Deloitte.



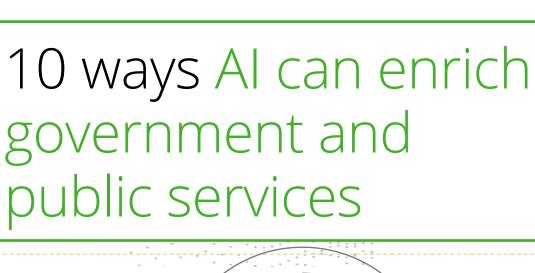














Augment and assist judicial systems

Al is being harnessed to predict outcomes for cases and accelerate case resolution in courts, leading to a more efficient and accessible judicial system for citizens.

Al technology can be used to optimise case backlogs and journeys, creating heightened efficiency whilst lessening pressure on our judicial system.



Al is enabling impartiality and reducing



corruption through electronic case allocation and random case assignment to ensure cases are heard in a fair and impartial manner whilst also identifying irregularities in case assignments.



Al enables for complex, real time adaptations based on learner performance and behaviour that drives personalised hints, feedback, remediation and knowledge reinforcement.1

feedback to students through perpetual learning loops that improve with each interaction and provide personalised earning strategies. Al can promote equity in the classroom

Al can provide granular and specific

learning solutions

by recommending and tailoring teaching approaches and content to each individual learner rather taking a generic approach.



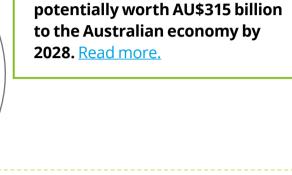




Al can learn how to assess applications and can automate the review process - eliminating overhead costs and repetitive labour.

Intelligent automation can improve public service outcomes by displaying case statuses, e-notices

and account balances which continuously improve procedural pain points for citizens.3 Digital technologies, **FACT** including AI, are





that lead to homelessness, drug abuse and other health-related social issues to inform policy and provide greater assistance to

Tackle **social issues**

vulnerable communities. Policymakers can use the outputs of predictive models to determine the likely efficacy of proposed programs and then shape their policy

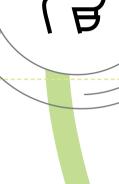
Al can identify trends and pick out key factors

drug addiction within a specific community and reducing the likelihood of food insecurity in underserved communities.4 Al can support and heighten processes for service programs – child support, food stamps - so limited human resources are deployed more efficiently.

goals for specific outcomes, such as lowering







Accelerate **medical** breakthroughs

treatment of diseases. Machine learning models can predict how molecular compounds might interact, helping to identify targets for drug discovery and flagging promising findings for further investigative research.

CoV-2 was identified

AI can help analyse biomedical imaging,

genomics, and clinical data – along with data from wearable and implantable devices to accelerate detection, prevention and

Al is assisting nurses to monitor patients' conditions between doctor visits. The sequence of SARS-

with the help of AI. Read more.





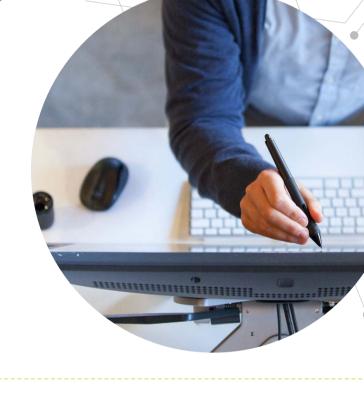
Al is used to optimise service recommendations and enhance customer engagement, improving both the speed and quality of service delivery while transforming the employee work experience and reducing workloads.5

Streamline government

employee experience

Al can be used to detect engagement trends across campaigns to gain insights about which programs are preferred by specific employee segments, and to gauge each group's satisfaction with their chosen programs.







from occurring Al can predict natural disasters or food and medicine shortages to better prepare our communities for the appropriate response and rovide adequate care.

emissions.

social, cyberspace and IoT data to assess the risk of a pandemic, predict the trend of an ongoing epidemic, detect abnormal changes and issue early warnings as needed.6

Deep learning neural networks can use economic,

Prevent crises

Al can model changing global weather patterns using predictive analytics and agent-based simulation models to enable more accurate tracking and forecasting of extreme climate



Al is used in climate impact assessment, abatement portfolio management, simulation of decarbonisation scenarios, physical risk assessments, monitoring the effectiveness of carbon offsetting efforts and tracking and taxing

events and inflection points.



staff, acting as a force multiplier to dramatically mitigate the consequences of the skills gap in advance of the arrival of our expanded future cyber

Assure Australians'

Al can be used to extract useful

systems. This data can aid in the

activity, as well as alerting the

appropriate authorities.⁷

workforce.8

information from linked devices like radars and autonomous identification

detection of any unlawful or suspicious

Al can augment the abilities of security

security

Al can help detect patterns within large quantities of data that human analysts can't see, such as the key linguistic patterns of hackers posting emerging threats on the dark web.9





Foster **innovation**

Al can take the robot out of the human by

Al can identify patterns in a patient's language and analyse whether any progress is being made, enabling therapists to quickly determine which approaches work best to promote faster and more effective mental health care solutions.

disease.

other medical records to quickly identify a disease. **Australian industry FACT** needs up to 161,000 new specialist AI workers by

Al can reduce the time it takes to make a diagnosis by comparing a patient's symptoms to millions of

Al can identify patterns in large populations of people to help identify early warning signs of



2030. Read more.

Improve

Al enables personalised health care by leveraging tailored patient health data, which promotes better

patient outcomes as everyone's body type,

immunity and medical aspects differ.

health care



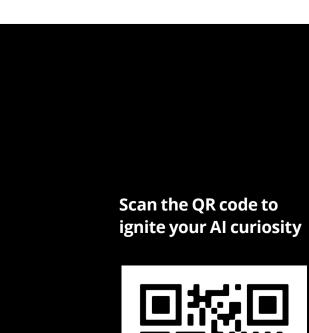
completing the mundane, repetitive tasks to free up human workforces to focus on problems and connect ideas that only a human could do.

Al can be harnessed to mine for pattens in your data to inform new business models, markets or products more aligned to customer trends and needs.

Al can democratise data and creativity, by allowing anyone to tap into the rich insights that it can provide, it can also translate the work of experts into snackable pieces of information for everyone

Get in touch







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1. https://trainingindustry.com/magazine/mar-apr-2019/adaptive-learning-3-0/ 2, 3, 4, 5, 6. https://www2.deloitte.com/content/dam/Deloitte/au/Documents/deloitte-analytics/au-da-artificial-intelligence-institute-dossier-140921.pdf **7.** https://www.analyticsinsight.net/the-role-of-ai-in-the-defence-sector/ 8. https://securitybrief.com.au/story/protecting-australia-s-critical-infrastructure-with-ai **9.** https://theconversation.com/how-ai-is-shaping-the-cybersecurity-arms-race-167017 This publication contains general information only. Liability limited by a scheme approved under Professional Standards Legislation.







