

bbc.co.uk/labuk

what is it & how does it work

Matt Chadburn, Technical Lead, FM&T Vision, Aug-2009

What is Lab UK

- It's a product **brand**
- "Deliver scientifically-valid, ethically approved, and secure surveying of the BBC audience. Data kept in **perpetuity** against a BBC UID."
- ... so, Lab UK = Science **experiments** on bbc.co.uk
- Lab UK = Software platform for running experiments, delivering that data to scientists, and visualising the results.

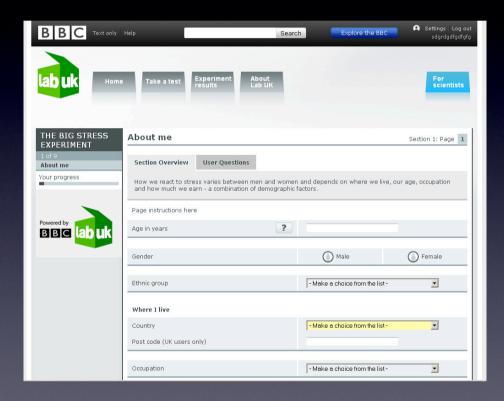
bbc.co.uk/labuk/experiments/stress



bbc.co.uk/labuk/experiments/braintestbritain

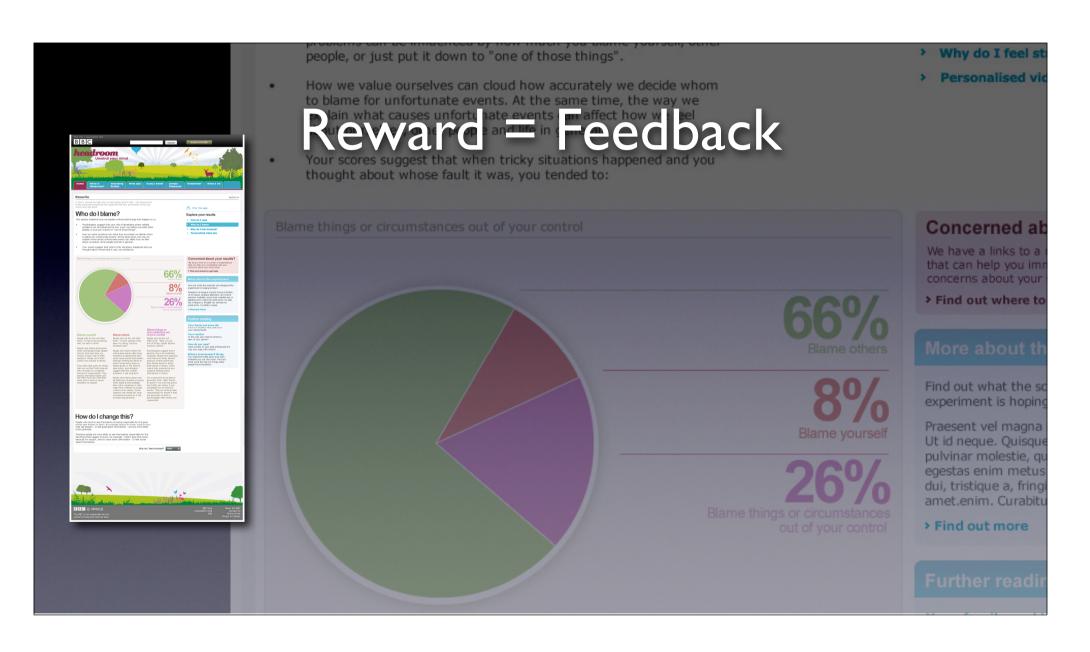


collect some data ...



... undertake some tasks





13	20172417903106030004413044612790	19	UB	nr.					
14	ed519c02f134f2cdd836cba387b6a3c8	46	GB	RH		2	ΑZ	al	bla
15	Data Delivere	ed to	Sc	iei	ntis	ts	5		a2
16	f50c7035e532c49a0f6993d988e2e843	26	GB	SE					
17	435d6ab1ba16ba7e05e09d9728bc36ca	42	GB	RG		5		a5	ch
18	151de84cca69258b17375e2f44239191	18	GB	W			0		a7
19	9704a4fc48ae88598dcbdcdf57f3fdef	37	GB	W			2		a2
20	bb1443cc31d7396bf73e7858cea114e1	18	GB	W			1		a2
21	4db73860ecb5533b5a6c710341d5bbec	19	GB	YO	Array	0		a4	wh
22	f4f0edb08c97567ce6b0475a63bf7000	36	GB	W			0		a2
23	87784eca6b0dea1dff92478fb786b401	95	GB	KT		2		a2	bla
24	05b0afd266cc205432b8dad3f3413c28	24	GB	W					
25	c344336196d5ec19bd54fd14befdde87	29	GB	RH		1		a3	ea
26	20ef119e812e178ecb44efa448b57ebc	33	GB	BS					

Experiments

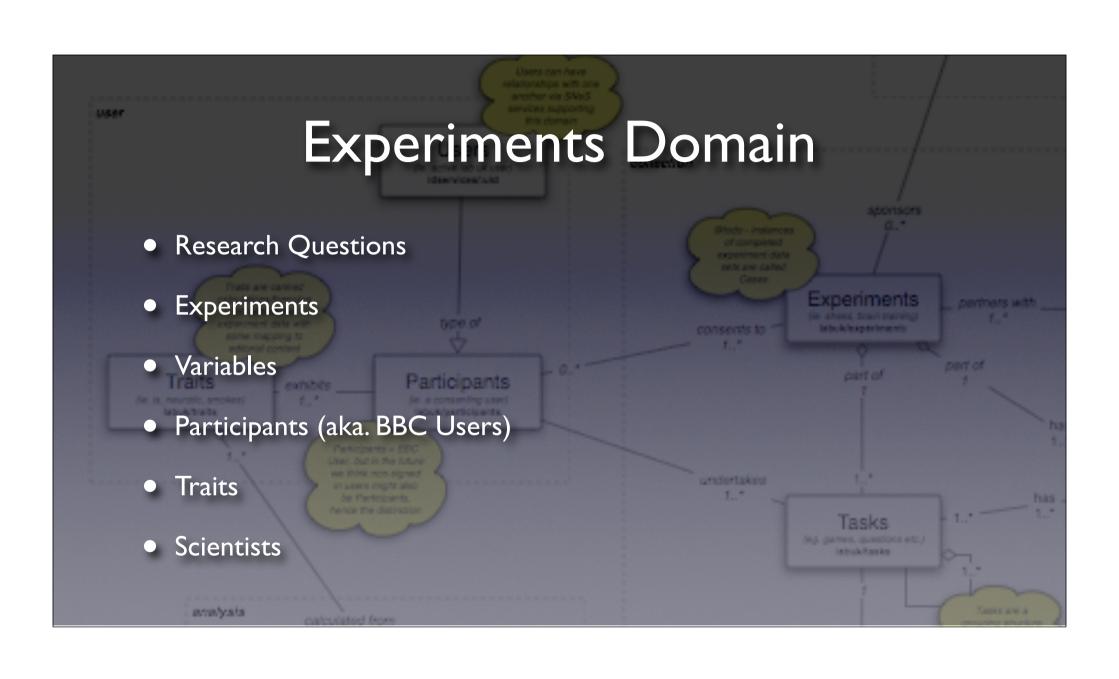
Acquisition of data about the world

New knowledge

What makes the UK stressed?





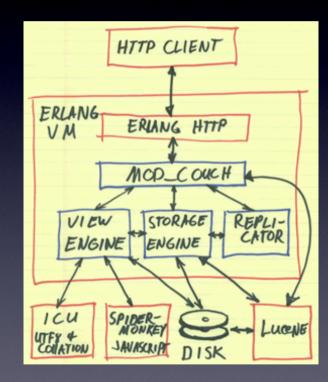


Web Services

- KV Store (aka. CouchDB)
- Experiments Web Service (the one we built)
- Identity
- FLIP + old stack for Editorial stuff

Scale

- CouchDB
- Memcached
- PHP + HTTPS (arrrrgh)
- Infrastructure (arrrrgh x 10)
- Profiling avalanche, xhprof
- 30k participants in 10 mins peak



HTTP APIs

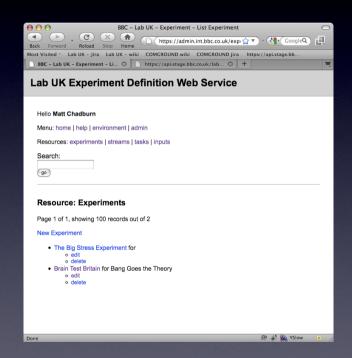
- GET /experiments/:tasks
- PUT /experiments/:id/consent
- POST /experiments/:id/tasks/:id/?varI=foo&var2=foo

conditions:

DELETE

PHP/Java API (Models)

admin.bbc.co.uk/experiments



@todo - 3 months

- Feedback is a rubbish ATM, so rework
- Spaces + Lab UK = social experiments
- Flagpoles for outages etc.
- More expressive service layer API
- CouchDB replication & views for stat's

@todo - 12 months

- Performance 1000's sim users p/sec
- Nicer default experiment experience layout, forms etc.
- Mobile, bbc-modules etc.
- Visualisations, SEO navigable results

