

Pioneering concept design for Cambridgeshire Autonomous Metro (CAM) unveiled

Dromos Technologies and partners PriestmanGoode, Buro Happold and Rider Levett Bucknall (RLB) have unveiled their concept design for the Cambridgeshire Autonomous Metro (CAM). The proposed concept design, one of three submitted to the Cambridgeshire and Peterborough Combined Authority, addresses vehicles, infrastructure, energy, environment, sustainability and system operations.

Dromos offers a paradigm shift away from traditional mass transit. Dromos is an Autonomous Network Transit solution for medium to high capacity transit. Dromos vehicles travel on a dedicated network directly from origin to destination with no stops in between. Traditional mass transit solutions present a number of challenges: they are overcrowded at peak times, underused off-peak, expensive to run, have a high environmental impact when empty, while unnecessary stops between origin and destination increase journey times.

The Dromos network proposed for Cambridge and the wider region solves these problems, offering fit for purpose vehicles, on-demand service with less than two minutes response time, reliable and flexible – 24 hours a day, seven days a week, 365 days of the year.

Offering generous interior space, complete accessibility compliance, wifi connectivity, work space, stowage solutions for bicycles, luggage and shopping, our future proof mobility solution enables fast, non-stop connections for rural and city residents across the CAM network. Our flexible, lightweight, economical vehicles will provide private and personalised travel experiences for the entire community, as well as offering sustainable freight delivery services to businesses throughout Cambridgeshire.

Lars Herold, CEO of Dromos Technologies said:

“The Dromos Autonomous Network Transit (ANT) approach offers a world-leading innovative transport solution for CAM, which will define Cambridgeshire & Peterborough as a pioneer in future mobility. With up to 84 stops across the CAM network, Dromos delivers significant passenger benefits and a superbly comfortable and individualised transport experience accessible to all. Moreover, it offers significant cost, infrastructure and environmental benefits. Simply put, Dromos is the future of public transport.

Kirsty Dias, Managing Director of PriestmanGoode said:

“The Dromos concept is more than an innovative approach to mass transit for the Cambridgeshire region, it’s an opportunity to define what public transport could look like for cities all around the world. It’s a bold vision created by four leading experts in their fields, that outlines the possibilities of designing infrastructure that is efficient, fit for purpose and both human and planet centric.”

Andy Stamps, Head of Infrastructure, RLB said:

“At RLB, infrastructure means so much more to us than just transportation, energy and telecommunication but more how we build societies, create equality within those societies and bring opportunity to level up our communities. That’s why the RLB infrastructure team looks to work with partners and on projects that work towards these goals and feel that the Cambridgeshire Autonomous Metro is a prominent example. This unique and forward thinking transportation system will enhance connectivity between towns and their surrounding areas, and improve access to opportunity for all. We are proud to be providing cost planning and cost estimating services as part of this consortium and are excited to be an integrated part of this project.”

Justin Phillips, Partner and Global Head of Rail and Transit at Buro Happold, said:

“We are delighted to be supporting the Cambridgeshire & Peterborough Combined Authority realise the potential for a first of a kind step change in mobility, sustainability and technology for the City of Cambridge, and its surrounding growth corridors.

Technology and transit are moving at pace.. New approaches and innovations with autonomous vehicles inevitably keep evolving. Buro Happold helped the AG Dromos led team develop an initial design concept that will bring about a truly adaptive, realistically scalable and cost-effective solution. The concept will also bring the ability for early delivery and best aligns to the pressing growth ambition for this critical region to the UK economy. And of

equal importance the team will provide practical outcomes that gives critical consideration to the environmental impact, and minimise disruption during construction and operation.”

The designs are intended to help inform, challenge and inspire how CAM can realise its mission to be transformational for the future of the region. While the design challenge was not intended to find an ultimate delivery solution for CAM, aspects of the designs, technologies and thinking demonstrated could be adopted as part of the project's next business case phase which begins in April.

For more information on the CAM, visit the website, www.cam-metro.co.uk

About Dromos Technologies

Dromos Technologies develops autonomous network transit systems designed for high capacity urban passenger and freight traffic. Based in Munich, Dromos brings together the world’s leading autonomous driving, automotive and mass transit know how to ring in the next paradigm shift in urban transportation.

Dromos.network

About PriestmanGoode

PriestmanGoode is a design studio dedicated to designing a better future. The London and China based company specialises in human-centred design and improving customer experience on large scale projects in infrastructure, aviation, transport, hospitality and product design. Their work is used by millions of people around the world, every day.

www.PriestmanGoode.com

About Buro Happold

Described by our clients as 'passionate', 'innovative', 'collaborative': Buro Happold is an independent, international engineering practice that for over 40 years has become synonymous with the delivery of creative, value led building and city solutions for an ever changing world. Having worked on every continent, our clients include more than 90% of the world's leading architectural practices and we have collaborated with global organisations such as the United Nations, The World Bank and UNESCO. Through our global community of driven, world leading engineering and consulting professionals we deliver elegant solutions for buildings and cities that seek to address the major problems facing societies today. Follow us [@burohappold](https://twitter.com/burohappold) and find out more at www.burohappold.com.

About Rider Levett Bucknall

Rider Levett Bucknall is an independent construction, property and management consultant, providing advice focused on the value quality and sustainability of the built environment.

Worldwide the firm has over 3,600 staff operating from more than 120 offices. Its international reach ensures that it provides services in line with the latest innovations and examples of best practice, supporting expertise in a range of sectors including industrial and logistics, healthcare, commercial, education, sport, infrastructure, retail, and residential.

RLB infrastructure clients include High Speed 2 (HS2), Highways England; Coventry and Dudley Very Light Rail (VLR), Associated British Ports (ABP), Manchester Airport Group as well as having involvement with government and industry bodies such as CLC, IPA, RICS and ICE to help shape the future of the infrastructure sector in the UK.

www.rlb.com