



## **CIC leads £10 million Series A funding into artificial intelligence company PROWLER.io**

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Cambridge Innovation Capital (CIC), a Cambridge-based investor in technology and healthcare companies, has led a £10 million Series A funding round for PROWLER.io, a company developing a world-leading, artificially intelligent decision making platform based on interpretable principles of mathematics and learning.

PROWLER.io's platform enables users to observe and predict the way agents – such as vehicles, drones, robots, characters in games and even people – interact in complex environments, thus providing users with an understanding of the millions of micro-decisions that can occur in dynamic systems.

The platform combines three core mathematical areas: machine learning, probabilistic modelling and game theory to provide new insights into virtual and physical environments. Its agent-based machine learning methodology is more interpretable than traditional deep neural nets and its multi-agent systems are more adaptable and strategically interactive than decision-tree based systems.

PROWLER.io's platform has many potential uses but is initially focusing on game development, autonomous vehicles (AVs), drones, robotics and smart cities.

In game development, PROWLER.io's platform replaces the use of hand-crafted rules, which are time consuming, expensive and restrictive for decision making. This produces games that feel open and responsive and engage players in novel, more personalised ways. In addition, PROWLER.io's agents can be designed to perform repetitive tasks thousands of times faster than manual testers, thus significantly reducing game development costs and time to market.

It is impossible to program AVs for every eventuality they will face on the roads. PROWLER.io's technology uses probabilistic modelling to enable a self-learning car to "understand" itself and its environment. Multiple principled learning approaches are used to teach it to drive, together with multi-agent systems to ensure that it operates safely alongside other road users.

In smart cities, the platform optimises fleet planning and management. This ensures that real time demand for AVs matches supply, vehicles are close by when needed, routes are planned efficiently, congestion is reduced and negative environmental impacts are minimised.

Andrew Williamson, Investment Director at CIC, who is joining the Board of PROWLER.io commented, "PROWLER.io has assembled a world-class team of researchers to tackle some of the most intractable problems of our age. It is hugely exciting that the company is able to capitalise on the expertise in probabilistic modelling, principled machine learning and game theory available in Cambridge. The combination of PROWLER.io's team and technology applied to the important problems they are solving provides a significant commercial opportunity for the company."

Vishal Chatrath, CEO of PROWLER.io added, "This investment allows us to expand our world-leading team of academics and developers, enhancing our research bandwidth and accelerating our technology into the market. As a team, we will use the funding to take the business to the next stage and we will continue to solve some of the world's hardest machine learning problems."

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**For more information, please contact:**

**Cambridge Innovation Capital**

+44 (0)1223 764875

Andrew Williamson, Investment Director

Louise Rich, Head of Investor Relations and Communications

**Consilium Strategic Communications (City, financial PR)**

+44 (0)20 3709 5700

Mary-Jane Elliott

[CIC@consilium-comms.com](mailto:CIC@consilium-comms.com)

Ivar Milligan

Lindsey Neville

**Holdsworth Associates (local and trade PR)**

+44 (0)1954 202789

Rachel Holdsworth

[Rachel@holdsworth-associates.co.uk](mailto:Rachel@holdsworth-associates.co.uk)

**About Cambridge Innovation Capital**

CIC combines a unique relationship with the University of Cambridge with deep financial and industry links to invest in rapidly growing intellectual property rich companies in the Cambridge Cluster. The Company is committed to building leading healthcare and technology businesses from brilliant IP – with the support of some of the most influential figures in the sector and a patient capital structure.

For more information visit [www.cicplc.co.uk](http://www.cicplc.co.uk) or follow @CambsInnovation

**About PROWLER.io**

PROWLER.io is a Cambridge-based start-up with a world-class team of leading experts in machine learning, probabilistic modelling, Gaussian processes, reinforcement learning, decision theory, multi agent systems and game theory. The company is building an AI decision-making platform on a foundation of interpretable principles of mathematics and learning.