MeldStudios

Census timeline

This timeline shows a series of events leading to what has been dubbed #censusfail – the 2016 Australian census. The intent of this piece is to reflect on the history of the census to consider if alternate pathways could have been taken.

The data was gathered from a range of media sources and the Australian Bureau of Statistics.

DATE	BUREAU OF STATISTICS	GOVERNMENT	COMMUNITY	TECHNICAL
1966				Computer processing of census begins Australian Bureau of Statistics
1967 CHALLENGE		Referendum to include Indigenous people in population estimates Australian Bureau of Statistics A referendum was held to amend the Australian constitution to remove the provisions that discriminated against Aboriginal and Torres Strait Islander people. 90.77% of voters voted to remove "pair" provisions Australian Bureau of Statistics	1 PRIVACY What if more time was spent understanding the privacy concerns of the public?	
1975		Publicity campaign around privacy is cut Australian Bureau of Statistics A pre-1971 census publicity campaign to address privacy concerns was cut from the budget. Without the campaign, turnout dropped. There was much negative media afterwards, including discussions of boycotting the census and burning census forms Australian Bureau of Statistics	New questions fuel public debate on privacy Australian Bureau of Statistics Amnesty and civil liberties groups criticised the questions on religion and income. The public also asked for the data not for all questions to be compulsory. Australian Bureau of Statistics	
1976 CONSULTATION	Name-identified forms destroyed after data entry Australian Bureau of Statistics Name-identified forms were destroyed (usually after data entry) from 1976 to 2006. The forms were kept for a limited time in case cross checking was required. Australian Bureau of Statistics	Census only part processed due to budget cuts Australian Bureau of Statistics Only 10% of forms were chosen (in the 1976 census) and manually checked. Name, marriage, sex, marital status and birthplace processed for all forms. Only 10% of forms (chosen at random) of papers were processed for the other topics. Australian Bureau of Statistics		
1980			Public asked to suggest topics for inclusion Australian Bureau of Statistics For the first time, the public were consulted about topics for the next census. The ABS received over 400 suggestions. Australian Bureau of Statistics	
1986	Census data released via CD ROM Australian Bureau of Statistics		2 PRIVACY What if name retention remained optional in 2016 as in previous years?	
2001 CHALLENGE			62% of the public opt to have name retained for "posterity" Australian Bureau of Statistics Name retention was optional from 2001 to 2006. The ABS wanted to retain names for posterity. It's before the people might want to do this as a research that shown that 62% of people who had their names in the ABS would be seriously studied.	
2005	Privacy report rejects permanent name linking Australian Bureau of Statistics It recommended that the ABS should not link names to data permanently. The report also found that there was a lack of privacy breaches by the ABS, and that the ABS had a very positive way result in the quality of the data collected. Australian Bureau of Statistics		70,000 people say religion is 'Jedi Knight' Australian Bureau of Statistics A website was set up encouraging people to write in 'Jedi Knight'. The campaign ultimately failed but it received their response as a religion. Inadequately described Australian Bureau of Statistics	
2006 CHALLENGE			56% opt to have their name retained from census Australian Bureau of Statistics The final question on the census asked whether the ABS could keep the census forms destroyed by the Australian Archives before being released in 99 years. Australian Bureau of Statistics	10% of households complete the 2006 census online Australian Bureau of Statistics
2008	Trust in the ABS begins to wane after funding cuts Australian Bureau of Statistics Rudd in 2008 saw funding to the ABS cut by $6 million, which ABS chief Brian Pink said would "undermine the quality of employment data," just as the global financial crisis was hitting. The cut in the ABS was eventually. The Guardian			
2010		3 SYSTEM DESIGN What if denial of service attacks had been anticipated in the system design?	Survey finds 91% of community trust the ABS Australian Bureau of Statistics For the first time, the ABS commissioned research to understand community trust. The ABS wanted to know if experts have in the institution and in the data it collects. The survey found that it was very low (30%) and, as a result, the ABS decided to put more resources to improvement with which. ABS Survey	ABS announces it will end arrangement with IBM Australian Bureau of Statistics Breaches led the ABS to announce in 2010 that it would not renew its contract with IBM in future rather than with IBM. Australian Bureau of Statistics
2011 CONSULTATION	Media campaign helps to spread load on servers Australian Bureau of Statistics The ABS launched a media campaign to encourage people to use the census online. The campaign was successful in this regard. The efforts from the media campaign messages and information on census traversal on HTML. Telecentre.org	NSW Gov warned Denial of Service attacks to online voting could be domestic Australian Bureau of Statistics Treasury consultation paper on the future of electronic voting in NSW warned that online voting could be vulnerable to denial of service attacks. Online voting could be vulnerable, not just for overseas, DDoS attacks are when multiple systems flood the bandwidth of a target's service and make it unavailable. Gov Audit	60% opt to have their name retained Australian Bureau of Statistics The ABS decided to retain names and addresses. The criteria is that there was an increase from the first census where names were collected. National Archives	28% of households fill out 2011 census online Australian Bureau of Statistics The census was the first time the ABS tried to handle a peak of 50 submissions per second. Census Failure
2012			Focus groups conducted around data retention Australian Bureau of Statistics The ABS conducted focus groups on behalf of the ABS to explore public attitudes to data retention. The ABS found a recurring key concern across the groups was that data would be shared or sold to those who would use this for either illegal or marketing purposes. Australian Bureau of Statistics	
2013		QLD Gov blacklists IBM from any future contracts Queensland Government Health built by IBM in 2010, results in Queensland Government blacklisting IBM. $1.2 billion original cost $6.19 million. The Australian	Significant increase in topic suggestions on religion Australian Bureau of Statistics The last 5x topic submissions for questions on religion. There was a significant increase in 2013. Suggestions on religious affiliation went from up in 2013 (out of all suggestions) to over 1,000 in 2013. The ABS decided to remove the question, mainly to do with previous wording Australian Bureau of Statistics that Wikipedia has a religion. Australian Bureau of Statistics	
2014	Brian Pink the head statistician retires In the final census report under Pink's leadership, he wrote that the ABS "ABS already had enough room" to keep the name. ABS Archive	QLD Government and Australians becoming more concerned over online privacy Australian Bureau of Statistics Queensland Government and Australians becoming more concerned with online privacy. The Australian Privacy Foundation threw a prayer/fax they should be more concerned with the ABS's proposals. Australian Bureau of Statistics Australian Information Commissioner	Australians becoming more concerned over online privacy Australian Bureau of Statistics Australians becoming more concerned with online privacy. The Australian Privacy Foundation threw a prayer/fax they should be more concerned with the ABS's proposals. Australian Bureau of Statistics Australian Information Commissioner	
2014 March	ABS changes employment survey methodology Australian Bureau of Statistics Starting survey. Experts interviewed by means that figures for February of this year cannot be compared to past. Australian Bureau of Statistics			
2014 June	ABS cuts number of surveys to reduce costs The ABS announces it will cut a number of surveys to reduce costs as its operating by $50m over three years. ABS media release			
2014 November		4 LEADERSHIP What if have had been a department head for the entirety of 2014?		IBM wins contract to host the 2016 Census Despite having got in 2010 that IBM breaches of the ABS, IBM won the ABS contract to host the 2016 census. The ABS Australian Bureau of Statistics form during Census 2016 it was decided that IBM would be the ABS's preferred tender because of money and management of operational risk." Information
2014 December	David Kalisch begins as Head Statistician Mr Kalisch, who began his career as had shadowed Brian Pink and Dennis Trewin. Pink, the ABS's head of department, whether Palmer was responsible in the time for the approval of the ABS's budget and operations. He was an associated technology team. ABS media release			
2015	ABS asks to move to a 10 yearly census The ABS's executive team to replicate the census every 10 years, rather than every 5 years. This shows ABS Archive	GOVERNMENT	COMMUNITY	TECHNICAL
2015 May	BUREAU OF STATISTICS			Increase to ABS budget for systems upgrade Australian Bureau of Statistics Government increased funding to the ABS for "critical Systems upgrades" and "improving statistical systems." The "systems new sources of revenue from the private sector and sophisticated users of data." Budget
2015 July		5 COMMUNICATION What if the word 'posterity' was listed as a core benefit, rather than just a GOO, rather than 'statistical efficiency'?		ABS tenders for data management systems Australian Bureau of Statistics Having axed in May of 2015 that most of its statistical systems. The ABS's head of outdated technology, the ABS was put to tender for a Enterprise Data Management System (EDMS) and related services. Government
2015 August	First publication of intent to retain names Australian Bureau of Statistics The ABS released their regular report into the 2016 census. It announced that its intent to retain names is an important change. The report stated that "a decision is made of how long they will be retained and the purpose for which they will be used" media release. The media barely reports the. ABS Media Release			
2015 October	Decision to conduct internal privacy assessment Australian Bureau of Statistics At a meeting on October 16 the ABS decided to conduct a PIA on the name retention idea to the public. The ABS conducts a more private assessment of the proposal. ABS Meeting Minutes		81% of the general community trust the ABS Australian Bureau of Statistics and 2,200 members of the general community. Interestingly, the survey the second survey in the history of the ABS. The survey found that 76% of respondents were aware that the ABS will continue to say they have name/census had a in the ABS. ABS Survey	
2016	Kalisch makes no mention of compulsory name retention in senate hearing Australian Bureau of Statistics Two days following the decision to run a PIA on name retention, David Kalisch, the ABS's Australian Statistician, appeared before the Senate Economics Committee. "For those who quit it" as it had been in submissions. Hansard			
2015 December	ABS responds to Privacy Assessment and uses jargon to outline benefits Australian Bureau of Statistics The ABS released its PIA on the name retention issue. The PIA was mainly mainstream media, the ABS says that the ABS's proposal to retain names "will not pose no privacy than retaining it now. The benefits they list are "for the purpose of producing more relevant, more timely and more efficient statistical operations" ABS Privacy Impact Assessment			Denial of Service attacks not specified as part of load testing simulations Australian Bureau of Statistics December for scenarios to complete load testing. Load testing is the ABS's Load Testing Report. Resolution IT says it was not asked to include simulation of DDoS attacks as part of its internal testing. Resolution IT Report
2016	Head of 2016 census says it's at risk of critical failure In an internal memo, the head of the ABS's 2016 census, Alan Flanagan, said the census is at risk of "critical failure." According to Peter Martin of smh.com.au, Flanagan's memo said that the ABS was having issues to ask Bowen questions or to reach fewer people.			
2016 March	BUREAU OF STATISTICS	GOVERNMENT	Media begins to report name retention story Australian Bureau of Statistics The media began to report on the ABS's name retention plans in March 2015, it is not until March that the ABS's plans to retain names. Fairfax ran an the introduction and clashed into name retention policy for the 2016 census. Fairfax	TECHNICAL
2016 April	Decision to keep names for four years rather than indefinitely Australian Bureau of Statistics Public pressure forced the ABS to back down from its plans to retain names indefinitely. They instead decided to keep the linkage keys created for them, perhaps for four years. The announcement that the public cannot understand. Lying census	Government releases cyber security strategy The government's cyber security strategy. the government admits that department systems have been subject to cyber attacks. According to Why the Liberals' cyber security strategy is a joke, the government had admitted it was the victim of such attacks. Cyber Security Strategy	COMMUNITY	
2016 May				Load testing of website includes allowance for peaks in access Australian Bureau of Statistics Load testing including load balancing, Resolution IT says that the ABS website was tested "to sufficient peaks head room as specified by the ABS" Later media reports suggested that the website had load balancing capabilities. Resolution IT
2016 July	Kalisch responds publicly to privacy concerns In an opinion piece for the SMH, the head of the ABS, David Kalisch, defended the ABS's privacy. Criticism of names is primarily being "for statistical purposes only, and that the ABS has a "culture of privacy." He also emphasised the safety of the data. SMH Article	McCormack appointed as minister responsible Australian Bureau of Statistics After a period where no minister was responsible for the ABS, Michael McCormack was appointed. According to the 2,000, Mr had responsibilities for the ABS. Responsibilities for small business which includes responsibilities for the ABS.	Households receive logins but no mention of dates for completing the census Letters sent out to households with login details did not include the September census date. Households were instead told to access the site only to receive the census website on August 9.	
2016 August		Xenophon and other senators vow to leave names off the census Australian Bureau of Statistics Senators including Senator Xenophon and Scott Ludlam say privacy concerns are too great for them to fill in the census. Senator Xenophon said that the ABS chief Bill Scott and ABS Prime Commissioner Elizabeth Coombs.	Census lines jam as more people request paper form than expected Australian Bureau of Statistics Call centre lines were jammed as more people than expected to get help filling out the form online or to request a paper one. Census Day	
CENSUS DAY		McCormack says he's 'worse than Facebook' Australian Bureau of Statistics "I'm the bit worse than a Facebook," he told reporters in the qld for less than a month, says on the census. "I'm not going to be able to be concerned about online or pays of the census as it is "no worse than Facebook"		65% of Australians expected to submit online Australian Bureau of Statistics ABS census day no ABS representative says they expect 18.5 million people to complete the census online. It was the first time that the system had been tested to 100% of what they expected to be in it. ABS Census
7:00pm		Turnbull tweets he has completed online census The Prime Minister tweeted that he had completed the census online. The ABS is not planning earlier Govt services & investment for the future". Tweet	Public begins reporting via Twitter of inability to access the census online	Census site subject to denial of service attacks Australian Bureau of Statistics Akamai Security Report that the site was subject to "multiple DDoS attacks of size and severity" Initial reports do not specify the origin of the attacks. Akamai's data is from sources outside Australia, and some question whether these attacks occurred at all. Akamai Security Report Paul Wallbank
7:30pm	BUREAU OF STATISTICS	GOVERNMENT	COMMUNITY	System outage on census website is not immediately reported
8:38pm	ABS tweets about system outage The ABS tweeted that services are currently experiencing an outage. We're working to resolve the issue as a matter of priority as updated. Thank you." The bureau also used the hashtag #censusfail to "have plenty of time" to complete. Tweets			TECHNICAL
11:00pm	ABS says website will be out of action for the night According to ABS the website did not fail. It was "deliberately taken offline" between 9pm and 11pm. 2 million forms were successfully submitted before the shutdown. Media Rel			Census site completely shutdown
AUG 10	Media release reports a 'confluence of events' responsible for site shutdown The media release claimed that, the ABS explains the series of events which led to the shutdown. It claims that "the site was compromised" but the combination of four DDoS attacks, a large number of people trying to access the site and problems with a failed attempt to system monitoring. Media Rel	6 SYSTEM DESIGN What if people had been encouraged to use the site at off-peak times to better balance load on the site?	People still trying to access and worried about consequences Australian Bureau of Statistics As it happened 2016 is overdone and return their census forms.	
AUG 11		Turnbull orders inquiry and blames the ABS Staff from the ABS and Government met the Prime Minister criticised them for "unacceptable" failures by the ABS and government decisions as the not saying. abs.news.gov.au		Website restored but many still cannot access Australian Bureau of Statistics The head of Resolution which ABS cannot access the site as the DNS configuration was incorrect. The ABS subsequently increasing load capacity. Resolution Australia, Resolution Australia
AUG 12–13		7 SYSTEM DESIGN What if before the census went to tender there'd been a 'Hackfest' to better understand technical requirements?		Two uni students create a robust census site over 54 hours for $500 Australian Bureau of Statistics University of Technology team up at Census Hackathon to build a robust alternative census site which they call "Make Census Great Again" #MCensus