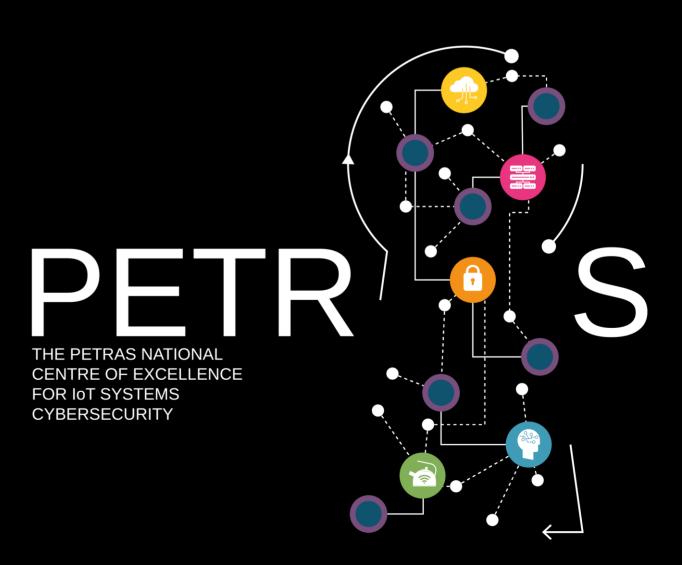
## COVID-19 Digital Contact Tracing UK Timeline





	COVID-19 Digital Contact Tracing UK: Timeline											
	Media	Concerns/Ethics	UK legislation	<b>UK regulation</b>	UK government	Europe	Research	Technology				
17-Feb							A preprint (peer review June¹) by members of SAGE on the efficacy of contact tracing for the containment of COVID-19 finds that the success of contact tracing relies on the speed and efficacy with which a person suspected of having the infection can be contained, and that some cases will generate at least unidentified secondary case which 'would need detecting by other means'.²					
11-Mar					A £500k contract (#1) to develop, deploy and maintain the NHS COVID-19 app <u>is</u> <u>awarded to Go Pivotal (UK)</u> <u>Ltd.</u> <sup>3</sup>							
12-Mar				The ICO release a statement on data protection and coronavirus stating that 'regarding competence with data protection, we will take into account the compelling public interest in the current health emergency'.4								
18-Mar					NHSX announce that they are 'looking at whether app-based solutions might be helpful in tracking and managing coronavirus'.5							
19-Mar						The European Data Protection Board makes a statement on the <u>use of</u> mobile location data. <sup>6</sup>						
21-Mar		An open letter signed by 'responsible technologists' calls upon the NHSX to follow best ethical practice when designing a contact tracing app. <sup>7</sup>										

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7307459/

https://www.medrxiv.org/content/10.1101/2020.02.14.20023036v1.full.pdf

https://www.contractsfinder.service.gov.uk/Notice/d192d980-6fcd-4137-b9e0-29c47a9141e37origin=SearchResults&p=1

https://ico.org.uk/about-the-ico/news-and-events/news-and-blogs/2020/03/data-protection-and-coronavirus/

https://www.hsj.co.uk/free-for-non-subscribers/nhs-developing-coronavirus-contact-tracking-app/7027163.article

https://edpb.europa.eu/our-work-tools/our-documents/outros/statement-processing-personal-data-context-covid-19-outbreak\_en

https://medium.com/@rachelcoldicutt/open-letter-contract-tracking-and-nhsx-e503325b2703



					4
			A £1.3m contract (#2) for		
			contact tracing app		
			development and		
			deployment is <u>awarded to Go</u>		
23-Mar			Pivotal (UK) Ltd.8		
					A group of European
					scientists and researchers
					propose a decentralised
					system for Bluetooth-based
					COVID-19 contact tracing,
					called DP-3T, which they
					argue offers greater
					protection against abuse and
					misuse of people's data than
					apps which pull data into
					centralized pots. The current
					version of the open protocol
03-Apr					was updated on 25 May. <sup>9</sup>
				The European Commission	
				recommends developing a	
				common EU Toolbox	
				focusing on the use of apps	
08-Apr				for contact tracing.10	
					Apple and Google announce
					a partnership on COVID-19
					contact tracing technology.
					The proposed solution is
					two-fold - both companies
					will first release APIs to
					enable interoperability
					between devices using apps
					developed by public health
					authorities, and secondly, will
					enable Bluetooth-based
					contact tracing into the
					underlying device platforms.
					Use of the Bluetooth
					functionality for contact
					tracing would require strong
					protections around user
10-Apr					privacy from developers. <sup>11</sup>
	A describes a la tale				· ·
	A data rights academic, and				
	member of the D3-PT				
	consortium sends an email to				
	representatives at the NHSx,				
	NSCS, CDEI/DCMS and ICO				
	stating Apple and Google's				
	API 'appears to break' NHS's				
	proposed digital contact				
	tracing solution, and states				
	that this will <u>presumably</u>				
	require a 'rewrite of the NHSX				
	app' to align with a				
11-Apr	decentralised protocol,				
	<u> </u>			l	

https://www.contractsfinder.service.gov.uk/Notice/ca3887ff-9485-4729-aa30-faff9ea894ec?origin=SearchResults&p=1
https://github.com/DP-3T/documents/blob/master/DP3T%20White%20Paper.pdf
https://op.europa.eu/en/publication-detail/-/publication/le8b1520-7e0c-1lea-aea8-01aa75ed71a1/language-en
https://www.blog.google/inside-google/company-announcements/apple-and-google-partner-covid-19-contact-tracing-technology/



	_				
	otherwise many users' phones will be required to have the screen on when in their pockets - a huge barrier for uptake. <sup>12</sup>				
12-Apr			The Health and Social Care Secretary announces the 'new NHS app for contact tracing' at the daily press briefing on the government's response to the COVID-19 pandemic. The statement details that the app will rely on self-diagnosis: 'if you become unwell with the symptoms of coronavirus, you can securely tell this new NHS app, and the app will then send an alert anonymously to other app users that you've been in significant contact with over the past few daysso that they know and can act accordingly'. In the statement, the Secretary commits to publishing the source code, and that they are working with experts in digital ethics. <sup>13</sup>		The DP-3T consortium release a statement on the Apple and Google joint specification stating that the proposal is similar to an early version of the D3-PT protocol and that they are happy to work with both companies. They encourage Apple and Google to adopt updated enhancements which increase user privacy. <sup>14</sup>
13-Apr		The first version of the Coronavirus (Safeguards) Bill 2020 (current version 6 May) is published online, as a way to provide safeguards in relation to contact tracing apps and symptom tracking. These safeguards are in addition to GDPR and ePrivacy Directive and are suggested in order to reassure against digital exclusion, ensure trustworthy uptake, data quality, data rights and accountability to an independent body. <sup>15</sup>			

<sup>12</sup> https://twitter.com/mikarv/status/1274647647832416256/photo/l
13 https://www.gov.uk/government/speeches/health-and-social-care-secretarys-statement-on-coronavirus-covid-19-12-april-2020
14 https://github.com/DP-3T/documents/commit/a0a88c3efebb40640a455886f7c63d7cc748f7e9#diff-ea0cd12131808821e2dc116c46719959
15 https://osf.io/preprints/lawarxiv/yc6xu



Narrative in the media starts to focus on the <u>problems that</u> <u>centralised contact tracing</u> <u>apps have encountered</u> with Bluetooth functionality. The proposal that the NHS contact tracing app <u>will have</u> <u>similar usability issues if it</u> <u>does not conform to a</u> <u>decentralised model</u> is highlighted. <sup>16</sup>					
15-Apr			The European Parliament recommends a common EU approach to contact tracing apps pointing out that they may not be obligatory, be decentralised, and that the principles of data protection by design and data minimisation are observed. <sup>17</sup>		
16-Apr			The European Commision also published a <u>Common EU Toolbox for Member States</u> containing requirements for	A mathematical model developed by UK researchers for the NHSX found that 'the epidemic can be suppressed with 80% of all smartphone users using the app, or 56% of the population overall'. The research also discusses how rapid testing in the community would result in fewer quarantined people compared to self-diagnosis. <sup>19</sup>	
		The ICO published a formal Opinion on the Google and Apple approach to contact tracing technology. The Opinion confirms that the Google and Apple framework appears to align with data protection principles. <sup>20</sup> The Information			
17-Apr		Commissioner released a series of questions to developers of contact tracing technology, to ensure that the 'privacy implications are properly considered, and that they do not put public trust and social licence at risk'. In the post, the ICO reveal they have offered advice and support on transparency and	The European Parliament adopts a resolution on coordinated action to combat the pandemic, and endorses a decentralised approach to contact tracing (Paragraph 52). <sup>22</sup>		

https://co.org.uk/media/about-the-ico/documents/2617653/apple-google-api-opinion-final-april-2020.pdf



					4
		governance of the NHS			
		contact training app. <sup>21</sup>			
		contact training app.			
	The Ada Lovelace Institute				
	produce a rapid evidence				
	review on the <u>technical</u>				
	considerations and social				
	implications of COVID-19				
	technology. The review urges				
	the need to assess the				
	efficacy and impact of digital				
	contact tracing apps; the				
	establishment of gatekeepers				
	of the deployment of				
	technologies in emergencies;				
	and the adoption of				
	additional safeguarding				
20-Apr	legislation. <sup>23</sup>				
				The Furences Data	
				The European Data	
				Protection Board adopts	
				guidelines on the use of	
				location data and contact	
				tracing tools. The guidelines	
				recommend an interoperable	
				framework and takes the	
				position that contact tracing	
				should be voluntary and focus	
				on proximity information	
				rather than tracing	
21-Apr				movement. <sup>24</sup>	
			The <u>NHS app is tested</u> using		
			300 personnel and their		
			families at RAF Leeming in a		
			scenario set up to simulate		
			people's experience of		
23-Apr			shopping. <sup>25</sup>		
			The CEO of NHSX announces		
			that they will be <u>launching a</u>		
			contact tracing app 'in the		
	The Ethics Advisory Board		coming weeks'. The		
	sends a letter to the Secretary		announcement also states		
	of State for Health and Social		that NHSX will comply with		
	Care which <u>cautions against</u>		'law around the use of your		
	proceeding with the contact		data' and that they are		
	tracing app 'without		working with Apple and		
	widespread access to		Google on their support for		
	virological testing', and that		tracing apps. They also		
	'false positive alerts could		commit to publishing the 'key		
	undermine trust in the app		security and privacy designs		
	and cause undue stress to		alongside the source code'. <sup>27</sup>		
	users'. The letter also states		A letter from PHE to directors		
	six principles to ensure the		of public health		
24-Apr	app is ethical <sup>26</sup> .		acknowledges an integrated		
		l			

https://www.europarl.europa.eu/doceo/document/TA-9-2020-0054\_EN.html

https://ico.org.uk/about-the-ico/news-and-events/news-and-blogs/2020/04/combatting-covid-19-through-data-some-considerations-for-privacy/
https://www.adalovelaceinstitute.org/wp-content/uploads/2020/04/Ada-Lovelace-Institute-Rapid-Evidence-Review-Exit-through-the-App-Store-April-2020-1.pdf
https://edpb.europa.eu/sites/edpb/files/files/files/edpb\_guidelines\_20200420\_contact\_tracing\_covid\_with\_annex\_en.pdf
https://www.raf.mod.uk/news/articles/rafs-digital-airbase-tests-covid-19-tracking-app/
https://www.nhsx.nhs.uk/blogs/digital-contact-tracing-protecting-nhs-and-saving-lives/



					4
			approach to contact tracing,		
			complementing traditional		
			contact tracing methods. <sup>28</sup>		
			Contact tracing methods.		
			The CEO of NHSX announces		
			the <u>establishment of an</u>		
			Ethics Advisory Board. <sup>29</sup>		
			Membership includes		
			members of the Centre for		
			Data Ethics and Innovation		
			board.30 Links to the Ethics		
			Board have since been		
			deleted after the disbanding		
			of the board, however the		
			Terms of Reference remain.31		
		The Science and Technology			
		Committee hears oral			
		evidence on the <u>minimum</u>			
		safeguards on how			
		technology can be used to			
		ease lockdown. Speakers			
		include the CEO of NHSX and			
		the lead author of the			
		proposed Coronavirus			
28-Apr		(Safeguards) Bill 2020. <sup>32</sup>			
		(			
	A statement signed by 177				
	security and privacy				
	researchers in the UK <u>calls for</u>				Apple and Google <u>release the</u>
	the NHSX to publish a Data				<u>first version</u> of their exposure
	Protection Impact				notification API to developers
29-Apr	<u>Assessment</u> immediately. <sup>33</sup>				to collect feedback. <sup>34</sup>
	Ethical guidelines for digital		A £3.0m contract (#5) for the		<del> </del>
			development and		
	contact tracing systems for				
	COVID-19 are published by		deployment of a minimum		
	the Oxford Internet Institute		viable product and limited		
	comprising 12 factors to guide		period of support of the app is		
	the design and development		awarded to VM Ware UK		
	of ethical digital tracing		(formally known as Go Pivotal		
01-May	systems. <sup>35</sup>		(UK) Ltd). <sup>36</sup>		
				The National Cyber Security	
				Centre publish a technical	
				paper <sup>37</sup> and a blog <sup>38</sup> on the	
				security and privacy	
				characteristics of the app and	
07 May				infrastructure	
03-May				mmastructure	

<sup>25</sup> https://nhsbsa-socialtracking.powerappsportals.com/EAB%20Letter%20to%20NHSx.pdf
28 https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/881231/Letter\_to\_DsPH\_on\_contact\_tracing.pdf
29 https://www.nhsx.nhs.uk/blogs/goigtal-contact-tracing-protecting-nhs-and-saving-lives/

https://www.nhsx.nhs.uk/blogs/digital-contact-tracing-protecting-nhs-and-saving-lives/
https://cdei.blog.gov.uk/2020/04/27/how-is-the-cdei-supporting-the-response-to-covid-19/
https://www.nhsx.nhs.uk/media/documents/NHS\_COVID-19\_App\_Ethics\_Advisory\_Board\_Terms\_of\_Reference.pdf
https://committees.parliament.uk/event/837/formal-meeting-oral-evidence-session/
https://cdei.blog.com/file/d/huB4LcQHMVP-olzIIHA9SjKjluMd3erGu/view
https://drive.google.com/file/d/huB4LcQHMVP-olzIIHA9SjKjluMd3erGu/view
https://techcrunch.com/2020/04/29/apple-and-google-release-first-seed-of-covid-19-exposure-notification-api-for-contact-tracing-app-developers/
https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=3582550
https://www.contractsfinder.service.gov.uk/Notice/bac4cbf7-c439-4227-802a-c62af2adc035?origin=SearchResults&p=1
https://www.ncsc.gov.uk/files/NHS-app-security-paper%20V0.l.pdf
https://www.ncsc.gov.uk/blog-post/security-behind-nhs-contact-tracing-app



					4
04-May	A legal opinion on technological responses to COVID-19 states that a centralised system would require significant justification to be lawful. 40	The Joint Committee on Human Rights hears oral evidence from the Information Commissioner, academics and the CEO of NHSX to explore how the right to privacy (Article 8 ECHR) can be protected if a contact tracing app is rolled out in the UK. The Information Commissioner calls for the NHSX to release the source code and Data Protection Impact Assessment. 41  The ICO publish expectations on how contact tracing solutions may be developed in line with data protection by design principles, and recommends best practice. 42	The CEO of NHSX answers questions from the Joint Committee on Human Rights on whether it is possible for the NHSX to change from a centralised to a decentralised framework for the contact tracing app, and confirms that 'if we need to shift then we will'.43		Apple <sup>44</sup> and Google <sup>45</sup> release sample source code, example user interfaces and policies that developers must adhere to in order for their apps to be approved for use <sup>46</sup> .  A proposal on the interoperability of
05-May					decentralised proximity tracing systems is released by the DP-3T team. <sup>47</sup>
06-May		The NHSX release the <u>Data</u> <u>Protection Impact</u> <u>Assessment</u> for the NHS COVID-19 App Pilot Live Release Isle of Wight <sup>48</sup> .	A new £3.9m contract (#8) is awarded to Swiss IT firm Zuhlke Engineering to 'support and run the proximity mobile application services for the UK'. 49	A preprint study from Trinity College Dublin measures Bluetooth Low Energy (LE) received signal strength in real-world settings, and finds that 'development of accurate methods for proximity detection based on Bluetooth LE received signal strength is likely to be challenging'.50	The NHSX release the <u>source</u> code for the contact tracing app on GitHub (now archived) <sup>51</sup> and <u>discuss the code</u> in a blog post. <sup>52</sup>
07-May	The Joint Committee on Human Rights publishes a report on <u>Human Rights and</u> the Government's Respose to <u>COVID-19: Digital Contact</u> <u>Tracing<sup>53</sup> and proposes a draft</u> Bill, <u>Digital Contact Training</u>		Everyone on the <u>Isle of Wight</u> receives access to the NHS contact tracing app in a trial roll-out period. <sup>55</sup>		

<sup>39</sup> https://www.adalovelaceinstitute.org/wp-content/uploads/2020/05/Ada-Lovelace-Institute-Provisos-for-a-Contact-Tracing-App-4-May-2020.pdf

https://www.awo.agency/covid-19-legal-opinion.pdf

<sup>&</sup>lt;sup>41</sup> https://parliamentlive.tv/Event/Index/6f0f52cf-9fda-4785-bf63-af156d18b6c7

<sup>&</sup>lt;sup>42</sup> https://ico.org.uk/media/for-organisations/documents/2617676/ico-contact-tracing-recommendations.pdf

<sup>43</sup> https://parliamentlive.tv/Event/Index/6f0f52cf-9fda-4785-bf63-af156d18b6c7

https://developer.apple.com/exposure-notification/

<sup>45</sup> https://www.google.com/covid19/exposurenotifications/

<sup>\*\*</sup> https://www.google.com/covid19/exposurenotifications/

\*\* https://developer.apple.com/contact/request/download/Exposure\_Notification\_Addendum.pdf

\*\* https://drive.google.com/file/d/imGfE7rMKNmc5ITG4ceE9PHEggN8rHOXk/edit

\*\* https://faq.covid19.nhs.uk/DPIA%20COVID-19%20App%20PILOT%20LIVE%20RELEASE%20Isle%20of%20Wight%20Version%201.0.pdf

\*\* https://www.contractsfinder.service.gov.uk/Notice/2d8c89c5-69d2-4073-88dd-401458a92134?origin=SearchResults&p=1

\*\* https://github.com/nhsx

\*\* https://www.nhsx.nhs.uk/blogs/code-behind-nhs-covid-19-app/

\*\* https://www.scss.tcd.ie/Doug.Leith/pubs/bluetooth\_rssi\_study.pdf

\*\* https://github.com.pakliamost.uk/ap./its90/itsea/titiahtch.cof/17/7/7/200-btm

<sup>53</sup> https://publications.parliament.uk/pa/jt5801/jtselect/jtrights/343/34302.htm



						4
		(Data Protection) Bill, that would regulate the processing of information in respect of contact tracing. <sup>54</sup>				
08-May					A study exploring the feasibility of protecting the population using isolation coupled with digital contact tracing via a mobile phone application is published in Science. The study found that immediate notification through a contact tracing app would be sufficient to stop the epidemic if used by enough people, especially when combined with physical distancing. They advised careful oversight by an inclusive advisory body. <sup>56</sup>	
09-May	An <u>analysis of the Data</u> <u>Protection Impact</u> <u>Assessment</u> is written by a data rights expert and finds 'significant issues which leave the app falling short of data protection legislation'. <sup>57</sup>					
12-May				A new ETSI group is established to provide a <u>standardisation framework</u> to enable developers to build interoperable contact tracing apps. <sup>58</sup>		
13-May				The eHealth Network proposes <u>quidelines for the cross-border interoperability of approved contact tracing apps</u> to guide developers when designing apps. This is the first action to come from the European Commission's 'Toolbox' on 16 April. <sup>59</sup>		
18-May			The Secretary of State for Health and Social Care announces that 'everyone aged five and over with symptoms is now eligible for a test'60. The unavailability of testing was previously a reason why the development of the app required			

https://www.iow.nhs.uk/news/CORONAVIRUS-TEST-TRACK-AND-TRACE-PLAN-LAUNCHED-ON-ISLE-OF-WIGHT.htm

https://publications.parliament.uk/pa/jt5801/jtselect/jtrights/correspondence/Letter-to-Rt-Hon-Matt-Hancock-MP-Secretary-of-State-for-HSC-Draft-Bill.pdf

https://science.sciencemag.org/content/368/6491/eabb6936

https://osfi.o/preprints/lawarxiv/6fvgh

https://www.etsi.org/committee/1769-e4p

https://ec.europa.eu/health/sites/health/files/ehealth/docs/contacttracing\_mobileapps\_guidelines\_en.pdf

https://hansard.parliament.uk/Commons/2020-05-18/debates/8FA78498-C990-4246-A745-AE0F36F7B948/Covid-19Response



					<del>-</del>
			self-diagnosis of symptoms		
			rather than a test diagnosis.		
			rather than a test diagnosis.		
				A <u>detailed security analysis of</u>	
				the released source code <sup>61</sup> for	
				the NHS COVID-19 app is	
				conducted by security	
				experts, as well as a <u>response</u>	
19-May				by the NCSC. <sup>62</sup>	
19-Iviay				by the NC3C.	
			Northern Ireland's minister of		
			health announces that		
			Northern Ireland is working		
			on their own version of a		
			contact tracing app, and that		
			this was necessary to ensure		
			that it is interoperable with		
			the app being developed in		
20-May			the Republic of Ireland. <sup>63</sup>		
		The UK government <u>rejects</u>			
		calls for new legislation by the			
		Joint Committee on Human			
		Rights to enshine privacy			
		protections around digital			
21-May		contact tracing. <sup>64</sup>			
		The Leader of the House of			
		Commons <u>rejects a motion</u>			
	The World Health	by the Joint Committee on	The UK government <u>launches</u>		
	Organisation releases ethical	Human Rights to raise their	the NHS Test and Trace		
	considerations to guide the	Digital Contact Tracing (Data	service across England. The		
	use of digital proximity	Protection Bill) as a Private	contact tracing apps are not		
	tracking technologies for	Members' Bill. <sup>66</sup>	supported by a contact		
20 14		Members Bill.			
28-May	contact tracing. <sup>65</sup>		tracing app. <sup>67</sup>		
	The Joint Committee on				
	Human Rights presents a				
	new comparative analysis				
	between the protections				
	under the proposed Digital				
	Contact Tracing (Data				
	<u>Protection Bill) and the</u>				
	existing situation under the				
	Data Protection Act. The				
	letter urges that the Secretary				
	reconsider his decision to				
29-May	reject the Bill. <sup>68</sup>				
Media report that there is					
pressure to consider a					
<u>different version</u> of the					
contact tracing app which					
incorporates the Apple and					
<b>09-Jun</b> Google framework. <sup>69</sup>					

https://stateofit.com/UKContactTracing/
https://www.ncsc.gov.uk/blog-post/nhs-covid-19-app-security-two-weeks-on
https://niassembly.tv/committee-for-health-meeting-wednesday-20-may-2020/
https://committees.parliament.uk/publications/1223/documents/10345/default/
https://www.who.int/publications/i/item/WHO-2019-nCoV-Ethics\_Contact\_tracing\_apps-2020.1
https://committees.parliament.uk/publications/1283/documents/11444/default/
https://www.gov.uk/government/news/government-launches-nhs-test-and-trace-service
https://committees.parliament.uk/publications/1284/documents/11453/default/
https://www.ft.com/content/5ba7dc0a-6fee-4f17-9894-e12dcf9ed286



					۲, •
				European Member States	
				agree to <u>technical</u>	
				specifications for	
				interoperability <sup>70</sup> , which	
				includes a	
				ready-to-implement	
				Federation Gateway Service <sup>71</sup>	
				to connect all the backends	
				behind the different national	
16-Jun				apps.	
			Following the field testing of		
			the NHS contact tracing app		
			on the Isle of Wight, the UK		
			government announces that		
			development of the app will		
			shift from the current app		
			design to work with the		
			Apple and Google framework.		
18-Jun			72		
Media reveal that lead project					
managers from the NHSX					
step back from the contact					
tracing app project, which will					
be handed to the NHS Test					
and Trace team to be					
managed by Simon					
<u>Thompson</u> , a former Apple					
executive and current CPO of					
Mid-Jun Ocado. <sup>73</sup>					
		The Joint Committee on			
		Human Rights writes to the			
		Secretary of State for Health			
		and Social Services			
		acknowledging that while			
		some concerns have lifted			
		with the switch to a			
		decentralised contact tracing			
		app, the <u>public still require</u>			
		answers to topics on data			
		protection, privacy and			
24-Jun		non-discrimination rights. <sup>74</sup>			
Media report that technical					
work on the new version of					
the contact tracing app is					
now being led by Swiss IT					
firm Zuhlke Engineering, who					
were awarded a contract					
<b>28-Jun</b> back in May. <sup>75</sup>					
Duck III May.					
	The Ada Lovelace Institute				
	release a report on the				
	lessons developers and policy				
06-Jul	makers must learn from the				

https://ec.europa.eu/commission/presscorner/detail/en/ip\_20\_1043
https://ec.europa.eu/health/sites/health/files/ehealth/docs/mobileapps\_interoperabilitydetailedelements\_en.pdf
https://www.gov.uk/government/news/next-phase-of-nhs-coronavirus-covid-19-app-announced
https://www.bbc.co.uk/news/technology-53083340
https://committees.parliament.uk/publications/1596/documents/20233/default/
https://www.ft.com/content/2fb504a3-fbc7-40a8-8996-f7dae596c831



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	public about COVID-19 technologies. The report identifies six lessons that should be used in design and development which consider the preferences and legitimate concerns of members of the public. <sup>76</sup>				
09-Jul				A preprint by the Alan Turing Institute investigating techniques for using Bluetooth Low Energy received signal strength as a proxy for distance between two smartphones suggests that 'good risk prediction can be achieved' in real-world data sets using 'Unscented Kalman Smoother with Gaussian process data distribution'.77	
14-Jul				A preprint shows the initial findings of the Test and Trace programme on the Isle of Wight, including the test version of the NHS contact tracing app. The results showed that the epidemic on the Isle of Wight was controlled 'more significantly' than other epidemics in other authorities, however the 'data is not yet available to establish a causal link'.78	
16-Jul		The Parliamentary Under Secretary of State for Innovation responds to the Joint Committee on Human Rights on privacy concerns surrounding the decentralised contact tracing app. The letter reaffirms the position that existing legislation is sufficient, and commits to completing a new Data Protection Impact Assessment and Privacy Notice, as well as an Equality and Health Inequalities Impact Assessment. <sup>79</sup>			

<sup>&</sup>lt;sup>76</sup> https://www.adalovelaceinstitute.org/our-work/covid-19/covid-19-report-no-green-lights-no-red-lines/
<sup>77</sup> https://arxiv.org/abs/2007.05057
<sup>78</sup> https://www.medrxiv.org/content/10.1101/2020.07.12.20151753v1.full.pdf
<sup>79</sup> https://committees.parliament.uk/publications/1942/documents/18853/default/



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		The development of the		
		revised contact tracing app		
		became part of the		
		Department of Health and		
		Social Care's NHS Test and		
20.7.4				
20-Jul		<u>Trace Programme</u> .80		
Media report on the <u>inside</u>				
story of the development of				
the contact tracing app, with				
agreement that there were				
fundamental flaws in				
changing expectations and				
commitments, as well as lack				
of clarity on the use of the				
app, with no one person				
responsible for the delivery.81				
Media report that the Ethics				
Advisory Board established in				
May to provide timely advice,				
guidance and				
guidance and				
recommendations on ethical				
issues during the				
development of the NHS				
contact tracing app <u>has been</u>				
23-Jul <u>disbanded</u> .82				
		A business plan is published		
		by NHS Test and Trace shows		
		commitment to an app that		
		supports the NHS Test and		
		<u>Trace Service</u> .		
		The app will use the new		
		Google/Apple framework to		
		allow citizens to: identify		
		symptoms, order a test and		
		receive support if they need		
		to self-isolate;		
		enable people to scan the QR		
		code of venues they have		
		visited; and identify when		
		they have been exposed to		
		people who have COVID-19 or		
		locations where there may		
		have been a source.		
		The app will be shortly		
		released for a trial before		
70 7.1		further roll out.83		
30-Jul				
		A trial of the decentralised		
		contact tracing app starts on		
		the Isle of Wight as well as		
		withNHS volunteer		
		respondents in the UK.		
13-Aug		Shortly, this will be expanded		

<sup>80</sup> https://www.nhs.uh/covid-19-response/nhs-covid-19-app/
81 https://news.sky.com/story/coronavirus-the-inside-story-of-how-government-failed-to-develop-a-contact-tracing-app-12031282
82 https://www.telegraph.co.uk/technology/2020/07/23/nhs-contact-tracing-app-ethics-board-scrapped/
83 https://www.gov.uk/government/publications/developing-nhs-test-and-trace-business-plan/breaking-chains-of-covid-19-transmission-to-help-people-return-to-more-normal-lives-developing-the-nhs-test-and-trace-service



			to residents in the London borough of Newham. <sup>84</sup>			
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<sup>84</sup> https://www.bbc.co.uk/news/technology-53765240

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