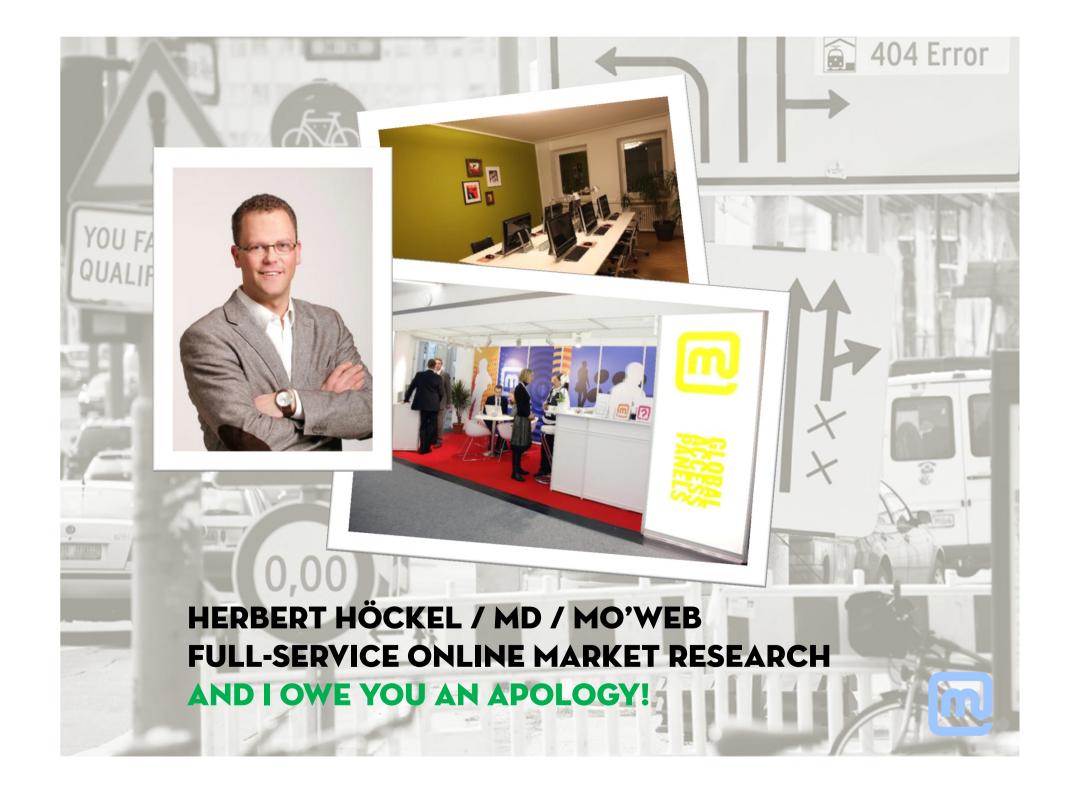
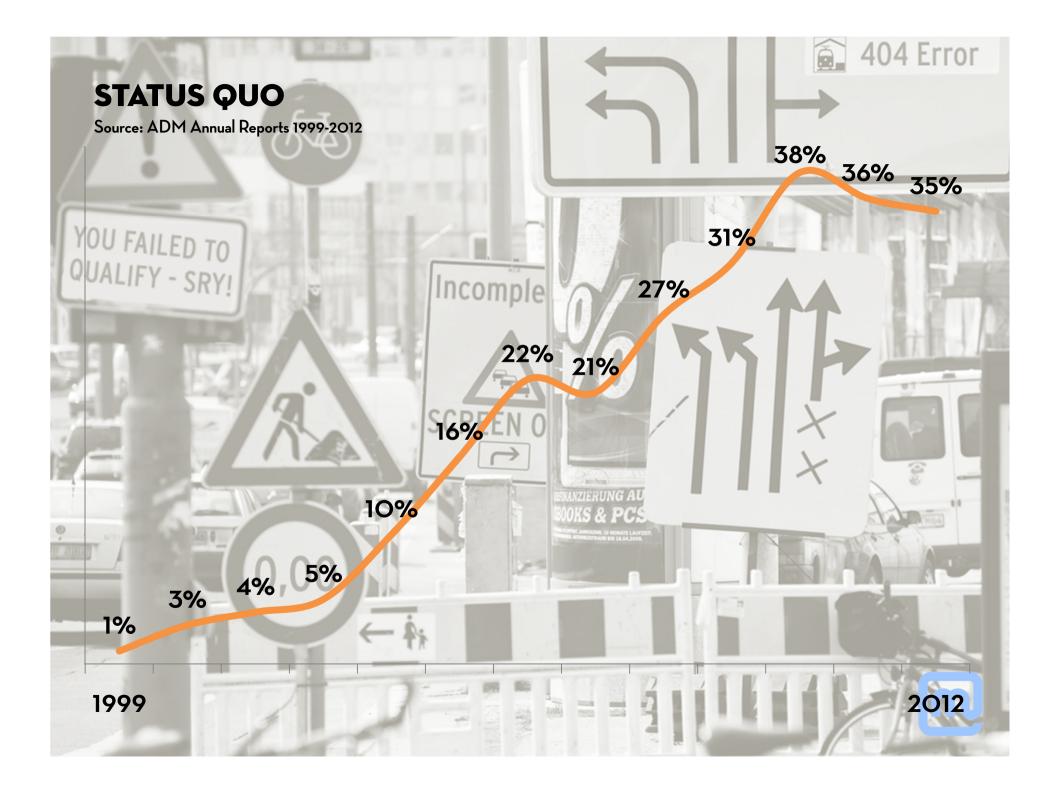
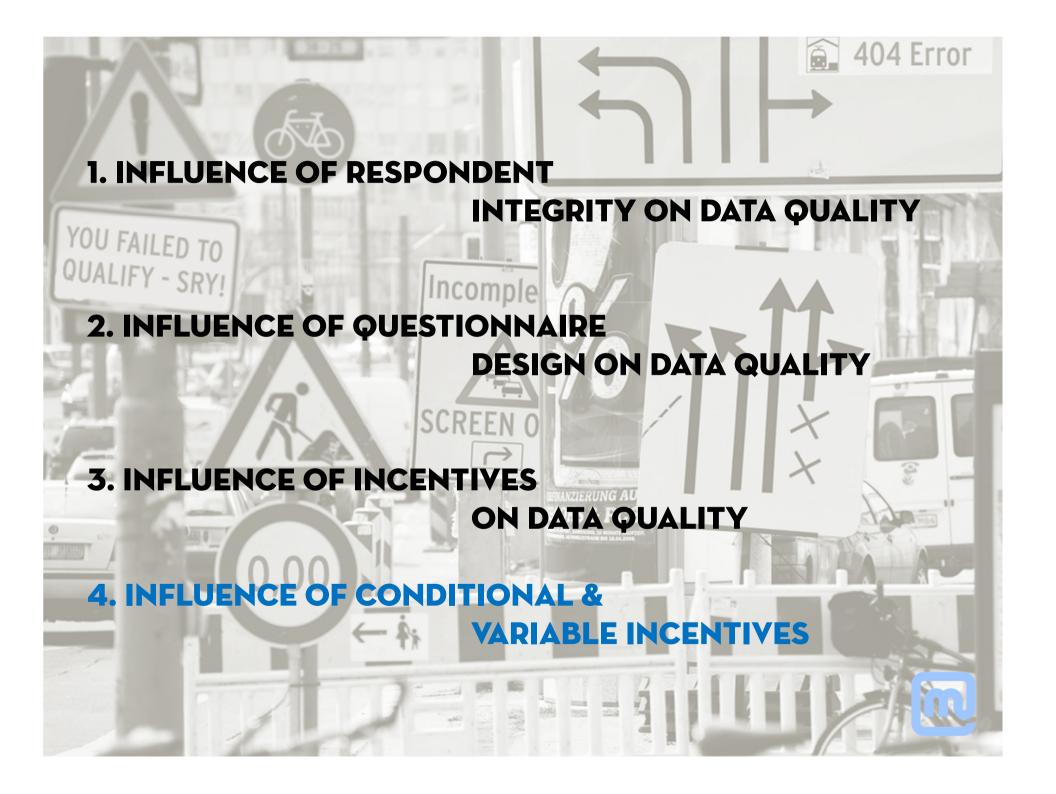


# DATA QUALITY IN ONLINE SURVEYS 4.1 VARIABLE INCENTIVES











#### **RESPONDENT INTEGRITY**

Longitudinal survey on "Economic Climate"

N= 70k interviews in 2012 months in UK, FR, DE, IT & ES

Identification of manipulative respondents

## **QUESTIONNAIRE DESIGN**

Experimental test design with 3 questionnaire types

N= 4.1K interviews

#### **INCENTIVES**

Experimental test design with 8 different incentive types

N= 4K interviews

Incentive experiment with a choice of incentives

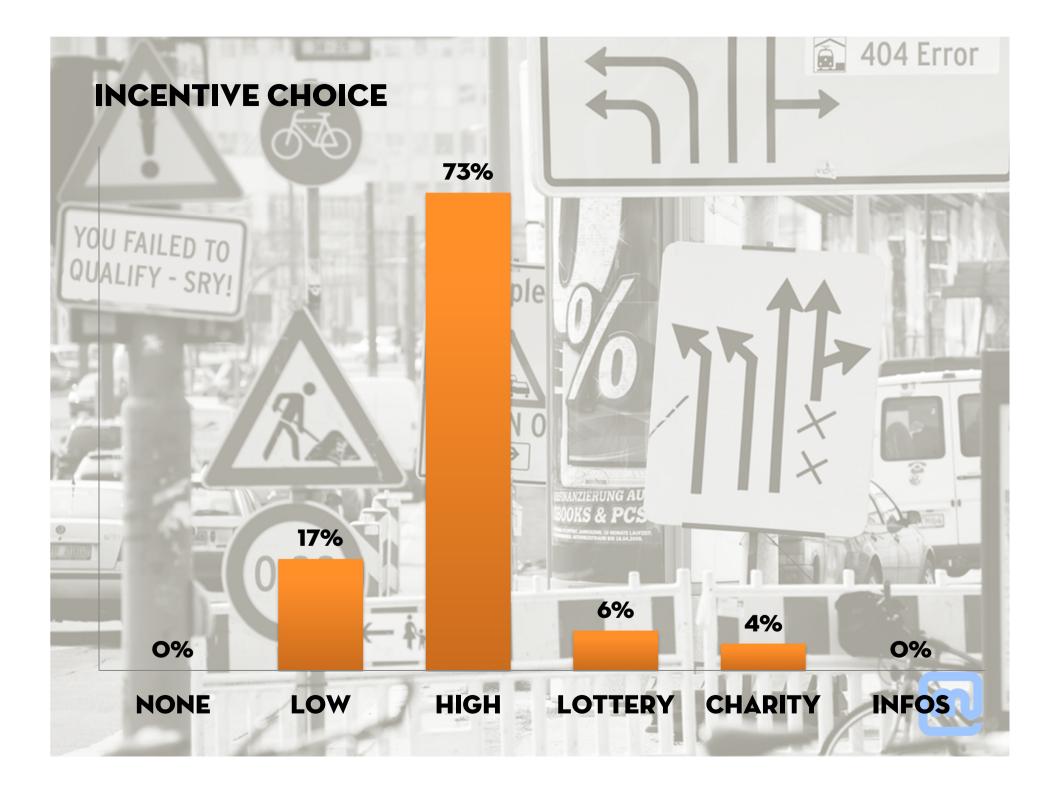
Incentive experiment with variable incentives

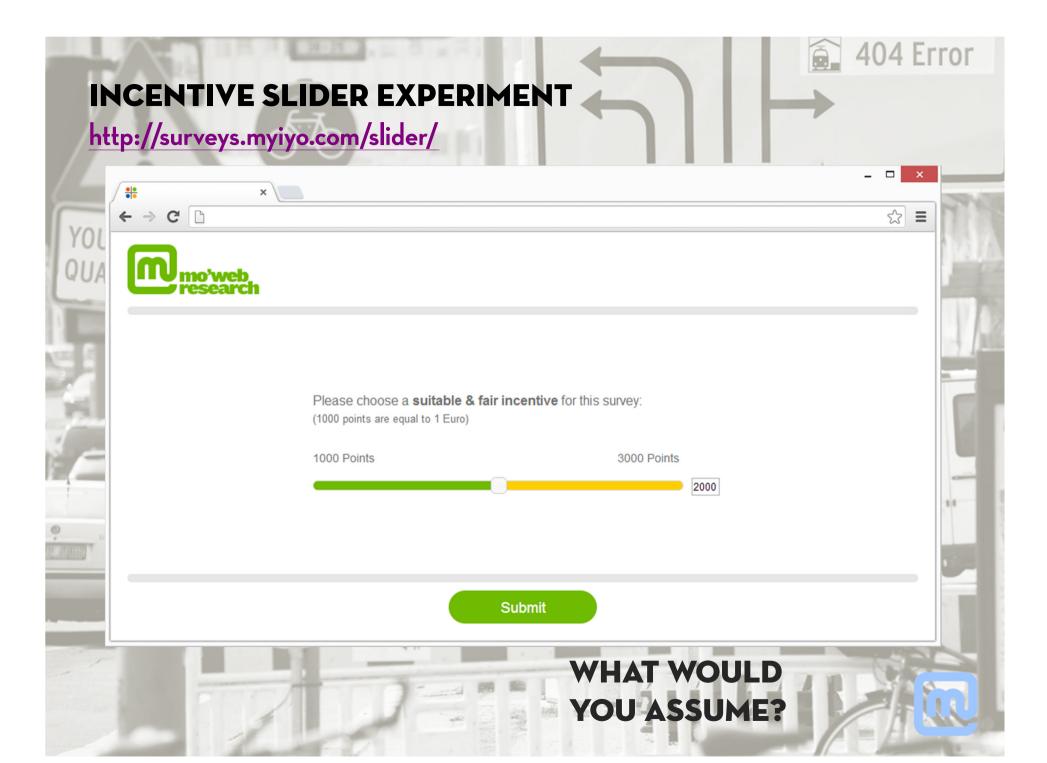


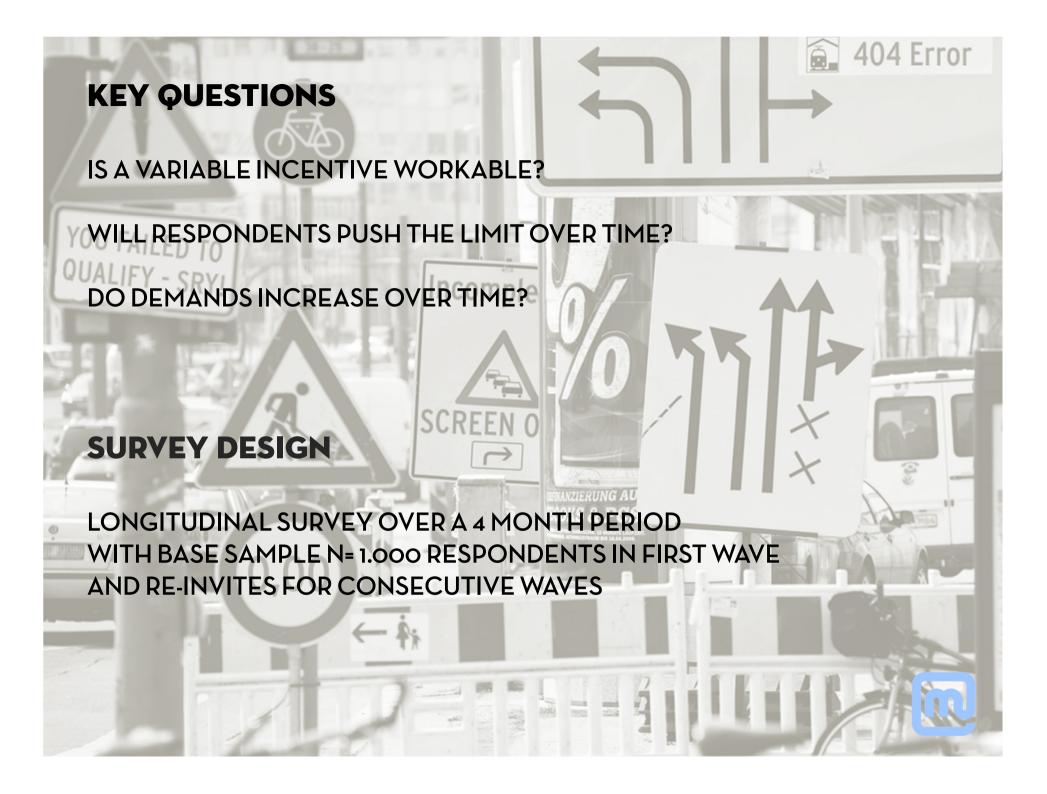
## **INCENTIVES - SUMMARY**

	NONE	LOW	HIGH	LOTTERY	CHARITY	INFOS	CHOICE
RESPONSE							
RATE	24,6%	26,6%	28,5%	26,6%	15,0%	19,2%	24,3%
QUALITY							
XCLUSIONS	70	<b>73</b>	<b>52</b>	77	80	<b>75</b>	58
AVG TIME							
COMPLETE	5,7	6,4	5,7	5,5	6,1	5,1	6,9
CRONBACH							
ALPHA	0,897	0,920	0,917	0,917	0,917	0,907	0,914
LIKABILITY	89%	90%	96%	86%	83%	87%	85%
WILL TO							
REPEAT	96%	98%	99%	98%	96%	<b>95</b> %	98%
POSITIVE	4%	10%	14%	8%	6%	2%	18%
					57.5		

PRESENTED AT RESEARCH&RESULTS 2013









# SAMPLE PLAN & ENGAGEMENT

0,00

	WAVE 1 Nov 13	WAVE 2 Dec 13	WAVE 3 Jan 14	WAVE 4 Feb 14
GROSS SAMPLE	1.562	1.000	1.000	1.000
Non response		206	115	139
Dupes	11	0	0	0
Screen out	25	2	3	4
Overquota	478	0	0	0
INCOMPLETE	48	61	<b>32</b>	17
CLEANED GROSS SAMPLE	1.000	740	827	814

## **VARIABLE INCENTIVES**



YO		WAVE 1 Nov 13	WAVE 2 Dec 13	WAVE 3 Jan 14	WAVE 4 Feb 14
	AVERAGE INCENTIVE	€ 2,63	€ 2,61	€ 2,52	€ 2,47
	Minimum (1.000 Points)	0%	0%	0%	0%
15	1.000 to 1.500	5%	5%	4%	4%
	1.500 to 2.000	9%	8%	13%	11%
	2.000 to 2.500	17%	22%	25%	32%
	2.500 to 3.000	69%	65%	58%	53%
	thereof max (3.000)	62%	57%	49%	31%

# THE "LIKE" FACTOR

WAVE 1	WAVE 2	WAVE 3	WAVE 4	BENCH
Nov 13	Dec 13	Jan 13	Feb 14	MARK
59%	63%	64%	64%	29%
39%	36%	34%	33%	44%
98%	99%	98%	97%	<b>73%</b>
: <b>AT</b>				
EAI				
96%	96%	97%	97%	61%
3%	4%	2%	2%	15%
99%	100%	99%	99%	<b>76%</b>
	Nov 13  59% 39% 98%  EAT 96% 3%	Nov 13  Dec 13  59% 63% 39% 36% 98% 99%  EAT  96% 96% 3% 4%	Nov 13  Dec 13  Jan 13  59%  63%  36%  34%  98%  98%  98%  98%  97%  3%  4%  2%	Nov 13 Dec 13 Jan 13 Feb 14  59% 63% 64% 64%  39% 36% 34% 33%  98% 99% 98% 97%  EAT  96% 96% 97% 97%  3% 4% 2% 2%



## I AM HAPPY...



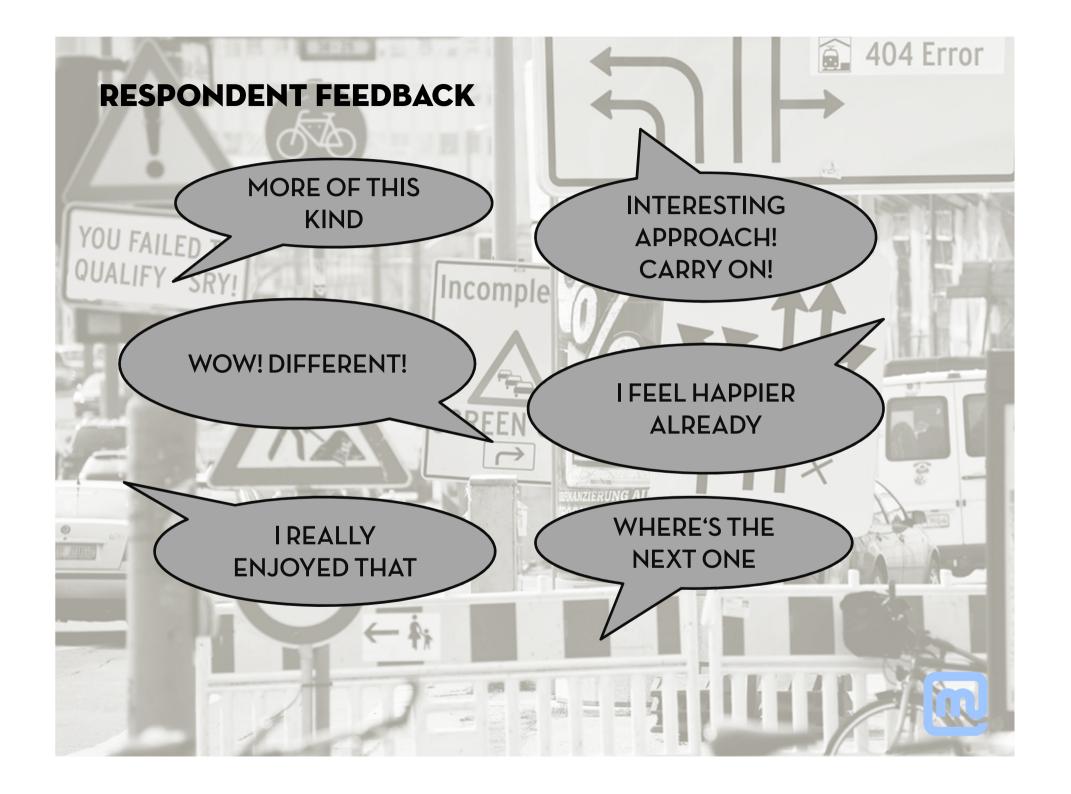
	WAVE 1 Nov 13	WAVE 2 Dec 13	WAVE 3 Jan 14	WAVE 4 Feb 14	BENCH MARK
OXFORD HAPPINESS SO	CORE				
Happiness Score (29 to 174)	120	120	124	124	116
Happiness Level (1 to 6)	4.1	4.1	4.3	4.3	4.0

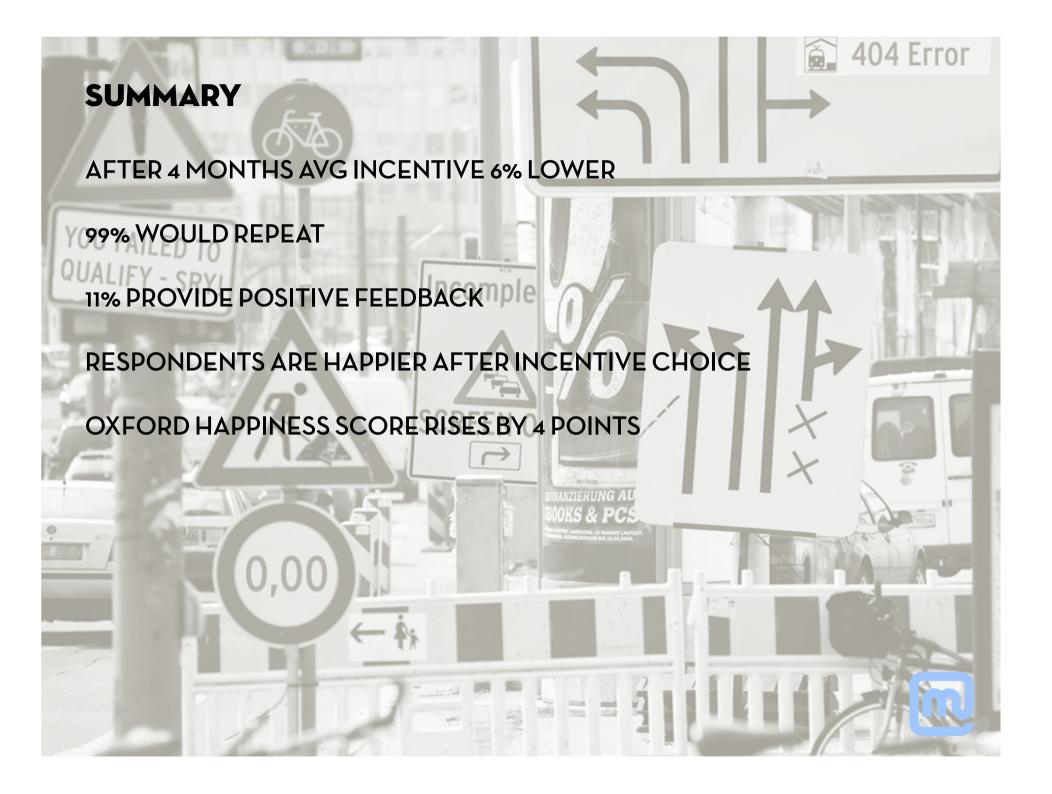
Peter Hills and Michael Argyle of the Oxford Happiness Project, Oxford University;
"The Oxford Happiness Questionnaire: A compact scale for the measurement of
psychological well-being." published in Personality and Individual Differences, Vol. 33, 2001.

## INFLUENCE ON MOOD

	WAVE 1 Nov 13		WAVE 4 Feb 14	
BEFORE				
TOP 3 BOX (happy)	70%		75%	
BOT 3 BOX (unhappy)	8%		8%	
AFTER		DIFF.		DIFF.
TOP 3 BOX (happy)	82%	+12%	84%	+9%
BOT 3 BOX (unhappy)	2%	-6%	4%	-4%

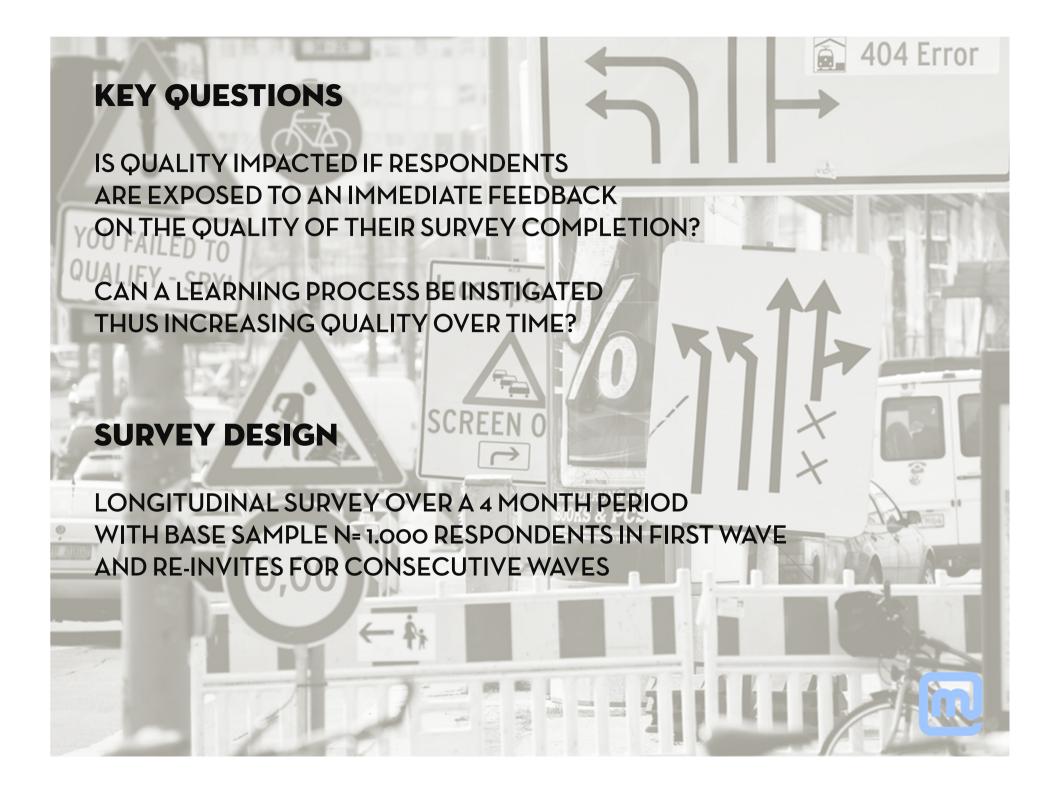


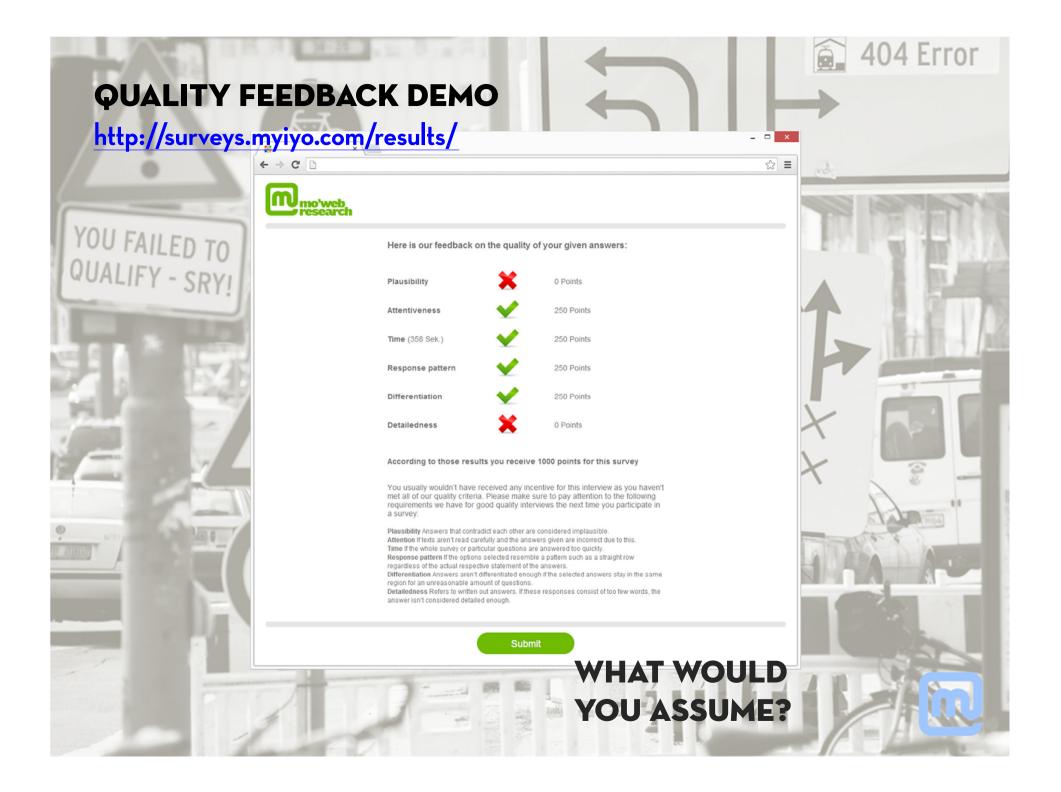












# SAMPLE PLAN & ENGAGEMENT

	WAVE 1 Nov 13	WAVE 2 Dec 13	WAVE 3 Jan 14	WAVE 4 Feb 14
GROSS SAMPLE	1.510	1.000	1.000	1.000
Non response		237	156	168
Dupes	8	0	0	0
Screen out	17	2	1	2
Overquota	436	2	1	0
INCOMPLETE	49	19	15	16
CLEANED GROSS SAMPLE	1.000	740	827	814



# QUALITY

	WAVE 1 Nov 13	WAVE 2 Dec 13	WAVE 3 Jan 14	WAVE 4 Feb 14
CLEANED GROSS SAMPLE	1.000	740	827	814
QUALITY EXCLUSIONS	138 13,8%	89 12,0%	74 8,9%	49 6,0%
Plausibility	54	37	25	16
Attention	88	62	51	41
Speeding	32	22	17	14
Overexerted	51	44	22	19
Straightlines	107	56	48	43
Differentiation	47	29	25	25
Diligence (Open Ends)	117	51	33	33
NET CLEAN SAMPLE	862	651	753	765



### **RELIABILITY AND CONSISTENCY**

	WAVE 1 Nov 13	WAVE 2 Dec 13	WAVE 3 Jan 14	WAVE 4 Feb 14
CRONBACH'S ALPHA				
Reliability α	0,933	0,916	0,923	0,932
Std. Error	0,099	0,091	0,083	0,099
PEARSON CORRELATION				
"I am very happy" vs.				
"I am unhappy"	-0.569	-0.399	-0,417	-4,763

Lee Joseph Cronbach (1916–2001): Cronbach's Alpha, The Generalizability Theory



## INFLUENCE ON MOOD

	WAVE 1 Nov 13		WAVE 4 Feb 14	
BEFORE				
TOP 3 BOX (happy)	73%		72%	
BOT 3 BOX (unhappy)	8%		7%	
AFTER		DIFF.		DIFF.
		DIFF.		DIFF.
TOP 3 BOX (happy)	77%	+4%	79%	+7%
BOT 3 BOX (unhappy)	9%	+1%	4%	-3%



#### SUMMARY

SIGNIFICANT DECREASE IN EXCLUSIONS ON ACCOUNT OF FRAUDULENT BEHAVIOUR (13,8% -> 6,0%)

DATA QUALITY REMAINS STABLE (CRONBACH α)

QUALITY FEEDBACK INTERESTS AND MOTIVATES RESPONDENTS

RESPONDENTS ARE SIGNIFICANTLY HAPPIER AFTER QUALITY FEEDBACK



#### CONCLUSIO

INTERACTIVE PROCESSES, SELF
DETERMINATION AND FEEDBACK
LOOPS MAKE RESPONDENTS HAPPIER

MOTIVATING RESPONDENTS TOWARD GOOD BEHAVIOUR BENEFITS US ALL

FAR MORE THAN SANCTIONING BAD BEHAVIOUR EVER COULD

...LET'S SEEK TRUTH NOT SPOT LIES!



