<table>
<thead>
<tr>
<th>Small Data: Big Results...</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Smith</td>
</tr>
<tr>
<td>Head of Product Solutions – The IET.</td>
</tr>
</tbody>
</table>
Minutes downtime by month
2014-2016

[Graph showing minutes of downtime from January 2014 to July 2016, with peaks in May and July and troughs in March and November]
Two Birds – One Stone

• There was this ‘discussion’ between two business functions over how a product was doing...
• My team was fielding (and umpiring)
• At the same time I wanted us to improve our development approaches...
Eating Our Own Dog Food

• Just what are WE doing with all our agile time?
And Now, a Quick Advert for Power BI
If users are having trouble starting IDEAS then check the value
SEC_QAConfigParameter is present in the TableName in the table RefData_VersionControl.

```
IF NOT EXISTS(SELECT 1 FROM ADM_RefData_VersionControl WHERE TableName = 'SEC_QAConfigParameter')
BEGIN
  INSERT INTO ADM_RefData_VersionControl (TableName, LVN rename, Initials, IsActive, LastModifiedBy, LastModifiedOn, VALUE (SEC_QAConfigParameter.SOL.L.ISDATE)))
END
```

If it is not then run this code to resolve this issue:

```
use Ideas
update ADM_RefData_VersionControl
set IsActive = 0
where TableName = 'SEC_QAConfigParameter'
and IsActive = 1
```

This Chart should show there is a "False" record "SEC_QAConfigParameter"
-- Show item state select rs.ID, rs.Label, count(*) from wip.source (nolock) ws join ref_state (nolock) rs on rs.ID = ws.StateID where StateID not in (33,39,127,126,32,18) group by rs.ID, rs.Label

<table>
<thead>
<tr>
<th>Label</th>
<th>Column1</th>
<th>Column2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Paths and Items</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>with dodgy MNs</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Gaurav is checking</td>
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<td>1.00</td>
</tr>
<tr>
<td>Item Load to Care</td>
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</tr>
<tr>
<td>Item is a potential duplicate.</td>
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</tr>
<tr>
<td>Item Edit QA</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Item QA</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Index QA</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Index</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Indeterminate State</td>
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<td>1.00</td>
</tr>
<tr>
<td>Entity has passed validation on LTC call.</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Deleted duplicates</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Delete (reclaim)</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Citation Raw List Edit</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Citation QA</td>
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<td>1.00</td>
</tr>
<tr>
<td>Citation IQI</td>
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<td>1.00</td>
</tr>
<tr>
<td>Citation Items</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Buffer State of Inspec items/publication after 1st correction</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Total</td>
<td>300.00</td>
<td>12246.00</td>
</tr>
</tbody>
</table>

| Index QA         | 0.00    | 1.00    |
| Delete (reclaim) | 0.00    | 1.00    |
| Deleted duplicates | 0.00  | 1.00    |
| Entity has passed validation on LTC call. | 0.00 | 1.00    |

Buffer State of Inspec items/publication after 1st correction

Index QA

Entity has passed validation on LTC call.
To Infinity and Beyond...
The Inspec Knowledge Graph Dr C Marker

Visualisation of some of the entities and relationships in the Inspec knowledge graph. Search for KTH or power inverters to see results of search on these entities. Edges and nodes sized by number of papers on database. Graph contains additional information on piezoelectricity, rocket engines, internet of things, journal of aerospace power.

More about this visualisation

Legend:
- Blue = Controlled Term, Red = Classification, Orange = Source/Journals, Black = Author, Green = organisation, pale green = ISSN, light green = CODEN, light res = e-mail, light purple = city, purple = country, yellow = title, pink = department

Search:

Group Selector:

Select Group
The Inspec Knowledge Graph Dr C Marker

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Search:
- Internet of things

Search Results:
- IEEE Internet of Things Journal
- Internet of Things
- IoT (Internet of Things)

Group Selector:
- Select Group:
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Search:
internet of things

Search Results:
IEEE Internet of Things Journal
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Select Group
Conclusions and Next Steps

• Don’t overthink the end state you want to achieve – dip a toe in the water and start to learn by looking at the data you have – the direction will reveal itself pretty quickly I think.

• Iterate, Iterate, Iterate!

• Show! Show! Show!

• There are many free to cheap tools out there to get views on your data – certainly to start with.

• Understanding your data model(s) as a business is probably the biggest cultural challenge; Your biggest Change challenge as well.

• Be prepared for what sunlight on your data might bring... (see change / see culture / see maturity)
What’s our biggest next challenge?

• With our cloud journey comes the realisation that we have to learn a whole bunch of new data monitoring and analysis...

• Price monitoring and improvement (we pay for every CPU cycle and GB of RAM)

• Scaling and performance monitoring

• Who does that?

• All on the list to be figured out next.
Thanks!

Q’s?