Communicating results to Decision-Makers

EBDM Seminar
Louise Hoehl & Sarah Esler
March 2013





What will be covered today

- Introduction: Why good visualisation matters
- Gricean Maxims
- What we can learn from Management Consultants
- Common pitfalls and errors

We are not the experts

We encourage debate in this seminar





We have all experienced poor visualisation of outputs.

Hands up if you have...



- seen a slide of words too small to read?
- seen a graph you don't understand?
- experienced an illustration that only the creator understands?
- had so much information that you know it is going to overrun?



Why does the way we communicate our results matter?

Information Overload Lack of thought / Complacency

Unnecessary Graphs

Distraction
Confusion
UNEXPLOITED
WORK





Communicated results should provide clarity, not detail

- Reports are not read in entirety
- 1 page Executive Summary key results a the 'so what'
- Sound-bites ensure enduring utilisation
- 'Techno babble' does not interest Customers
- Good visualisations aid understanding and recall





Gricean Maxims are present in effective communication

QUALITY

QUANTITY

RELEVANCE

MANNER



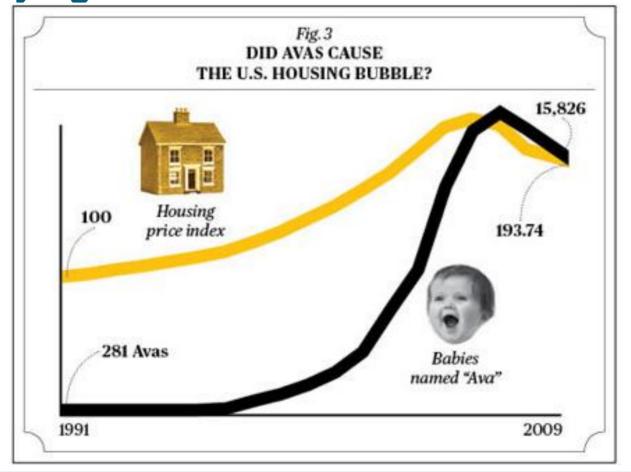


Gricean Maxims are present in effective communication





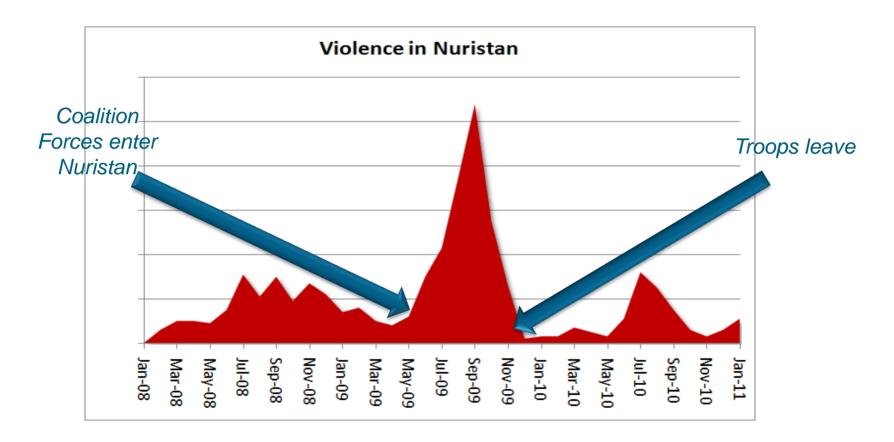
Visualisations are only as good as the underlying data







Visualisations are only as good as the underlying data





of Defence

Gricean Maxims are present in effective communication

QUANTITY



HBV Genome Repair and Transcription

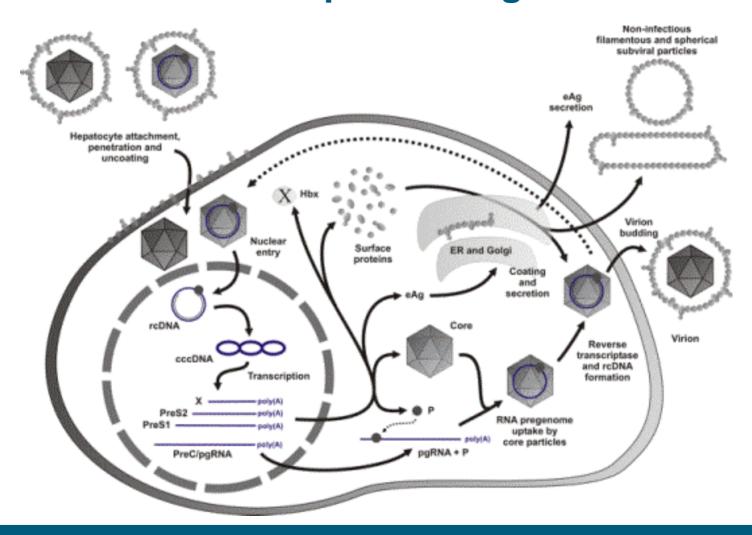
•The HBV DNA is brought into the nucleus where it is repaired to the covalently closedcircular form of the 5' terminal ligation steps to occu Visualisations aid **HBV** Once transcr ts genera understanding and •The sr surface and se recall A parti pgRNA •It is hyp HBV to pacsable this







An alternative to the preceeding slide....



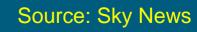




We can learn from the media about keeping the quantity of information low









We can learn from the media about keeping the quantity of information low







Gricean Maxims are present in effective communication



MANNER

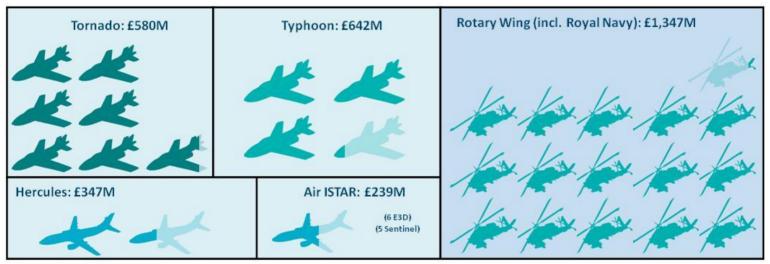


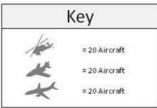


Visualisations must be accurate, interesting and convey a message

Current Air Domain Force Elements: How Many And At What

Cost

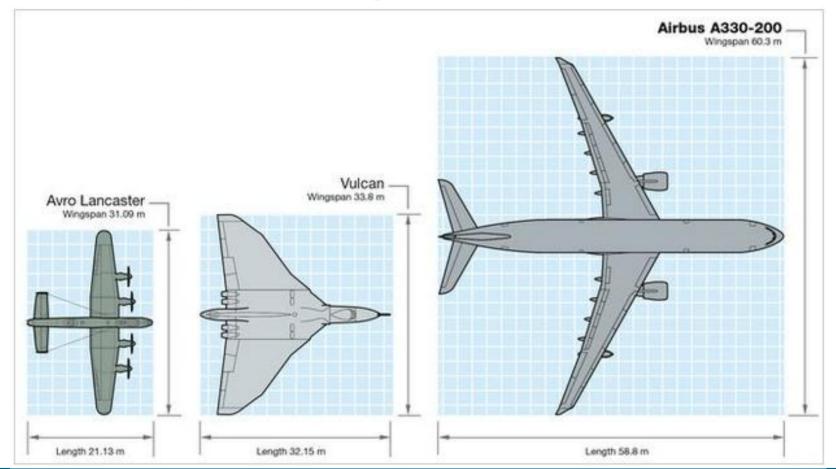








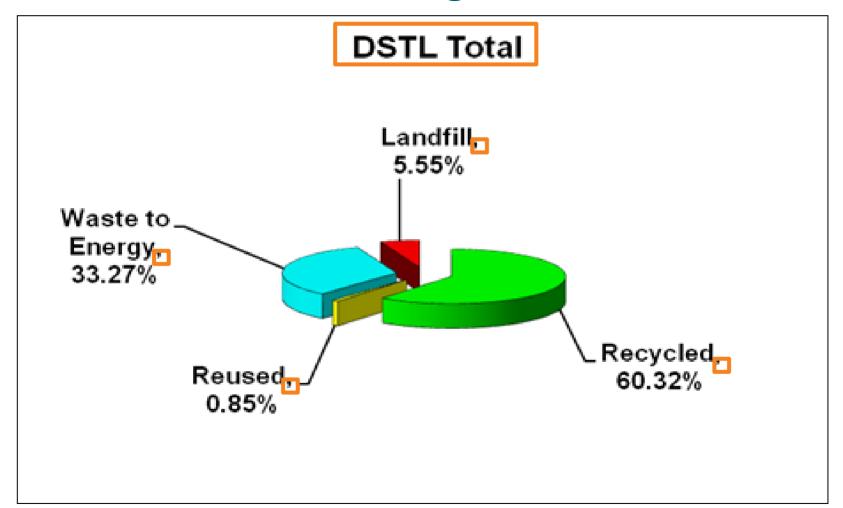
Visualisations must be accurate, interesting and convey a message.







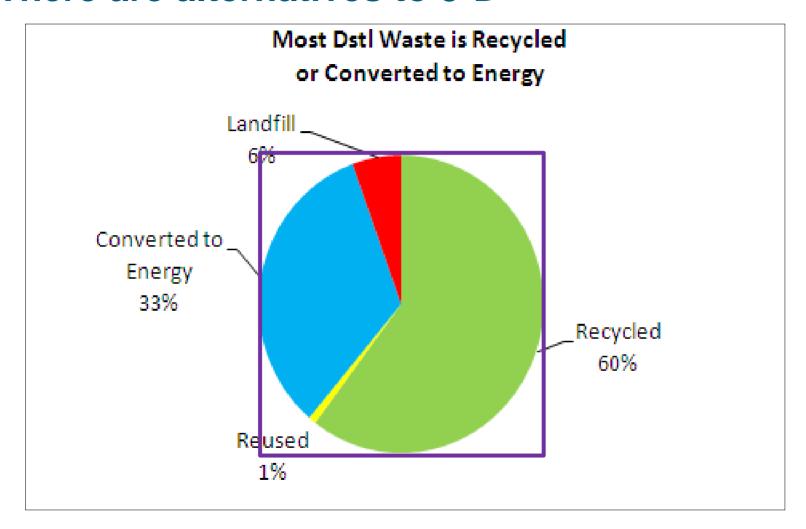
3-D charts are misleading







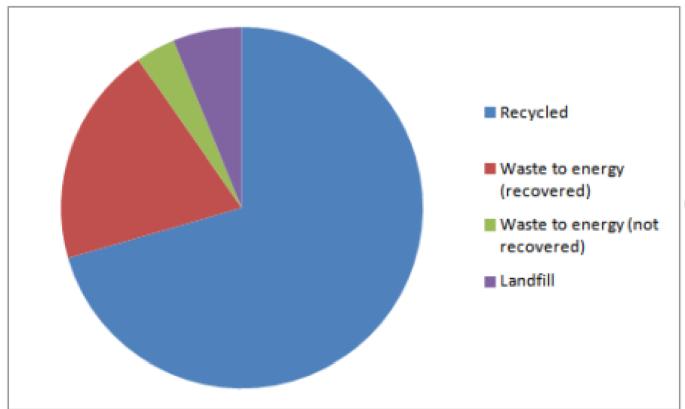
There are alternatives to 3-D







We will never reach perfection, but we will keep trying



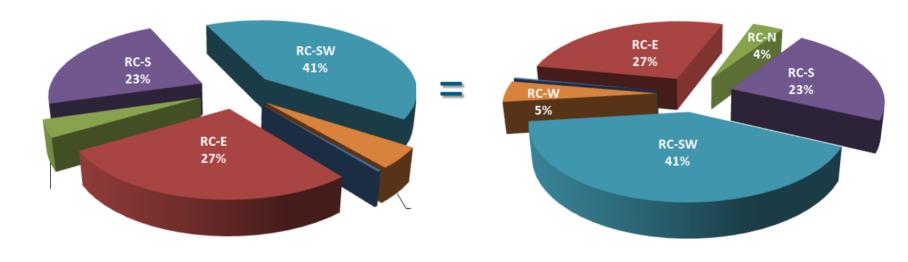


Waste management in Dstl - How our waste is managed





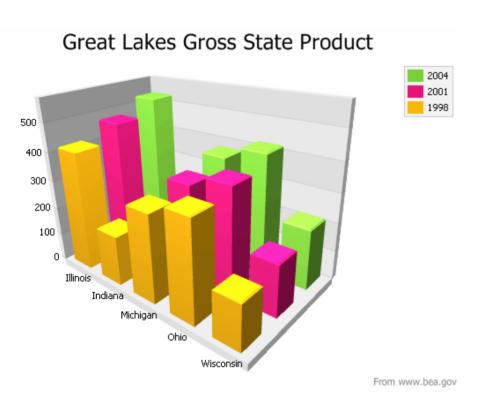
Using 3D can focus the audience unintentionally

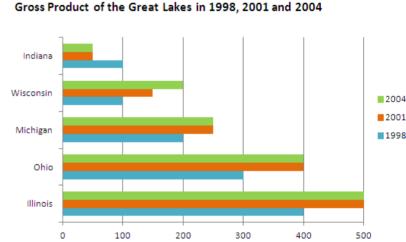




of Defence

Here are 2 versions of the same data to illustrate alternatives to 3D









There is a standard slide layout from the commercial world that is useful to understand

- Used by companies such as McKinsey and Boston Consulting Group.
- Supports the presenter:
 - focusing the message;
 - deciding what is relevant to present.
- Supports the audience:
 - clarity of message;
 - flow of results and information;
 - avoiding death by PowerPoint.





Action title: one sentence saying what you want to summarise with this slide

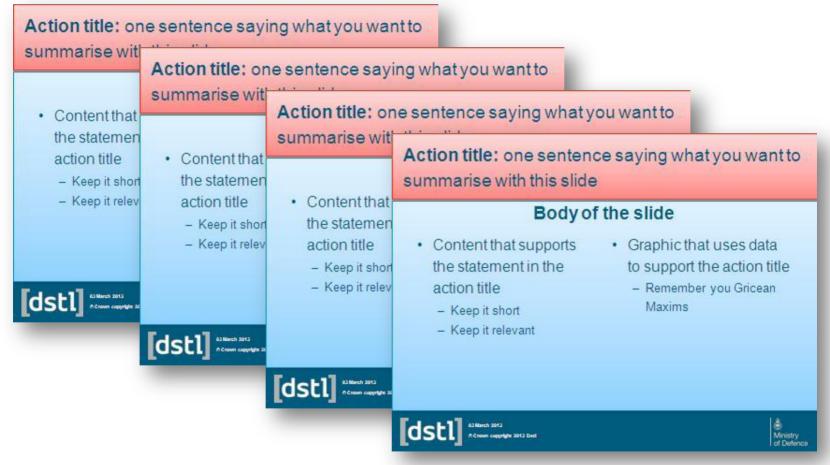
Body of the slide

- Content that supports the statement in the action title
 - Keep it short
 - Keep it relevant

- Graphic that uses data to support the action title
 - Remember your Gricean Maxims



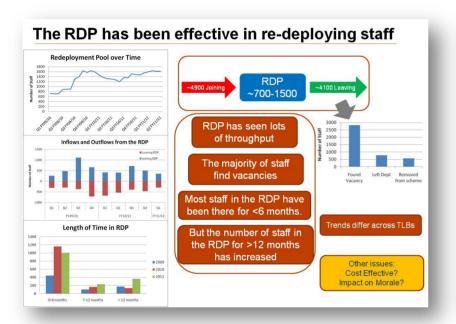
If you just read all the action titles you hear the story the presenter is telling

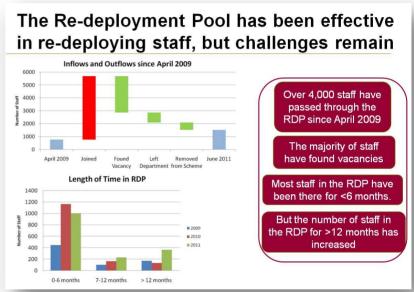






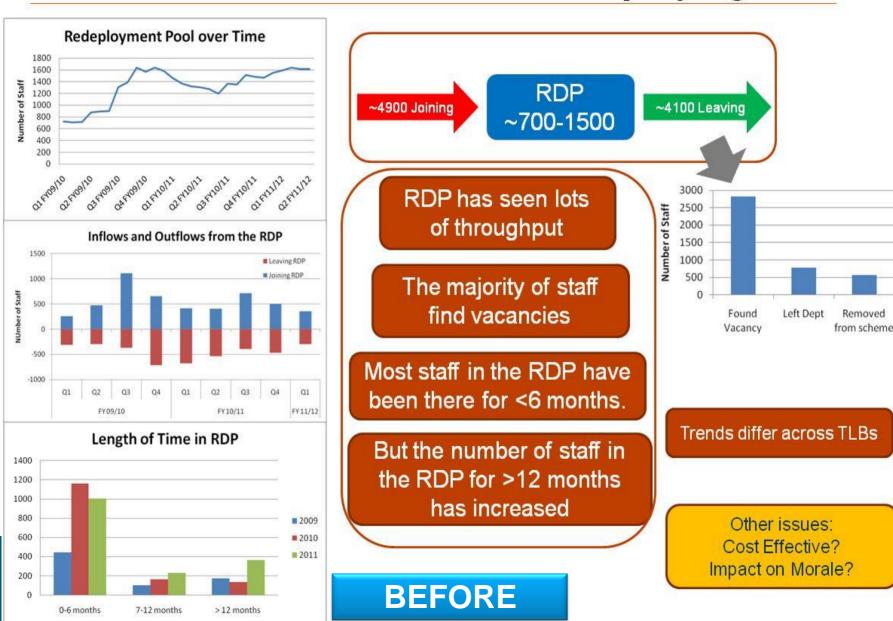
Here are 2 versions of the same slide to illustrate the technique



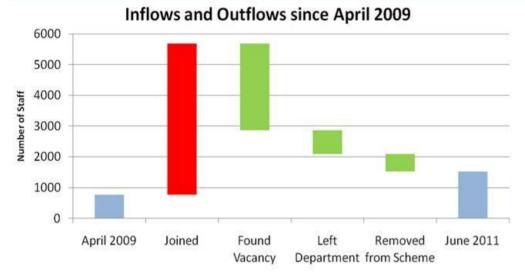


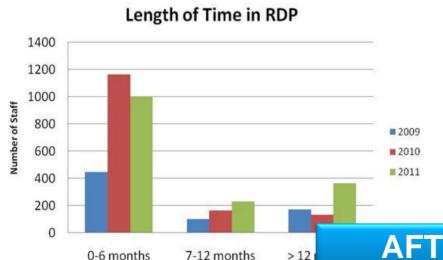


The RDP has been effective in re-deploying staff



The Re-deployment Pool has been effective in re-deploying staff, but challenges remain





Over 4,000 staff have passed through the RDP since April 2009

The majority of staff have found vacancies

Most staff in the RDP have been there for <6 months.

But the number of staff in the RDP for >12 months has increased

Here is a real example of the story telling in action

We need to understand how decisions are made

We talk loos
But do we re
Most of our
hope that th
Four types of

Intu Measure Performa

We have ever convergent But rational options And diverge

Dive



EBDM is as much about getting people to THINK properly as it is about using evidence

rma uati We need to account for the fact that our customers (and we) are subject to biases in decision making

<u>Diagnosis bias:</u> (assessment of a Value attributio

based on irrelev

Commitment: to we are likely to

3. Loss aversion: g
losses, than to p
and present evider
and present evider

Groupthink: we strong leader if

Optimism bias e

26 October 201 When

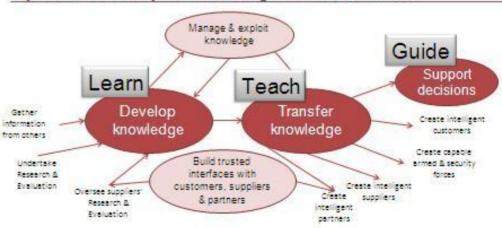
© Crown copyr

benefits, risk

defence

yr \delta defence

Think of your role as to Learn, to Teach, and (sometimes) to Guide your customer



- · Plan time and effort to teach people what you have learned
 - Who needs to know which parts of it?
 - . Will your customer learn best by reading your report or by experiencing?

Here are some pitfalls and common errors we have discovered

Print V Show

Will your presentation still work if it is printed?

Some people are colour blind

Check your slides and graphics

Some words are emotive

Have you used any words that going to touch a nerve?

Plan time in to communicate results

Graphs for analysis ≠ graphs for stakeholders

Think basic first

Do you have time, and do you need a fancy visualisation?

Familiarity can be your friend

Regularity saves on time and aids understanding





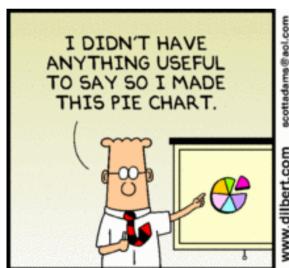
Information presented must be accurate and concise and clearly communicate a message

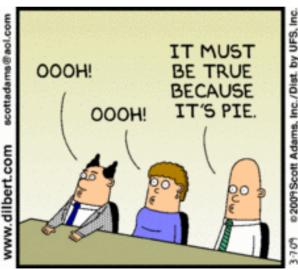
- Give yourself <u>time to prepare and think</u> about the visualisations you use
- Visualisations must <u>clearly communicate</u> a message
- Remember your Gricean Maxims
 - Quality, Quantity, Relevance, Manner
- Be aware of pitfalls and common errors
 - be self aware of the ones you regularly fall into
 - Support your colleagues in avoiding them





Questions or Comments?





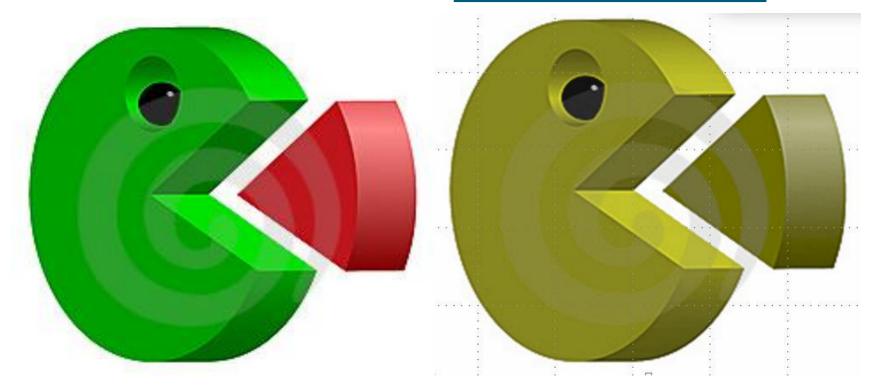






What the majority will see

and with the most common form of colour blindness



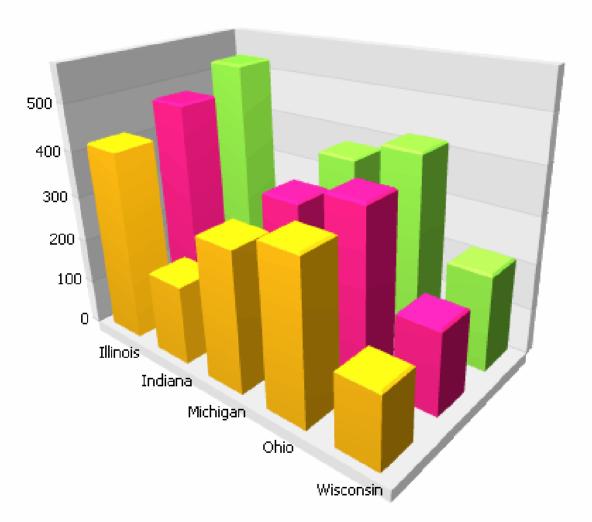
Ring 8787 and ask for Color Oracle Colororacle







Great Lakes Gross State Product



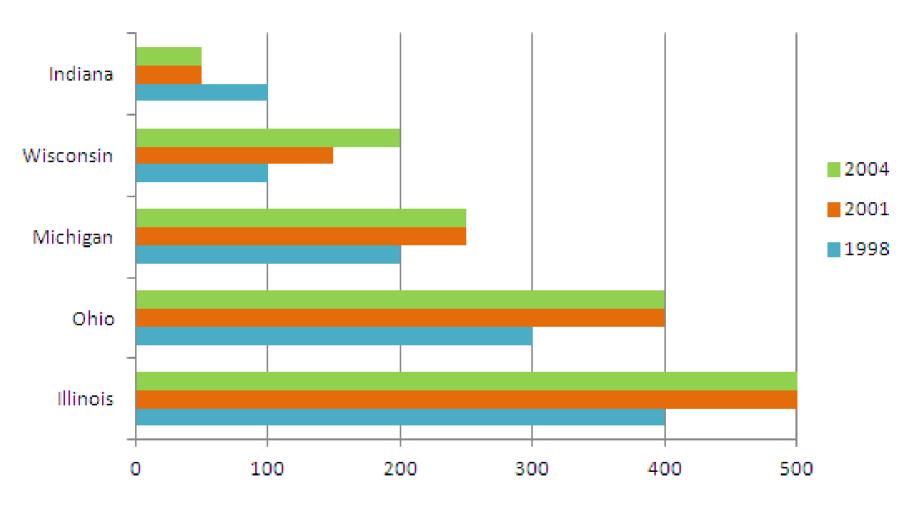
2004 2001 1998

From www.bea.gov



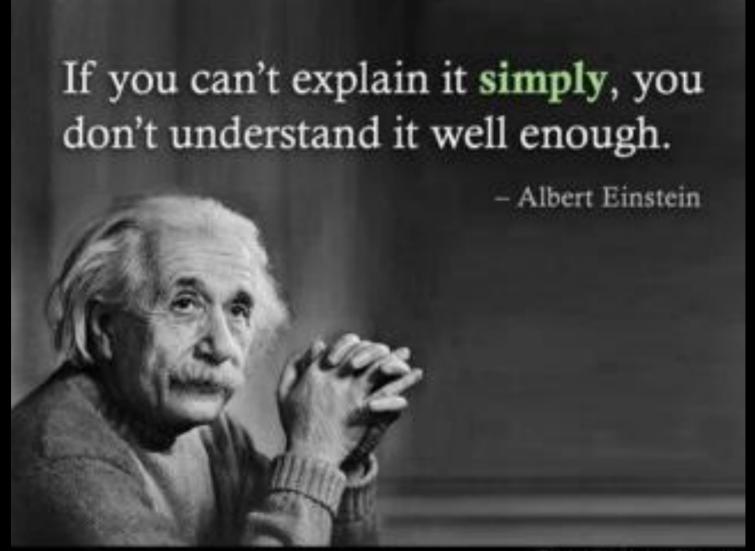


Gross Product of the Great Lakes in 1998, 2001 and 2004













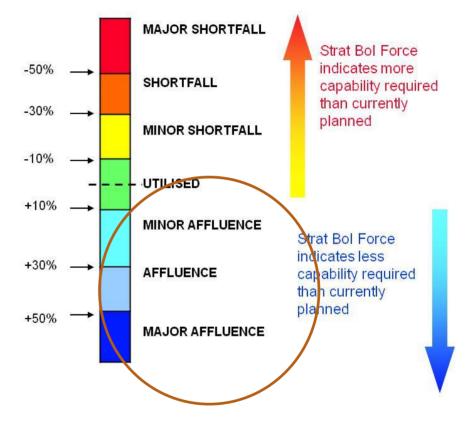


It is useful to know what the "touch point" words are in your area

"BETTER"

"CUTS"

"AFFLUENCE"

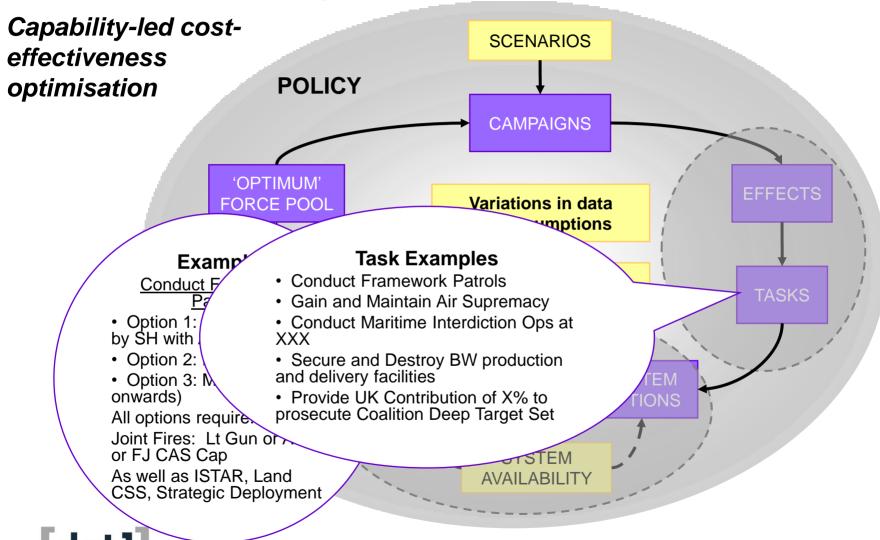


30 March 2012

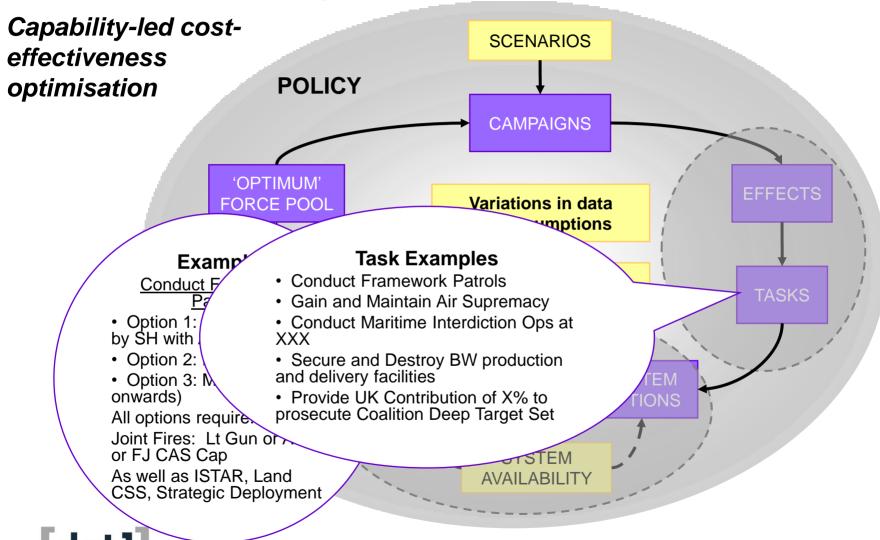


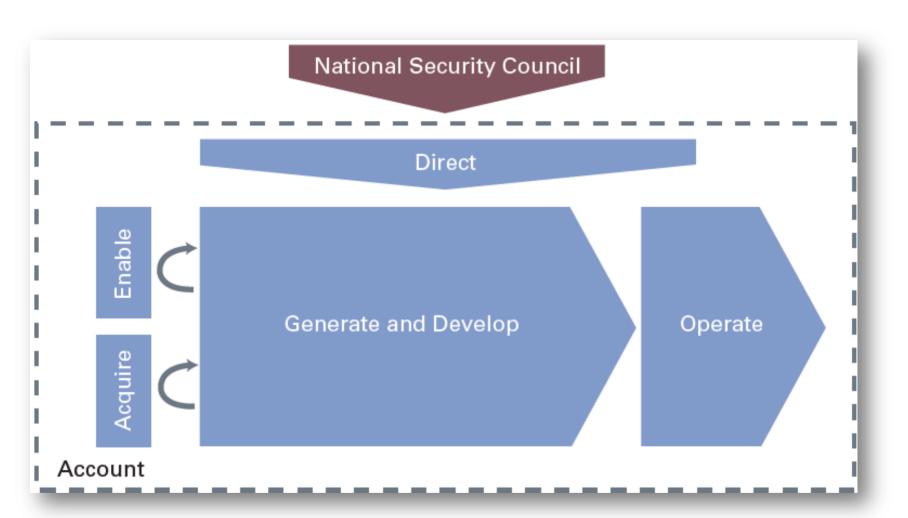


Strat Bol Analysis - Method



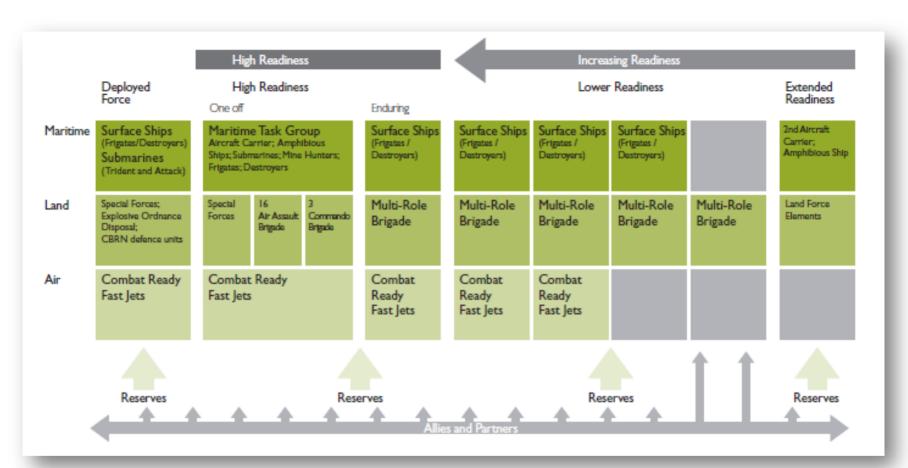
Strat Bol Analysis - Method







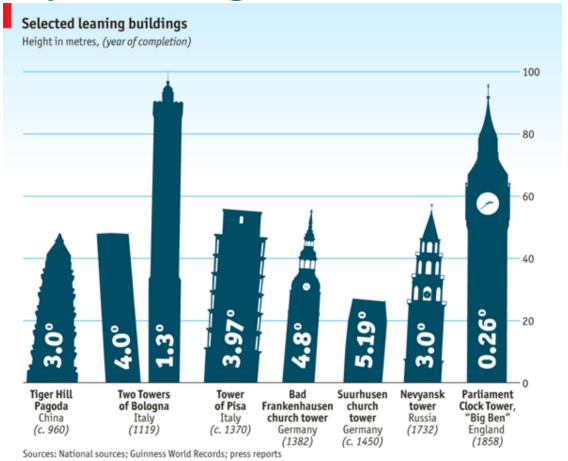








Visualisations must be accurate, interesting and convey a message

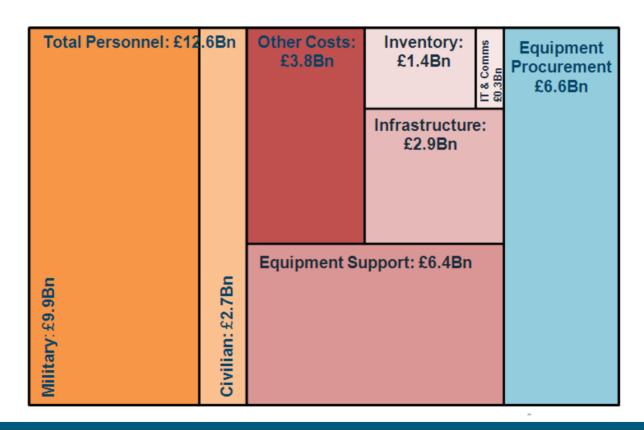






Visualisations must be accurate, interesting and convey a message

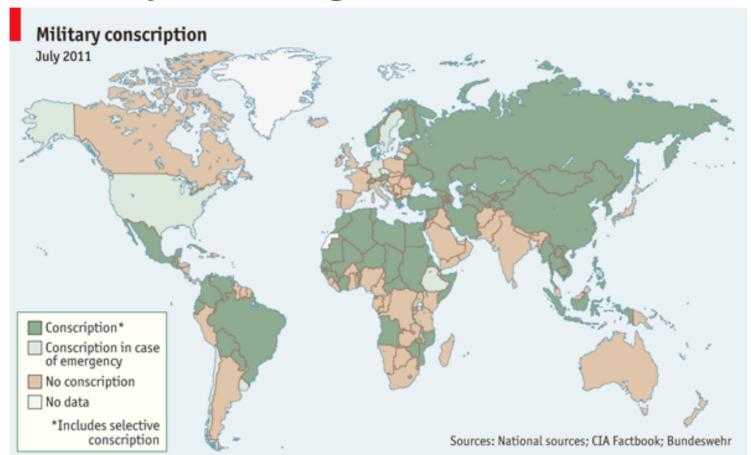
Planned Expenditure 2011/12







Visualisations must be accurate, interesting and convey a message









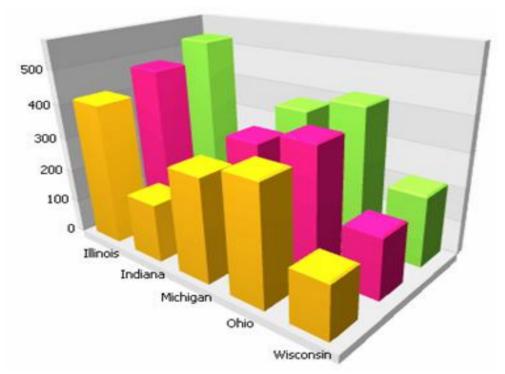












- All the information cannot be seen
- 3D makes it difficult to compare the data



