The Bathwick Group

The challenges of software development where software is everyware...

Gary Barnett



Why are we doing this stuff?



Some things never change...

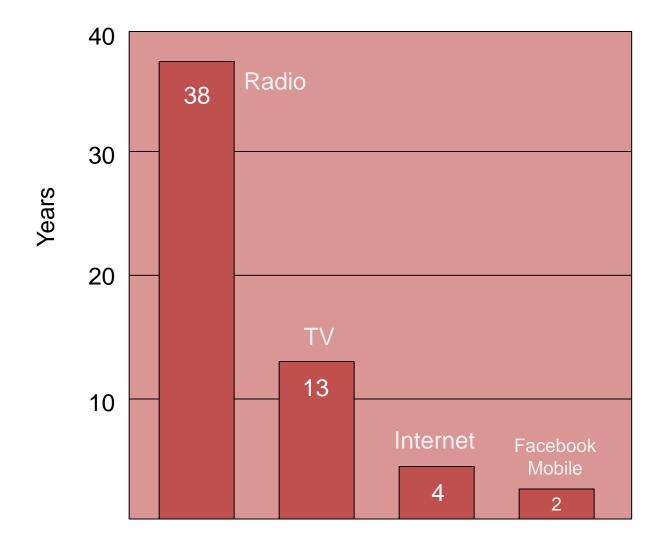




Image © http://rainbowtravel.wordpress.com/2009/12/09/the-dead-sea-scrolls-on-show-in-toronto/

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Barack Obama raised \$55 million using email, facebook, and twitter

In the las president campaign McCain rais million in fun in the month of February 2008...







...by mobile phone



Image © http://arch1design.com/blog/2009/10/28/cell-phone-vs-brain-cell-whos-the-loser/african-people-mobile-phone/







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The context within which we do our development



Infrastructure : The Vision

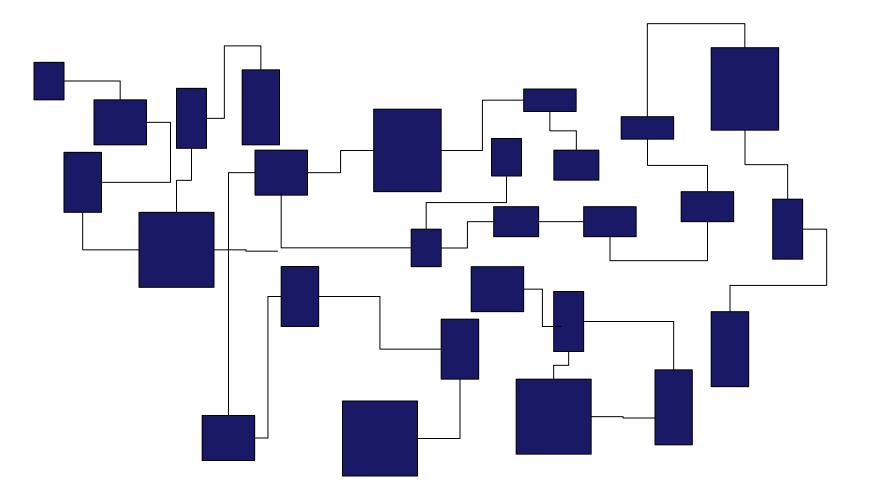




 $\mathsf{Image}\, \textcircled{\sc opt}$ Gary Barnett – and it took ages to get this right





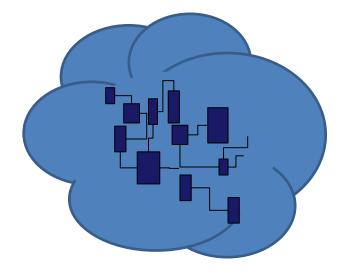




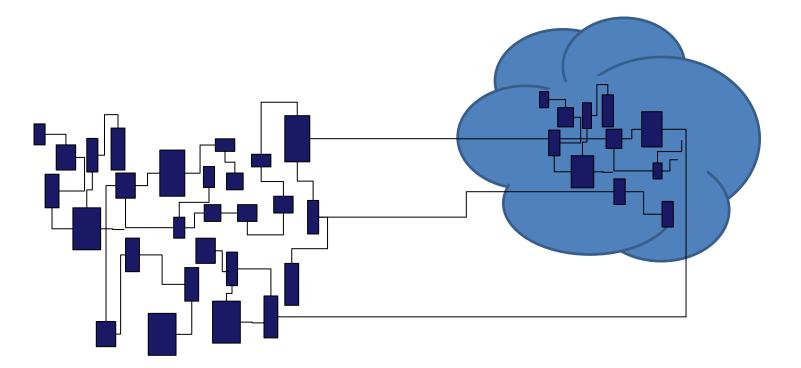




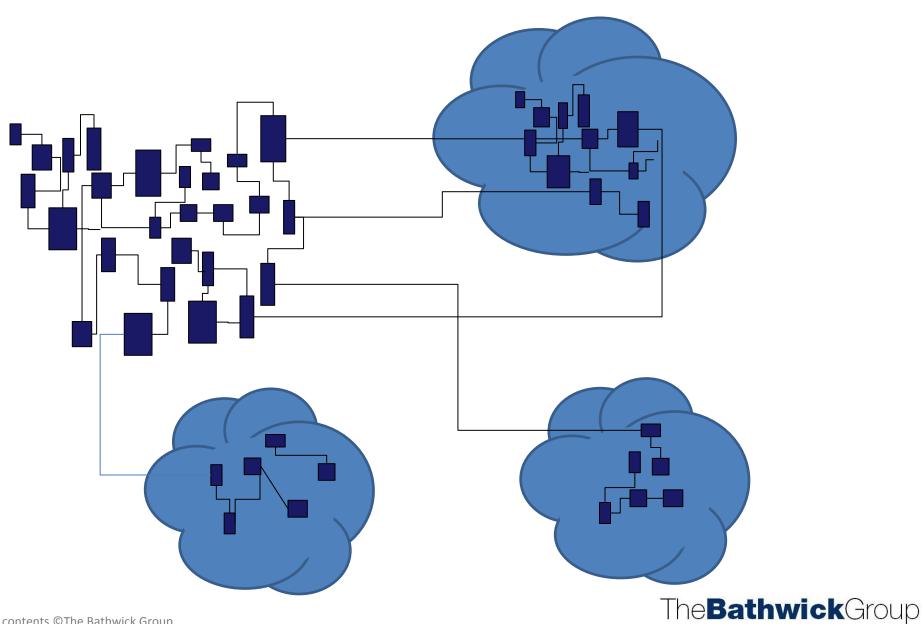


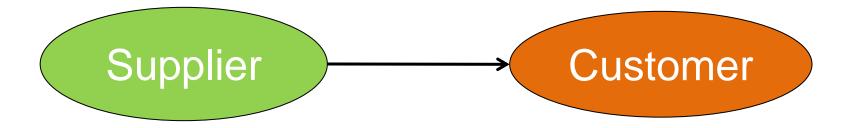






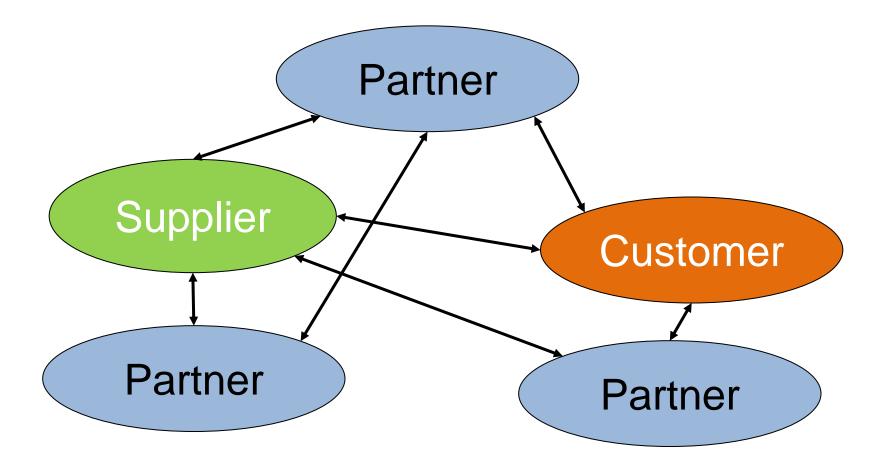






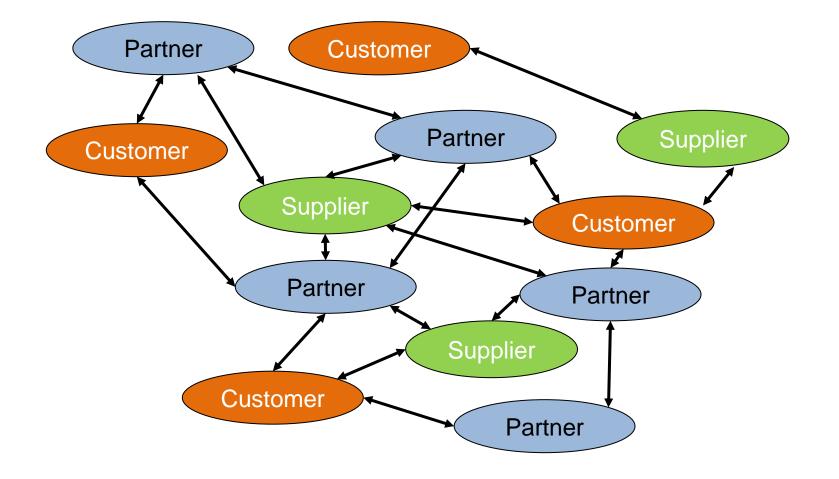






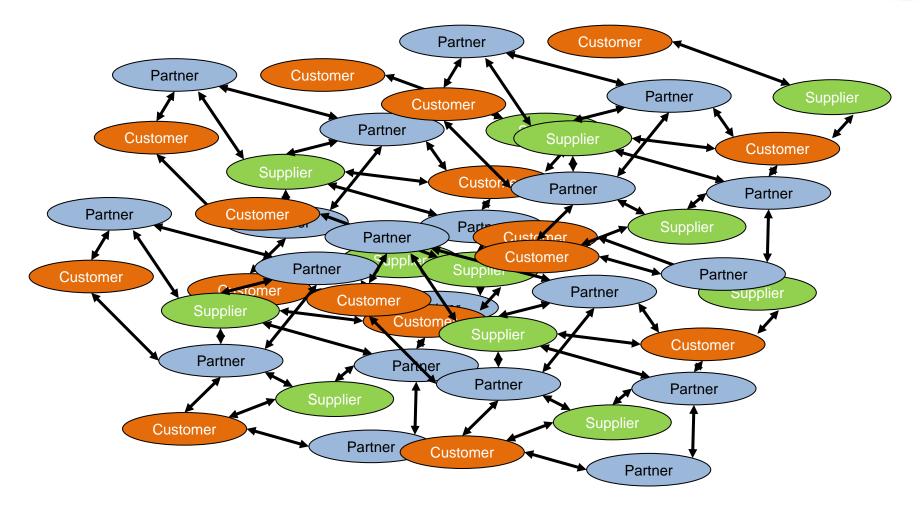






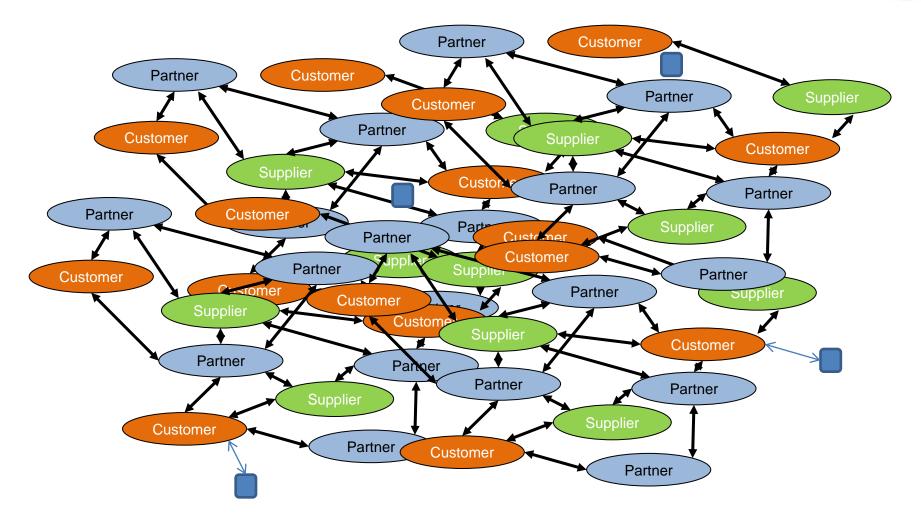






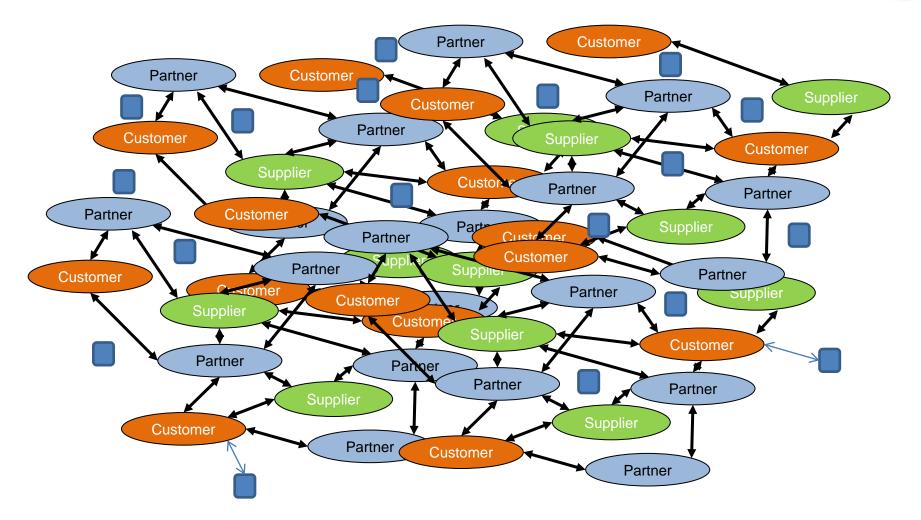








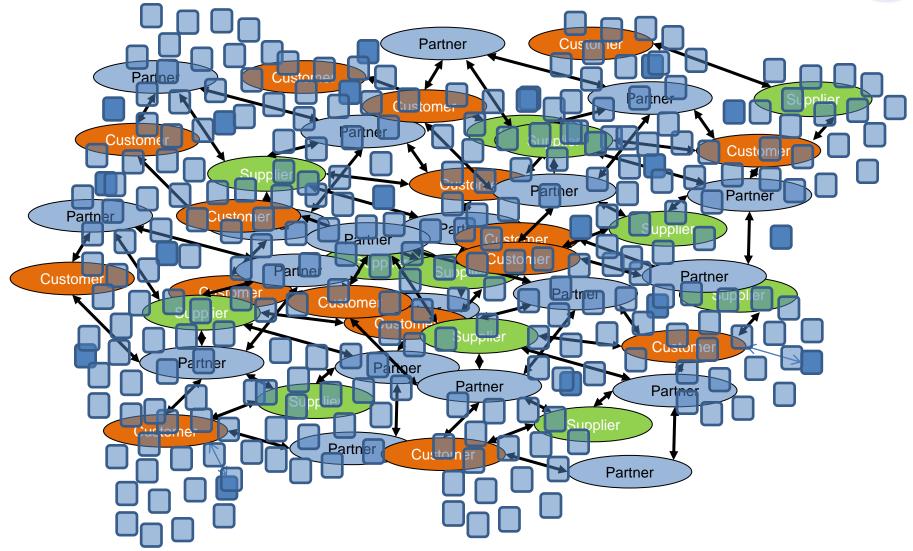






Double eek









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And some of them will give you nightmares...





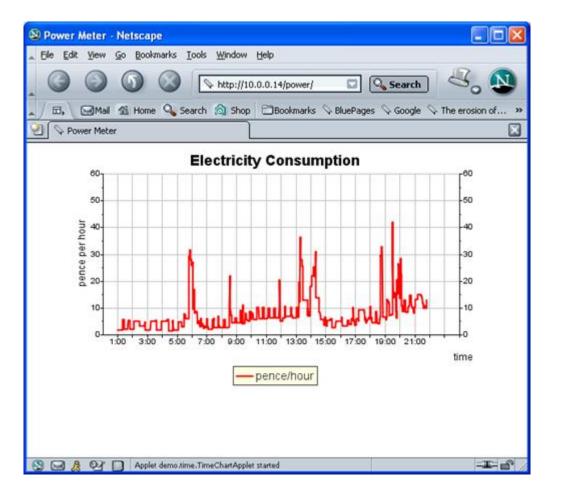


And some of them will make you think

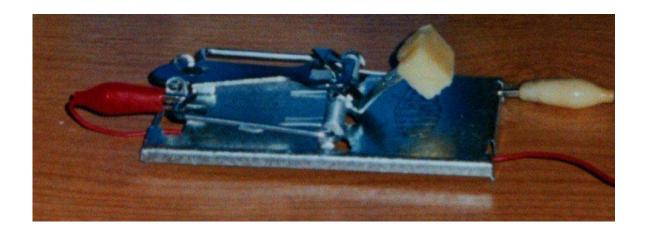




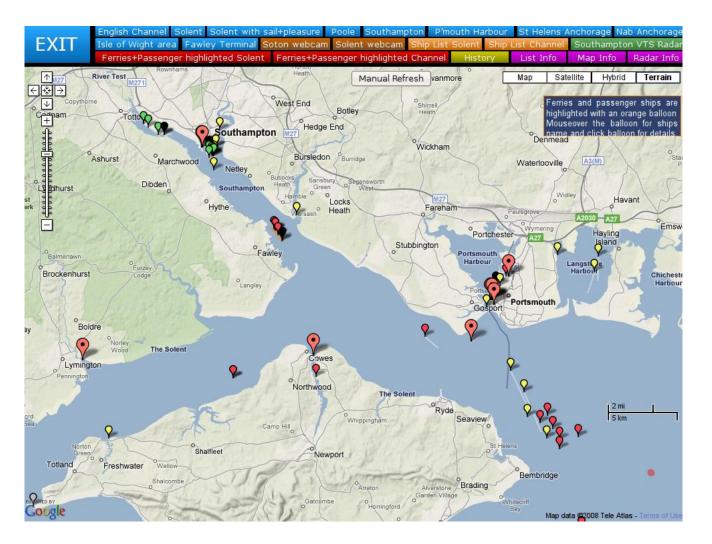










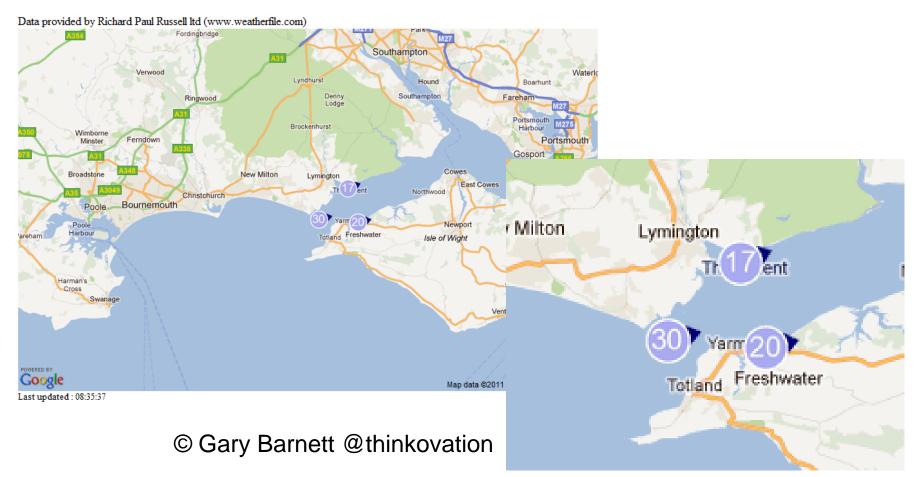




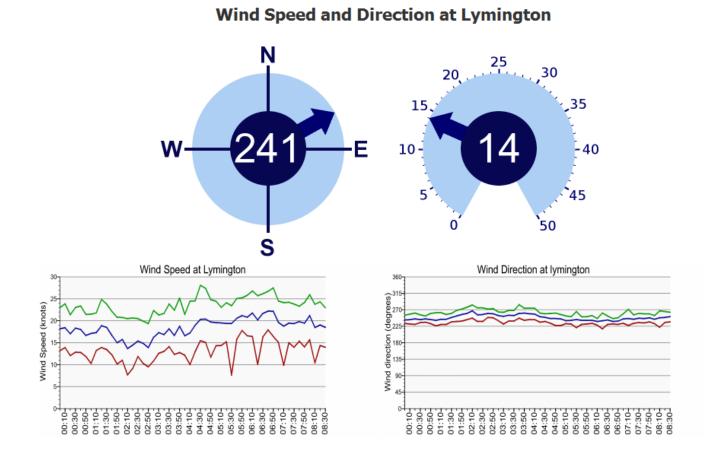




Wind data western solent

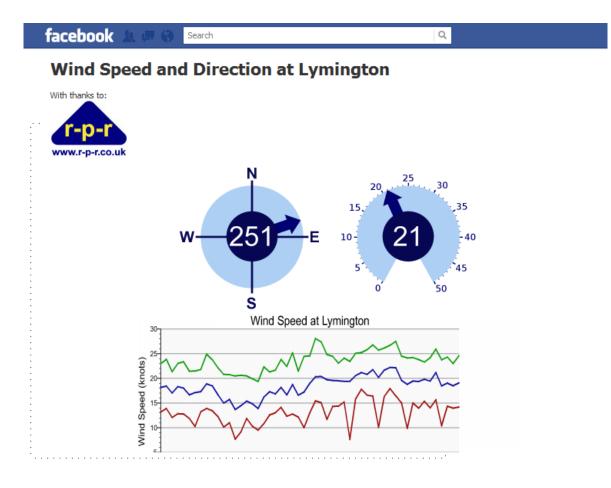






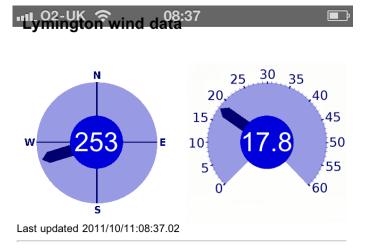
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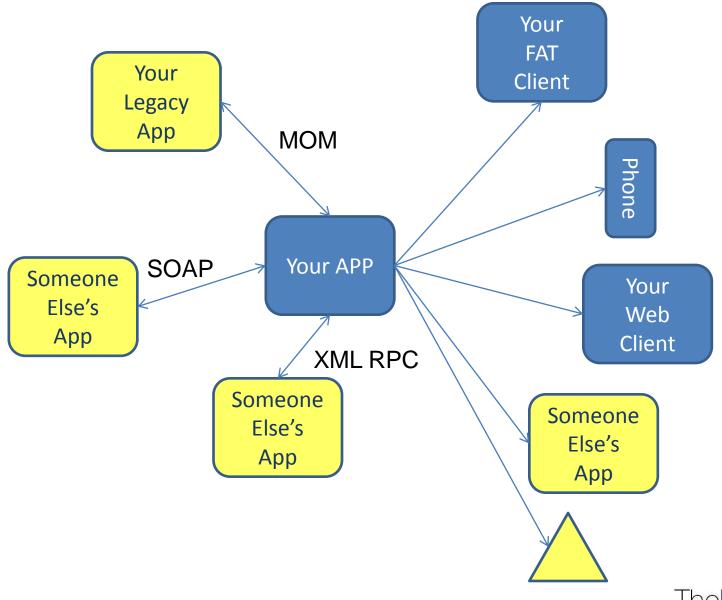
Wind for the last two hours

Time	Min Dir	Avg Dir	Max Dir	Min Speed	Avg Speed	Max Speed
08:30.00	237	251	263	13.96	18.49	22.98
08:20.00	235	249	265	14.35	19.03	24.3
08:10.00	222	248	267	10.4	18.46	23.73
08:00.00	232	244	254	15.65	21.17	25.91
07:50.00	237	248	259	14.02	19.44	24.16
07:40.00	234	246	259	15.36	19.8	23.31
07:30.00	235	247	260	13.96	19.36	23.79
07:20.00	233	244	256	14.99	19.44	24.2
07:10.00	227	246	271	9.86	18.77	24.12
07:00.00	233	245	259	15.05	19.62	24.49
06:50.00	230	239	248	16.44	22.15	27.49

Application (C) Gary Barnett 2010, Wind data (C) Richard Paul Russel 2010

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In summary





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- We're entering a new era
 - That makes the challenge that client-server presented look like playing with stickle bricks
- Cloud computing is going to make things more complex, not simpler
 - If you think cloud computing will solve all your problems then you're mad
- The "A" in SOA is what will determine your success
 - One good software architect is worth 20 developers
- Interface design will become the most sought after technical skill in App Dev
 - Jedi interface designers are very, very rare



Can developers save the day?







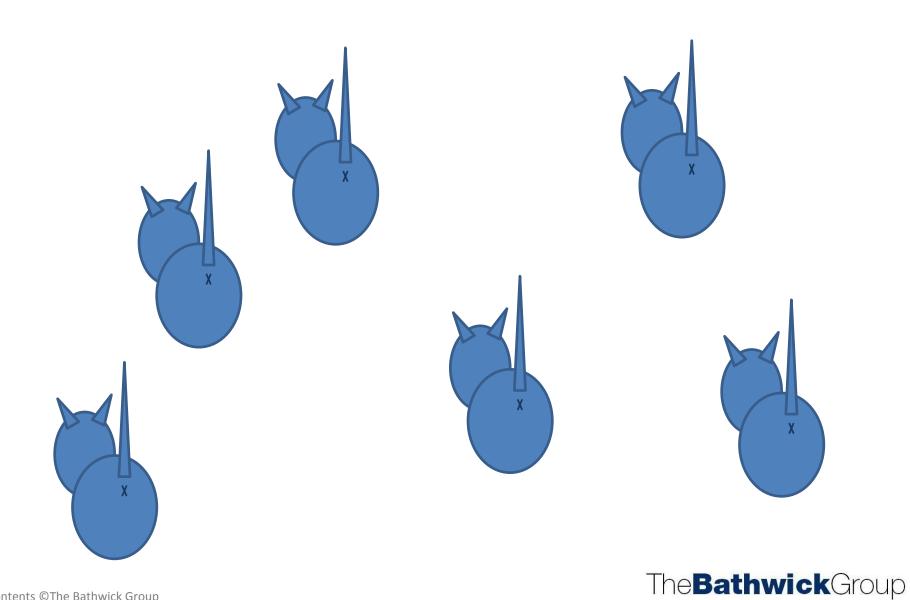
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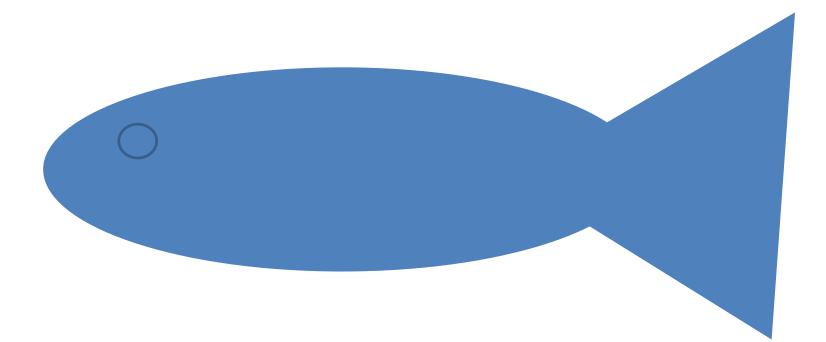
Managing developers...





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Managing developers...

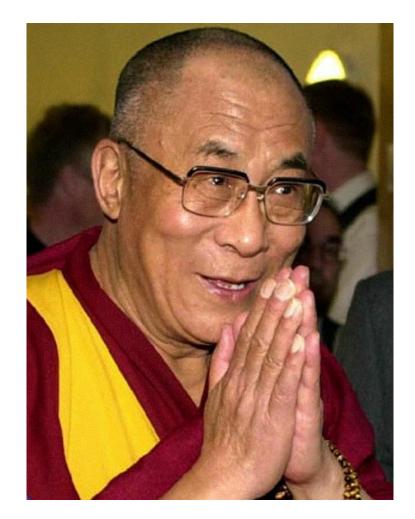




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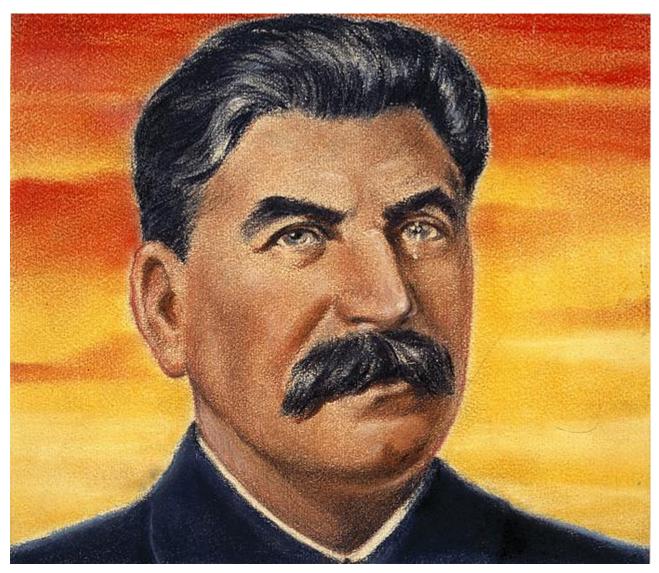


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Governance





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In summary

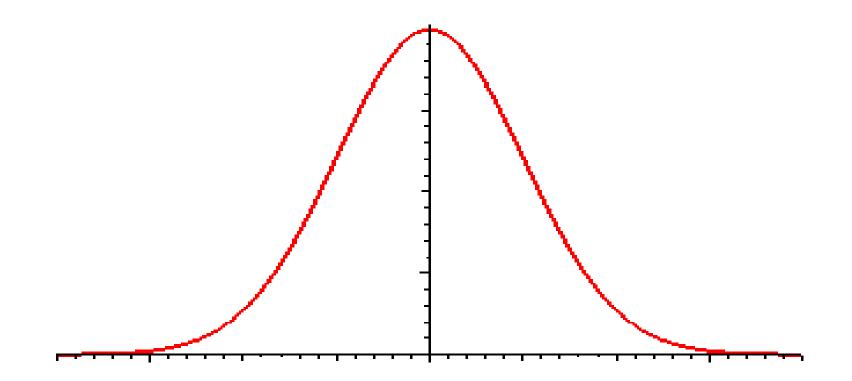
- Your approach to governance is fundamentally important
 - The key is to provide roots and wings (and the naughty step)
- The culture you create will make a huge difference
 - The level sharing, collaboration, on-task mentoring and (ultimately) success will depend on the culture you create or support



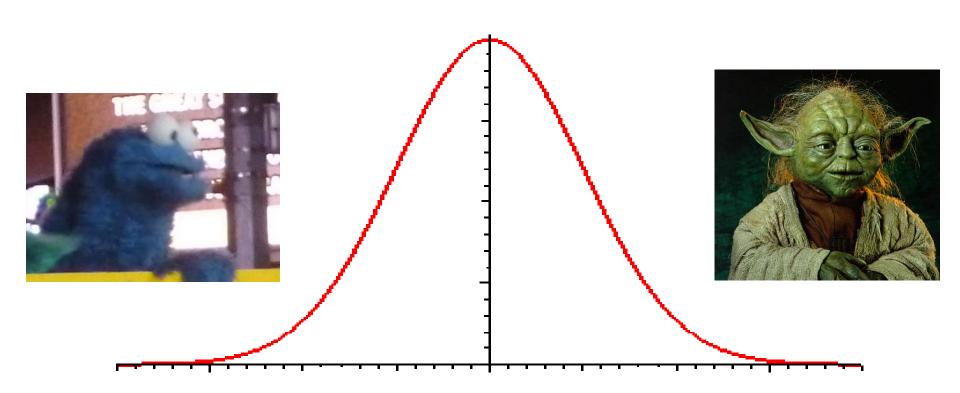












Mapping skills to project needs





In summary

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- Not all developers are created equal
 - But different tasks require very different skills
- Soft skills are as important as tech skills
 - Collaboration
 - Results focus
 - Passion
- You don't need a stable full of Jedi developers
 - And let's face it, at times, they can be the most irritating people on the planet





Can development tools save the day?



- Choice of project manager
- LOB Buy-in, involvement
- Architecture complexity
- Corporate politics
- Legacy





www.MAURICEROBINSONSPORTS.com

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The rest is down to you....

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