

Ethical Adoption of Artificial Intelligence in Cybersecurity within the Irish Civil Service

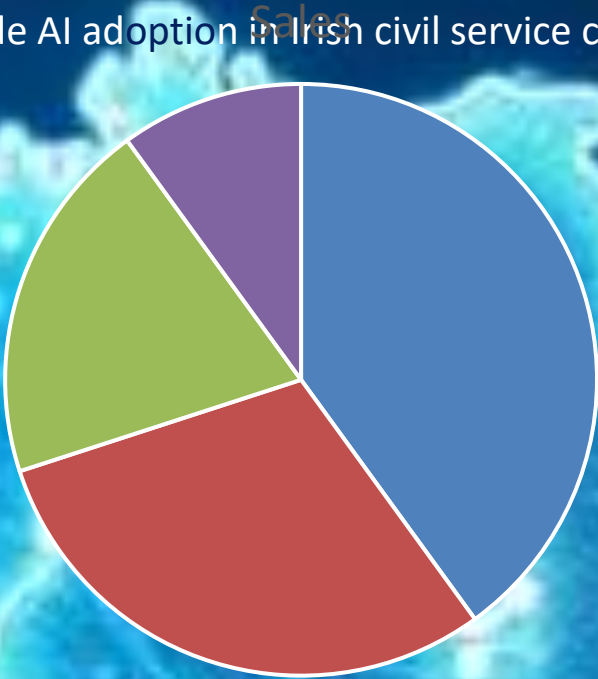
Bridging Innovation and Governance Using Rogers’ Diffusion of Innovation Theory

Overview

This study examines AI integration barriers in Irish civil service’s cybersecurity practices

Adoption barriers

Technical, regulatory, financial and cultural barriers impede AI adoption in Irish civil service cybersecurity

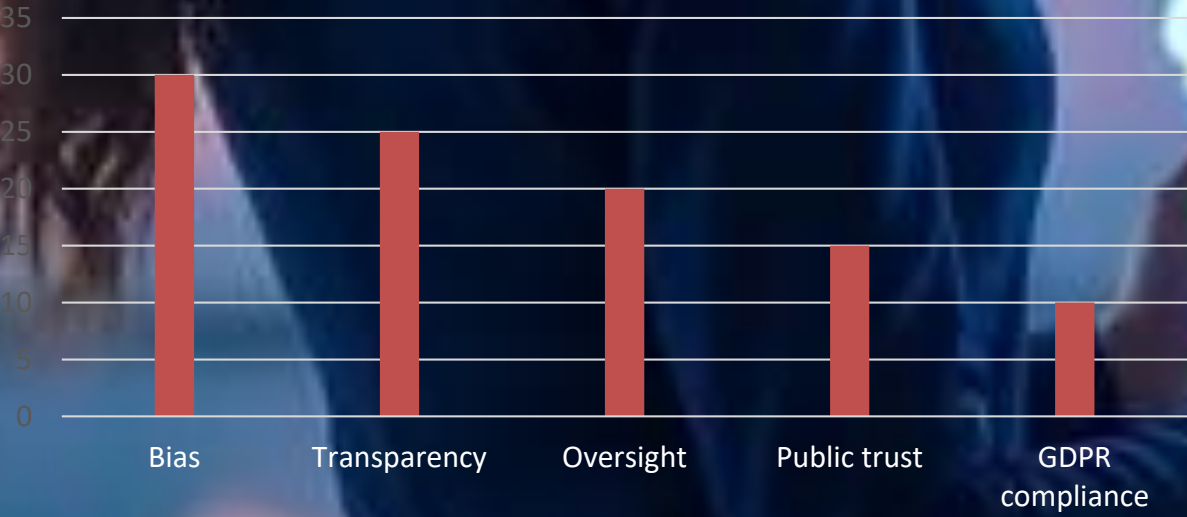


Research focus

The study investigates obstacles to AI adoption and proposes governance strategies for ethical integration

Findings

Major ethical challenges identified algorithmic biases, and transparency in AI- decision making along with data privacy

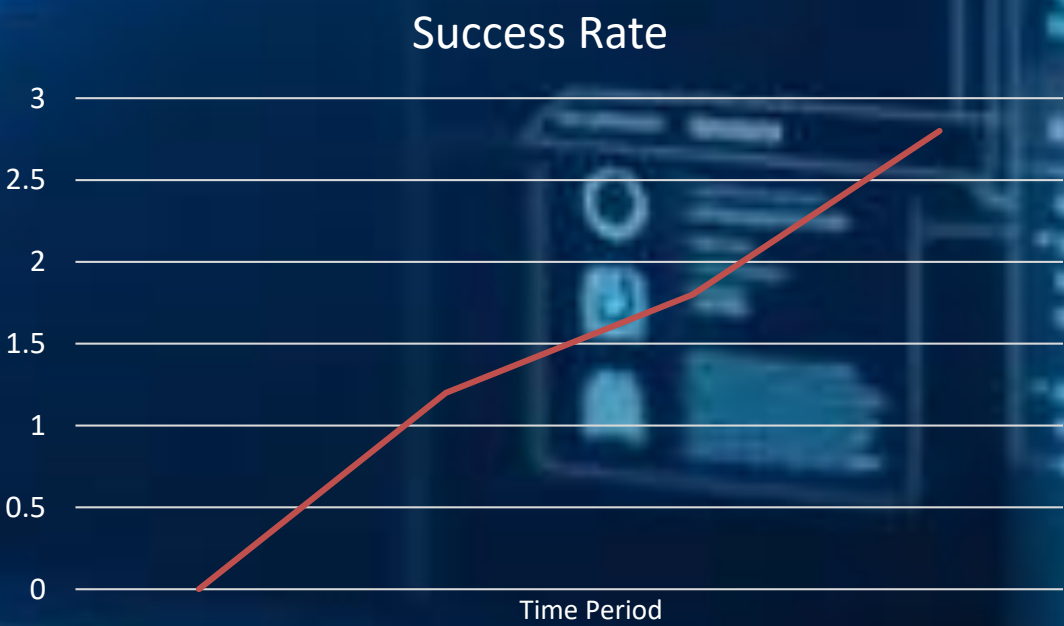


Strategies

Implement ethical oversight committees to foster accountability in AI apps in the civil service
Promote awareness and training programs to equip professionals with AI understandings and skills.

Implementations

Pilot projects can demonstrate the feasibility of AI in cybersecurity with measurable outcomes



Conclusion

Adoption of AI in Irish civil service cybersecurity requires overcoming barriers, addressing ethical challenges and implementing effective governance frameworks that prioritise transparency and accountability.