techUK
FOR WHAT COMES NEXT

Getting AI and Automation right for what comes next

Sue Daley, Director Tech and Innovation, techUK

techUK

Who we are

Our mission

techUK

Make the UK good for tech

Make tech good for the UK

Make tech good for people and the planet

Working with our members to harness the power of tech to…

techUK

Empower people

Strengthen society

Drive the economy

Protect the planet

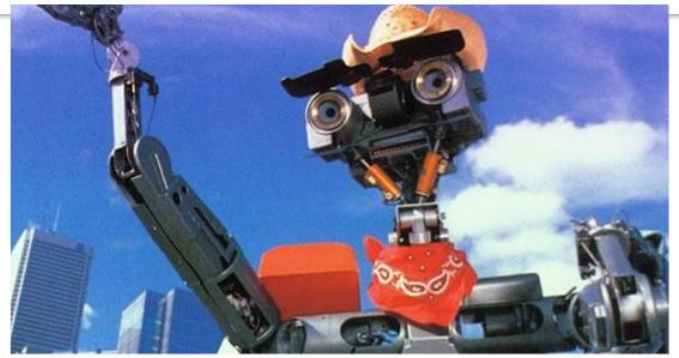
techUK

AI & Bots4Good

techUK

Science fiction fan – popular robots

techUK



AI robot version of Albert Einstein warns humanity is DESTROYING itself

INDY/TECH

'KILLER ROBOTS' THAT CAN DECIDE WHETHER PEOPLE LIVE OR DIE MUST BE BANNED, WARN HUNDREDS OF EXPERTS

theguardian

sport football opinion culture business lifestyle fashion environment tech travel

Artificial intelligence risks GM-style public backlash, experts warn

Banks' rush to introduce AI could put economy at risk

Rise of the robots: 600k construction jobs could be lost to automation by 2040

IT'S ALIVE! Artificial intelligence could 'go rogue' and turn on its human creators, top Oxford academic warns

TALKING TECH BUZZ VIDEO PODCASTS NEWSLETTER

Hawking: AI could be 'worst event in the history of our civilization'

techUK

Getting AI and Automation right for what comes next

Where we are right now – What have we learnt during Covid

COVID-19 highlighted the importance of digital technologies – including data and AI

December 2020 techUK released “Respond, Adapt, Recover – Stories of how tech is delivering on the frontline”

- Healthtech and social care
- The digital transformation of communities
- Working from home - securing new ways of working
- Data’s role across the healthcare response

Respond - Remote patient monitoring, community alarms, sensors in the home – all cases of automation

Adapt – Drug discovery – research from months to 48 hours, use of data for operational needs

Recover – Second wave of the virus -drug discovery, vaccine development, contact tracing, outbreak prediction, treatment and diagnosis

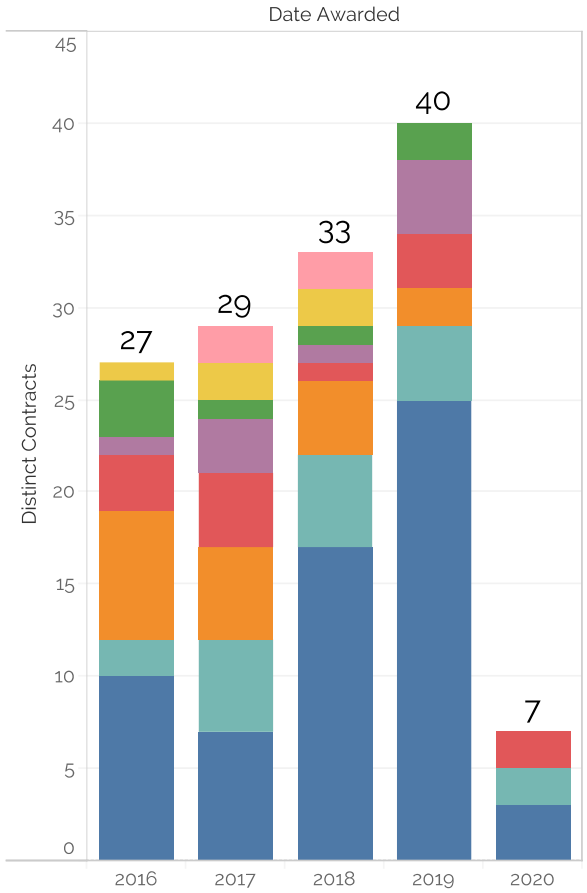
Looking to the future – Opportunities ahead in health

techUK

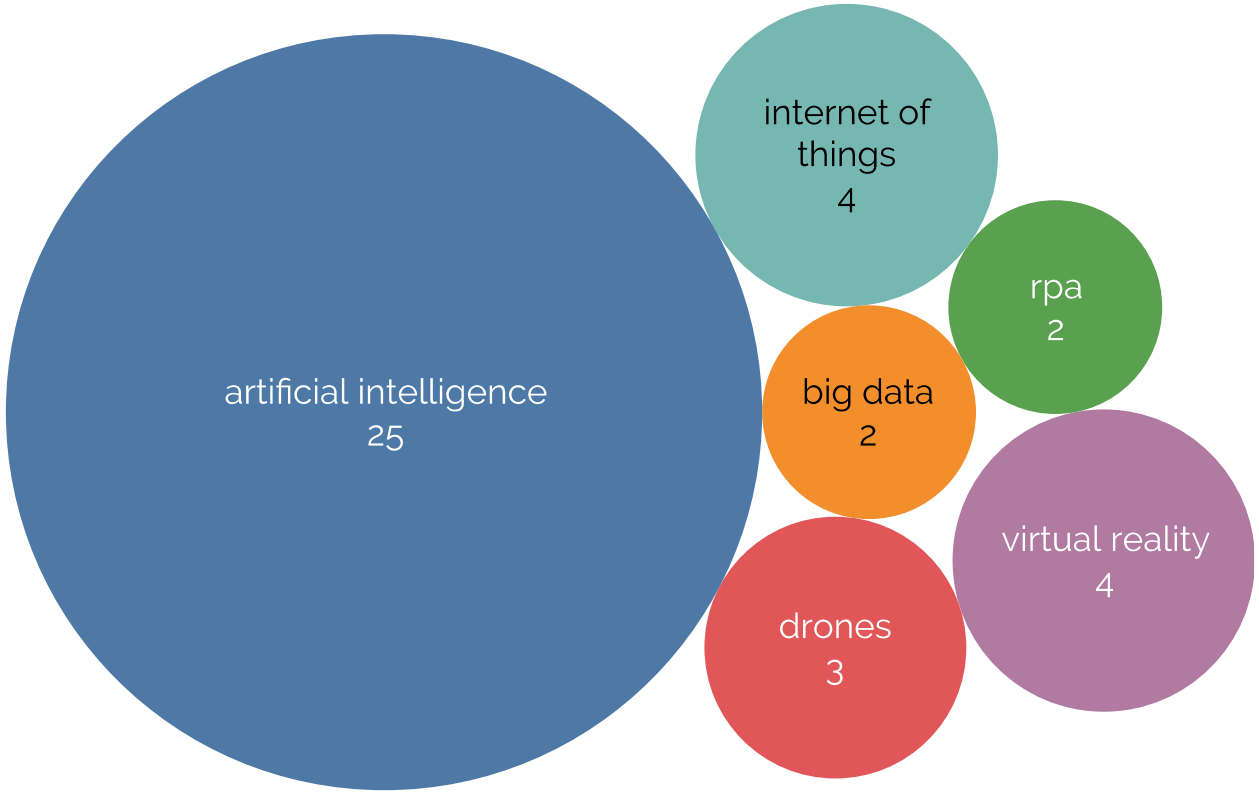
- **Reducing the size of the elective backlog**
- One of the most pressing challenges facing the NHS, along with workforce shortages; automation can help with both and play an extremely important role in accelerating recovery
- Automation is already making a significant impact in hospitals across the country, helping to improve outcomes for patients
- A survey carried out last year by NHSX found that 65% of respondents who were implementing RPA identified the following as their top priorities:
    - increased productivity;
    - increased clinical efficiency;
    - improved process integration;
    - and a focus on continuous improvement
- We believe the NHS is still at an early stage of RPA adoption but know that many organisations have plans to expand RPA development over the coming years

Volume of contracts for “future tech” increased again in 2019, with AI being the most widely adopted

Number of future tech contracts awarded by Central Government since 2016



Future tech contracts awarded by Central Government in 2019



techUK

Getting AI and Automation **right** for what comes next

National AI Strategy – Its role and next steps and recommendations

September 2021 first National AI Strategy – 1o year plan

What strategy means for public sector

- To lead from the front and set the example
- Safe and ethical deployment of AI
- Working with ATI to Update guidance on ethics and safety

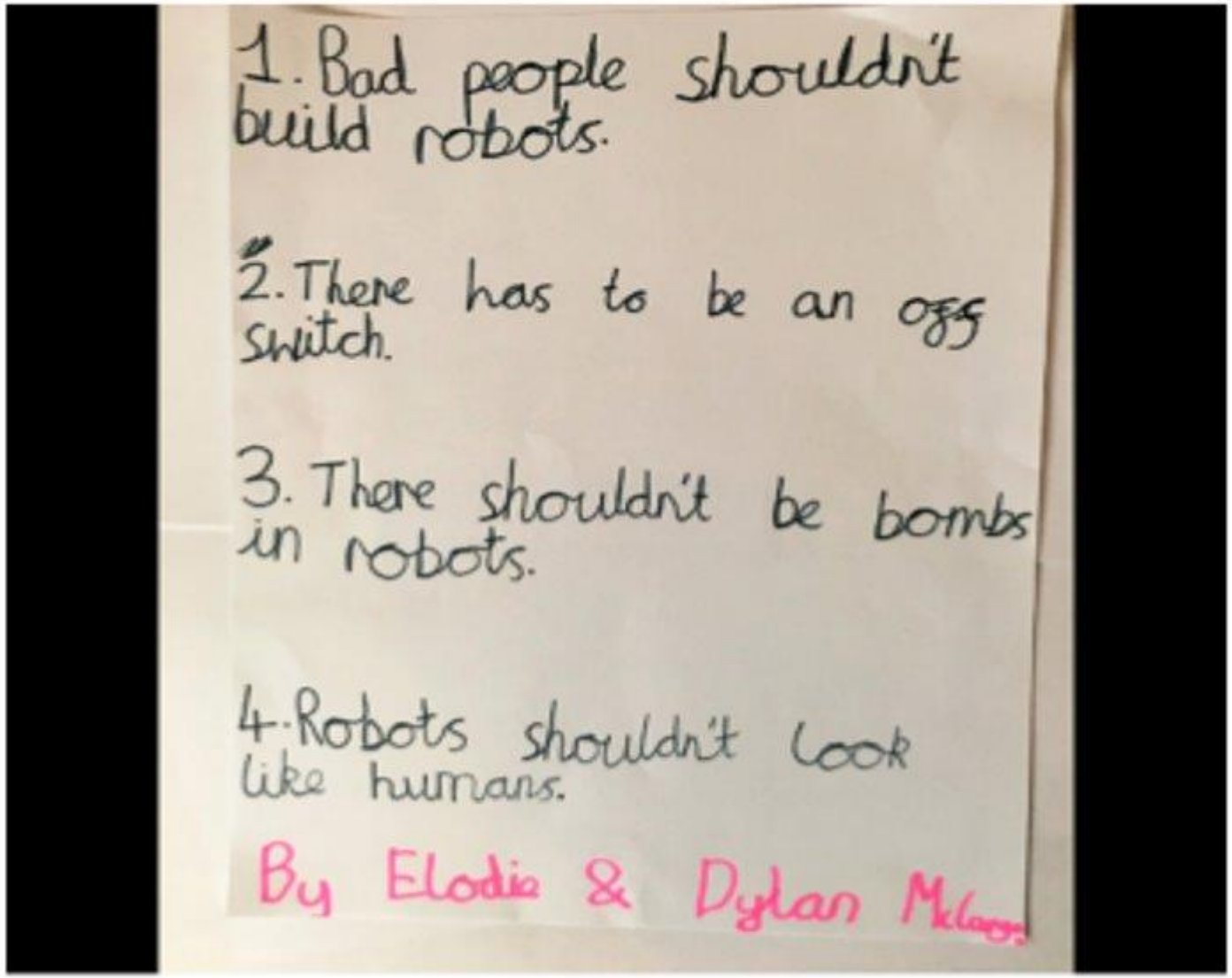
Key aim of the strategy is public sector AI adoption

- New National AI Research and Innovation Programme

What needs to happen next

- Must operationalize the strategy to support public sector

Ethics issues are still key…



ROB MCCARGOW @robmccargow · Mar 20

I spent 10 minutes discussing the #Ethics of #AI & #Robots with my 5 & 7 year old kids. They have produced their own #RobotRules! #ProudDad pic.twitter.com/gC1oByRct5

techUK Digital Ethics Summit – 8 December

techUK

techUK

techUK
Industry Perspective: Intelligent Automation in Central Government

Core barriers to public sector adoption of IA

techUK

- A lack of skills
- A lack of strategic approach
- The need for a cultural shift in workplace
- Funding
- The do-it-yourself-approach does not always work

Whilst this is specifically government, they also apply across different industries and sectors

techUK Intelligent Automation Report Recommondations

Recommendation 1: Undertake deeper engagement and collaboration between Government and industry through a specific Intelligent Automation forum, - shine a light on the possible.

Recommendation 2: Knowledge-sharing tools and platforms such as the Government's Automation Register should be **more visible and accessible**

Recommendation 3: Appoint a strategic sponsor within each Government Department's leadership team. Convene a forum of these sponsors to develop conversations based around strategic value, rather than technical problems.

Recommendation 4: Engage industry to support the consolidation of the Department **Automation Blueprints** to create a coherent, integrated and well-scoped programme of activity.

Recommendation 5: Leadership must establish and reinforce the expectation that **automation will augment the workforce**, enabling employees to spend more time on strategic initiatives instead of mundane tasks.

Recommendation 6: Ensure appropriate funding is place in the next Spending Review to support the adoption and scaling of automation.

Thank you

Please contact me on sue.daley@techuk.org