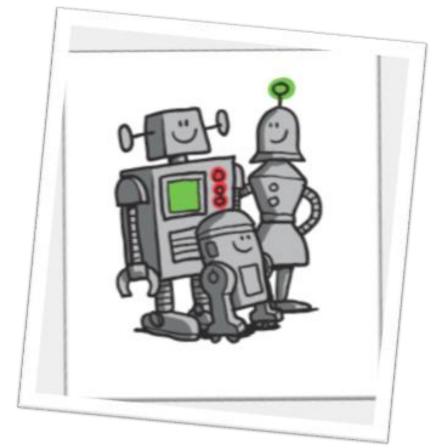
Busting myths on the use of bots in public services

Andrew Culpin,
Service Improvement Lead



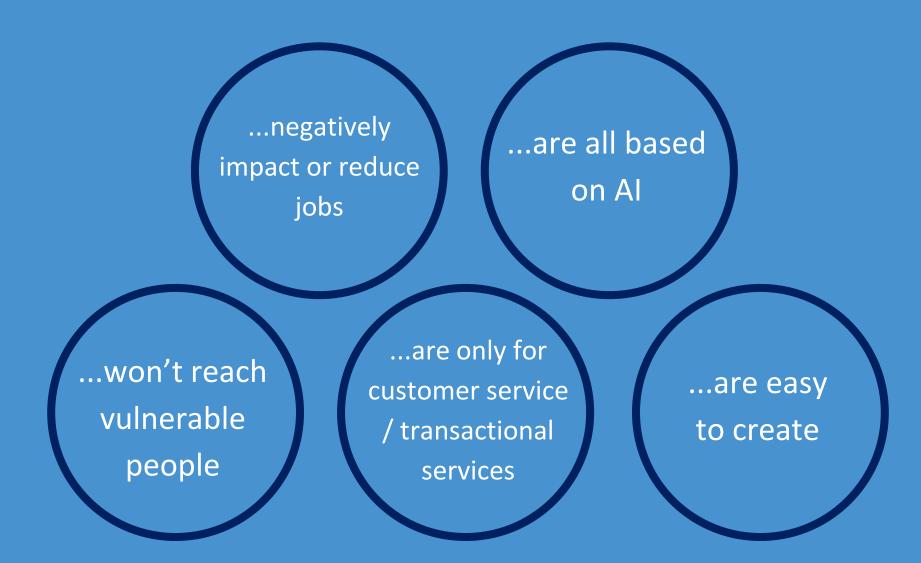


What is a chatbot?

A 'bot' is a term used for software that automates a task.

So a chatbot does that through conversation.

Myths about bots?





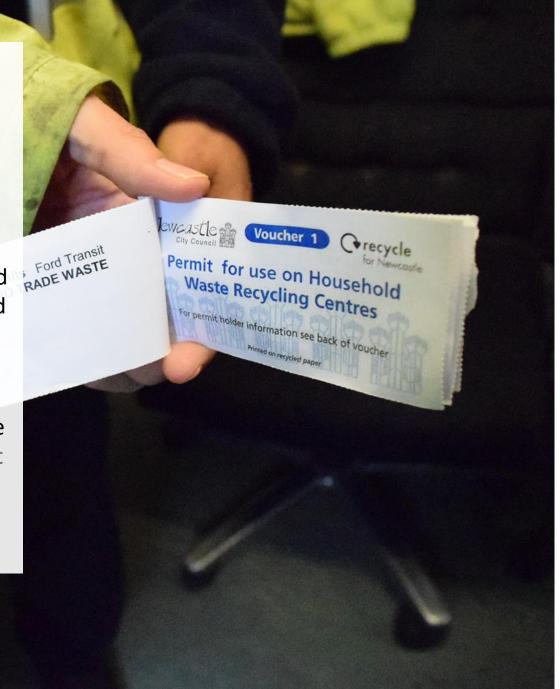
The brief

Help the service make efficiency savings by developing an "online permit process" to replace existing manual and paper based processes.

We didn't start out with the solution of using a chatbot

Manual, slow paperbased process

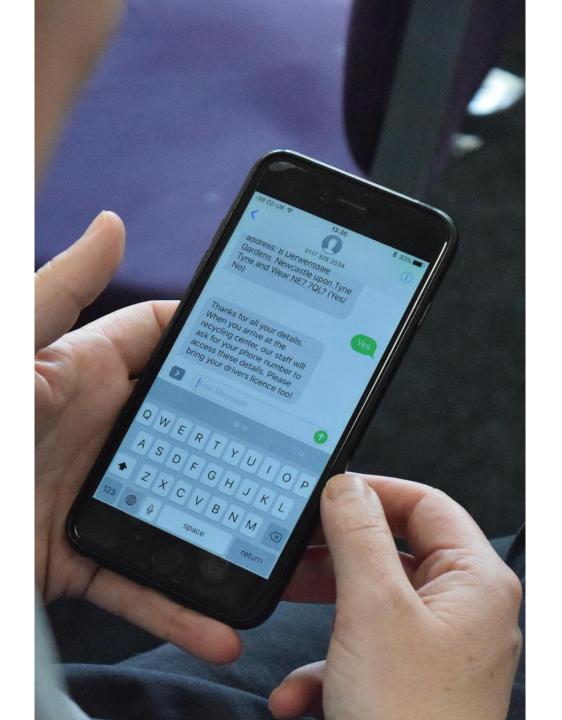
- Up to **14 days** to get a permit
- High volume of manual paperwork and administration for staff in granting and checking permissions
- Missing information on forms
- Difficult to use the data to manage the service (eg. tracking a registration that committed fraud)



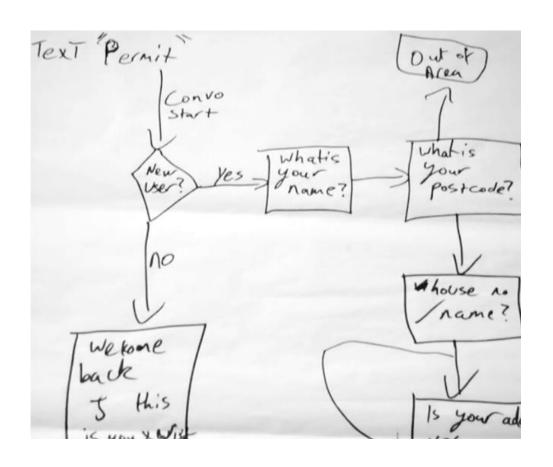
An SMS application process for users that also supported the service staff to verify permits on-site.

Why a chatbot like service?

- Confidence that users and staff had access to phone with SMS
- Removed manual administration
- Quick and easy for users



Design, prototype and testing

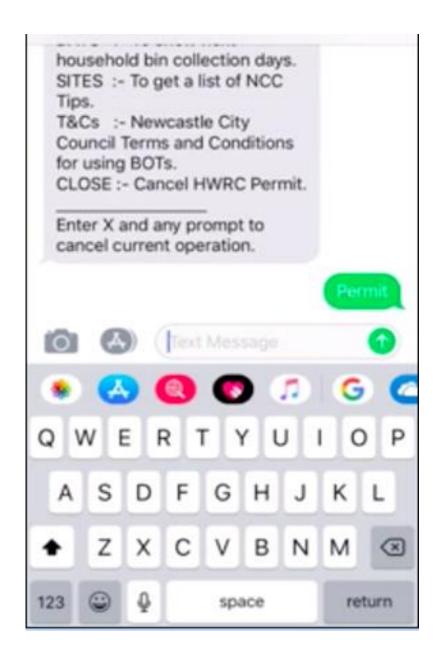




What we developed

An SMS service where you can apply and receive permits on your phone.

- Connected to data systems
- Checks against past applications/permits
- Non-mobile users can still get a permit via the contact centre given a reference number to use.
- Allows site staff to refuse entry and capture this data in a usable way



Impact

6813 users to date

Almost
100%
channel shift with no complaints

14 days to
90 secs
reduced time to
get a permit

• Financial savings of c. £27k - resource redeployed to focus on data analysis, adding more value

Impact

Engagement of initially sceptical workforce

Improved detection of fraud and inappropriate use of the sites and paper permits leading to less on-site conflict

Easier process more efficient for users

Less time needed to interpret documents and validate permits - **more time to assist residents** with waste onsite.

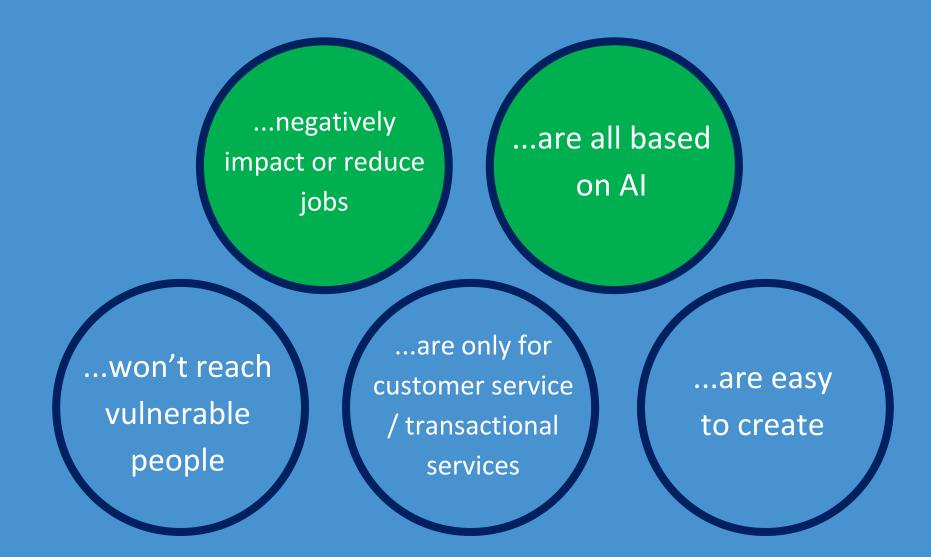
"...lot's of good feedback from staff...the old system was too easy to compromise." "It's dead straight forward."

"...reduced the amount of people who were giving false details on the old system. ...now staff can double check using the bot."

What we learned

- 1. Simple transactions like this work
- 2. Conversations need to be tested in the real world. Experiment and try things out to learn and keep iterating.
- 3. Context of the service is important not just leading with new tech/concept because it's there and available to use.
- 4. Not just designing the frontend experience and just a 'chatbot'. It connects to the backend experience of teams, service and systems.
- 5. Team sport including developers and others makes things better when designing and developing
- 6. Might need to consider 'terms and conditions' and public perceptions of 'bots'

Myths about bots?



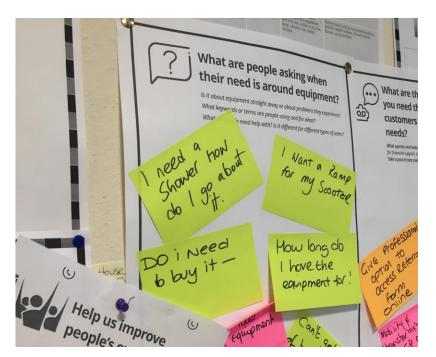


The brief

Help reduce the high-volume of calls to the adult social care contact centre.

Lots of avoidable contact about low level enquiries

- A lot of calls are for general information. About 22% result in no services provided
- People rely on the council for information and guidance that is also available elsewhere.
- Information is available elsewhere but can be hard to navigate
- People are not always aware of the services that can help them.

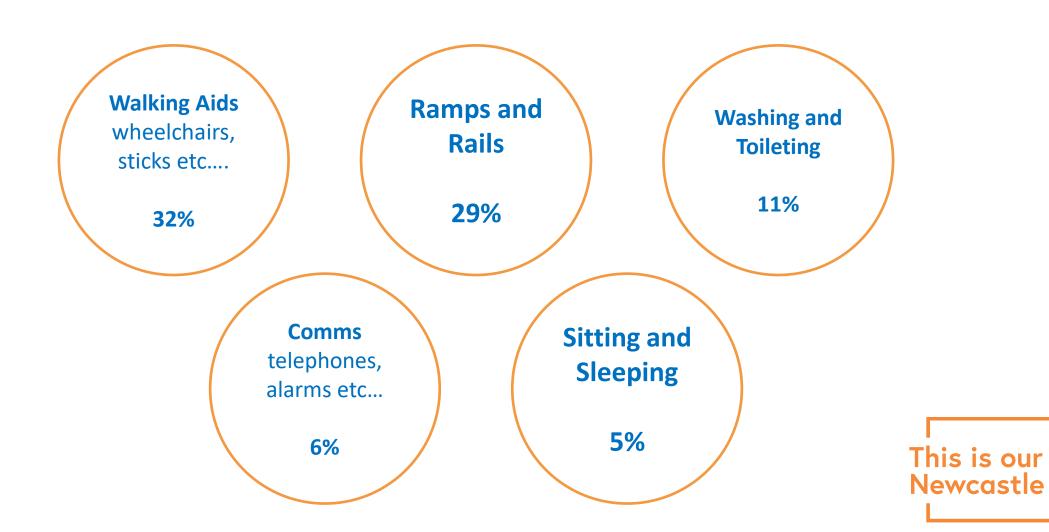




Most are calling on behalf of someone else

- Often it is not the end service users themselves who contact the service, but their relatives, carers or professional workers
- Many carers aren't seeking support, perhaps because they don't think they are a carer or know what is available for them.

Understanding user needs



Learn the language that people use



Deciding on type of interaction and conversation

We wanted it to be more open so that we can learn how people would and wanted to talk to it.

We did a bit of a mix of both open and closed.

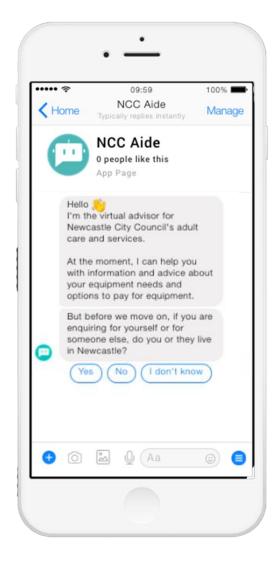
Open to capture initial concern and enquiry, closed to help guide people through information and advice.

Open vs Closed

People talk / type whatever they want

Conversation is scripted and people select options

Prototype and testing:







Open and ongoing

I could sit in bed and do this.

- older adult

This is going to replace me...

- staff at contact centre

I don't want to speak to anyone.

- young carer

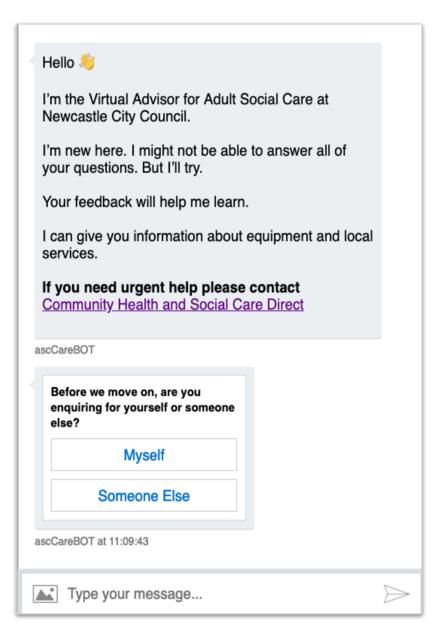
Where do I say what I'm looking for?

- older adult

What we developed

A virtual advisor chatbot that signposts and provides people with non-urgent advice related to equipment and service to help them better understand options available to them.

- Signpost to types of equipment and services based on issue/input
- Provided information and advice about how to get equipment (support from the council or self-serve)
- Carers journey built in
- Emergency cases to signpost to the right people
- Other areas added as we learned more



Things we still need to learn and test

The bot will reduce the volume of calls to the social care contact centre

Better engagement and uptake in alternative services.

People are comfortable using and interacting with the chatbot.

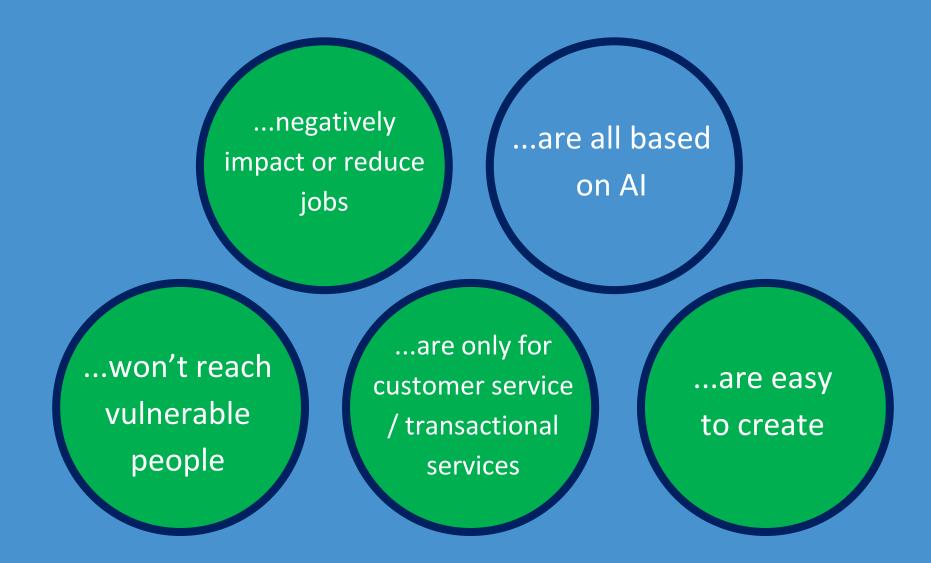
People find the information and signposting is useful and meets their enquiry

Able to capture information that is helpful for the council - to better understand users needs and services they are looking for.

What we learned

- Open conversations are hard
- Scope and role of bot is important to test and iterate with everyone
- Understanding current conversations and language is key to for conversations with the bot
- Need to be open with process, keep talking, testing and iterating
- Tools and platforms make it easier to create bots but that doesn't mean it's easy to design one.
- There is not a lot out there to help 'prototype' you need to try and test different ways
- Design principles help a team be clear and aligned on how they are designing the bot.
- People will surprise you in how they might use the bot

Myths about bots?





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Refuse and Recycling Innovation Award Winner 2019



Thank you