

Putting Respondents First; user centred design approaches at ONS

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28.09.21

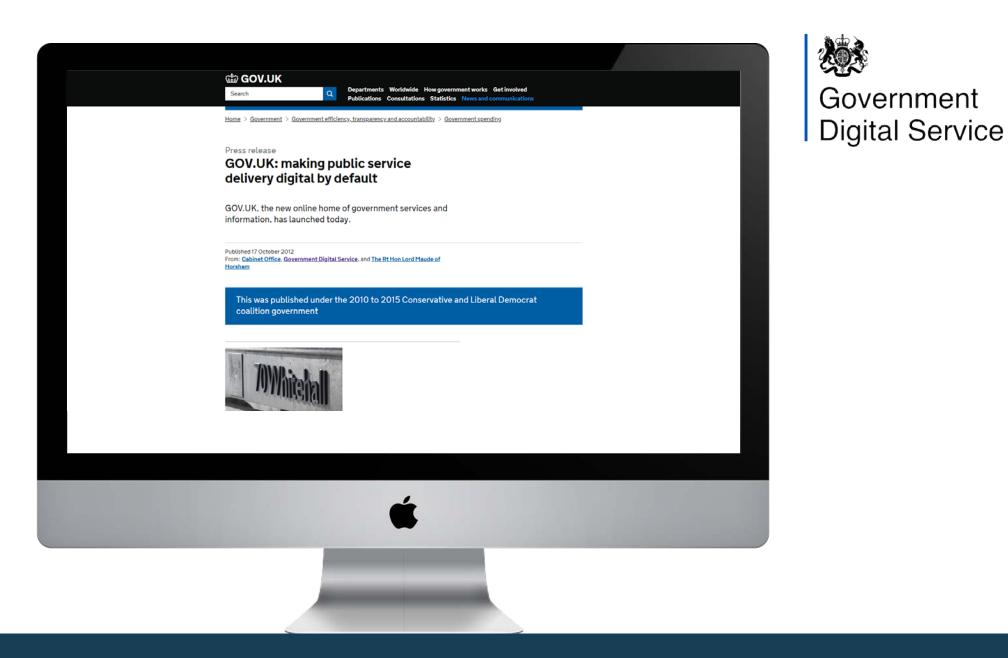


What is User Centered Design?

User-centered design (UCD) is an iterative design process in which designers focus on the users and their needs in each phase of the design process. In UCD, design teams involve users throughout the design process via a variety of research and design techniques, to create highly usable and accessible products for them.













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COV.UK

Ŵ Government **Digital Service**

















How many people live in your household, including yourself, and any children and babies?

Please include all people who have this accommodation as their only residence.

- For people with more than one address please click the descriptions below and follow the include/exclude guidance.
- > Students away at university/college, student nurses, children at boarding school
 - INCLUDE: Children under 19 at boarding school/college
 - INCLUDE: Students living in a hall of residence in term time:
 - EXCLUDE: Students NOT living in a hall of residence
 - A hall of residence is a property connected to a particular educational establishment that provides communal accommodation for students attending there.
- EXCLUDE: Student nurses living away in NHS accommodation

> Other people living away

For example, working away from home, in prison, in hospital, in a nursing home:

- INCLUDE: If for less than 6 months
- EXCLUDE: If for 6 months or more, even if this address is considered to be their main residence
- > People here temporarily while looking for permanent accommodation

INCLUDE

> People normally resident abroad

EXCLUDE

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- > Second home/holiday home
 - EXCLUDE: If this address is a second home/holiday home for anyone (even if this means the answer is '0')

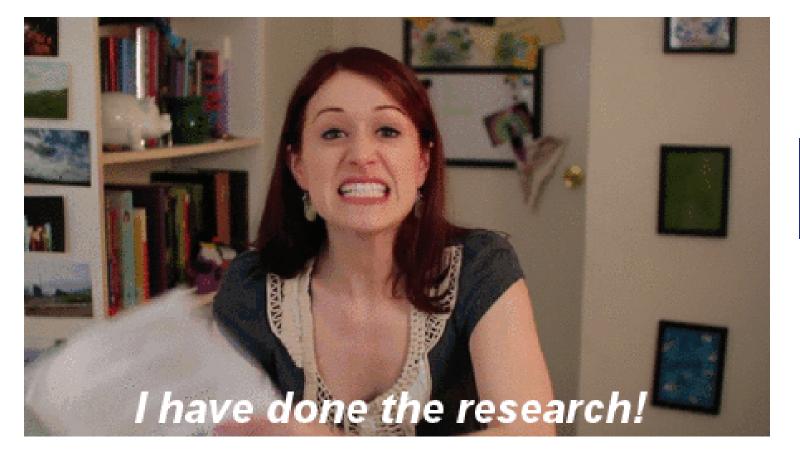




1. R&D Team

Save & exit







Government Digital Service





Rubbish In





Rubbish Out





Respondent Centred Design Framework (RCDF)

- 1. Establish the data user need
- 2. Mental model research
- 3. Understand user experience and needs
- 4. Use data to design
- 5. Create using appropriate tone, readability and language
- 6. Design without relying on help
- 7. Take an 'optimode' approach to design
- 8. Use adaptive design
- 9. Conduct 'cogability' testing
- 10. Design inclusively

https://gss.civilservice.gov.uk/policy -store/a-user-centred-designapproach-to-surveys/

(Wilson and Dickinson, 2021)



RCD Framework 1/2



- 1. Establish the data user need
- 2. Mental model research

3. Understand user experience and needs

User stories and journeys are key tools when designing a survey: "As a [insert]...I need [insert]...so that [insert]".

4. Use data to design

5. Create using appropriate tone, readability and language

Conversational, not chatty.



RCD Framework 2/2



6. Design without relying on help

7. Take an 'optimode' approach to design

'Optimode' means to design the respondent communications and the questionnaire optimally for each mode; tailoring

8. Use adaptive design

The interface adapts to the screen size and displays the content accordingly.

9. Conduct 'cogability' testing; interviews

10. Design inclusively



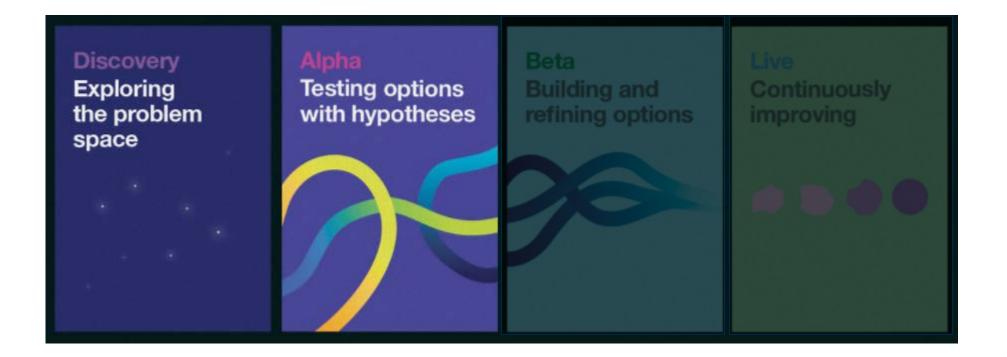
GDS design principles



Office for National Statistics

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Agile delivery of the research





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Agile delivery of the research

Discovery

Discovery Exploring the problem space

Phase 1 – Qualitative work



Step 1 – Data user needs





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Step 2 – Interviewers & Obs





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Step 3 – Design with Data





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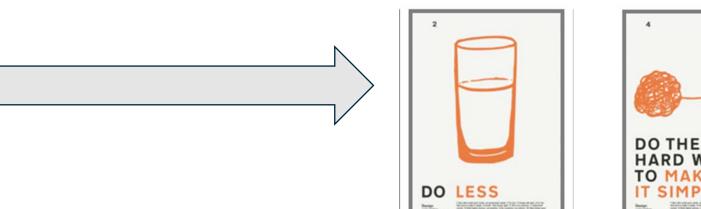
Step 4 – Analyse and create

Analyse all you've collated and create:

1042MV UNDERSTAND CONTEXT the manufacture

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- User stories 1.
- User needs 2.
- 3. **Research** grid
- Plan 4.

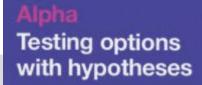




2. Principles in Agile

RD WORK ΜΑΚΕ

MPLE



Agile delivery of the research

Alpha

Alpha Testing options with hypotheses



Phase 2 – More qualitative work



Testing options with hypotheses

Step 1 – Prototype (1/2)



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Alpha Testing options with hypotheses

Step 1 – Prototype (2/2)

Approach - you MUST follow these steps:

- Employ the GDS Design Principles (e.g. do the hard work to make it simple)
- □ Design 'mobile first' constrain your space to focus your content
- Blue sky thinking
- Design for personal and proxy completion
- □ Share your prototypes with interviewers before testing with the public

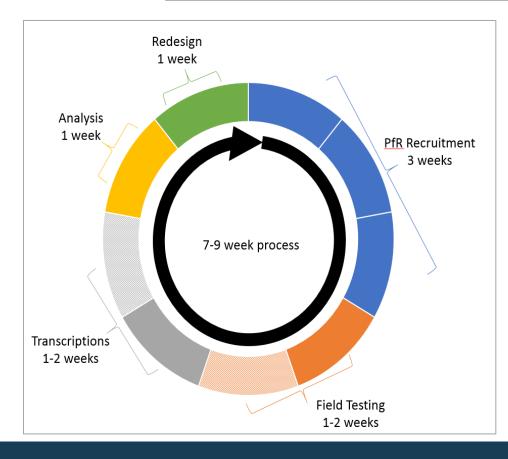




Step 2 – Test

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1. First test of designs: ITERATION 1



 ✤In your own words ✤Easy/difficult 	during completion that needs revisiting
[Q stem specific]	0
[Response option specific]	
Anything that happened	

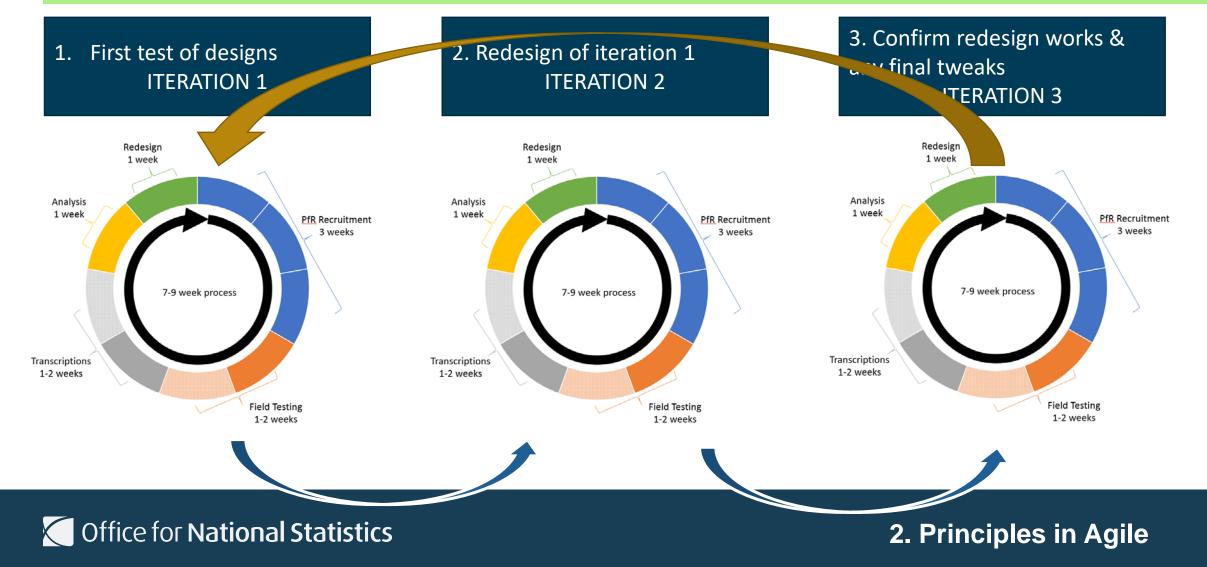


2. Principles in Agile

Testing options with hypotheses

Testing options with hypotheses

Step 3 – Redesign/ reiterate





User centred design approach to accidents in the workplace questions

Case study: ACCDNT



What we did...



Activities

Interviewers

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Stakeholder

Requirement_template_for_RD_V4_docx - Last Modified: 3 January

HSE requirements for R&D

The purpose of this document is to aid the stakeholder to provide the correct level of information that R&D require for transformation; R&D have develo a template that needs to be completed for all current module questions and any proposed questions.

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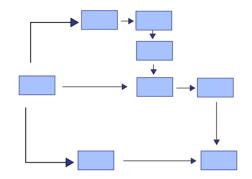
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This document has been partially completed with the requirements sent from HSE (15.01.19)

Layout References Mailings Review View Help ,O Search

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Contents
1. Injury in the workplace
1. Current questions in module (BAU)
1.1. Accord





ACCDNT	UK
Thinking of the twelve months since [full date], have you had any	JM
accident resulting in injury at work or in the course of your work?	MAIN
	HSE
1 yes	
2 no	
ONS 🖌 GOV 🖌 EUL 🖌	
Applies if respondent is in work or left job within the last year	
WRKING =YES or JBAWAY=YES or OWNBUS=YES or RELBUS=YES or	
TYPSCH12=1/2/3/5/8/9 or (YTETJB=yes and TYPSCH12=4/6/7/10/11) or	
((Year(REFDTE)-(LEFTYR)<1) or (Year(REFDTE)-(LEFTYR)=1 and Month(REFDTE) <leftm))< td=""><td></td></leftm))<>	





What we learned...

Scale of injuries '....accident...'



1. Scale of injuries (I)

Interviewers

Public

"It does sound serious and if you want something that's not serious, that's not the question"



"There might be stitches or a cast involved. Like a more serious kind of thing"





Stakeholder

1. Scale of injuries (I): Frequencies

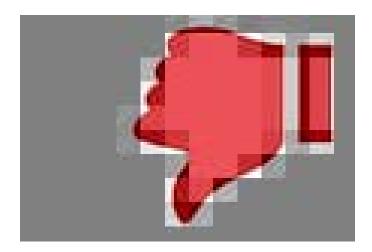
	Percent	
Amputation	.7	
Fracture broken bones	12.5	
dislocation	4.1	
sprain	24.4	
superficial	20.2	
lacerations	13.7	
chemical or metal burn	.9	
Burns scalds	3.8	
Other	17.9	
Other multiple injuries	17.9 1.3	BAU LFS 2018 re-v data





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• Q not capturing data user requirements (all scale of injuries)



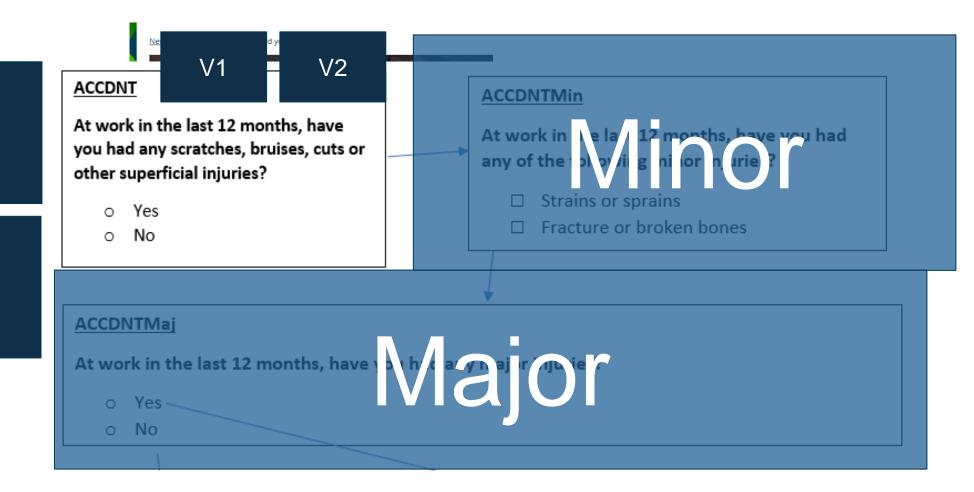


1. Scale of injuries (I)

N=170 Randomly split into 3 groups

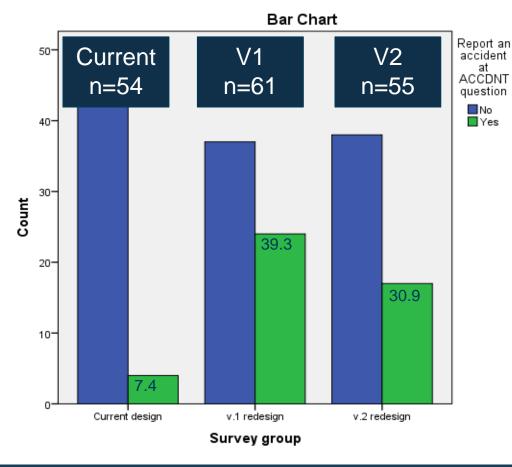
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ACCDNT
 V1 redesign
 V2 redesign





1. Scale of injuries (I)

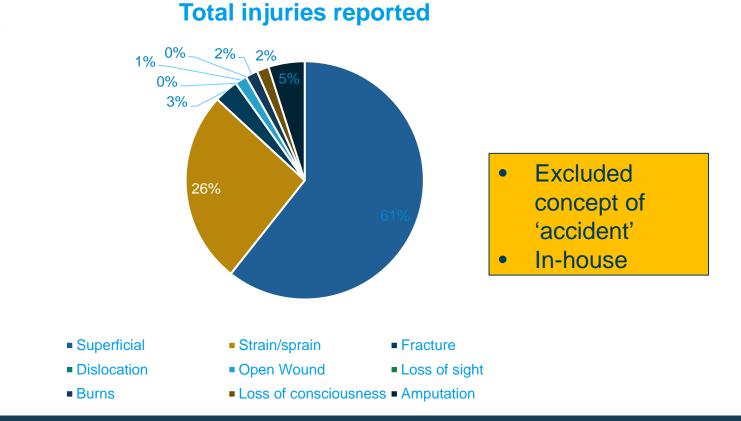


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V1 Redesign

At work in the past 12 months have you been hurt, even including scratches, bruises or cuts? • Yes

0 **No**



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- Re-designed Q including guidance = more successful at capturing superficial injuries
- Q taken forward explored as new opener to the module

V1 Redesign	
At work in the past 12 months have you	
been hurt, even including scratches, bruises	
or cuts?	
o Yes	
0 No	





What we learned...

Scale of injuries '....accident...'



Activities

Interviewers

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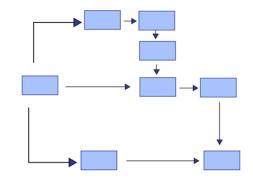
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Contents
1. Injury in the workplace
1. Current questions in module (BAU)
1.1. Current Questions in Module (BAU)
1.1. ACOMF



2. '...accident...'



Interviewers

"if I saw it I'd think it was an accident and injury at work resulting in some sort of claim or action."



Public

"I don't know if this is the adverts that have kind of put this logic into my head. That an injury at work is something you can claim for, and anything else is not."



2. Insights

- The word 'accident' is problematic
- Related to 'scale of injuries' finding
- Concerns around confidentiality





2. '...accident...': removal

Any injuries, even including scratches, bruises or minor cuts?



Have you been hurt or injured during your time at work in the past 12 months in any of the following ways?

Please select all that apply

□ one-off event at work



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2. '...accident...': removal

One-off event at work

"I didn't really understand what it meant by that... I think like sort of like a an award day or something like that for customers...



"If I got injured at just like an event at work..."



2. '....accident...'

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one-off event at work





2. '....accident...'

one-off event at work





"One-off injuries - like a fall or whatever"

"its something that is unusual I guess, tripping over a corner of a carpet that's poking out or not concentrating when pouring coffee" " 'one-off' explained to me it was that one [to select]"



2. Insights

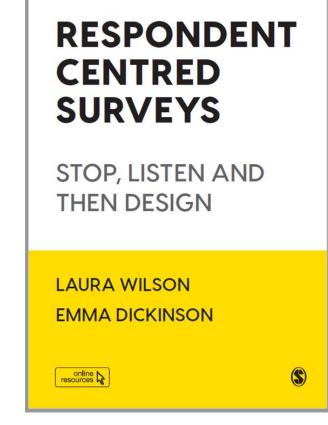
- 'Accident' removed due to mental models
- New terminology that respondents understand to collect data user requirements











Book publication Nov 2021 (SAGE Publishing)

