



Protecting and improving the nation's health

Embedding Behavioural Science in Good Thinking Behavioural change and theory of change model



Logic model of Theory of Change



Rationale (reasons for emergent need and market opportunity) Assumptions (principles underlying service development)

NHS & other

branding increases

likely to be used

People use digital/

online health

mediums for

information and help

People will engage

with self-care

options

Input Output (program (tangible products & components & services offered) resources)

Outcome (changes that result from outputs) Impact (long-term aims to be achieved)

Traditional mental health services do not reach Londoners equitably

People can't find

what they need

online

People benefit from

immediate response

Digital services can

be used repeatedly

Digital services can provide resources cheaper than their alternatives

seeking help

ligital services can

direct people to

appropriate

resources faster

Self-care can prevent

more serious mental

health issues

Free apps are more

relevant, trusted NHS services

Immediate

signposting to

programme progress=

nvestment to reduce the cost of access to trustworthy apps

Direction towards personalised, evidence-based apps

argeted advertising

Feedback/ estimonials from other users

> rgent support resource

Support for people ffected by London's terror attacks

Behavioural change techniques embedded in intervention IAPT referral pathway

Mental health resource when NHS services are not available

nonymity & privacy

Access to relevant, trusted NHS services evidence-based apps, community service, and info on self-care to

Ownership over one's mental wellbeing (self-assessment)

Provision of relevant information

User-friendly, evidence-based information (increased accessibility) NHS branding ensures trustworthiness of resources and increases use

Improved knowledge & awareness about mental (ill) health

Sense of community

Improved individual mental wellbeing

Reduced personal stigma around mental illness

People empowered to take charge of their mental wellness

Improved decision-making / reduced decision conflict/ fatigue

Uptake of self-care management strategies

Appropriate use of mental health services in the NHS

Provision of cost-effective mental health services to Londoners

Reduced inequalities in receiving mental wellbeing resources in London

Improved Londoners'
mental wellbeing

Personalised digital mental health care

Legend

individual

societal

institutional



Rationale and emergent need

Legend

individual

societal

institutional

Good Carrier Thinking

Traditional mental health services do not reach Londoners equitably

People benefit from immediate response

Digital services can direct people to appropriate resources faster

Societal stigma prevents people from seeking help

Digital services can

provide resources

cheaper than their

alternatives

People can't find what they need online

Digital services can be used repeatedly

Self-care can prevent more serious mental health issues



Underlying principles

NHS & other branding increases

Free apps are more likely to be used

trust

People use digital/
online health
mediums for
information and help

People will engage with self-care options

Legend

individual

societal

institutional





Inputs (programme components)

Legend

individual

societal

institutional

Immediate
signposting to
relevant, trusted NHS
services

Investment to reduce the cost of access to trustworthy apps

Direction towards personalised, evidence-based apps

Targeted advertising

Feedback/
testimonials from
other users

Urgent support resource

Support for people affected by London's terror attacks

Behavioural change techniques embedded in intervention





Output (products and services)

Legend

individual

societal

institutional

IAPT referral pathway

Mental health resource when NHS services are not available Anonymity & privacy

Access to relevant, trusted NHS services, evidence-based apps, community service, and info on self-care to Londoners Provision of relevant information

Ownership over one's

mental wellbeing

(self-assessment)

User-friendly, evidence-based information (increased accessibility)





Outcomes



NHS branding
ensures
trustworthiness of
resources and
increases use

Improved knowledge & awareness about mental (ill) health

Sense of community

Improved individual mental wellbeing

Reduced personal stigma around mental illness

People empowered to take charge of their mental wellness

Legend

individual

societal

institutional

Improved
decision-making /
reduced decision
conflict/ fatigue

Uptake of self-care / management strategies



Impact (long-term aims)

Legend

individual

societal

institutional

Appropriate use of mental health services in the NHS

Provision of cost-effective mental health services to Londoners

Improved Londoners' mental wellbeing

Personalised digital mental health care

Reduced inequalities
in receiving mental
wellbeing resources
in London





Behavioural science approach





Stage 2: Identify **Intervention Options** Stage 3: Identify content and implementation options

Checklist for the Alpha phase (version 1.0)

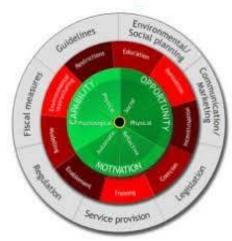
Who needs to do it Completed
PO | BI | SM | DI* | Y | N | N/A

Partial

Mandatory

Alpha

Developing and testing prototypes with small user groups



Capability Behaviour Opportunity

Discovery

Conducting user research and understanding user needs

PO: Project Owner; BI: Behavioural Insights; SM: Social Marketing; DI: Digital; *A variety of digital skills could be brought in to deliver the product, as PHE Digital teammay not be able to get involved beyond the spend controls process; ** involve people with statistical expertise

Beta

(Activities can be completed in parallel or in sequence, as suggested below) 1. Specify behaviour change intervention module

2. Develop 'white-boards' to present a schematic of the

Develop 'wire-frames' (screens and how they will be interacted with) for more detailed representation of the

until it is suitable for further testing Test prototype intervention among porevise until it is suitable for further development . Identify and operationalise a clear optimisation criterio given constrains (i.e. time, cost, participants logistical or

5. Test prototype intervention among stakeholders and revise

Test intervention components experimentally and evaluate

reasonable to expect that it may have a worthwhile effect 10. Pilot test procedures and the delivery of the intervention in

against optimisation criterion identified in #7. Depending on findings from #8, revise the intervention: needed and develop the intervention to the point where it is

intervention content

cognitive burden)

given context
11. Estimate recruitment and retention 12. Determine sample size requirements for definitive evaluation*, finalise analysis plan and submit protocol for

13. Identify team involved in the Beta phase

intervention 4. Develop prototype intervention

Developing at larger scale, making test version available to the public



Behavioural Science embedded

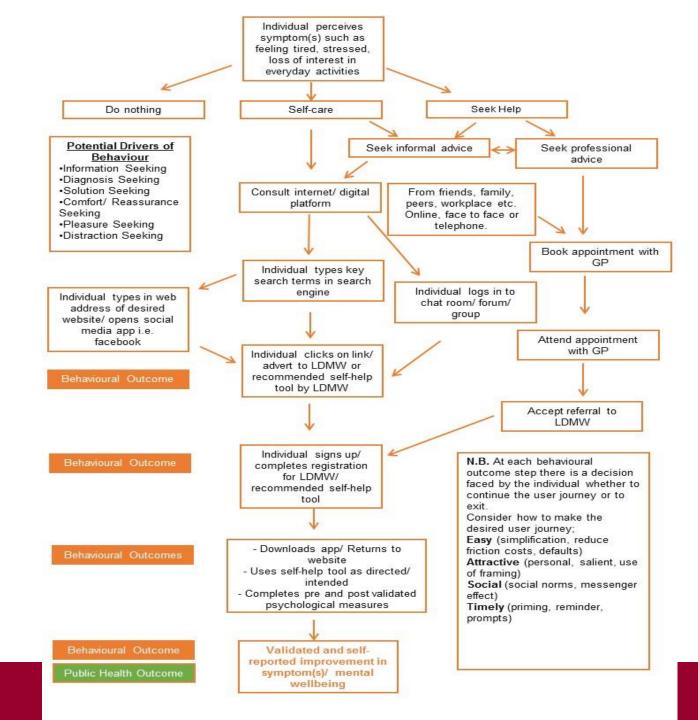


- A behaviour change strategy to underpin the whole programme based on theory and evidence
- 2. Advise on and help analyse qualitative and user needs research
- Identified drivers of behaviour and developed the behavioural pathway to advise on design of the end-to-end user journey
- Recommendations on user targeting, platform design and digital format to maximise the flow of users to and through the system
- 5. Enhancement of the national app endorsement process for increased due diligence on evidence of effectiveness





Behavioural Pathway







objectives

Behaviour Change Options for Service design

Potential examples of intervention options using the EAST Framework

Intervention	EASY (or NOT)	ATTRACTIVE (or NOT)	SOCIAL (or NOT)	TIMELY (or NOT)
Reduce stigma of seeking help for symptoms related to mental health by increasing social norms.	Ordering effects: Health professionals encouraged to mention mental wellbeing at the beginning or the end of the therapy/visit.		Messenger effect: Work places promote Good Thinking	Public Health England It was behaviour at chricklet A What behaviour one or trying 1. What behaviour one or trying 2. Who needs to perform the whom'r are summit when are sum 3. What the drivers of behaviour? advant to manuage the individual of 4. What is the most appropriate manuage his individual of 4. What is the most appropriate manuage his individual of 1. What is the most appropriate manuage his individual of the assessment from
ncrease visibility of he service/ advert/link		Personalisation: Consider personalising the advert/ link depending on the search that triggered its appearance, making it more relevant and salient for the searcher	Messenger effect: Health professional recommends Good Thinking. Consider importance of branding/ logo – from a trusted reliable source.	S. How is the message framest between the control of the control o
Increase adherence, users first experience of the website	Reduce Friction costs - goal-setting + chunking: Users should be able to see their progress on Good Thinking and complete small	Personalise + Salience: Homepage should be as relevant as possible to the users initial search and their profile	Descriptive norm: consider the use of descriptive norms to encourage the user. i.e. other people like you are	Prompt, reminder or push notifications as part of app to encourage continued use/ engagement.

finding this service helpful





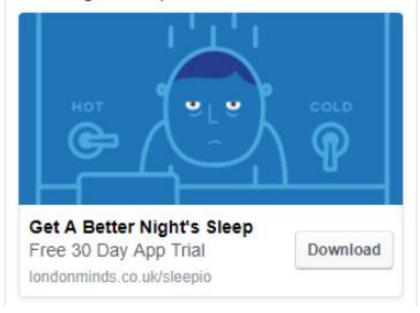
Example: Optimising engagement





Bad sleep getting you down? You're not alone.

We've teamed up with the NHS and Sleepio to provide a free 30 day app trial to help you find a better night's sleep.



Ambiguity around 'you're not alone'

Should be more explicitly about support

Some people will feel extremely isolated - being told they are not alone just may not connect in with their experience



Example: Optimising app uptake





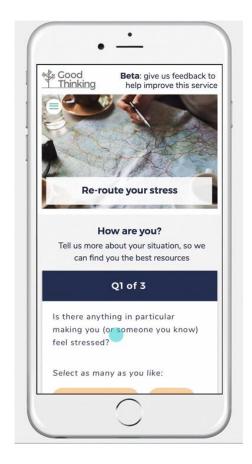
Some users struggled to find the right resource for them

High number of resources shown Did not feel personalised

Majority of users complete the 3 personalisation questions



So I have 26 resources, that's a lot of resources for someone suffering from anxiety. That's way too much, it's like which one is going to work? Should I use this or should I not?



Improvements to the filtering interface

Hide resources until options selected

Show a "loading" screen after user selects "get your results"

Reduce number of resources shown



If I'm going on this to find the best one for my specific condition and you give me 47 options it doesn't feel like it's really narrowed it down that much.



Enhanced app selection: three domains



Endsageilityenesteures

Арр	Reviewer 1	Reviewer 2	Average	Descriptive			
Chill Panda	62.5	62.5	62.5	ОК			
Catch it	75	80	77.5	Good			
Feeling Good	82.5	87.5	85	Excellent			
My Possible Self	72.5	72.5	72.5	Good			
Pzizz	87.5	72.5	80	Excellent			
My Cognition	47.5	65	56.25	ок			
Notification Notifications ADJECTIVE RATINGS Sharing on socia Integration with or devices	WORST IMAGINABL		GOOD EXCELLENT IN 70 80 90	BEST 1 1 0 0 0 100 100 100 100 100 100 100			



PHEBI: Making healthy behaviours easier

Develop and embed effective behavioural science evidence into public health practice

	Analyse		Design		Trial		Advise		Train
✓	Strategic Behavioural Analysis	✓	Interventions	✓	RCTs	✓	Policy	✓	Masterclasses
✓	Systematic literature review	√	Programmes	✓	Quasi-experimental studies	✓	Programmes	✓	Workshops
✓	Qualitative research	•	DIGITAL	✓	Evaluation	✓	Communication	✓	Seminars

INTENTION – BEHAVIOUR GAP:

We all have good intentions but often don't follow through.

"Changing behaviour by changing minds is unscaleable, increases inequalities, not very effective"

Professor Theresa Marteau, Cambridge

https://www.gov.uk/government/collections/behavioural-insights-public-health