I have given a name to my pain and it is "ETL"

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Content

- Introduction
- The Data Warehouse presentation
- The Demonstration Data Warehouse
 - System Architecture
 - ETL and data risk analysis
- Tough Talk
 - Leadership
 - Don't shoot the messenger!
- Conclusions

University of Limerick

- 13,000 Students
- 1500 Staff
- 2 Main Campuses





The Vision (1997 - 2014)

"Use IT to support high quality operations and management throughout the university"

That was our vision in 1997 ...

it's still our vision ...

we still haven't managed it ...

Why can't we "Just do it"?

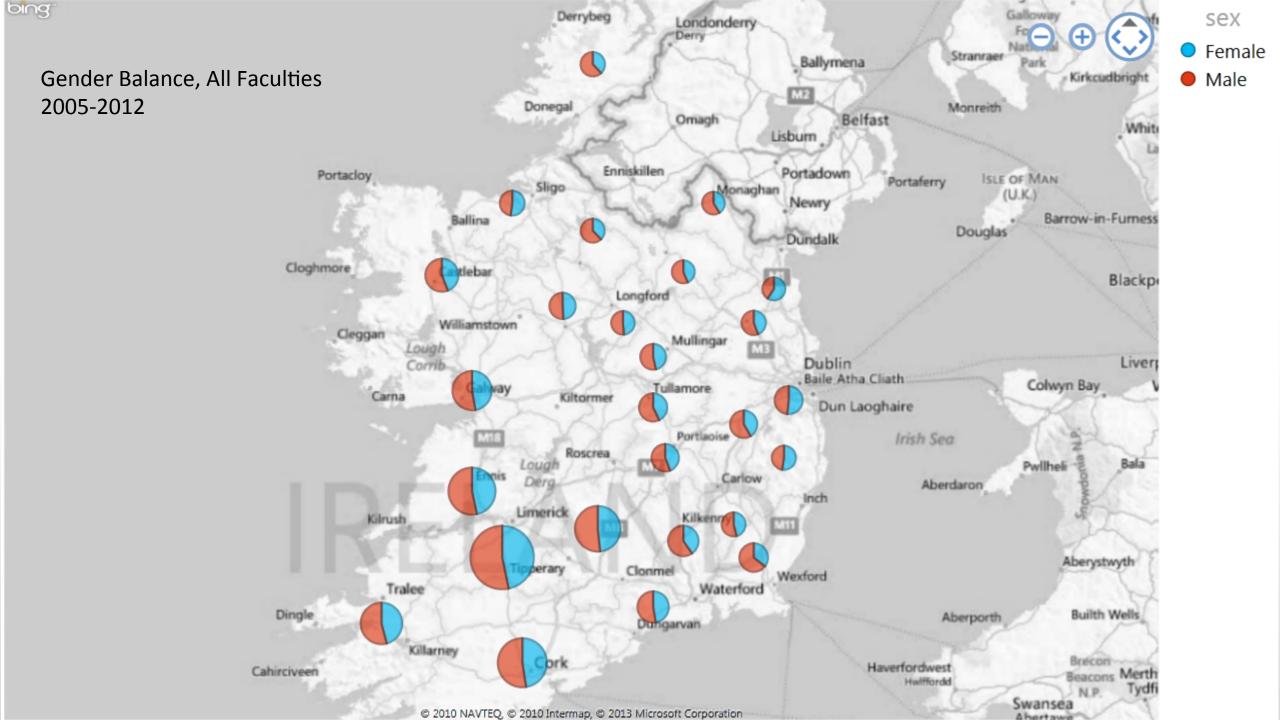
- Political Issues
 - Lack of buy-in
 - We can't afford to do this,
 - But we can't afford not to ...
- Technical Issues
 - Architectural Issues
 - Data Quality
- Industry solved all these years ago!





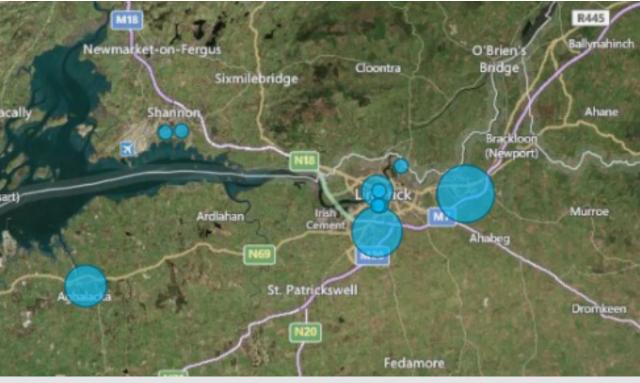
	CAO Students		Gender 🔻		
	Year	.,T	Female	Male	Year Tota
2005			388	163	551
□ 2006			369	167	536
□ 2007			410	195	60!
■ 2008			331	190	521
2009			255	176	431
2010			278	184	46
2011			289	149	438
□ 2012			300	203	50
Year Total			2620	1427	4047

Gender Balance, Humanities 2005-2012

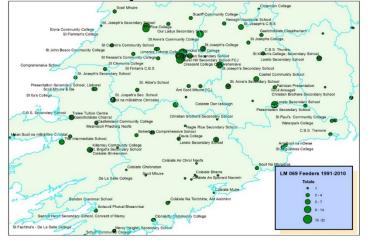


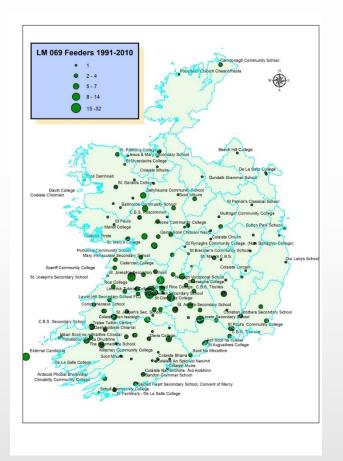


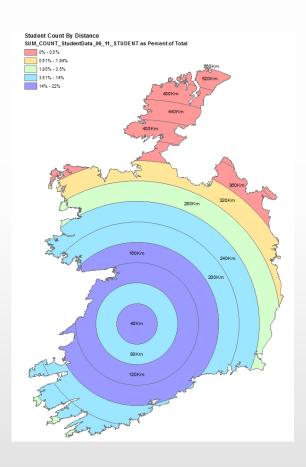
Feeder Schools, LM118 2005-2012



Gap between a demo and the real thing.

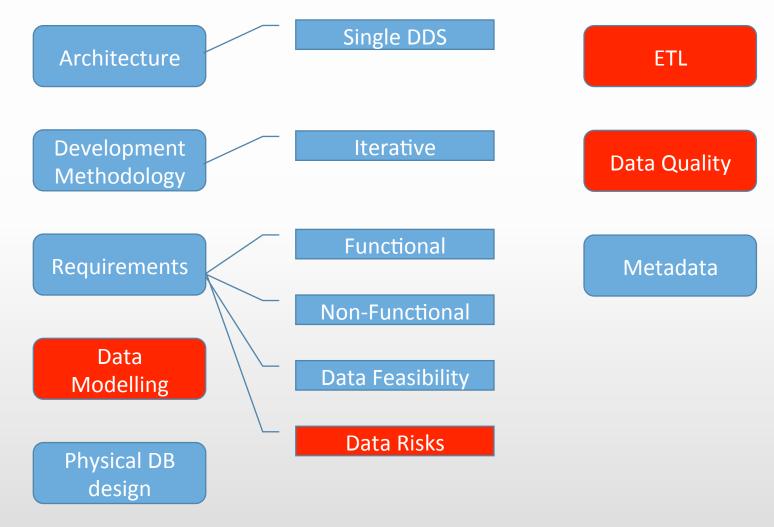




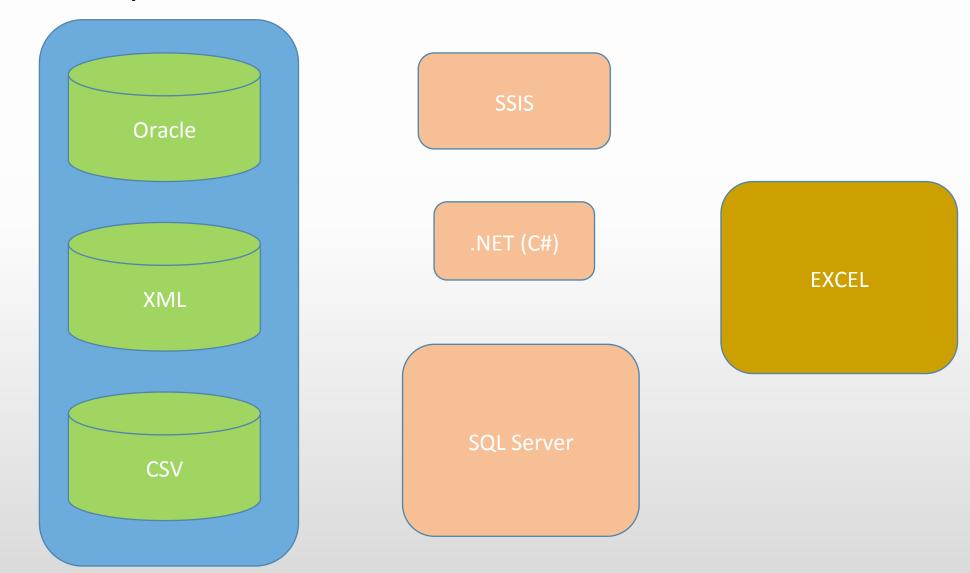


The gap in our case is the lack of a properly organised Data Warehouse

The Process According to Rainardi



The Component Parts



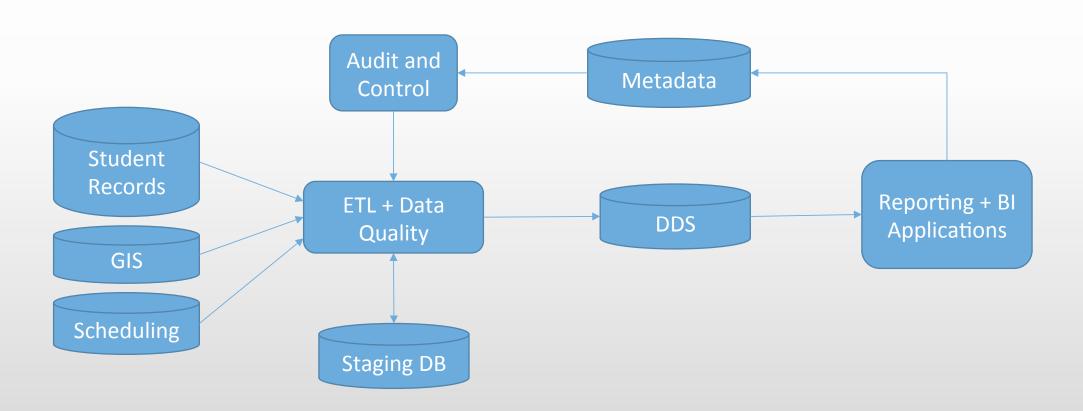
Microsoft and BI



- Microsoft are now a serious BI player
- Excel has become a serious BI tool
- Spreadmarts are still a seriously bad idea

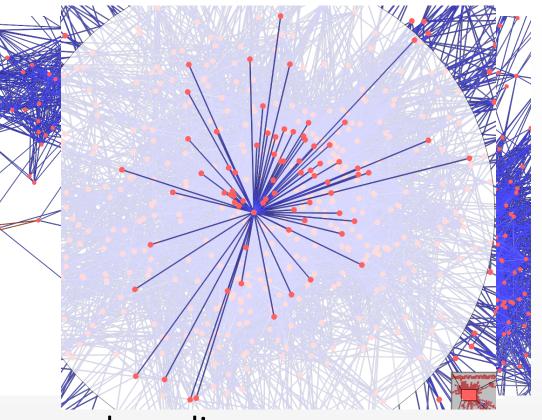
Our Simple Data Warehouse

Building a data-warehouse with examples in SQL Server – Vincent Rainardi



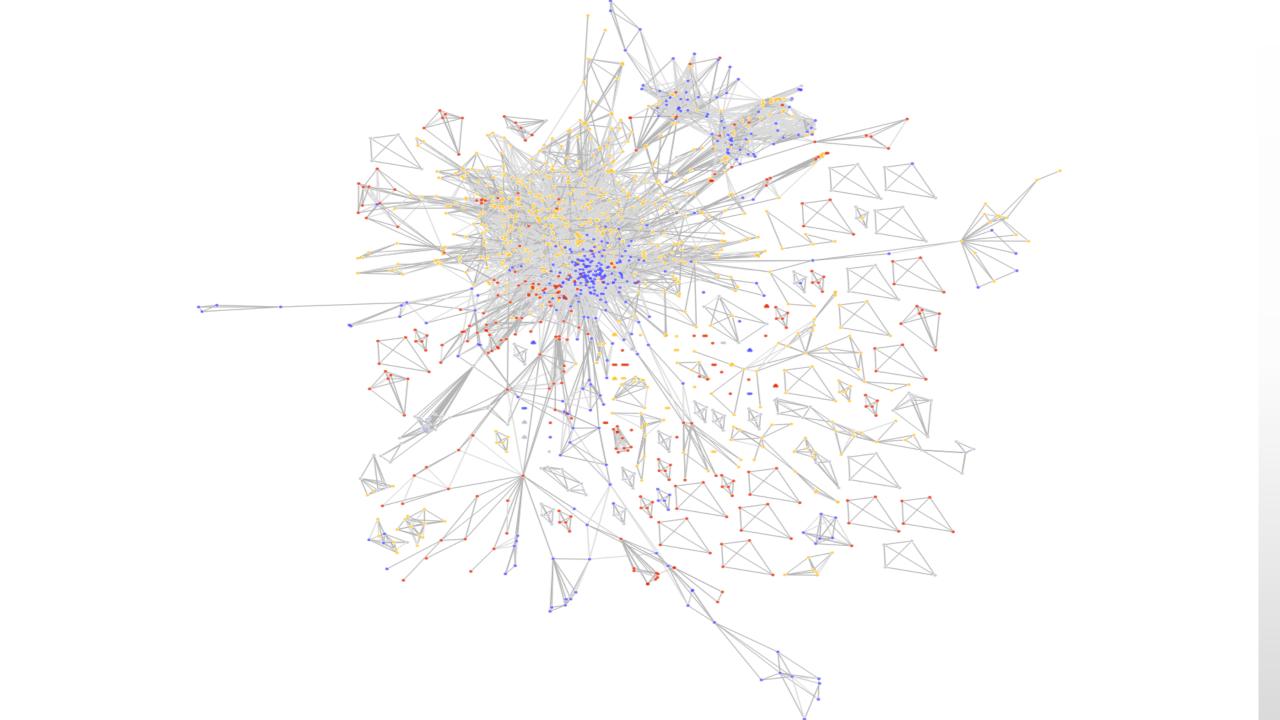
Data Risk and Feasibility

- Protects the institution ... from itself
- Highlights weaknesses
- Likely to cause short-term pain
- Necessary for long-term gain
- Can have much wider implications than people realise

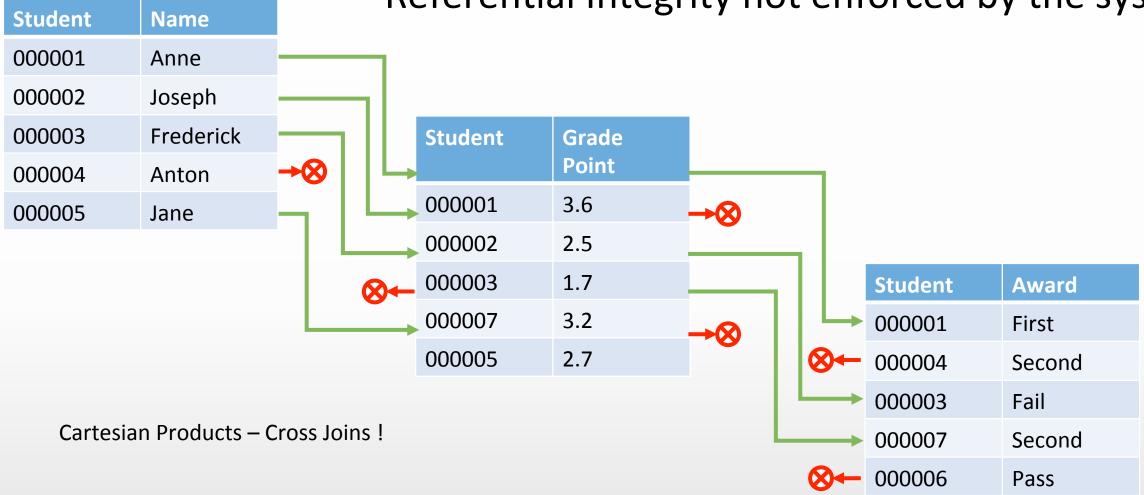


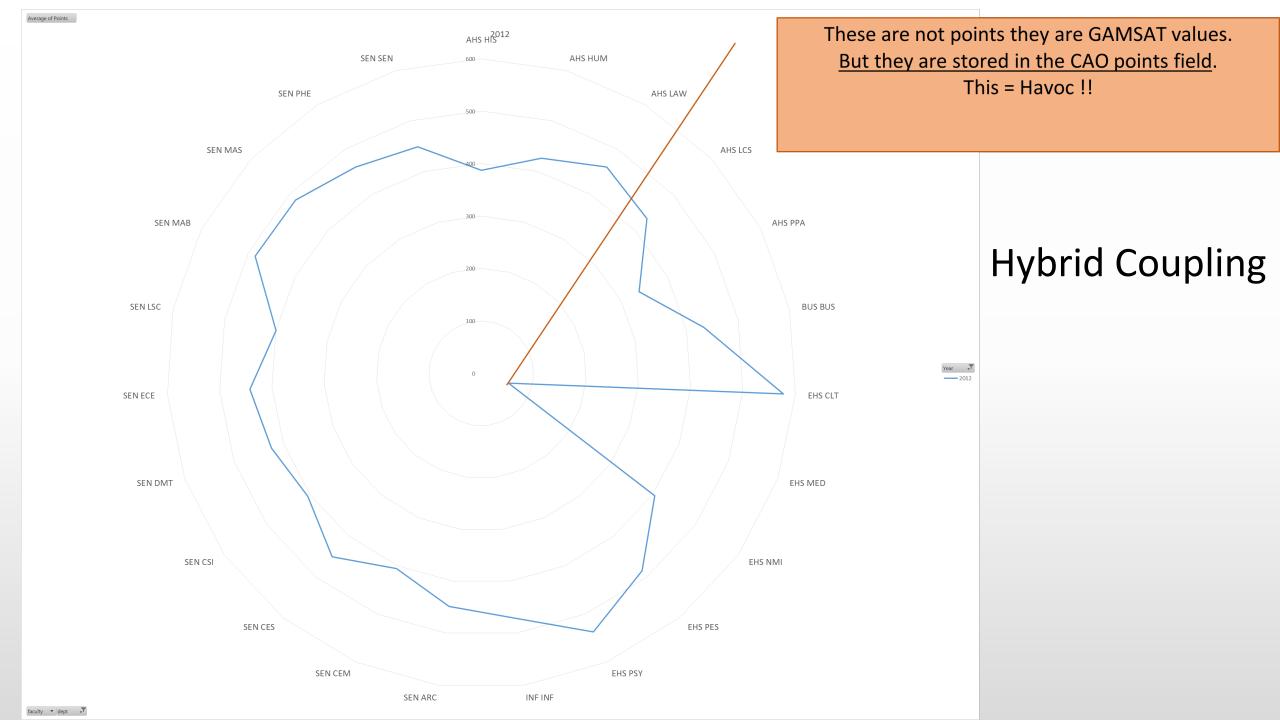
Elsa's Rule

"Don't talk to senior management until you can talk tough"



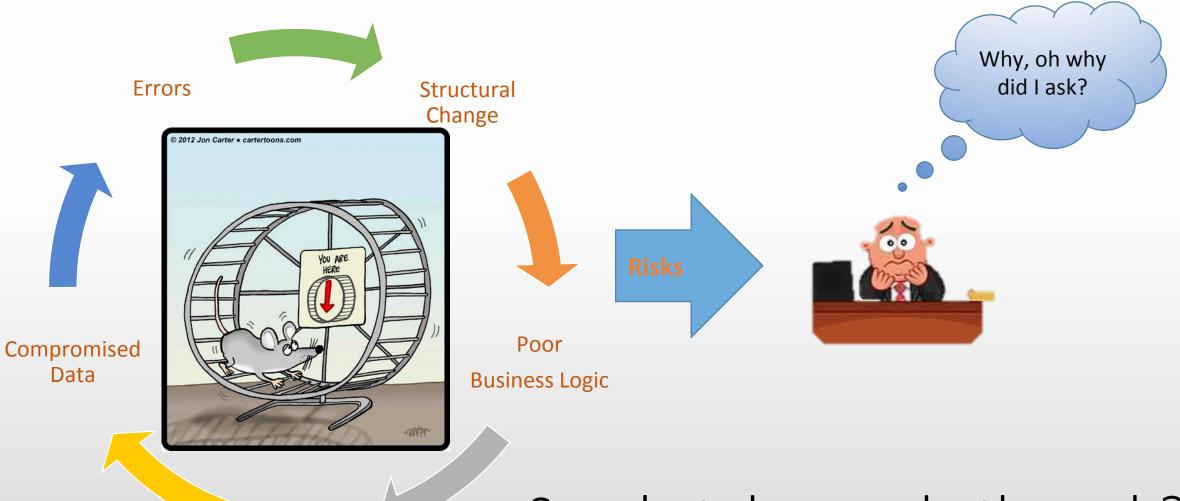
Referential Integrity not enforced by the system





It may not be a pretty picture ...

Manual Intervention



So what do you do then eh?

Talking Tough



"Us and them" will probably not help

There is a broad spectrum of people affected

- 1. Never surprise
- 2. Never delay
- Don't hide facts
- 4. Always write it down
- 5. Justify everything

- 6. Look for a silver lining
- 7. Bring solutions
- 8. Remember multiple audiences
- 9. Follow up and follow through
- 10. Treat people with respect and dignity

Lead from the front

How do we move people from stage 1 to stage 4?

Don't forget :

It's not only senior people who may be hurt by this.



Kübler-Ross model

Stage

State

Reaction

Conclusions

- Implementing a prototype DW is
 - Quick and Inexpensive
 - Likely to challenge your institution
 - A useful exercise
- Implementers need
 - To diplomatically address any issues that arise
 - Patience
- Sponsors need
 - To support their implementers
 - To be prepared to hear both positive and negative messages