

Attitudes towards genomic data sharing



Dr Anna Middleton Head of Social Sciences and Ethics Group







 If you want people to donate their DNA and medical information for future use

They need to on board

You only know if they are on board if you ask them

 Once we understand attitudes and beliefs from multiple different perspectives, then we can devise good quality policy 88% public don't know what a genome is

Surveys need to be engaging (Wyse, 2013)





- Welcome
- Online footprint
- o Data access by others
- Access by medical doctors
- Access by non-profit researchers
- o Access by for-profit researchers
- Perceived harms
- o Expectations of information
- Trust
- o Socio-demographic questions
- o Submit your response

Welcome

www.YourDNAYourSay.org

The Social-Survey

Based on a format we know works (e.g. DDD project)

- Three of us worked full time on design, checked in with Task Team
 - (piloting, face-validity testing, readability, 16 iterations)
- 'Inspire, Engage, Build' (Hess, 2015)



Your Challenge...

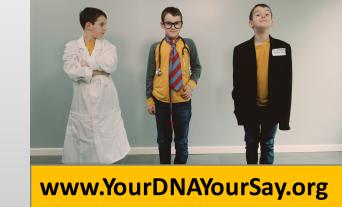
- How to orientate the public with the subject matter
- Explain what genomic and phenotypic information is
- What is genomic data donation/sharing?
- What are databases
- What are open and authorised access?
- In 1 minute





Topics covered

- Is genomic data different to other data?
- What are the perceived harms from identification?
- What would people donate for?
- What would help them decide to donate their data?
- What does trust look like?



The plan

 Translated into multiple languages (Russian, French, Polish started, Japanese, Arabic, Swedish planned)

Data collection through 2017-2018

- Recruitment via any online source
- E.g. social media, blogging, media



The first 200 completed surveys....



Is DNA information different to other medical information?

Yes

63% (n = 128) thought DNA information is different to other medical information

Why?

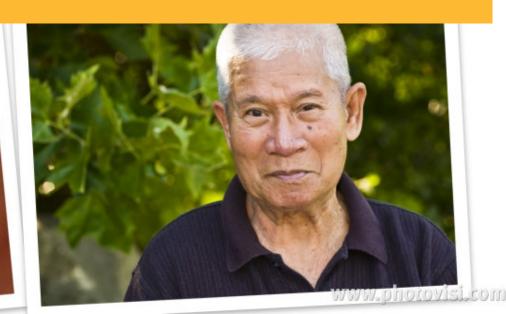


"DNA is different because not all of it is medically relevant"

"DNA can uniquely identify me"

"I could change my blood pressure with better behaviour. I cannot change my DNA"

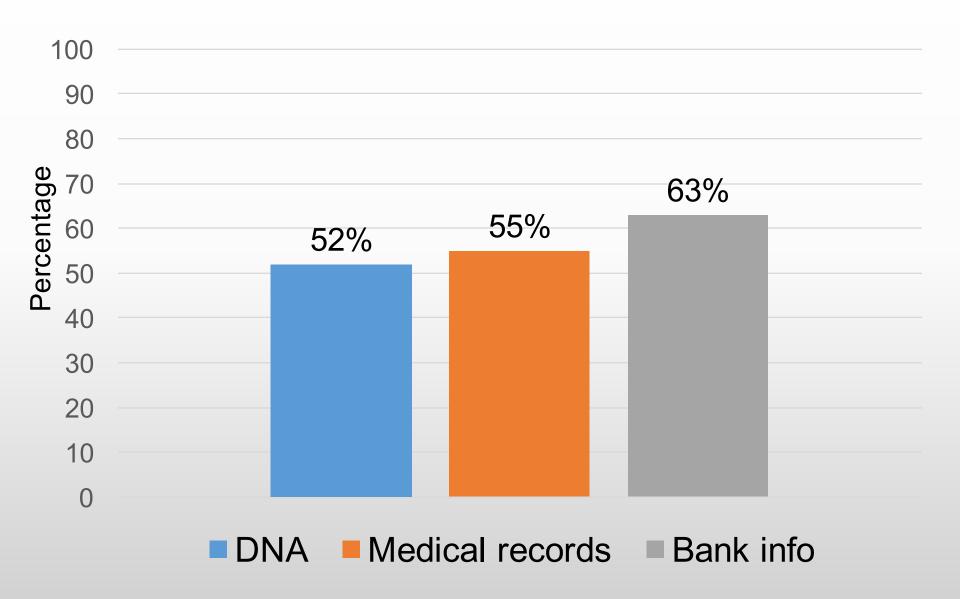
"My DNA can tell others more about me than I know about myself"



Do bank details, DNA information, medical information, holiday photos need the same level of protection online?

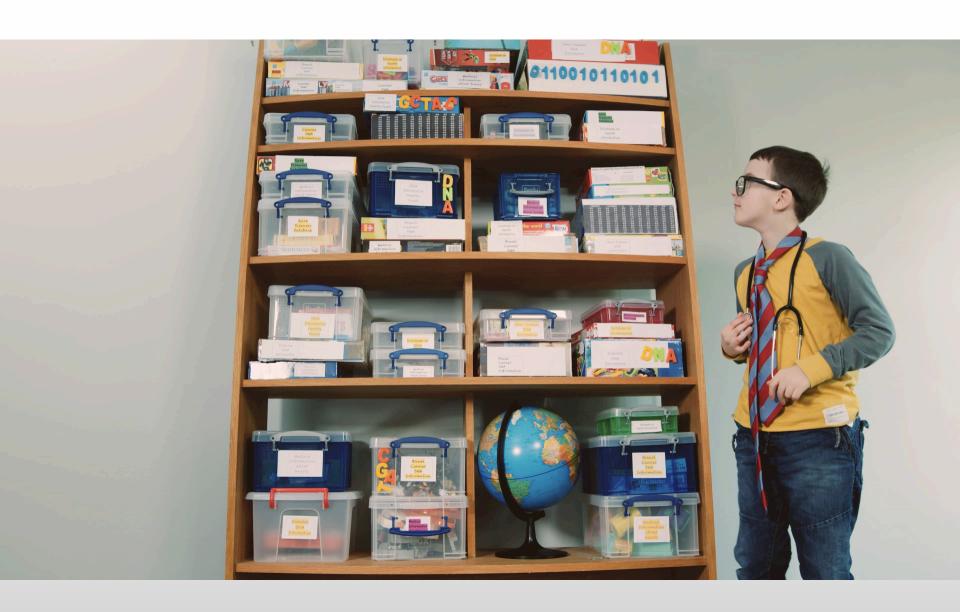
No

What data needs the highest level of protection?

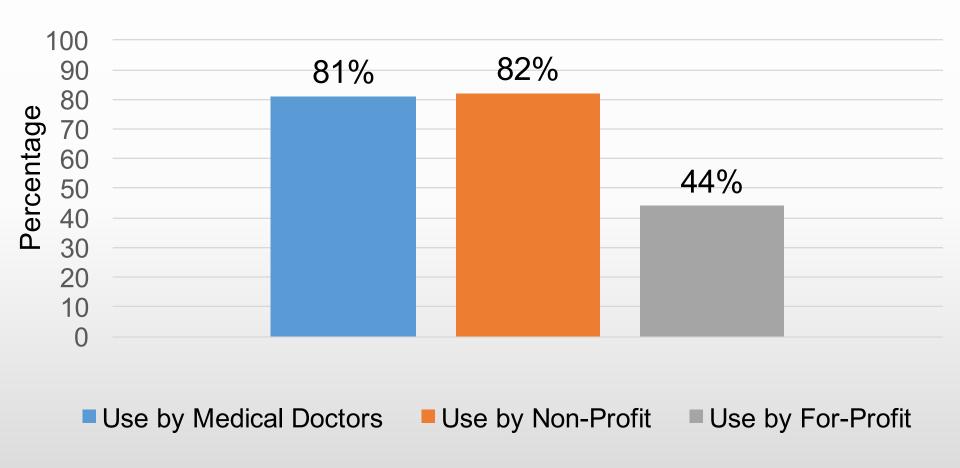


Genomic Data is different but not necessarily more 'risky' in terms of needing higher levels of protection

Would you donate your DNA and medical information?



"I would donate my DNA and medical information for..."



"I don't mind for profit researchers accessing the information providing they [do not] restrict access to benefits generated from that research"

"In the US, the prices of drugs are astronomic. They cannot use my DNA for free and [then] charge prices I cannot afford"

Being Identified



We assume that people are worried about identification

But are there some who don't mind?

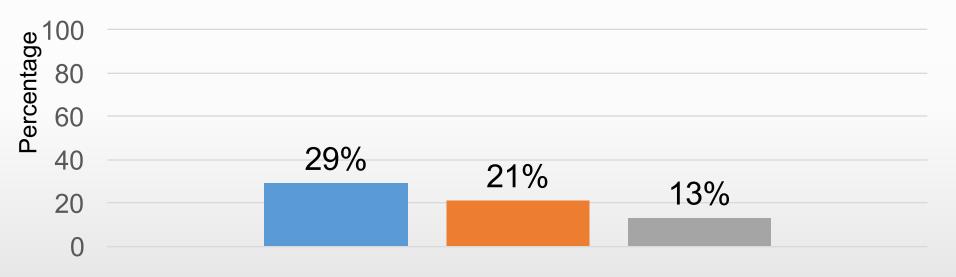
 Would people still donate their data even if they knew there was a high risk of being identified?



We asked...

- Let's assume you could donate your DNA and medical information for future use by
 - Medical doctors
 - Non-profit researchers
 - For-profit researchers
- Let's also assume that there was a 90% chance of you being personally identified from you data.
 Would you still donate?

"I'd accept a 90% risk of being identified if I was asked to donate my data for..."



■ Use by Medical Doctors
■ Use by Non-Profit
■ Use by For-Profit

Biggest concern?



 Most 'concern' related to 'upsetting relatives (because my DNA info is similar to theirs)' 68%

•Other concerns - insurance, discrimination etc

Interested in participating?

Would you share the project in your networks?

You can use the films for your own purposes

 If you'd work on a translation you can have that data and be first author on papers





It couldn't have happened without.....

Participant Values Task Team:

Natasha Bonhomme

Erika Kleiderman

Barbara Prainsack

Heidi Howard

Emilia Niemiec

Erick Scott

Jason Bobe

Natalie Banner

Katherine Littler

Nadia Kovalevskaya

Chiara Garattini

Laura Rodriguez

Elissa Levin

Christoph Schickhardt

Danya Vears

Cris Woolston

James Smith
Paul Bevan

Films

Tim Pope

Loudcity

Funding

Wellcome Trust: Audrey Duncanson

Wellcome Genome Campus

Support

Julia Wilson

Julian Rayner

Bartha Knoppers

Adrian Thorogood

Martin Bobrow

Sarion Bowers

Web team

wellcometrust

