Building Shared Services around Infrastructure including Data Centres

Barry Lowry
Irish Government CIO
February 2018

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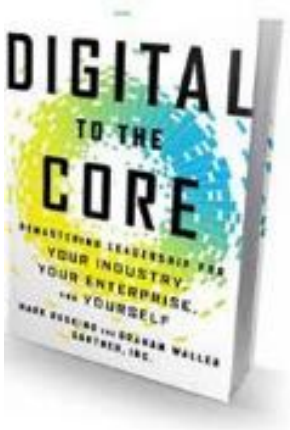
Our Digital Challenge!

"*Go Digital or Go Home*"

Mark Raskino (Gartner)



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And whatever happened to …….

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The big picture

- The dot ie Digital Health Index has risen to 49.0, the highest ever score. This has been driven by Irish SMEs' increased use of digital assets, particularly social media and data analytics.
- SMEs are also more confident in the quality of their digital assets, versus their competitors, and their contribution to business.
- Despite these improvements, most SMEs (60%) are still not engaging in e-commerce. This is at a time when Ireland's e-commerce industry is expected to grow to €14bn by 2021. Unfortunately, about 60% of this is going overseas.[3]

Irish SMEs' online presence

- Two-thirds of SMEs have websites, 62% have a Facebook account (up from 50%) and 17% have data analytics capability (up from 7%).
- Almost 1 in 5 SMEs have no digital assets whatsoever—neither website nor social media presence.
- However, micro-businesses with a website make on average an extra €26,825 a year.
- Only 34% of SMEs can take online payments and only 32% can accept an online reservation.
- 18% of offline SMEs can't go online because of poor internet infrastructure.

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"*Europe's economy needs to overcome this fragmentation in online markets to make the most of the opportunities offered by new emerging technologies, along with the chance to generate economic growth and employment."*

"*The successful establishment of a DSM could generate €415bn a year."*

"*The industrial revolution of our time is digital. … As companies aim to scale up across the Single Market, public e-services should also meet today's needs: be digital, open and cross-border by design."*

European Commission VP Andrus Ansip (February 2017)

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"We cannot continue to be a Blockbuster Government serving a Netflix citizenry."

Scott Brison (Secretary of the Treasury Board of Canada) – FWD50 Conference November 2017

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How These Fortune 500 Companies Are Moving to the Cloud

ESTONIA, THE DIGITAL REPUBLIC

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Government doing digital is different because ……..

1. We don't pick and choose our customers;
2. We have LOADs of stakeholders;
3. We have LOADS of Legacy (unless we are Estonia!);
4. People losing their jobs is ALWAYS our problems;
5. It can therefore be REALLY hard to define success;

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Releases

Published on Thursday 27th July 2017

Minister of State O'Donovan announces eGovernment Strategy 2017-2020

Patrick O'Donovan T.D., Minister of State for Public Procurement, Open Government and eGovernment, today (Thursday 27th July) announced the publication of the eGovernment Strategy 2017-2020.

The new strategy has been developed to build upon the first eGovernment Strategy (eGovernment 2012-2015) with the aim of succinctly setting out the next phase for eGovernment in Ireland. The Strategy focuses on 10 key actions which cover a range of themes, including presentation of services, secure online identification, underlying infrastructure and appropriate skilling.

The new strategy also takes note of the contextual changes that have taken place in Ireland over the last number of years, such as technology innovation, a more 'joined-up' Civil Service, and developments across the EU, particularly in the areas of data protection, the eGovernment Action Plan and the Digital Single Market. It also recognises the progress that has continued to be made and the momentum that has been created by the Public Service ICT Strategy, and its 18-step delivery plan.

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Latest News

August 1st, 2017
Government funds 5,000 extra childcare spaces

July 31st, 2017
125 new jobs for Waterford

July 28th, 2017
Appointment of Chief Justice

July 20th, 2017
Taoiseach convenes first meeting of Government Security Committee

July 19th, 2017
Special Government Meeting

July 19th, 2017
Publication of Ireland's first statutory National Mitigation Plan

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Office of the Government Chief Information Officer

eGovernment Strategy 2017 – 2020: Key Actions

We will…

- … develop a Digital Service Gateway
- … maintain an overall Digital Programme plan overseen by our eGovernment Minister
- … develop our existing e-ID capability
- … develop similar plans to facilitate business and location identification
- … enhance our data-sharing capability
- … introduce legislation to support our data-sharing ambitions
- … continue to develop our Open Data portal
- … transform our “back office”
- … ensure appropriate governance is in place
- … ensure our people have the skills and capabilities to help us move forward

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Where Your Money Goes
The Irish Government's Expenditure Data
Explore Expenditure by Year
2017
2016
2015
2014
2013
2012
2011
2010
2009
2008
2007
2017 Total Expenditure: €68.7 billion
Social Protection
Health
Education
Justice
Agriculture
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Transport
Other

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MyGovID – Ireland's Online Identity Engine

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Ireland's Cultural Debate?

- Ireland must learn from UK data protection and ID disasters
  - Ditching of costly databases in UK suggests more care needed with public services card

  TJ McIntyre (lecturer in the UCD Sutherland School of Law, a solicitor with FP Logue Solicitors and the chair of Digital Rights Ireland) 28/09/17
- (the card) exemplifies a systematic disregard for privacy and data protection throughout the State
- **The common pattern in these cases is that fundamental rights are viewed as inconvenient obstacles.**

Public Services Card reveals State ignorance of data privacy issues

Karlin Lillington

Last Updated: Thursday, September 21, 2017, 06:10

Concern over the now infamous Public Services Card has been a slow build.

A very slow build.

The card was being discussed in the Dáil in 2005 – Fine Gael's Olivia Mitchell asked then minister for social and family affairs Séamus Brennan when such a card might be introduced. The card was formally launched in 2011. About 2.8 million people now have one.

As Minister for Employment Affairs and Social Protection Regina Doherty noted, the cards are now "mandatory but not compulsory", the difference between the two being about as thin as the skin of the current US president.

Significant cybersecurity risks evident in Public Services Card database

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DATA-SHARING AND GOVERNANCE BILL

Public Consultation

on

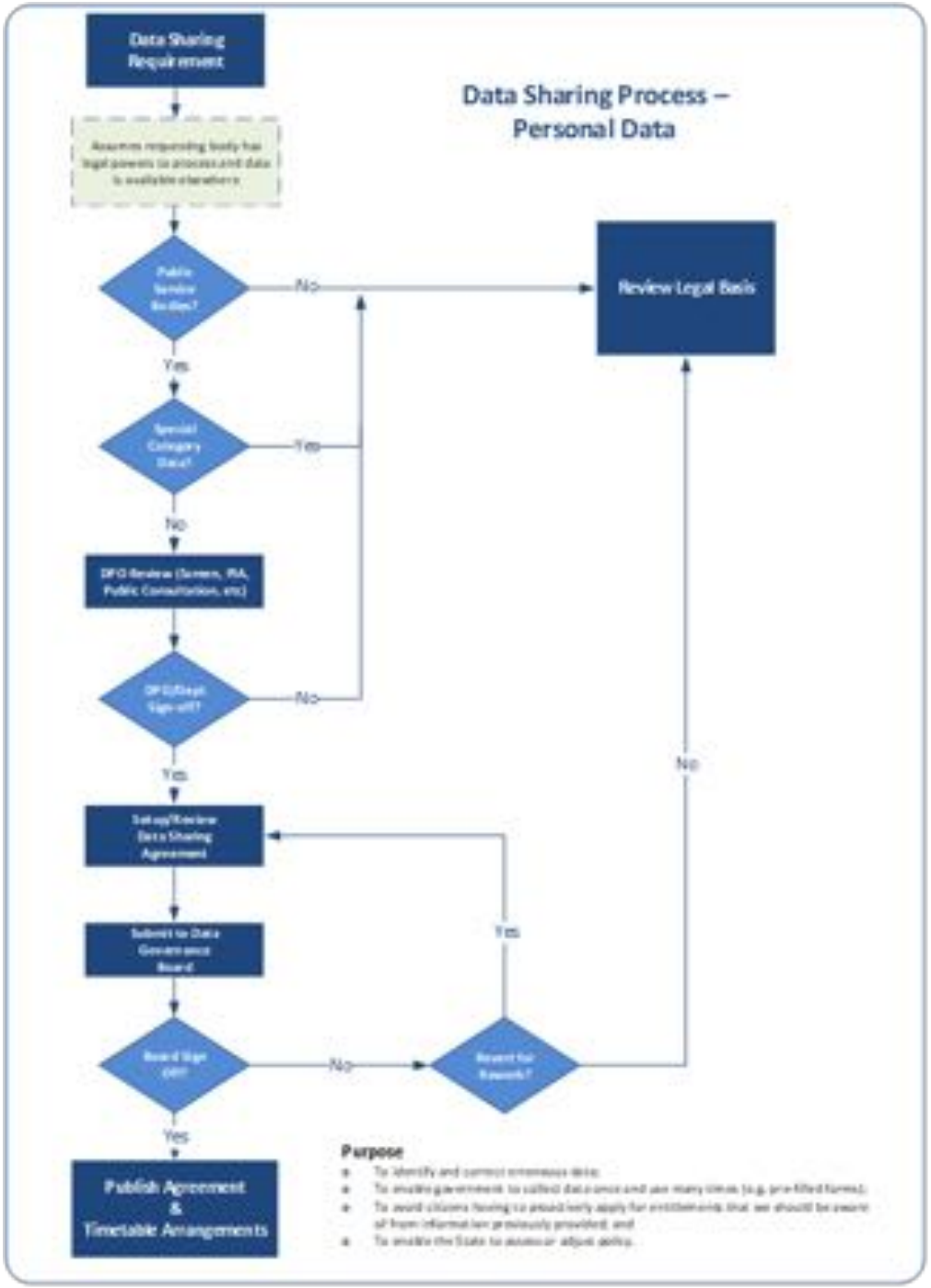
Data-Sharing and Governance Bill: Policy Proposals

In October 2013, the Department of Public Expenditure and Reform brought a Memorandum to Government setting out a series of actions to improve data-sharing in the public service. Chief among these was the development of the Heads of a Data-Sharing and Governance Bill.

On 1 August 2014, the Department of Public Expenditure and Reform published a policy paper entitled, "Data Sharing and Governance: Policy Proposals", which set out key elements of proposed legislation. Interested parties were invited to make submissions responding to the policy proposals. The Department received many constructive submissions, which are published below. The submissions received have contributed significantly to the development of policy on Data-Sharing, and the Department is very grateful to the respondents for their contributions to date.

On 24 November 2014, a public information event was held to discuss the outcomes of the consultation. The event was addressed by Robert Watt, Secretary General of the Department of Public Expenditure and Reform; Helen Dixon, Data Protection Commissioner; and Daragh O'Brien of Castlebridge Associates. This event allowed for useful discussion of the main policy issues from different perspectives.

Having considered the submissions received, the Department prepared a draft General Scheme of the Data-Sharing and Governance Bill. In July 2015, the Government approved the drafting of the Data-Sharing and Governance Bill along the lines of the General Scheme, subject to such drafting or technical amendments as may be agreed between the Minister and the Attorney General.



Data Sharing & Governance Bill

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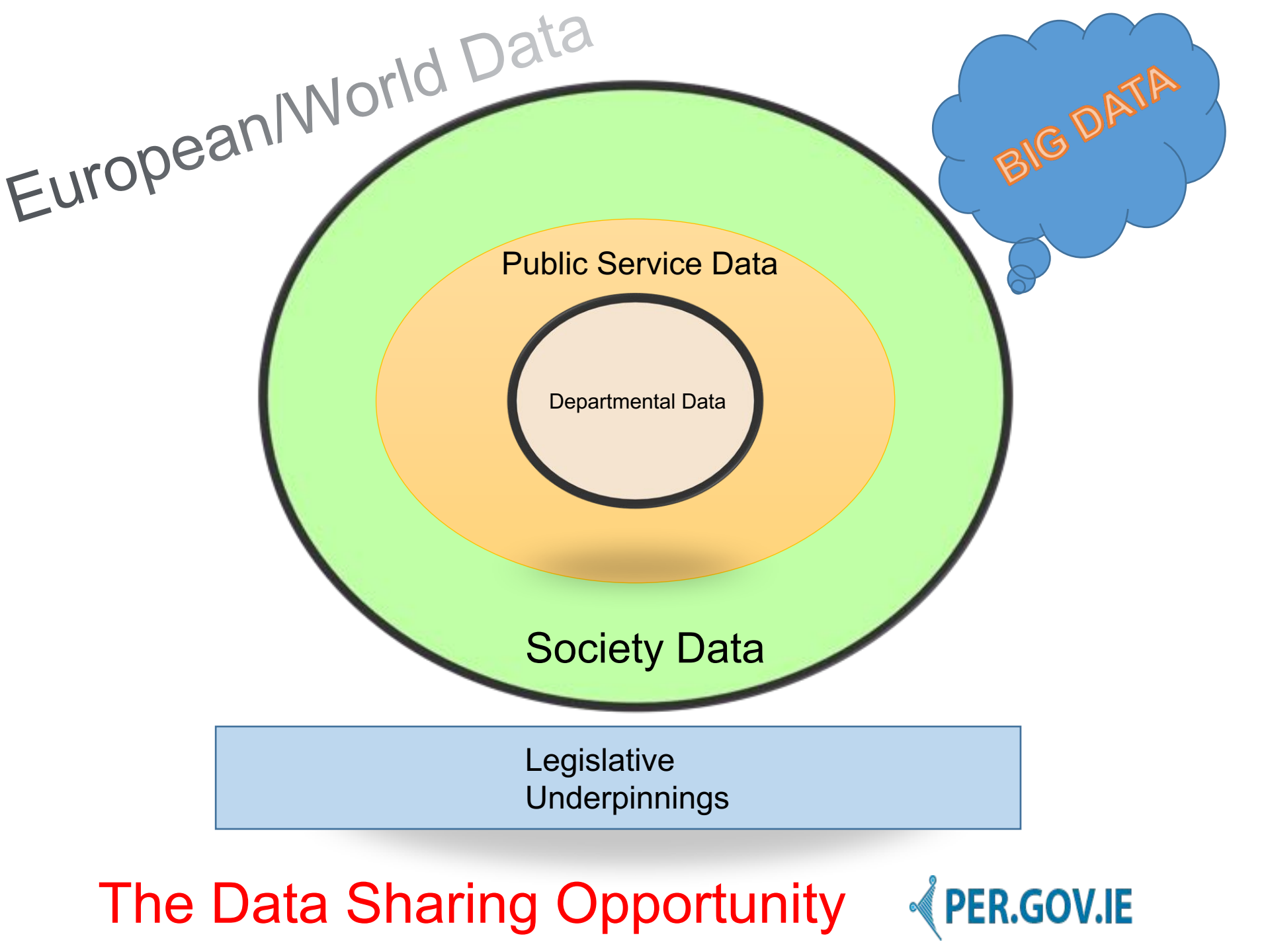

The Data Sharing Opportunity

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Digital Services

Data

Build to Share | Capability | Governance

A simplified way of looking at our Strategic pillars

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THE IRISH TIMES

Wed, Feb 7, 2018

Dublin 5°C

Ireland to miss environmental targets - EPA

Wed, Oct 8, 2008, 01:00

Ireland is set to miss key targets in tackling waste, carbon dioxide emissions and water quality, the country's environmental watchdog warned today.

Announcing its state of the environment report, *Ireland's Environment 2008*,the Environmental Protection Agency (EPA) warned that greenhouse gas emissions will exceed the proposed 2020 target by seven million tonnes.

As the influential body issued its fourth state of the environment report, director general Mary Kelly said progress had been too slow to date.

"We are not making headway and we are not progressing at the rate we need to," she said. "We have challenges on climate change, we have challenges on water quality and we have challenges on waste."

"Climate change has been identified as the greatest challenge facing this generation and the EPA projections underline the difficulty in addressing this issue," she said, urging Ireland to "rapidly" develop a greener economy.

The report said that major financial penalties will be incurred if the country fails to meet environmental protection obligations.

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Global Capacity
Microsite Strategy

Lowest $/MW, Rapid Deployment
Geo-independent design

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What's the problem?

"The cloud technology provides a good opportunity, but the state also wants to maintain the full control and jurisdiction of their data and systems. For this reason the private cloud services are not exactly suitable for us"

Siim Sikut – Estonian CIO

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So it’s about control, scale, people (and value for money)

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So it's about control, scale, people (and value for money)

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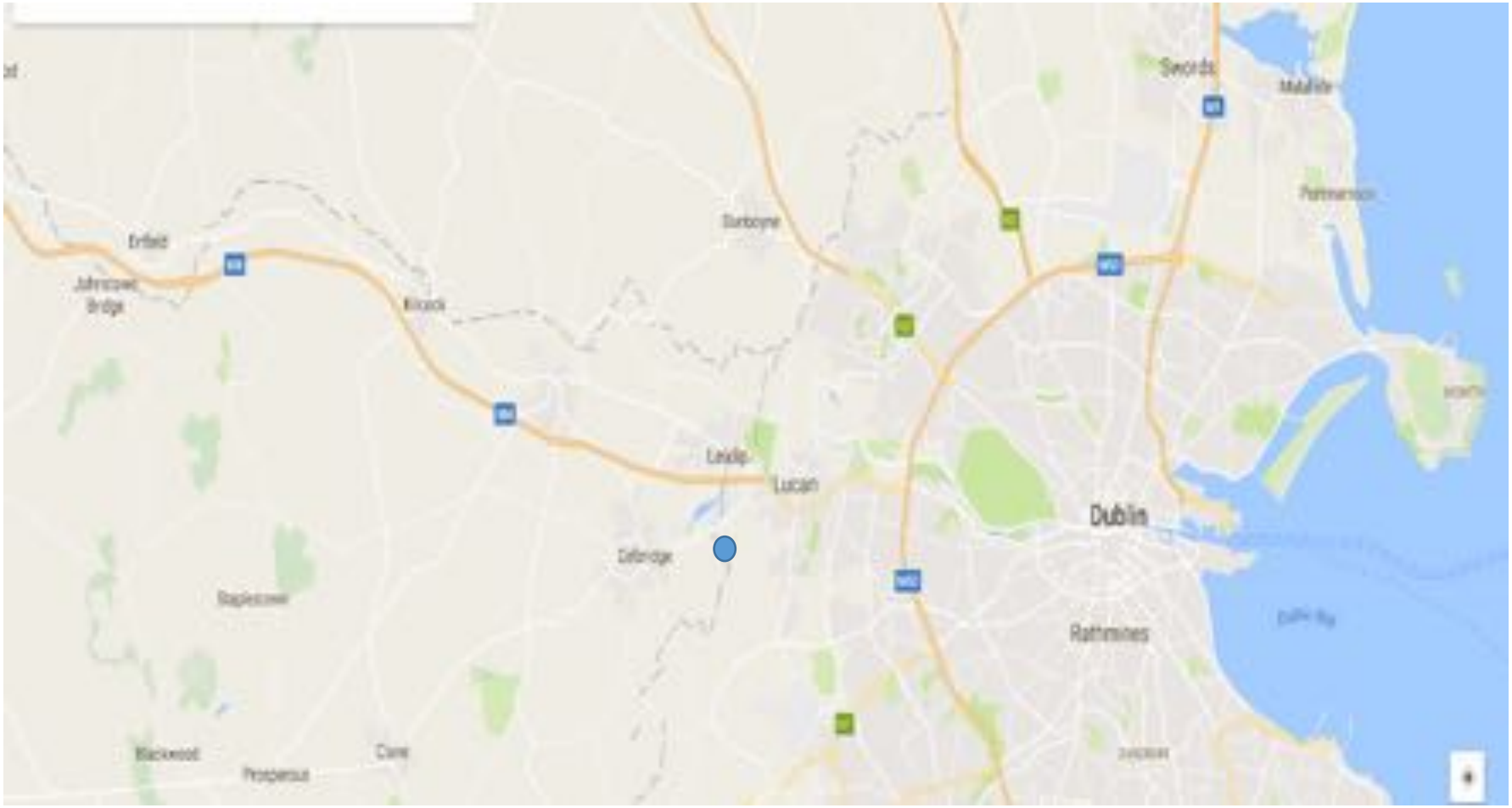
Eureca Assistance:

1. Assessing the true cost of baseline position;
2. Innovation in Data Centre design;
3. Assistance with cost estimation;
4. Advice on procurement;



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Initial “very conservative” business case

Cost over 20 years Cost Category	Do Nothing - "As Is" Cost in NPC terms	 Cost	Build a Data Centre in Backweston Cost in NPC terms	 Cost
1. DC Build Cost			**€26.18 m**	*€27.97 m*
2. DC Run Cost	**€98.14 m**	*€157.50 m*	**€76.55 m**	*€124.85 m*
3. DC Refresh Cost	**€1.36 m**	*€2.18 m*	**€2.83 m**	*€4.61 m*
4. Procurement Cost	**€278,049**	*€446,228*		
5. DC Migration Cost (only for Approach 3)				
6 Opportunity Cost of Prime Real Estate	**€8.83 m**	*€14.18 m*		
20 year total	**€108.61 m**	*€174.30 m*	**€105.56 m**	*€157.42 m*

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Approach to Professionalisation

- ✓ Under stand of the need for and role of internal ICT
- ✓ Proper career development structure
- ✓ Grades and Job Titles
- ✓ Innovative Recruitment
- ✓ Strengthened development and accreditation
- ✓ Recognition and Reward
- ✓ More co-ordinated management

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Thanks!

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