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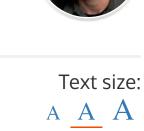
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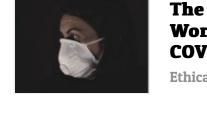
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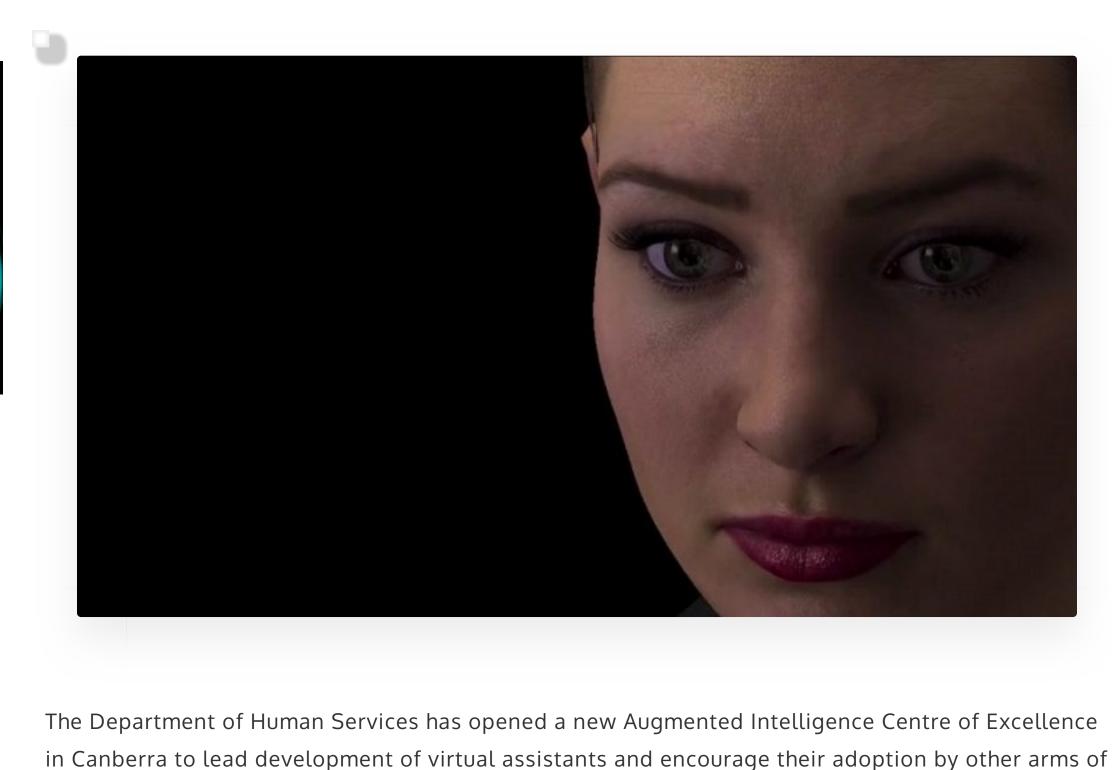
the federal bureaucracy.

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APS centre of excellence to develop the next generation of robot public servants

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The government wants to make sure the Australian Public Service "stays ahead of the curve with future developments" in the "rapidly evolving" field of robotic customer service, according to the Minister for Human Services and Digital Transformation, Michael Keenan.

Meanwhile, the opposition and the Community and Public Sector Union continue to argue the Coalition government has neglected its responsibility to adequately staff his department with humans. Keenan says he envisages human staff being supported rather than replaced by increasingly clever software — hence the focus on "augmented" intelligence for the new APS centre

of excellence. "Augmented intelligence is not about replacing people with machines, but rather about developing ways to better support our people and further enhance the customer experience for the millions of Australians who rely on our services," he said in a statement. According to the minister, the AI Centre of Excellence will collaborate with academics and

make sure "regulatory or ethical considerations are addressed before rollouts take place" in government agencies. "Other government agencies will also be encouraged to contribute their expertise and

companies developing these products "to ensure world's best practice is incorporated" and also to

As part of the launch, "high-ranking public servants from right across government" were invited to see a technology showcase featuring relevant offerings from IBM, Microsoft, Amazon Web Services and Trellis Data.

gain insights from the work being done by the centre."

<u>Transformation Strategy</u> last week.

said.

Fully customisable virtual assistants The main goal of Keenan's AI research and development unit is to work towards a new generation of

"fully customisable virtual assistants that will be able to speak any language, be able to talk people through each step of an online application form, or even let them know if they are eligible for a

benefit without being prompted" — which he also foreshadowed at the launch of his Digital

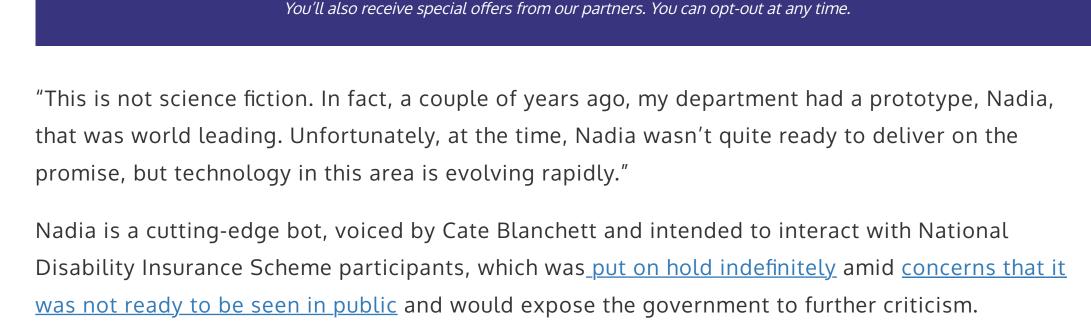
services run by separate agencies across ministerial portfolios, and across the different levels of government. Achieving this would lay the groundwork for advanced bots that will be like "your own dedicated government digital assistant", according to Keenan's comments last week at the National Press Club. "This means that everyone accessing government services may have access to their own dedicated

understands their needs and can provide a familiar face when you're dealing with government," he

First, however, the plan is "refocusing government services around life events" by joining up the

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personal avatar assistant that can talk in their language, that knows their preferences, that

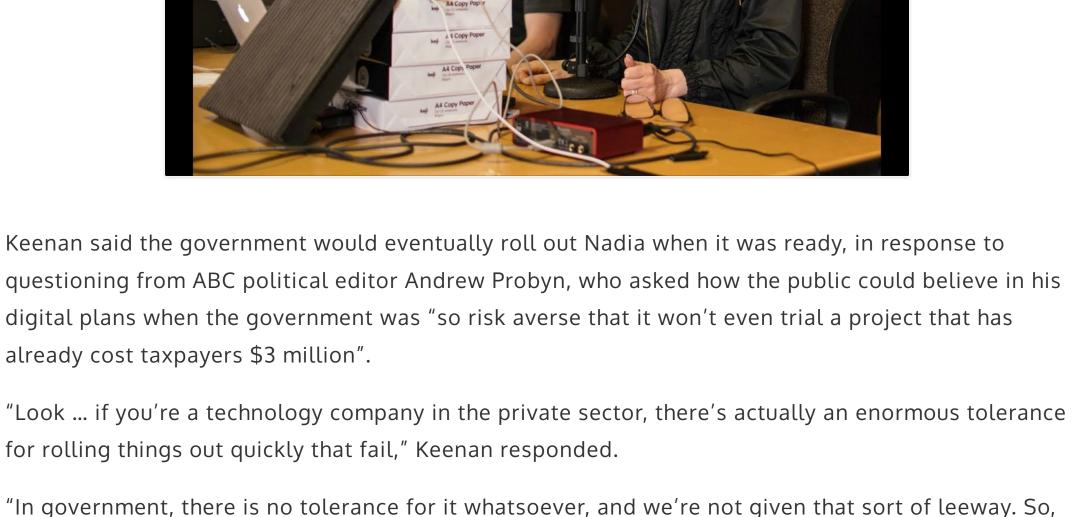


started work on a proof-of-concept for its own advanced virtual assistant with FaceMe, one of several companies involved in the creation of Nadia, along with New Zealand's Soul Machines, which was founded by Oscar-winning autonomous animation expert Mark Sagar.

The Australian Digital Health Agency which runs the MyHealth record system has also <u>reportedly</u>

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The Making of Nadia



Having just admitted there is no tolerance for bugs in government systems, he then went on to argue this was not the same as saying the government was "timid when it comes to digital transformation" and cited Australia's position on various international rankings. "That's recognised by any international survey you would care to look at; most recently, by the

when we do roll out new technology, we do need to be satisfied that it is going to work."

United Nations. And we've done that because we have been very good at rolling out these things. But there just isn't that tolerance for failure within government that we can afford to roll things out until we're 100% satisfied that they're going to work."

One of Nadia's creators, former National Disability Insurance Agency executive Marie Johnson,

in the public service. "For many years, I have been publicly advocating for this, and I know personally how inherently liberating this capability is to a great many people," she writes on the CIO website. "I am pleased with the government's recognition of the role that digital humans will play in service delivery."

AI-powered digital humans

words and phrases.

simply be left to software developers.

to faster claims.

recently penned an article welcoming the renewed focus on getting these "digital humans" to work

"digital humans" because, if they are developed well enough, they have the potential to be much more than a text-based chatbot.

Johnson says Nadia is a truly world-leading project that demonstrates "Australia doesn't need to

look to Estonia or the UK or the UN digital government leader board for validation" and holds the

promise of a way to improve the customer experience. She refers to the new generation of bots as

"Previous digital transformation strategies and service delivery reform efforts were about removing the human dimension – pushing people away and into forms, apps, websites and over-burdened call-centres and treating people like machines. ...

contextual conversations – not just simple chit chat."

"AI-powered digital humans provide a new and unique way for people to access

information and services, through a highly engaging, non-judgemental face-to-face

conversational interface – and literally using natural language and every day common

"Digital humans are embodied empathetic intelligent digital beings with a co-designed

personality, defined roles, a deep body of subject matter knowledge capable of having

She says that with the right development through co-design, with psychologists playing a leading

role, rather than user-experience gurus from the IT industry, they can be empathetic and better

literacy, for example. The big players in the tech industry have begun to realise that creating intelligent avatars requires a human touch, so as not to make egregious mistakes and offend people in various ways. Google recently decided its new "smart compose" feature in gmail should just avoid saying "him" or "her" <u>altogether</u>, in one of many similar examples.

Johnson's point is that these digital assistants can be made into true "digital humans" that are a

pleasure to do business with, for anyone in the community, but doing so requires the right expertise

and intentions to customise them for their specific jobs in government — which is not a job that can

equipped to help people of all abilities, including those who fear "judgement and stigma" due to low

She also suggests this path is a more realistic way to provide better customer service than more investment in counters and call centres. "Notwithstanding the massive investments being made, the current model is not coping. Simply adding more resources (dollars and head-count) will not address the demand and will not future-proof for the decades ahead." Getting enough people to answer all the phone enquiries that go to Centrelink within a reasonable

timeframe has been an ongoing struggle. The agency was unable to answer about 88 million calls in

the 18 months to January this year — or about 48 million over the 2017-18 financial year — and many

The minister claimed DHS was "already a leader" in the adoption of digital assistants for answering

customer enquiries and helping staff find information more quickly. He said its three customer-facing

of those that get through have to wait on hold for quite a long time.

bots had answered about two million enquiries since June 2017 — a small fraction of what the department receives — and its staff-support bot Roxy had fielded about the same number of questions from public servants, but over the past two years. He says the customer service bots, Sam, Oliver and Charles were already "saving Australians considerable time and also reducing demand on our busy phone lines", and Roxy was also leading

Keenan has also suggested that outsourcing extra contact centre capacity from labour-hire

companies was improving those figures in the meantime, citing a report he commissioned from

KPMG that purportedly found contractors compared favourably to departmental staff in terms of

performance and cost-effectiveness, without reducing customer satisfaction. However he is under fire for refusing to release the full report to back up his claims, rejecting an order from the Senate for him to produce it by claiming public-interest immunity on the grounds of cabinet confidentiality. Top image: Nadia, the cutting-edge bot prototype.

About the author

CityNews and worked on industry titles for The Intermedia Group.

Departments: Department of Human Services National Disability Insurance Agency

Stephen Easton is a journalist at *The Mandarin* based in Canberra. He's previously reported for *Canberra*

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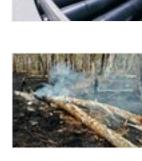
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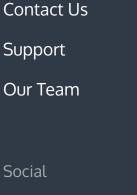
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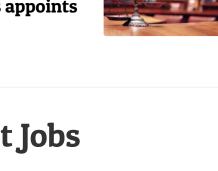
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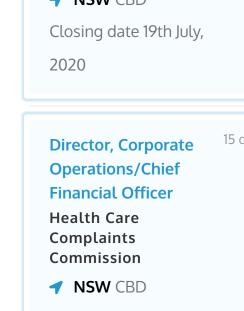
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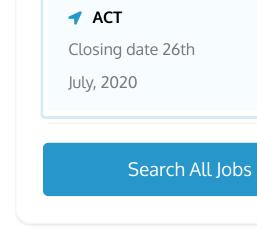
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