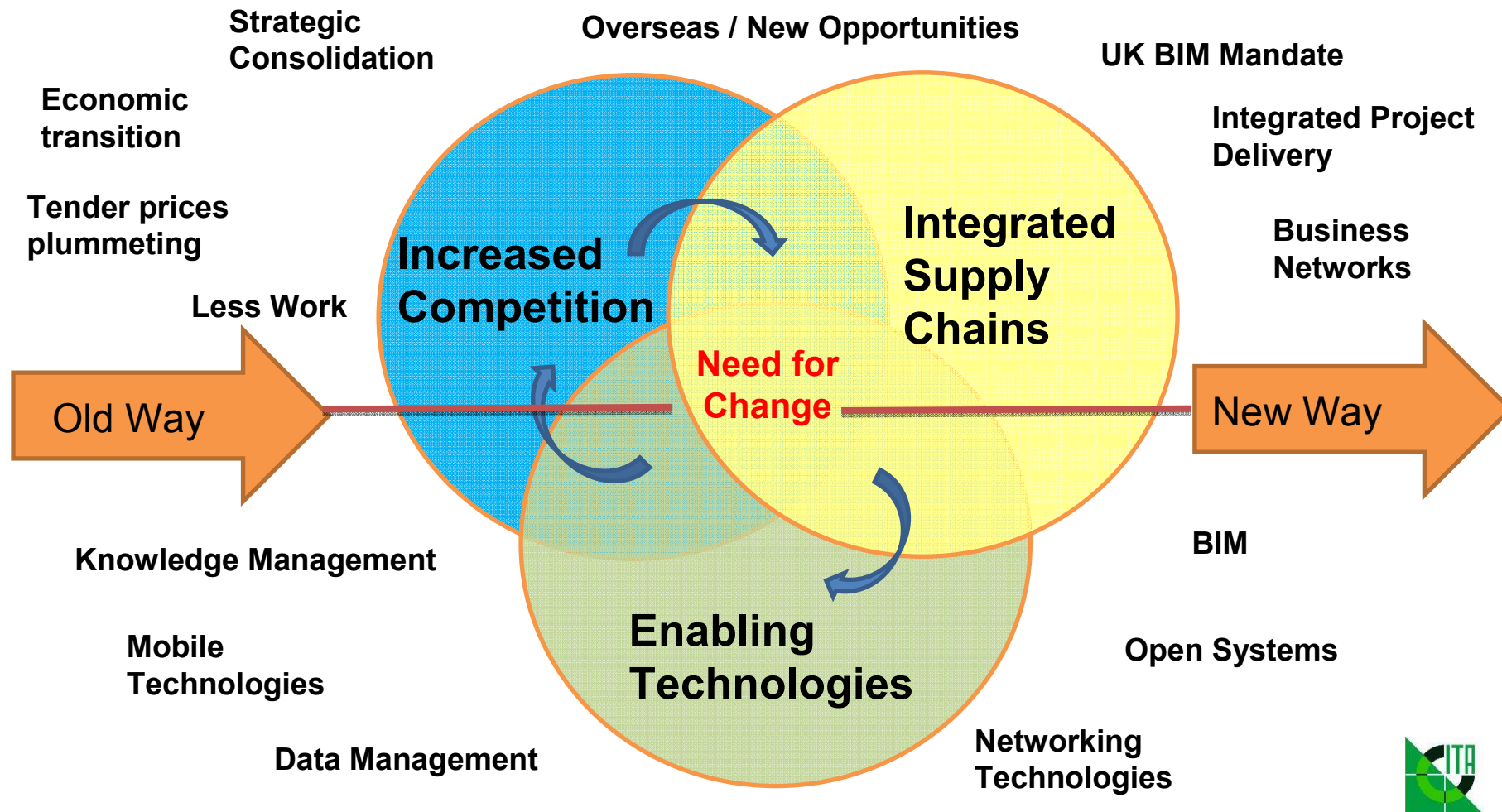
- BIM
- Free Tools

Part 3 – The Future

- Collaboration Standards
- Need for Technology Hubs
- One Alliance



What are the drivers for Collaboration?



How can we collaborate more?



**“Plovers and Crocodiles”
Symbiotic Relationship**



**Stronger Together than
Separately
CITA 2001**

*As an industry we can join together to
make possible that which cannot be
accomplished alone*

How can we collaborate more?

1. Have a clear/common goal in mind.
2. Create a results-driven networking approach for the goals we want to achieve.
3. Give each member of the network the autonomy to define their own role in the network.
4. Establish a communications system.
5. Establish ways to monitor performance and provide feedback.
6. Seek [consensus](#).
7. Above all be HUMBLE.



"Hold it! You can't all have the front seat!"

Who are CITA?

- ▶ Established in DIT 2001
- ▶ Promoting ICT in Irish Construction Industry
- ▶ Established network of 495 members.
- ▶ Operating MSc in Construction Informatics in partnership with DIT
- ▶ Funding to 2015 likely.

Ezines
Blogs
Papers
Seminars
Networking
Exhibitions
Surveys
Training
Education
Webinars
Conferences





What do CITA do?- Technology Breakfast Series

“CITA is the only organisation currently educating the stagnated construction industry”.

Thomas Griffin, T.J.O'Connor & Ass., Jan 2013

“CITA provide a forum to meet and exchange knowledge ... allowing Irish Industries to learn”
Peter Daynes, PJ Hegarty, Jan 2013





What do CITA do? - Pilot Projects

2013 Pilot Team



"VISION without ACTION is a DAYDREAM,
ACTION without VISION is a NIGHTMARE"

What do CITA do? - Education and Training



CITA SKILLNET TRAINING COURSES March 2013



Course Name	Course Date	Course Duration	Course Price Incl discount	Job Seeker Places
Revit Project Collaboration Workshop	4-8 March	5 Days	€520.00	Yes
GAS Installer Domestic Training	8-9, 14-15, 22-23, 28-29, 5-6, 12-13	12 Days	€1,039.20	Yes
Revit Architecture Essentials	11-13 March	3 Days	€380.00	Yes
Buildsoft 2D On Screen Take-off	12 March	1 Day	€196.00	Yes
Revit MEP Essentials	12-14, 26-27 Mar 2-4	6 Evenings	€760.00	Yes
Introduction to BIM Seminar	13 March	½ Day	€60.00	Yes
SBEM Non Domestic BER Training	19-20 March	2 Days	€765.00	Yes
AutoCAD AutoCad LT Essentials	19, 20, 25,26 Mar	4 Days	€760.00	Yes
Buildsoft Driving Licence	20 March	1 Day	€196.00	Yes
Mudshark Cut&Fill OnScreen Take Off	21 March	1 Day	€196.00	Yes
Revit Architecture	21, 22, 27, 28, 4,5,15,16	8 Days	€600.00	Yes
ArchiCad BIM Essentials	25-26 March	2 Days	€240.00	Yes
Revit Structure Essentials	25-27 March	3 Days	€380.00	Yes
Buildsoft 2D On Screen Take-off	26 March	1 Day	€196.00	Yes



What do CITA do?– Lobbying Role

CITA | Construction IT Alliance

BIM | Building Information Modelling | Ireland's Opportunity

Presentation To

GCCC | Government Construction Contracts Committee

Wednesday 2nd May 2012

Presentation by:

Dr. Alan V Hore
Executive Director, Construction IT Alliance

Ralph Montague
Director, Arcdox
Co-Ordinator CITA LinkedIn Group

Accompanied by:

John McGowan
Director, Construction IT Alliance

Barry McAuley
Phd Student
Dit Bolton Street

Wednesday 2nd May 2012



What do CITA do?– BIM LinkedIn Group

The screenshot shows the LinkedIn profile of the CITA BIM Group. The browser address bar displays the URL <http://www.linkedin.com/groups/CITA-BIM-Group-32>. The LinkedIn header shows the user is logged in as Suzanne Purcell. The group name is "CITA BIM Group" with a logo featuring the text "CITA sme em". Navigation tabs include Discussions, Members, Promotions, Jobs, Search, Manage, and More... A "Share group" link is also present.

About this Group

- Created: July 21, 2010
- Type: Networking Group
- Members: 2,998
- Owner: [Ralph Montague](#)
- Managers: [Suzanne Purcell](#) and [Patrick Slattery](#)
- Website: <http://www.cita.ie/>

Group Statistics

CHECK OUT INSIGHTFUL STATISTICS ON THIS GROUP

3,759 MEMBERS

Group Members in Your Network

- [Ciaran Treanor](#)
Technology Director at DANU Technologies
1st
- [Michal Dymet](#)
Technical Specialist AEC Infrastructure Industry at Datech
1st
- [Jan Penner](#)

The Windows taskbar at the bottom shows the system clock as 14:43 on 04/03/2013.



What do CITA do?– Bi-Annual Conference

Home :: The CITA BIM Gathering 2013 - Windows Internet Explorer provided by DIT Bolton Street


http://gathering.cita.ie/site/view/6/home/


File Edit View Favorites Tools Help


Home :: The CITA BIM Gathering 2013

LEVERAGING BUILDING INFORMATION MODELING TO CREATE CULTURAL AND LEAN TRANSFORMATION IN THE AEC SECTOR **2013**

Guinness Storehouse - 14-15 November 2013

 CONSTRUCTION INFORMATION TECHNOLOGY ALLIANCE





Conference

Home

Committees

Topics

Welcome to The CITA BIM Gathering 2013 - in Dublin, Ireland

The Construction IT Alliance are pleased to host an integrated 2 day BIM Conference as part of the Irish Government's 2013 Gathering Initiative

Leveraging Building Information Modelling to transform the AEC Sector

Start

4 Windows ...

3 Microsoft ...

2 Microsoft ...

http://www.c...

Home :: The ...

Search Desktop

23:29

BIM | Demystifying BIM

► How Do We?

- Create
- Manage
- Exchange

INFORMATION

CONSTRUCTION

DESIGN

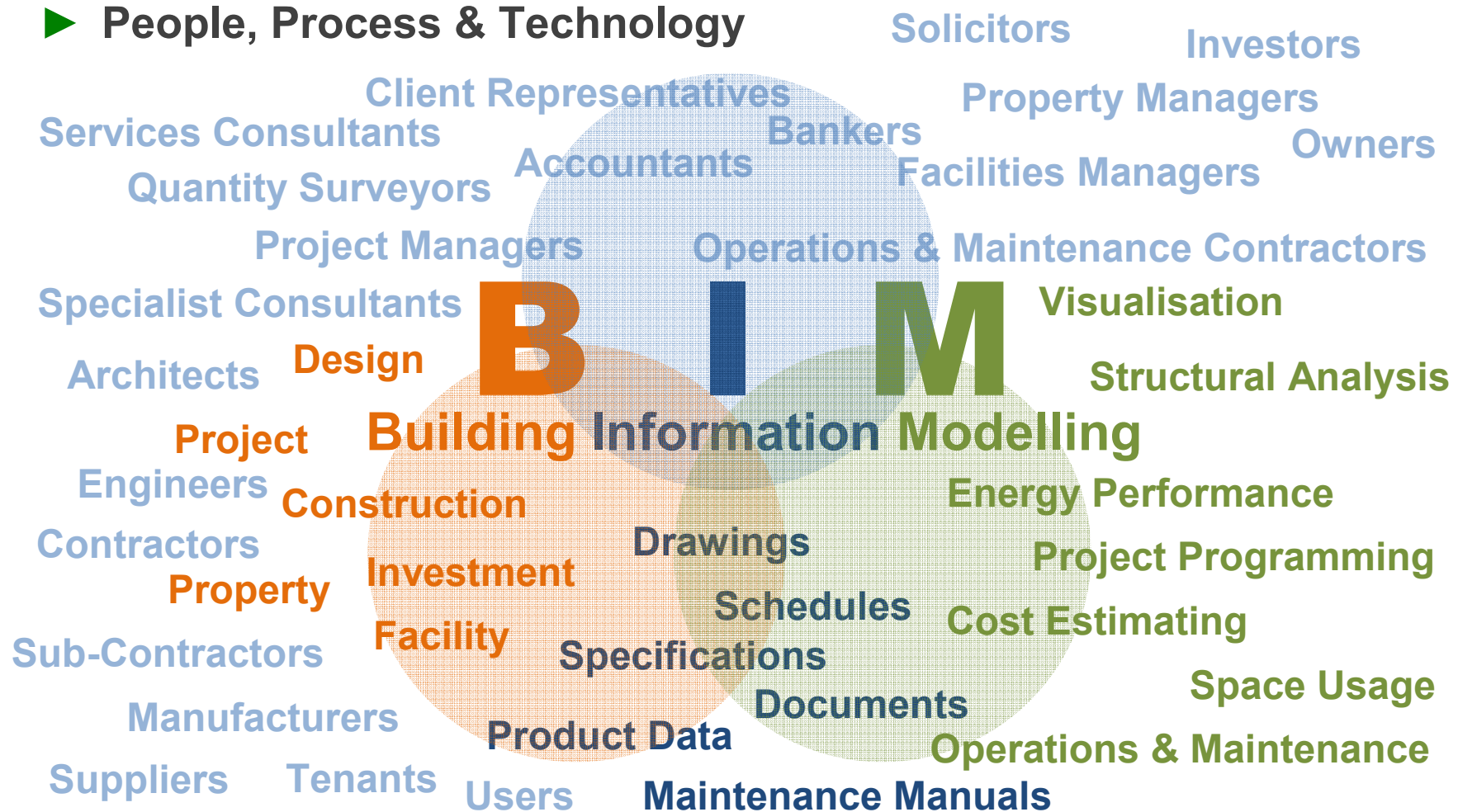


Paper “Currency”
Information
Transactions

OPERATIONS

BIM | Demystifying BIM

► People, Process & Technology

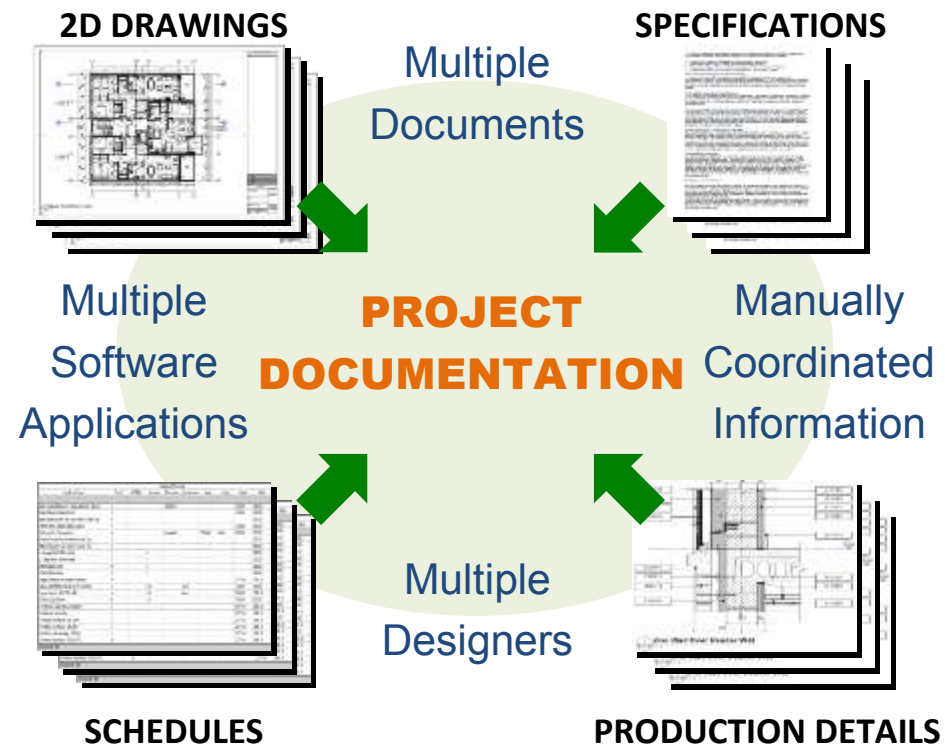


BIM | Demystifying BIM

► Address Inefficiencies of the Current Documentation Process

- Multiple Documents/Applications
- Manual Coordination
- Excessive Checking
- Prone to Human Error

- Labour Intensive
- Costly & Time Consuming
- Reduced Quality
- Increased Liability

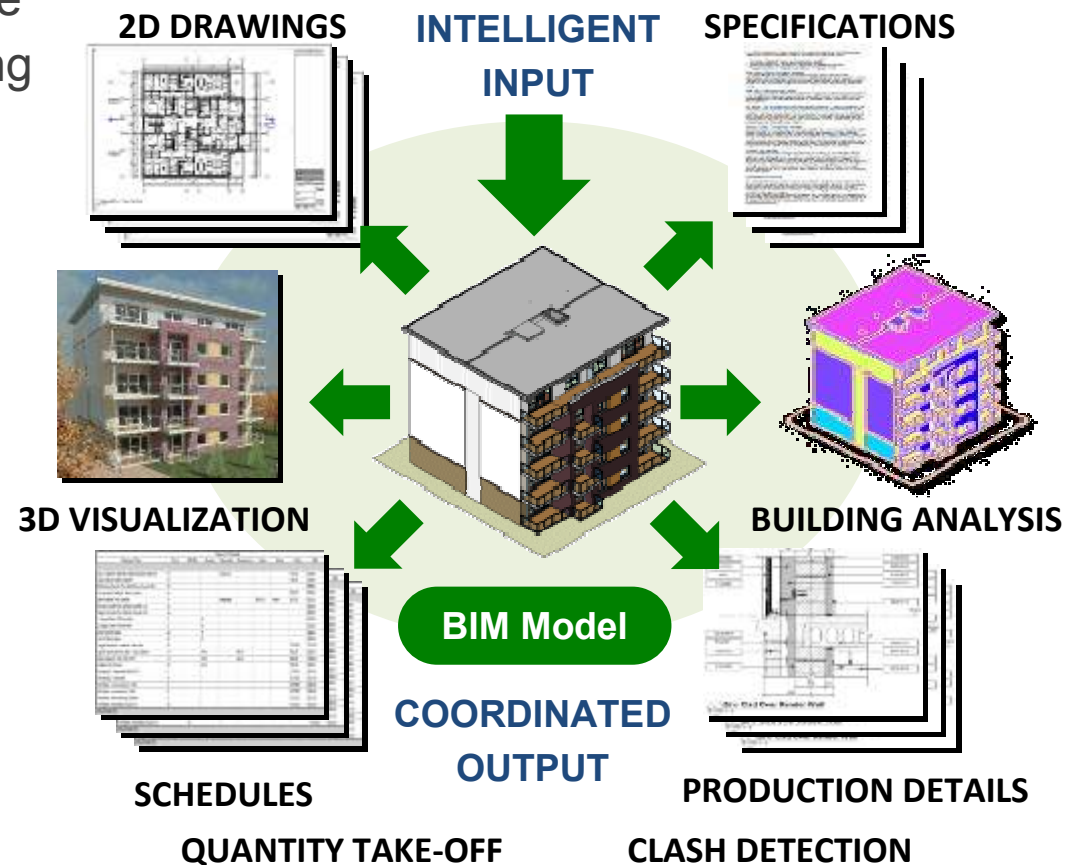


BIM | Demystifying BIM

► A New Process to Manage Building Information

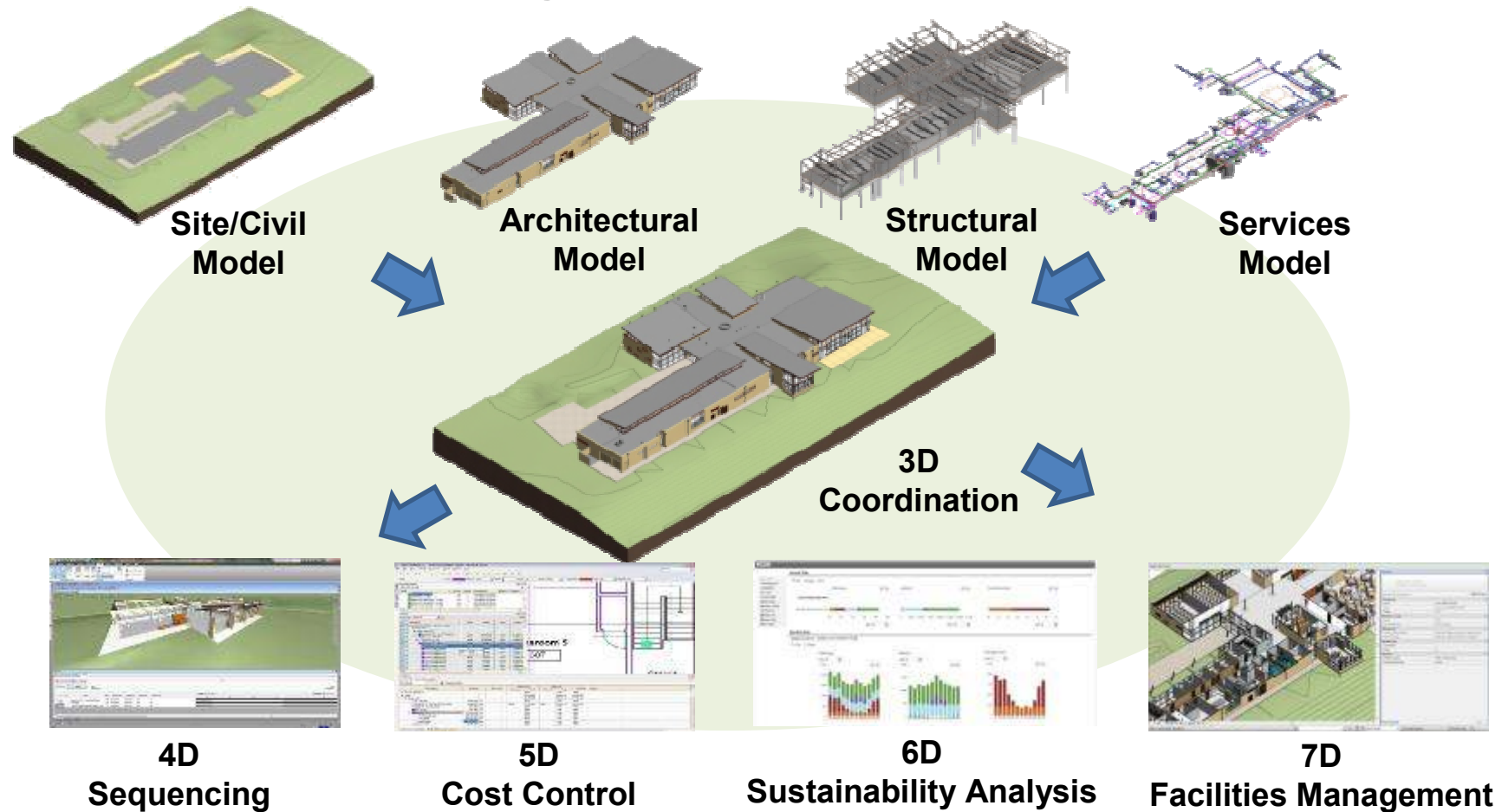
- Single Intelligent Database
- 3D Object Based Modelling
- Automatic Coordination

- Reduced Labour/Time
- Reduced Cost
- Improved Quality
- Reduced Liability



BIM | Demystifying BIM

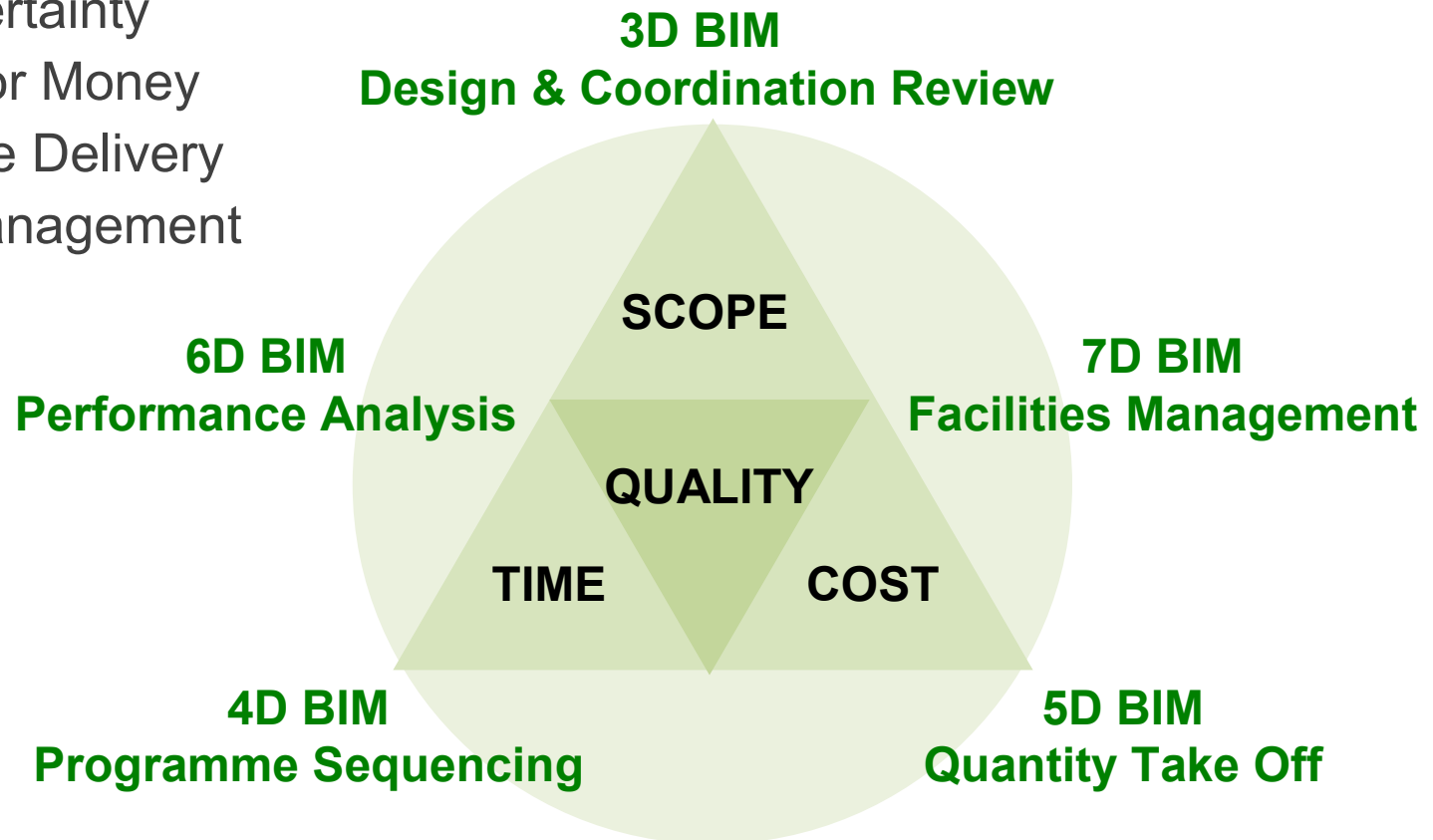
► Level 2 BIM – Sharing Models for Coordination Review



BIM | Demystifying BIM

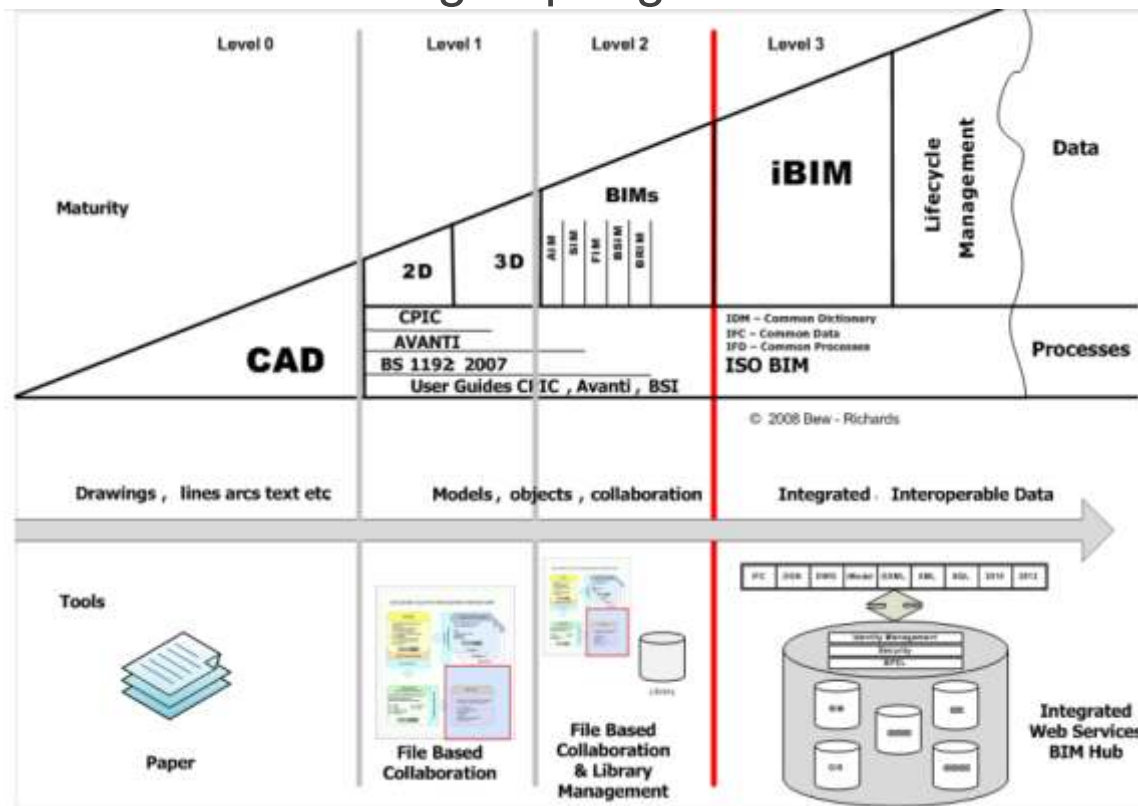
► BIM – Strategic Objectives of the CWMF

- Cost Certainty
- Value for Money
- Effective Delivery
- Risk Management



BIM | Demystifying BIM

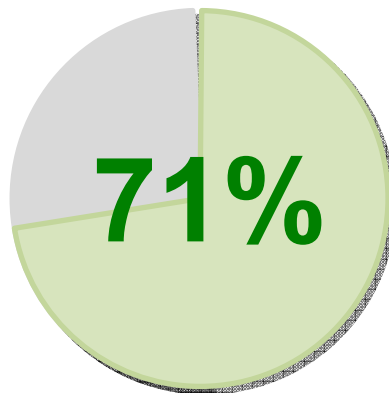
- ▶ **UK BIM Strategy 2011: BIM Mandatory on Public Project by 2016**
 - Minimum “Level 2” BIM, COBie Data Drops at Key Stages
 - www.bimtaskgroup.org



BIM | Demystifying BIM

► BIM Adoption Surveys

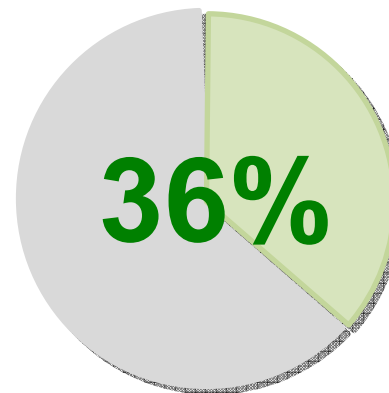
US



2012

McGraw Hill
Construction

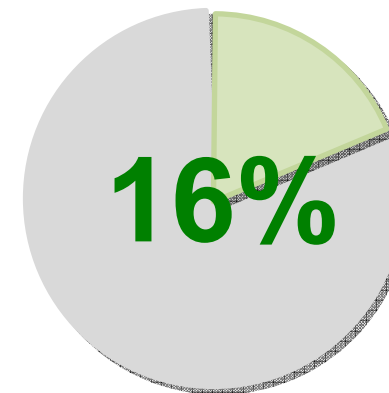
UK Germany France



2010

McGraw Hill
Construction
(31% NBS 2011)

Ireland



2011

RIAI BIM Survey

BIM | Demystifying BIM

► Implementation Strategy

- “Top-Down” Strategic Overview – Why is this Important?
- Company-wide Competency in “Free BIM Tools”
 - Open, Navigate, Review, Demonstrate, Query, Comment on BIM
- Identify Core Group and Competencies Required
 - Project Directors – Strategic BIM Understanding
 - Project Leaders (client facing) – BIM Review Tools, Execution Plans
 - BIM Champions – Expert in BIM Review & Modelling Tools
 - BIM Modellers – Expert in Modelling Tools
- Investment Strategy by Project/Team
 - Hardware Budget €10,000/person (BIM Managers/Modellers)
 - Software Allow 25% “learning time” over 3 months
 - Training Project Based Learning
 - Certification Demonstrating a BIM Competency



BIM | Demystifying BIM

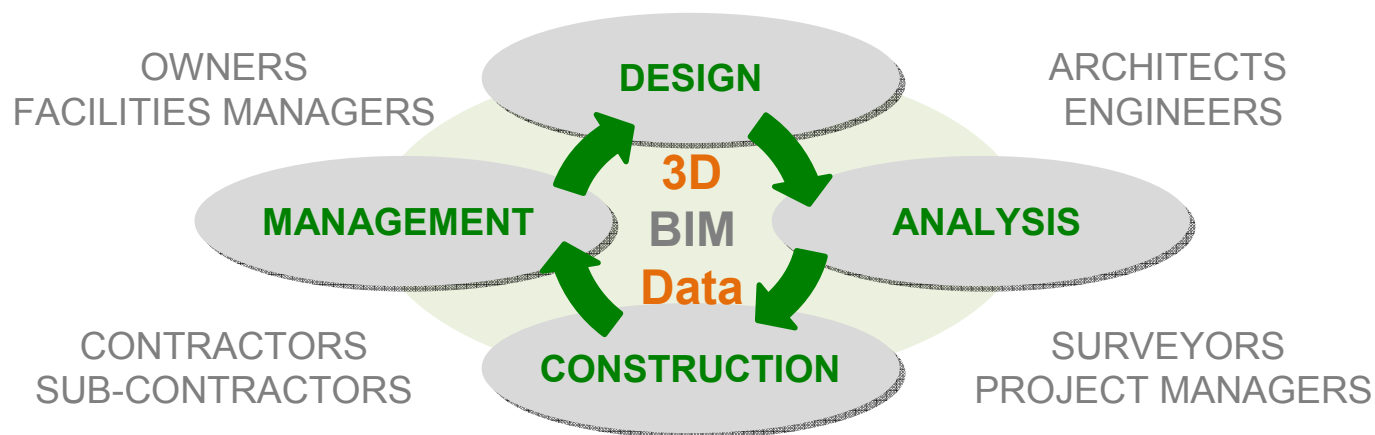
- ▶ **1st Steps – Go Digital (move away from paper)**
 - Better coordination & collaboration
 - Better management of comments and markups
 - Save printing/scanning, money & time

- ▶ **Demonstration of Free Design Review Tools**
 - Autodesk Design Review
 - Autodesk Navisworks Freedom
 - Autodesk DWG TrueView
 - Bentley i-Model Navigator
 - Graphisoft BIMx
 - Tekla BIMsight
 - Solibri Model Viewer
 - Nemetschek IFC viewer

BIM | Demystifying BIM

► Summary - Building Information Modelling

- A **Process** (not software) – Creating & Sharing Information
- Streamlined Workflows & Improved **Collaboration**/Communication
- Production of Coordinated & **Reliable Documentation**
- Reduced Uncertainty, Waste & Risk = **Better Outcomes**
- All About the **Information** – the “i” in BIM
- Used by **All Stakeholders** throughout the Projects Lifecycle



Collaboration Standards

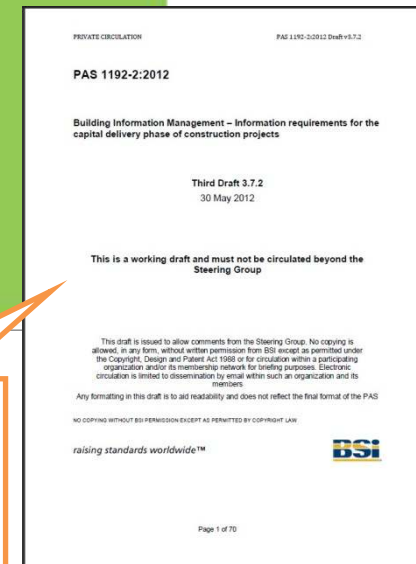
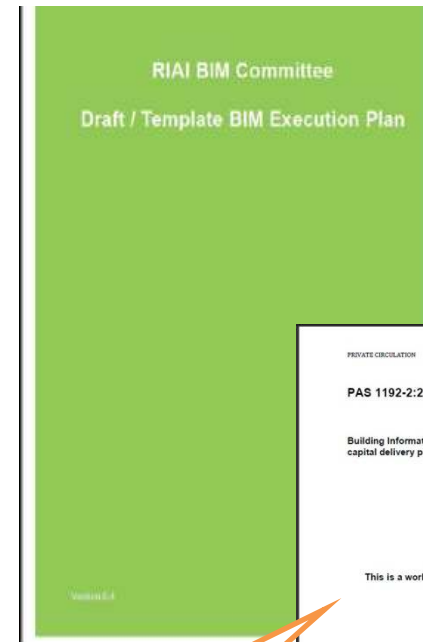
The significant body of relevant standards and legislation for BIM are being generated in the UK.

BIM is National Policy in the UK.

Part of the UK Government Construction Strategy.

The UK Government will require fully collaborative BIM by 2016.

Ireland needs to position itself to be able to compete.

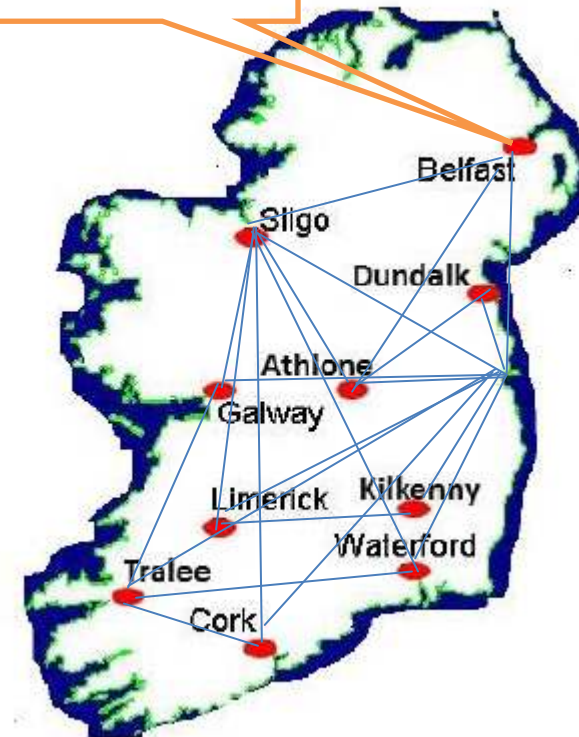


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CITA Technology Hubs

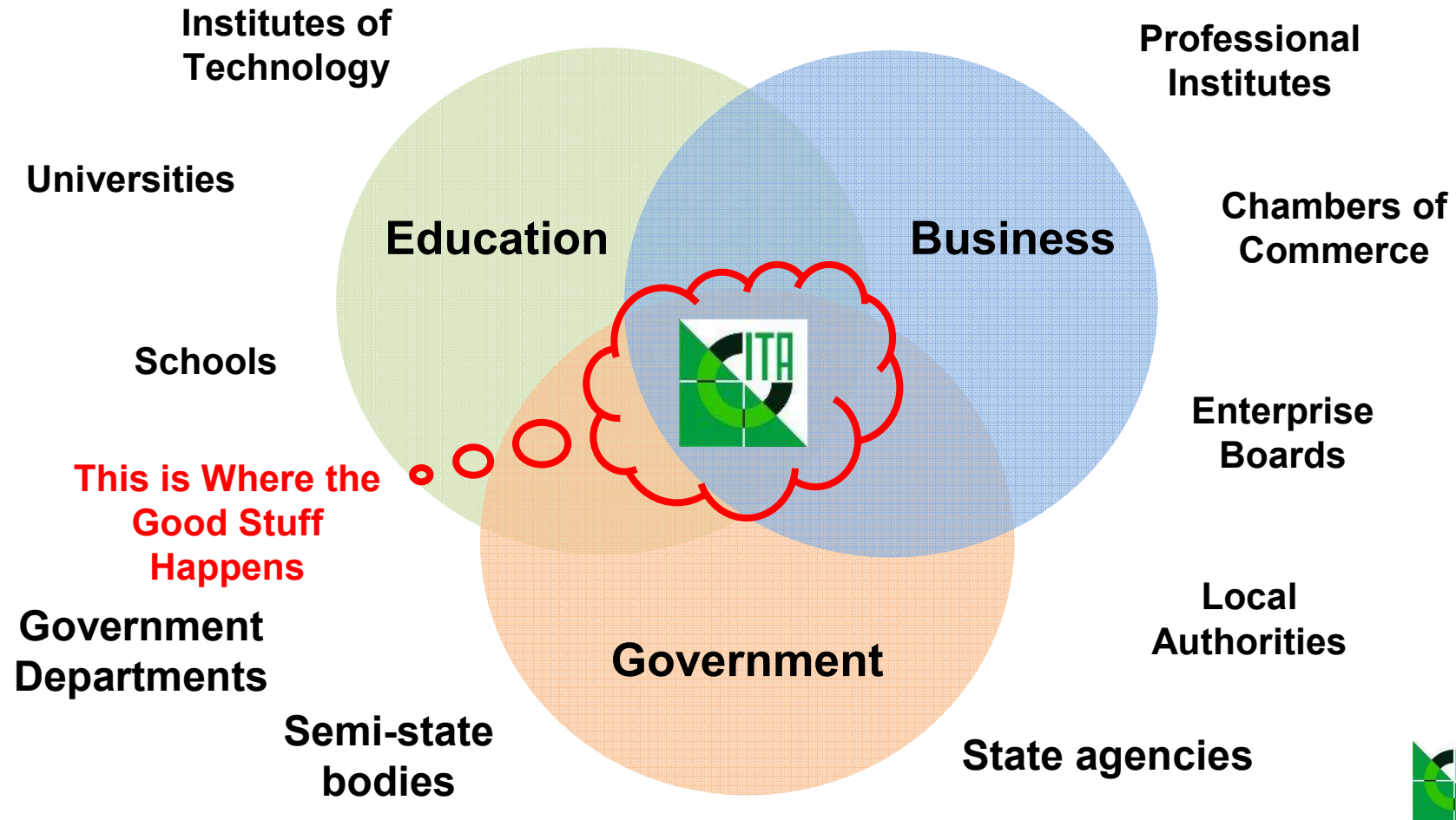
- Facilitate all island collaborative activity
- Act as a conduit for local engagement in national discussions
- Provide linkage with regional representative groups e.g. SCSi, RIAI, EI, CIOB, ACEI, etc...
- Act as a conduit for sharing knowledge and best practice with wider CITA network
- Secure representation on CITA management board
- Attract funding to local businesses

Link with NI BIM Hub





CITA – A “Meeting Place” for Collaboration





How to join CITA



or spucell@cita.ie

Annual Subscription for Micro SME (1-2 employees)			
Learn	Share	Connect	Full Package
CITA Skillnet Training Discount			CITA Skillnet Training Discount
	Information Resources	Information Resources	Information Resources
		Technology Breakfast Meetings x 10	Technology Breakfast Meetings x 10
€ 50	€ 80	€ 225	€ 275



One Alliance



One Alliance – One Message – One for All



THANK YOU QUESTIONS AND ANSWERS