

THE UNIVERSITY of York

The University of York, UK

Dr David Grace, the project's Principal Scientific Officer, leads the University of York team. The team is contributing to the cutting edge research on the broadband service provision to high-speed vehicles. They are leading the development of the communications nodes and have a specific interest in the mm-wave and RF front end, as well as steerable antenna technology.

York Electronics Centre, UK

York Electronics Centre is co-ordinating the project. It is a commercial unit within the University of York developing solutions for industry and commerce.

Josef Stefan Institute, Slovenia

JSI is the leading Slovene research organization covering a broad spectrum of basic and applied research in natural sciences and technology. They are leading the work on "Communications Links", contributing specifically in networking, QoS, standards, and radio interface.

Politecnico di Torino, Italy

The Telecommunication Group has developed significant experience in the study and design of digital and analogue communication systems, using both analytical and simulation approaches. Within the project they are focusing particularly on signal processing aspects of the broadband delivery to high-speed vehicles.

EuroConcepts s.r.l, Italy

EUCON is an R&D company, working in the area of design and implementation of communication protocols in software and firmware across a multiplicity of programmable, re-configurable and fixed architecture platforms. The project will exploit EUCON's expertise in the implementation of signal processing algorithms.

Universitat Politecnica de Catalunya, Spain

The team has wide expertise in HAPs, radio-communication and broadcasting systems, channel modelling and simulation, fade mitigation techniques, signal processing (analogue and digital) etc. UPC is specifically contributing to the linearization of power amplifiers.

Carlo Gavazzi Space SpA, Italy

CGS is one of the main companies for space systems in Italy and has been in the aerospace market for more than 20 years. They are leading the critical project trials and are responsible for the design, integration and operation of support structures.

German Aerospace Centre (DLR), Germany

DLR is Germany's aerospace research centre and space agency. The project will involve the Optical Communications Group (OCG) of the Digital Networks Section within the Institute of Communications and Navigation. The work involves the production of an optical HAP payload and ground equipment to perform channel measurements on a high-speed optical downlink.

BT, UK

BT carry out substantial communications research. Within the project, BT have looked after service provision aspects including the development of suitable business models for the aerial platform architectures.

Budapest University of Technology and Economics, Hungary

BUTE is participating in the activities relating to the specification of networking and network architectures including work on different protection schemes to enhance system level reliability.

Centre Suisse d'Electronique et de Microtechnique SA, Switzerland

CSEM is an applied research and development company involved in the design and development of micro- and miniaturised systems for industry. In this project, CSEM are using their well equipped RF and mechatronic laboratories to support the development of steerable antenna technology for on board train applications.

Contraves Space AG, Switzerland

CSAG is a company within the Unaxis group with more than 30 years experience in the space business, in particular in the design, manufacturing, testing, integration of spacecraft structures and in the field of electro-optical systems. CSAG are supporting the development and testing of optical beam steering and tracking for optical crosslink terminals on HAPs.

National Institute of Information and Communications Technology, Japan

NICT carries out research and development in the field of information and communications technology, in an integrated manner from basic science to application. They are contributing to the project in several areas, including telecoms trials and radio resource management.

Japan Stratosphere Communications Inc, Japan

JSC was established in 2001 to assist in the development of stratospheric platforms in Japan, through partnerships with Aerovironment/NASA in the USA. JSC are assisting with regulatory, technical and business aspects of the project.

