

## Glossary

*Last updated: 3 March 2010*

Please find below a list of the commonly used acronyms and terms in the ITS domain, supplemented by other acronyms used in the documents on this web site.

**21CN (The 21st Century Network):**

A BT project involving moving the telephone communication network to an advanced IP based system

**2G:**

Second generation mobile phone technology

**3G (3rd Generation):**

Third generation of mobile wireless technology that features high speed transmission, global roaming and advanced multimedia access

**3GPP:**

Third Generation of mobile phones Partnership Project

**4G (4th Generation):**

Fourth-generation wireless, broadband mobile communications that will supersede the third generation (3G). No standards or carriers have yet been defined

**AAP:**

Active Accelerator Pedal

**AAT:**

Application of Advanced Technologies in Transportation

**ABD:**

Association of British Drivers

**AbvM:**

Anders Betalen voor Mobiliteit (alternative payment for mobility)

**ABS:**

Anti-lock Braking System

**ACC (Adaptive Cruise Control):**

Cruise control system that uses sensors to automatically maintain a safe distance from the vehicle ahead, adapting to speed changes, etc

**Accidentology:**

Science of understanding accidents

**ACEA:**

Association of European Car Manufacturers

**ACK:**

Acknowledged

**ACN:**

Automatic Crash Notification

**ActMap:**

Project developing mechanisms for online incremental updates of digital map databases into vehicles

**ADA:**

Advanced Driver Assistance

**ADAC (Allgemeiner Deutscher Automobil-Club):**

Germany's and Europe's Largest Automobile club

**ADAS (Advanced Driver Assistance Systems):**

In-vehicle technologies designed to improve vehicle safety by aiding the driver, such as collision avoidance, curve warning, distance control, etc.

**ADASIS:**

Advanced Driver Assistance Systems Interface Specifications project

**AEBS:**

Advance Emergency Braking

**AEI:**

Automatic Equipment Identification

**AEO:**

Authorised Economic Operations

**AEP:**

Architecture Evolution Plan

**AFREF:**

AFrican geodetic REference frame

**AFS (Advanced Frontline System):**

Concept of intelligent lighting, according to curves, weather and speed.

**AGI:**

Association for Geographic Information

**AGILE:**

Application of Galileo in the Location-Based Services Environment

**AGORA-C (implementAtion of Global lOcation Referencing Approach):**

Dynamic method for location referencing, which forms the basis of ISO 17572, Part 3.

**A\_GPS (Assisted GPS):**

Enhanced form of Global Positioning System which supplies location information instantly, using location data stored in mobile phone networks' servers.

**AHS (Automated Highway System):**

Research initiative aimed at developing automatic guidance on motorways for vehicles using cruise control.

**AID (Automatic Incident Detection):**

Radar- or video-controlled system enabling rapid location of an incident or accident on tunnels and motorways.

**AIDE:**

Adaptive Integrated Driver-vehicle InterfacE

**Airbiquity:**

Airbiquity provides wireless communications solutions that enable product suppliers and service providers in the telematics, portable navigation device (PND) and machine-to-machine (M2M) industries to deliver wireless data

**AIS:**

Automatic Identification System

**AKKC:**

Aalborg Kongress & Kultur Centre

**ALERT (Advice and problem Location for European Road Traffic):**

Protocol used for traffic messages by RDS-TMC.

**ALP:**

Anonymous Loop-back Proxy

**AMI-C (Automotive Multimedia Interface Consortium):**

Non-profit corporation of worldwide vehicle manufacturers which aims to develop a set of common specifications for a multimedia interface to motor vehicle electronic systems to accommodate a variety of computer-based electronic devices in the vehicle.

**ANPR:**

Automatic Number Plate Recognition

**ANSI-C:**

American National Standards Institute (ANSI) standard for the C programming language

**AP-DATEX (Application Profile for DATa Exchange):**

Part 3 of ISO 15784, a standard for data exchange between the road-side module and the traffic management centre

**API:**

Application Programming Interfaces

**APRE:**

Agency for the Promotion of European Research

**Application profile:**

A set of meta-data elements, policies, and guidelines defined for a particular application

**APROSYS:**

Assessment of crash functionalities

**ARE:**

Application Runtime Environment

**ARMAS (Active Road Management Assisted by Satellite):**

EC-funded project to develop virtual 'tolling' using satellites

**ARPANSA:**

Australian Radiation Protection and Nuclear Safety Agency

**ARTEMIS:**

Advanced Research and Technology for Embedded Intelligence and Systems

**ARTS (Advanced Road Telematics in the South-west):**

Euro-Regional Project that coordinates regional, national and multi-lateral ITS implementation projects in south west Europe covering the Atlantic corridor, linking parts of Portugal, Spain and France

**ASC:**

Application Submission Contest

**ASECAP (Association Européenne des Concessionnaires d'Autoroutes et d'Ouvrages à Péage):**

European Professional Association of Operators of Tolloed Road Infrastructures

**ASFA:**

Association des Sociétés des Autoroutes Française

**ASIC:**

Application Specific Integrated Circuit

**ASK-IT:**

Ambient intelligence System of agents for Knowledge-based and InTeGrated services for mobility impaired users

**ASN.1 (Abstract Syntax Notation One):**

A formal standardised language for abstractly describing messages to be exchanged among an extensive range of applications

**ASSET:**

Advanced Safety and driver Support for Essential road Transport (EC funded project)

**ASTM International:**

Standardisation organisation, formerly the American Society for Testing and Materials

**ASV:**

Advanced Safety Vehicle

**ATM:**

Active Traffic Management

**ATS:**

Advanced Tracking System

**ATS:**

Abstract Test Suite

**AVC:**

Automated Vehicle Classification

**AVI (Automated Vehicle Identification):**

A system which transmits signals from an on-board tag or transponder to roadside receivers for uses such as electronic toll collection (ETC) and stolen vehicle recovery

**AVL (Automated Vehicle Location):**

Location system, in particular for buses and heavy-goods vehicles, used widely in fleet management utilising technologies such as GSM, GPS and Internet

**BAS (Brake Assist System):**

Safety system amplifying the brake force in case of emergency

**BAST (Bundesanstalt für Strassenvesen):**

German federal highway research institute

**BBFB:**

Black Box Feed Back

**BCS:**

The British Cartographic Society

**Beidu:**

China's satellite navigation system

**BLIS:**

Blind Spot Information System

**BMVBS:**

German Federal Ministry of Transport

**BOC:**

Binary Offset Carrier

**BSI:**

British Standards Institution

**BSS (Björn Steiger Stiftung):**

German non-profit company involved in the development of an eCall-type system for private car manufacturers

**C&C:**

Command and Control

**C2C-CC (Car to Car Communication Consortium):**

An industry consortium, which aims to increase road traffic safety and efficiency by means of inter-vehicle communication and vehicle to roadside communication

**CA (Coordinated Action):**

Instrument within EC 6<sup>th</sup> Framework Programme

**CAA:**

Civil Aviation Authority

**CALM (Communications Architecture for Land Mobiles, also known as Communications Access for Land Mobiles, previously known as Continuous Access, Long and Medium Range):**

Standards for high speed continuous communication link for cooperative ITS, independent of the type of communication media

**CALM (Communications Access for Land Mobiles):**

Group of standards designed to provide a flexible and adaptable networking layer between the provision of a service and the receipt of a service, enabling services to be largely media independent.

**CAN (Controlled Area Network):**

Data bus which enables computerised exchanges in a high bandwidth

**CAP:**

Common Alerting Protocol

**CAPTIVE:**

European project funded by European Commission's DG TREN, concerning cross-border enforcement for enforcement of traffic laws within the EU through non-financial penalties.

**CARS 21:**

Competitive Automotive Regulatory System for the 21st Century

**CASC:**

Chinese Aerospace Science and Technology Corporation

**CBOC:**

Compulsary Binary Offset signal Carrier

**CCC:**

Change Control Committee of the ITS Data registry

**CCG:**

Canadian Coat Guard

**CCS:**

Carbon Capture and Storage technology

**CDMA:**

Code Division Multiple Access

**CEDR:**

Conference of European Directors of Roads

**CEN (Comité Européen de Normalisation):**

European Committee for Standardisation

**CEN TC 278:**

CEN Technical Committee for Road Transport and Traffic Telematics

**CENELEC (Comité Européen de Normalisation Electrotechnique):**

European Committee for Electro-technical Standardisation

**CENTRICO (Central European Region Transport Telematics Implementation):**

Euro-regional project which coordinates implementation plans for traffic management and traveller information services in Belgium, Luxembourg, and parts of France, Germany and The Netherlands.

**CEO:**

Chief Executive Officer

**CEPT:**

European Conference of Postal and Telecommunications

**CERGAL:**

Certification of GNSS Systems and Services

**CERTECS (CERTification of TElematics Components and Services):**

GST sub project

**CERTH:**

Hellenic Institute of Transport

**CESAH:**

Centre for Satellite Navigation Hessen

**CESARE III:**

Interoperability of electronic fee collection systems in Europe

**CfIT:**

Commission for Integrated Transport

**CGSIC:**

Civil GPS Service Interface Committee

**C/HOD Meeting:**

Convenor / Head Of Delegation Meeting

**CIP:**

Competitiveness and Innovation Framework Programme

**CIRCA:**

Communication & Information Resource Centre Administrator

**CIS :**

Commonwealth of Independent States

**CISS:**

Cooperative Intersection Safety System

**CIT:**

Cork Institute of Technologies

**CMPS:**

Civil Monitoring Performance Specification document

**CN (Cellular Networks):**

A radio network made up of a number of "cells", each served by a fixed transmitter, known as a base station

**CNAGA:**

China's National Administration of GNSS and Applications

**CNES (Centre National d'Etudes Spatiales):**

The French space agency

**CNSIS:**

French National Conference of Fire and Emergency Services

**CoASE :**

Cooperative Active Safety and Environment

**COBS:**

Control Office Base System

**CODIA:**

Co-Operative systems Deployment Impact Assessment

**COM2REACT (COoperative CoMmunication System TO Realise Enhanced Safety And EffiCiency in European Road Transport):**

Project funded by the European Commission DG INFSO in the Sixth Framework Programme.

**COMeSafety (Communication for eSafety):**

A project that supports the eSafety Forum with respect to all issues relating to vehicle-to-vehicle and vehicle-to-infrastructure communications as the basis for co-operative intelligent road transport systems

**COMO**

Cooperative Monitoring

**Compass:**

The Chinese global navigation satellite system

**CONNECT:**

Euro-regional project: coordination and stimulation of innovative ITS activities in Central and Eastern European countries is a cooperation between public authorities, road administrations and traffic information service providers. Partners from Austria, Czech Republic, Germany, Hungary, Italy, Poland, Slovakia and Slovenia are working together to improve cross-border traffic and transport through implementing harmonised and synchronised ITS applications on the high level road network in this area.

**COOPERS (Cooperative Systems for Intelligent Road Safety):**

EC project on the development of innovative telematics applications on the road infrastructure with the long term goal of a "Co-operative Traffic Management"

**COPRAS:**

Cooperation Platform for Research and Standards

**CORDIS (Community Research and Development Information Service):**

Web based service providing information on EU-supported Research and Development activities

**CORVETTE (COoRdination and Validation of the dEployment of advances Transport TElematics in the alpine area):**

Euro-regional project that coordinates regional bi-lateral and multi-lateral ITS implementation projects in Austria, Bavaria, northern Italy and Switzerland.

**COST:**

Cooperation in the field of Scientific and Technical Research

**COVER:**

Project developing Semantic driven cooperative vehicle infrastructure systems for advanced eSafety applications – funded by the European Commission DG INFSO in the Sixth Framework Programme

**CP:**

Collaborative Projects

**CRF:**

Centro Ricerche Fiat

**CRS:**

Coordinate Reference System

**CSA:**

Coordination and Support Action

**CSIRO:**

Commonwealth Scientific and Research Organisation

**CSG:**

Guiana Space Centre

**CST:**

Consolidated System Test (for GPS satellites)

**CSWS:**

Curve Speed Warning Systems

**CURAÇÃO:**

Coordination of Road User Charging Organisational Issues project funded by the European Commission in the Sixth Framework Programme

**CTM:**

Cellular Telephone Modem

**CTT:**

Congestion and Travel Time Information

**CVAS:**

Commercial Vehicular Agent System

**CVHS:**

Cooperative Vehicle Highway System

**CVIS (Cooperative Vehicle-Infrastructure Systems):**

A European research and development project aiming to design, develop and test the technologies needed to allow cars to communicate with each other and with the nearby roadside infrastructure.

**D2 Project:**

EC-funded project consortium to update DATEX II from DATEX

**DAB (Digital Audio Broadcasting, also known as Eureka 147):**

Standard which enables the high-quality transmission of text, data and sound at a high data rate. Primarily used for transmission of digital radio stations in Europe, Canada, China, India and Australia, but not USA.

**DARC (Data Radio Channel):**

A digital data transmission method using FM radio that is compatible with RDS and offers a higher bit rate (10 kbits/s)

**DAS:**

Driver Assist Systems

**DATEX (DATa EXchange):**

Series of standards for exchange of traffic and travel information

**DATEX II (DATa EXchange version 2):**

The successor to DATEX for the exchange of traffic information and traffic data in Europe, which has evolved to reflect technological developments

**DATEX-ASN (DATa EXchange ASN):**

Updated standard for data exchange between traffic management centres using the ASN language. ISO 14827:2005

**DATEX-NET (DATa EXchange NETwork):**

Agreement between European traffic management centres to exchange traffic and travel information. ENV 13777:2000, now withdrawn

**DC:**

Directional Control

**DDSC:**

French Interior Ministry's Department of Public Safety

**DEUFRAKO:**

Franco-German cooperation programme for Transport Research

**Dft:**

The UK Department for Transport

**DG:**

European Commission's Directorate-General

**DGAC (Direction Générale de l'Aviation Civile):**

The French Civil Aviation Authority

**DG INFSO:**

Directorate General for INFORMATION SOCIETY and media (within the European Commission)

**DGNSS:**

Differential Global Navigation Satellite System

**DGON:**

German Institute of Navigation

**DG TREN:**

Directorate General for TRANSPORT and ENERGY (within the European Commission)

**DHS:**

Department of Homeland Security

**DIAMANT:**

Dynamic Information and Applications for Mobile safety with Adaptive Networks and Telematic infrastructure

**Digital Broadcast:**

A variety of standards for high-quality data transmission. There is limited support for 2-way communication, rather it is predominantly downlink communication that broadcasts information to multiple vehicles. DAB is the standard for digital audio. DMB and DVB are two competing standards for digital multimedia.

**Digital Tachograph:**

An electronic system fitted to commercial vehicles to record driver information and details about driving time and distance

**DIS:**

Draft International Standard

**DLR :**

Dynamic Location Referencing

**DLR (Deutsches Zentrum für Luft-und raumfahrt):**

The German Aerospace Centre, which is the control centre for Galileo operations

**DMB (Digital Multimedia Broadcasting):**

Standard used for sending multimedia to mobile devices, such as mobile phones. It is an ETSI standard (TS 102 427 and TS 102 428), based on DAB and was developed in South Korea.

**DoD:**

The US Department of Defence

**DoH:**

The UK Department of Health

**DoT:**

The US Department of Transport

**DPE:**

Device Profile Evolution

**DRL:**

Day time Running Lights

**DSRC (Dedicated Short Range Communication):**

Standard enabling data transmission at a frequency of 5.8 GHz. Radio system with focus on short range communication, which is intended for electronic toll collection systems.

**DSSS:**

Driver Safety Support Systems

**DTI:**

Department of Trade and Industry

**Duma:**

Russian Parliament

**DVB (Digital Video Broadcasting):**

European-based consortium standard for the broadcast transmission of digital terrestrial television.

**DVB-H (Digital Video Broadcast, Handheld):**

A standard for temporally-compressed distribution of video to mobile devices, published in November 2004

**DVB-T (Digital Video Broadcast, Terrestrial):**

European-based consortium standard for the broadcast transmission of digital terrestrial television. Generally a 1-way communication system, however a number of return channels have been standardised to create 2-way communication.

**E3CAR (Energy Efficient Electric Car):**

EC funded project

**EASYWAY:**

A project for Europe-wide ITS deployment on the main corridors of the trans-European Road Network; funded from 2007 to 2013 by the EC and Member States.

**EASYWAY SERTI:**

see "SERTI"

**EASYWAY STREETWISE:**

see "STREETWISE"

**EBR:**

Emergency Braking

**EBU:**

European Broadcasting Union

**EC:**

European Commission

**ECA:**

Error Characterisation Approach

**ECall (Emergency Call):**

European in-vehicle Emergency call service that automatically contacts emergency services if the vehicle is involved in an accident. For vehicles under development in Europe, promoted by the European Commission.

**ECDIS:**

Electronic Chart Display and Information System

**EC ITS Action Plan:**

An action plan proposed by the EC in December 2008, which suggests a number of targeted measures and a proposal for a Directive laying down the framework for the implementation of ITS in road transport.

**ECG:**

Electrocardiogram

**ECMT:**

European Conference of Ministers for Transport

**ECMTT:**

European Congestion Management Think Tank

**ECTRI:**

European Conference of Transport Research Institutes

**EDI (Electronic Data Interchange):**

A standard form of electronic communication used mainly for electronic commerce and document interchange

**EDPS:**

European Data Protection Supervisor

**EDR:**

Event Data Recorders

**EeIP:**

European eCall Implementation Platform

**EENA:**

European Emergency Number Association

**EETS:**

European Electronic Toll Service. Currently under development.

**EE-VERT (Energy Efficient Vehicles for Road Transport):**

EC-funded project

**EFC (Electronic Fee Collection):**

A system that enables automatic debiting/payment for a transport service without any action from the user at the moment of use - example: automatic toll collection

**E-FRAME (Extend FRAMEwork architecture for cooperative systems):**

Extension to the "FRAME" Project

**EFTA:**

European Free Trade Association

**EFTF:**

European Frequency and Time Forum

**E-GGTO:**

Experimental Galileo-GPS Time Offset

**EGNOS (European Geostationary Navigation Overlay Service):**

A positioning system designed to augment satellite navigation systems and which will ultimately form part of the Galileo satellite navigation system; typically used for air applications

**EIA:**

European Intermodal Association

**EIB:**

European Investment Bank

**eIMPACT:**

European Project assessing the impacts of intelligent vehicle safety systems

**eLORAN (Enhanced Long Range Aid to Navigation):**

Terrestrial radionavigation system

**EMA:**

Emergency Management Australia

**EMDA:**

East Midlands Development Agency

**EMEA UC:**

European, Middle East and Africa User Conference

**eMOTION:**

European Navigation Conferenc

**ENC:**

Europe-wide multi-Modal On-trip Traffic informatiON

**ENC GNSS:**

European Navigation Conference on GNSS

**END:**

European Noise Directive

**EOBU (European ON Board Unit):**

In-vehicle equipment for operation with the EETS

**EOIG:**

EGNOS Operators and Infrastructure Group

**EPL/278:**

The British Standards Institute Committee which mirrors the work of CEN TC278 and ISO TC204 developing ITS standards

**EPoSS:**

European Technology Platform on Smart Systems

**EPP:**

European People's Party

**ERA:**

European Research Area

**ERC:**

European Research Council

**ERF:**

European union Road Federation

**ERI:**

Electronic Registration Identification

**ERIC:**

European Road Information Centre

**ERP:**

Electronic Road Pricing

**ERT:**

Electronic Registration Tag

**ERTICO:**

A multi-sector, public/private partnership created to develop and deploy ITS

**ERTMS:**

European Rail Traffic Management Systems

**ERTRAC:**

European Road Transport Research Advisory Council

**ESA:**

European Space Agency

**eSafety:**

A joint initiative of the EC, industry and other stakeholders, which aims to accelerate the development, deployment and use of Intelligent Vehicle Safety Systems that use information & communication technologies to increase road safety and reduce the number of accidents on Europe's roads.

**eSafety Forum:**

A joint platform involving all road safety stakeholders, which promotes and monitors the implementation of the recommendations identified by the eSafety Working Group

**ESC:**

Electronic Stability Control

**eSecurity:**

A platform for European stakeholders with an interest in ITS security to

discuss the vulnerability aspects of the communication infrastructure required by ITS.

**ESF GmbH (Elektrische Signalverarbeitung Dr.Fischer GmbH):**  
German consultancy for communication and radar technologies for ITS

**ESNC:**  
European Satellite Navigation Competition

**ESNIS:**  
European Satellite Navigation Industries

**ESO:**  
European Standards Organisations

**EsoP:**  
European Statement of principles on Human Machine Interaction

**ESP (Electronic Stability Program):**  
Safety function linked to brake sensors and traction control which enables cars to correct their trajectory on slippery roads and curves

**ESSP**  
EGNOS Service Provider

**ESSP**  
European Satellite Services Provider

**ESTB:**  
EGNOS Test Bed

**ESTEC:**  
European Space Research and Technology Centre

**ESV:**  
Emergency Services Vehicles or Enhanced Safety of Vehicles

**ETC:**  
Electronic Toll Collection

**ETNITE:**  
European Network on ITS Training and Education

**ETPs:**  
European Technology Platforms

**ETRAC:**  
European road Transport Research Advisory Council

**ETS:**  
Emissions Trading Scheme

**ETSC:**  
European Transport Safety Council

**ETSI:**  
European Telecommunications Standards Institute

**ETSI ERM:**  
Committee for Electromagnetic compatibility and Radio spectrum Matters

**ETSI-MSG:**

European Telecommunications Standards Institute, Mobile Standards Group

**ETSI TC ITS:**

The ETSTI Technical Committee for Intelligent Transport Systems

**ETTM:**

Electronic Toll and Traffic Management

**EU:**

European Union

**EU 15:**

The 15 Member States of the European Union prior to enlargement in 2004

**EU 25:**

The 25 Member States of the European Union prior to enlargement in 2007 (not including Bulgaria and Romania)

**EUGIN:**

European Group of Institutes of Navigation

**EUPOS:**

European Position Determination System

**EUREF:**

European Reference Frame

**EuroFOT:**

European Field Operational Test

**Euro NCAP:**

European New car Assessment Programme

**European 5.9 GHz ITS:**

A European radio system based on the WLAN IEEE 802.11p standard, but with focus on low delay ad-hoc data communication between vehicle stations and between vehicle and roadside stations. Used for traffic safety applications and inter-vehicle communications

**EuroRoadS:**

European Road data Solution

**Eurostat:**

Directorate-General of the European Commission responsible for providing the European Union with statistical information at European level and promoting the harmonisation of statistical methods across the Member States of the European Union, candidate countries and EFTA countries.

**EuroScout:**

Traffic Management tool

**EuroTAP:**

European Tunnel Assessment Programme

**EUROTEST:**

EUROpean Mobility TESTing Programme

**EVA:**

Electric Vehicles for Advanced cities

**EVI:**

Electronic Vehicle Identification

**EWSP:**

European Wide Service Platform

**ExComm:**

Executive Committee, responsible for overall control of the ITS registry

**FAA:**

Federal Aviation Administration (in US)

**FACITS (Framework Architecture and Classification for Intelligent Transport Systems):**

Project by innovITS with the aim of developing a common ITS risk assessment procedure, and exploring the sharing of components between different ITS applications and functions.

**FCD (Floating Car Data):**

Floating car data are gathered from vehicles equipped with appropriate sensors (such as whether windscreen wipers are activated or the vehicle's location and speed) and then passed to traffic management centres that can evaluate this information for monitoring general traffic trends (also known as Floating Vehicle Data)

**FCW:**

Forward Collision Warning

**FDF:**

Flight Dynamics Facility

**FDIS:**

Final Draft International Standard

**FEA:**

Fuel Efficiency Advisor

**FeedMAP:**

Project studying the commercial and technical feasibility of map deviation feedback

**FEHRL:**

Forum of European national Highway Research Laboratories

**FESTA:**

Field operational teSt support Action

**FEV:**

Fully Electric Vehicle

**FFAC:**

French Federation of Automobile Clubs

**FIA:**

International Federation of the Automobile

**FOAM:**

Framework for Open Application Management

**FOC:**

Full Operational Capability

**FOIA:**

The Freedom of Information Act

**FOT:**

Field Operational Tests

**FOT-Net:**

Field Operating Test Networking Platform

**FP6 (Sixth Framework Programme):**

EC-funded R & D Programme

**FP7 (Seventh Framework Programme):**

EC-funded R & D Programme, starting in 2007

**FRAME:**

European project which developed a European ITS Framework Architecture

**FRAME Forum:**

European ITS FRAMEwork Architecture Forum

**FREILOT:**

Project to improve energy efficiency of urban freight transport

**FVD (Floating Vehicle Data):**

Floating vehicle data are gathered from vehicles equipped with appropriate sensors (such as whether windscreen wipers are activated or the vehicle's location and speed) and then passed to traffic management centres that can evaluate this information for monitoring general traffic trends (also known as Floating Car data)

**GAARDIAN:**

GNSS Availability, Accuracy, Reliability and Integrity Assessment for timing and Navigation project in the UK

**GAGAN:**

GPS Aided Geo Augmented Navigation System (India)

**Galileo:**

The European contribution to the Global Navigation Satellite System; full operational capability originally planned for 2008

**GAO:**

The US Government Accountability Office

**GATE:**

Galileo Test and Development Environment

**GATS (Global Automotive Telematics Standard):**

Open standard to enable a full range of traffic information and other telematics services

**GAUSS:**

GNSS Applications and Users on the domain of Safety and Security

**GAWAIN:**

An EU project integrating GPS and Galileo on a single receiver

**GCC:**

Galileo Control Centre

**GDP:**

Gross Domestic Product (a measure of a country's economy)

**GDSI:**

Global Spatial Data Infrastructure Association

**GEM:**

Project ensuring that Galileo will be viable and widely used

**GENIVI Alliance:**

California-based alliance, which is pursuing the broad adoption of an IVI reference platform

**GEO:**

GEostationary Orbit

**Geonet Project:**

A European project to implement a reference specification of a geographic addressing and routing protocol with support for IPv6 to be used to deliver safety messages between cars but also between cars and the roadside infrastructure within a designated destination area

**GHG:**

Green House Gasses

**GHz:**

Gigahertz (units of frequency)

**GINA:**

GNSS for INnovative road Applications

**GINs:**

Global Indian Navigation System

**GIOVE (Galileo In-Orbit Validation Element):**

The original name for the first two test satellites of the Galileo constellation (GIOVE-A and GIOVE-B).

**GIROADS (GNSS Introduction in the ROAD Sector):**

EC-funded project facilitating technical and commercial introduction of Europe's satellite navigation programme in the road sector

**GIS (Geographic Information Systems):**

Data management system designed to collect, analyse and report geographic and demographic information

**GJU (Galileo Joint Undertaking):**

Organisation set up by the EC and ESA to manage the development phase of the Galileo Programme

**GLAs:**

General Lighthouse Authorities

**GLONASS:**

Russian satellite positioning system

**GLONASS-K:**

Third Generation GLONASS satellites, expected to be lighter and have

longer life span than 2nd generation. Will be able to transmit on L-band frequencies

**GLONASS-M:**

Modernised Russian satellite positioning system, second generation of GLONASS satellites

**GMAR:**

GNSS Metering Association for Road User Charging

**GMES:**

Global Monitoring on Environment and Security

**GML (Geography Mark-up Language):**

A spatially enabled dialect of XML schema. It was developed by the Open GIS Consortium (OGC), a global organisation of developers and users that aims to maximise the benefit of geographic information. GML can be considered as a worldwide standard language for the production and distribution of geographic data.

**GMS:**

Galileo Mission Segment

**GNSS (Global Navigation Satellite System):**

The combined total of all satellite navigation and positioning systems operating around the world and offering signal reception worldwide

**GPAF:**

GMAR Performance Analysis Framework

**GPC:**

Giove Processing Centre

**GPM:**

Global Permission Management

**GPRS (General Packet Radio Service):**

Digital cellular telephony system, "packet-switched", designed for data communications. Standard for data transmission by packet, with a speed of 64 Kbits/s

**GPS (Global Positioning System):**

US satellite positioning system used to pinpoint geographic locations worldwide

**GPS IIF:**

Follow on block II GPS satellites, last block II satellites to be deployed before the introduction of next generation GPS satellites - GPSIII

**GPS II R(M):**

Modernised block II R GPS satellites, developed by Lockheed Martin

**GPS III:**

The next generations of GPS satellites

**GPSOC:**

GPS Operations Centre

**GRACE:**

GNSS Research and Application Centre of Excellence

**GREAT (Galileo: Research on Effects And impacts on road Transport):**

An EC-funded Galileo project.

**GRID:**

Emerging computer model enabling higher throughput computing

**GSA:**

Galileo Services Association or Galileo Supervisory Authority or European GNSS Supervisory Authority

**G-Sat-4:**

Technology demonstration communications satellite for GAGAN

**GSDI:**

Global Spatial Data Infrastructure Association

**GSM (Global System for Mobile Communications):**

Digital cellular telephony system, "circuit-switched", designed for voice applications. Used in ITS services such as traffic information, emergency call and fleet management

**GSMA:**

Global System for Mobile communication Association - The body representing the worldwide mobile communication industry

**GSMC:**

Galileo Security Monitoring Centre

**GSM.UMTS:**

Global system of Mobile Communications Universal Mobile Telecommunications System

**GST (Global Systems for Telematics):**

EC-funded project in the Sixth Framework Programme

**H.264:**

(MPEG-4 part 10) The latest generation of 'MPEG' (Moving Picture Experts Group) standards for real-time video compression and streaming

**HALOGEN:**

A database which provides storage for NMCS2 logs

**HANDGPS:**

High Accuracy-Nationwide Differential Global Positioning System – NDGPS system in development that will be able to provide positioning data accurate to within 10 cm within the coverage area.

**Handelsblatt:**

A leading German commercial economy newspaper

**HAPMS:**

Highways Agency Pavement Management System

**HARMLESS:**

EC 6th Framework Project 'Humanitarian aid, emergency management and law enforcement support applications'

**HASTE:**

HMI And the Safety of Traffic in Europe project

**HATMS:**

Highways Agency Traffic Management System

**HBIC:**

Hertfordshire Business Incubation Centre

**HGT:**

Heavy Goods Transport

**HGV:**

Heavy Goods Vehicle

**HIGPS:**

High-Integrity Global Positioning System

**HMI (Human Machine Interface):**

Previously known as man-machine interface (MMI); means by which a user interacts with a machine and includes simple and advanced functions such as voice recognition, speech synthesis and touch screens

**HMW:**

Headway Monitoring and Warning

**HSGNSS:**

High sensitivity GNSS receivers

**HSPA (High Speed Package Access):**

Used in 3<sup>rd</sup> Generation Mobile Phones

**HSSG:**

Higher Speed Study Group

**HUMANIST:**

HUMAN centred design for Information Society Technologies applied to road transport

**I2020:**

European Information Society 2010 for growth and employment

**I2V:**

Infrastructure-to-Vehicle Communications

**IAT:**

The Independent Assessment Team (US)

**IBEC:**

The International Benefits, Evaluation and Costs cooperative working group

**IBR:**

Integrated Baseline Review

**ICD:**

Interface Control Document

**ICG:**

International Committee on GNSS

**ICO:**

Information Commissioner's Office

**ICPC:**

International Cooperation Partner Countries

**ICT:**

Information and Communications Technologies

**ICTSB (ICT Standards Board):**

A joint initiative of CEN, CENELEC and ETSI to co-ordinate specification activities in the field of ICT.

**IDM:**

Interference Detection and Mitigation

**IEEE:**

Institute of Electrical and Electronic Engineers

**IEEE 802.11p:**

(IEEE 802.11 Task Group p): Standard to define enhancements to wireless LAN standard, 802.11, required to support Intelligent Transportation Systems (ITS) applications

**IESSG:**

Institute of Engineering Surveying and Space Geodesy

**IET:**

Institution of Engineering and Technology

**IETF (Internet Engineering Task Force):**

A large open international community for development of the Internet

**IFA (Internationale FunkAusstellung):**

German consumer electronics trade show

**IGS:**

International GNSS Service

**IGSO:**

Inclined GeoSynchronous Orbit

**IHT:**

Institution of Highways and Transportation

**IIN:**

Italian Institute of Navigation

**IIWG**

Intelligent Infrastructure Working Group

**ILA:**

International Loran Association

**ILS:**

Instrument Landing System

**IMA (Inter Mutelles Assistance):**

PSA Peugeot Citroen emergency hotline

**IMS:**

Instructional Management System

**IMS (IP Multimedia Subsystem):**

Standard defining the network domain for controlling and integrating multimedia services

**INFO:**

Information Society

**InnovITS:**

UK centre for Excellence for Intelligent Transport Systems and Services, funded by BERR.

**InnovITS ADVANCE:**

ITS Test Research and development centre to be developed in UK

**INSAFES:**

PREVENT subproject dealing with integration

**IN-Safety:**

Infrastructure and Safety

**INSPIRE (INfrastructure for SPatial InfoRmation in the European community):**

EC Directive concerning the sharing and harmonisation of spatial datasets across Europe

**IntelliDrive:**

US DOT initiative that describes itself as "A suite of technologies and applications that use wireless communications to provide connectivity that can deliver transformational safety, mobility, and environmental improvements in surface transportation". Formerly known as Vehicle-Infrastructure Integration (VII).

**Intermodality:**

The ability to move between two or more modes of transport

**INTERSAFE2:**

Project funded by EC under the 7th Framework Programme, aims to develop and demonstrate a Cooperative Intersection Safety System that is able to significantly reduce injury and fatal accidents at intersections

**INTRO:**

INTelligent ROads project funded by the European Commission with the objective to develop innovative methods to increase the capacity of existing and new transport infrastructure by maximising the safety and well being of drivers, passengers, crew and pedestrians.

**ION**

Institute of Navigation

**IOPTA**

InterOperable Public Transport Architecture

**IOT**

In Orbit Test

**IOV (In-orbit Validation):**

Test phase of the Galileo constellation with two satellites in orbit.

**IP:**

Large Scale Integrated Project (European Research)

**IP:**

Internet Protocol

**IPv6:**

Internet Protocol version 6

**IPF:**

Integrity Processing Facility

**IPR:**

Intellectual Property Rights

**IR:**

Infrared

**IR (Implementing Rules):**

Intermediate steps in the INSPIRE Directive

**IRF:**

The International Road Federation

**IRNSS:**

The Indian Regional Navigational Satellite System

**IRS:**

Intelligent Road Studs

**IRSA:**

Integrated Full Range Speed Assistant

**IS-GPS-200:**

The GPS interface standard

**ISA (Intelligent Speed Adaptation):**

Systems designed to alert drivers when they exceed the speed limit or are travelling dangerously slow, with some systems also offering dynamic correction capabilities

**ISHTAR:**

A project in the EC Sixth Framework Programme funded through DG INFSO in the IST (Information Society Technologies) programme. The acronym for the project reflects the IST programme and the objective to contribute towards the Harmonisation of Technologies, services/Applications, and standardisation efforts in the field of Location Based Services (LBS).

**ISO:**

International Organisation for Standardisation

**ISO PC 241:**

ISO Project Committee for Road-Traffic Safety Management System

**ISO TC 204:**

ISO Technical Committee for Intelligent Transport Systems

**IST (Information Society Technologies):**

European Commission programme

**ISTTT:**

International Symposium on Transportation and Traffic Theory

**IT:**

Information Technology

**ITE:**

Institute of Systems Optimisation of the University of Karlsruhe, Germany

**ITHACA:**

Euro-regional project proposed in Greece and Italy

**IT IS (IT IS Holdings plc):**

Provider of traffic information in the UK

**i-Travel**

A personal travel assistant service

**ITS (Intelligent Transport Systems):**

(Intelligent Transport Systems): "The integration of information and communications technology with transport infrastructure, vehicles and users" [ERTICO]; "The application of information technology, communications technology, and sensor technology, including the internet (both wired and wireless), to the general challenges and opportunities of surface transportation" [ISO TC 204]

**ITSC:**

The China National Intelligent Transport Systems Centre of Engineering and Technology

**ITS-EduNet:**

The Educational Network of Intelligent Transport Systems

**ITS Registry:**

A repository of data definitions and data models for use by the Highways Agency data, with an associated supporting process for improving quality and for harmonisation across different systems

**ITSSG (ITS Steering Group):**

A working group of the ICTSB focusing on ITS standards.

**ITSO:**

Integrated Transport Smartcard Organisation

**ITSS:**

Intelligent Transport Systems and Services

**ITST:**

ITS Telecommunications

**ITU:**

International Telecommunications Union

**ITU-R:**

International Telecommunication Union – Radio communication Sector

**ITU-T:**

International Telecommunication Union - Telecommunication Standardization

**IVC:**

Inter-Vehicle Communications

**IVI:**

In-Vehicle Infotainment

**IVIS:**

In-Vehicle Information Systems

**IVR:**

Interactive Voice Response

**IVS:**

In-Vehicle System

**IVSS:**

Intelligent Vehicle Safety Systems

**IVSS SOLVI:**

Intelligent Vehicle Safety Systems Safe Operation for Large Vehicles Initiative

**IW:**

Impairment Warning

**i-way:**

Project on intelligent cooperative systems in cars for road safety funded by the European Commission DG INFSO in the Sixth Framework Programme.

**JAXA:**

Japan Aerospace eXploration Agency

**JRC:**

Joint Research Centres

**KSI:**

Killed and Seriously Injured

**KTN:**

Knowledge Transfer Network

**L2c:**

The second GPS civilian Frequency

**L5:**

A new GPS civilian Frequency

**LAAS:**

Local Area Augmentation System is an all-weather aircraft landing system based on real-time differential correction of the GPS signal

**LABEL:**

EC funded project assessing the quality of service areas for heavy goods vehicles

**LAVIA (Limiteur s'Adaptant à la Vitesse Autorisée):**

Adaptive Speed Control Project

**LAN:**

Local Area Networks

**LBS (Location-Based Services):**

Services that depend on knowing the user's location to deliver user-

specific information, such as real-time traffic updates or point-of-interest data

**LCDAS:**

Lane Change Decision Aid Systems

**LDW:**

Lane Departure Warning

**LDWA:**

Lane Departure Warning Assist

**LED:**

Light Emitting Diode

**LIDAR:**

LIght Detecting And Ranging – an optical remote sensing technology which measures the properties of scattered light to measure the range and other information for a distant object

**LKAS:**

Lane Keeping Assist Systems

**LMOs:**

Legally Mandated Organisations

**Location referencing:**

The task of ensuring compatible referencing of locations when information is exchanged between different applications or systems with different geographic databases

**LORAN:**

LONg Range Aid to Navigation

**LORAN-C:**

The latest iteration of LONg Range Aid to Navigation prior to the introduction of eLoran

**LR (Location Referencing):**

The task of ensuring compatible referencing of locations when information is exchanged between different applications or systems with different geographic databases

**LRPS:**

Location Referencing Points

**LRUC:**

Lorry Road User Charging

**LTCC:**

Location Table Country Code

**LTE:**

Long Term Evolution

**MAC:**

Medium Access Control

**MAGIC (Mobile Automotive Geographic Information Core):**

An industry consortium established to develop and promote an open

industry specification for delivering navigation, telematics and related geographic information services across multiple networks, platforms, and devices

**MAN:**

Metropolitan Area Networks

**MAPS&ADAS:**

IP PReVENT subproject to develop and validate a standardised model and interface between ADAS applications and in-vehicle map database

**MBOC:**

Multiplex Binary Offset Carrier

**M-Code:**

GPS military signal

**MCS:**

Master Control Station

**MDA:**

Mobile Data Association

**MEEDAD:**

French Road Safety Directorate

**MEF:**

The Metropolitan Ethernet Forum

**MENTORE:**

iMplemENtaion of GNSS tracking and tracing Technologies fOR Eu regulated domains

**MEO:**

Medium Earth Orbit

**MEP:**

Member of the European Parliament

**Mesh networks:**

Many Wi-Fi hot spots each covering a few hundred metres

**MESA:**

Mobility for Emergency and Safety Applications

**MIP (Multi-annual Indicative Programme):**

EC funding programme

**MISTER:**

Project to develop standardisation of applications using GNSS and GPRS technologies

**MMW:**

Millimetre Wave

**MNE:**

Mission Data Dissemination Network

**MOLA:**

Motorway On Line Assistant

**MOST:**

Media-Oriented System Transport

**MOST Cooperation:**

Cooperation between car manufacturers and Original Equipment Manufacture (OEM) suppliers to develop a low cost, high bandwidth solution for data and multimedia in-vehicle applications

**MoU:**

Memorandum of Understanding

**MOVA (Microprocessor Optimised Vehicle Actuation):**

System for controlling signals at traffic lights

**MRA**

Measurement Rejection Approach

**MRS**

Multi-Constellation Regional System

**MSAS:**

MTSAT Satellite-based Augmentation System

**MSD:**

Minimum Set of Data

**MSG:**

Mobile Standards Group

**MTSAT:**

Japan's Multi-functional Transport Satellite

**MoU:**

Memorandum of Understanding

**NANU:**

Notice Advisory to Navstar Users

**NASSMOLA:**

Network ATM Supervisory Subsystem Motorway On Line Assistant

**NAVCEN:**

U.S. Coast Guard's Navigation Centre

**NCP:**

National Contact Point

**NDGPS:**

Nationwide Differential Global Positioning System. The U.S. Department of Transportation DGNSS

**NEARCTIS:**

Network of Excellence for Advanced Road Cooperative Traffic management in the Information Society (EC funded project)

**NECTAR:**

Network on European Communications and Transport Activity Research

**NFC:**

Near Field Communication

**NGN:**

Next Generation Networks

**NGTP:**

Next Generation Telematics Protocol

**NHAI:**

National Highways Authority of India

**NOAA:**

The US Department of Commerce National Oceanic and Atmospheric Administration

**NoE:**

Network of Excellence

**Nomadic device:**

Portable device which can be used in-vehicle or elsewhere, or moved from one vehicle to another

**NPL:**

The National Physical Laboratory (UK)

**NPRA:**

Norwegian Public Roads Administration

**NMCS2:**

National Motorway Communication System, version 2

**NTCC:**

National Traffic Control Centre

**NTCIP:**

National Transportation Communications for ITS Protocol

**NTIA/OSA:**

National Telecommunications and Information Administration, Office of Spectrum Allocation (USA)

**OASIS:**

Organization for the Advancement of Structured Information Standards

**OBE:**

On-board equipment

**OBU:**

On-Board Unit

**OCR:**

Optical Character Recognition

**OCX:**

The next generation GPS ground control system (for GPS III)

**ODP:**

Open Distributed Process

**ODTS:**

Orbit Determination and Time Synchronisation

**OECD:**

Organisation for Economic Co-operation and Development

**OEM:**

Original Equipment Manufacturer

**OGF:**

Open Grid Forum

**OMA:**

Open Mobile Allowance

**OpenLR:**

An open-source, royalty-free dynamic location referencing method launched by TomTom

**ORT:**

Open Road Tolling

**OS:**

Ordnance Survey

**OS Net:**

A national GPS correction network provided by OS

**OSPF:**

Orbit Synchronisation Processing Facility

**OS SIS ICD:**

Open Service Signal-in-Space Interface Control Document

**OTAP:**

Open Travel data Access Protocol

**PANDA:**

Initial letters of the companies in Finland involved in the project for GPS-based insurance data: Pohjola Insurance, Aplicom, Nokia, Destia, and Astarte

**PC:**

Personal Computer

**PC:**

Public Committee

**PDA (Personal Digital Assistant):**

Small, hand-held devices offering functions similar to a personal computer (though limited); also now offering access to some ITS services

**PDR:**

Preliminary Design Review

**PHM:**

Passive Hydrogen Maser

**PHY:**

Physical Layer

**PICC:**

Programme Identification Code: Unique identification code for each FM radio station. PI Codes are used by RDS for auto-tuning to the same station when the car moves between different transmitter areas

**PIARC:**

The World Road Association

**PIM:**

Platform Independent Model

**PIM:**

Partnerprogramma Infrastructuur Management

**PKI:**

Parking Information

**PLMNs:**

public land mobile networks

**PNT:**

[GNSS] Position, Navigation and Timing services

**POI:**

Point of Interest

**PPP:**

Public-Private Partnership

**PREDIT:**

French National programme for Research and Development in Transport

**Predrive C2X (PREparation for driving implementation and evaluation of Car 2 X communication technology):**

European project (07/2008 to 06/2010) to prepare a large scale field trial for vehicular communication technology. Based on the European COMeSafety architecture for a vehicle-to-x communication system, the project develops a detailed specification for such a system and a functionally verified prototype. The prototype will be robust enough to be used in future field operational tests.

**PRESTO:**

ISO 22951:2009, data dictionary and message sets for PREemption and prioritization Signal systems for emergency and public TranspOrt vehicles

**PreVAL:**

PREVENT subproject developing harmonised evaluation framework for preventive safety applications

**PreVENT:**

PreVENTive and active safety applications

**PRN:**

Pseudo Random Noise (The method used for distinguishing different GPS signals)

**Project MESA:**

An international standardisation forum for the development of broadband wireless communications for use in incident management and disaster response

**PROMETHEUS (Programme for European Traffic with Highest Efficiency and Unprecedented Safety):**

A pan-European initiative launched in 1986 which was aimed at improving the competitive strength of Europe by stimulating development in such

areas as information technology, telecommunications, robotics, and transport technology. The initiative was led by European motor manufacturers, public authorities and research institutions.

**PROMIT:**

Promoting Intermodal Freight Transport organisation

**PRN (Pseudo Random Noise Code):**

Broadcast by GPS satellites to allow GPS receivers to know which satellite a signal originates from

**PRS (Public Regulated Service):**

One of the 5 identified services to be provided by the Galileo Satellite Navigation System

**PSAP:**

Public Safety Answering Point or Public Service Access Point

**PSM:**

Platform Specific Model

**PSTN:**

Public Switched Telephone Networks

**PTI:**

Public Transport Information

**PVT:**

Position, Velocity and Time

**QZSS:**

Quasi-Zenith Satellite System

**R&D:**

Research and Development

**RAMM (Receiver Autonomous Multipath Mitigation):**

A technique used to alleviate some of the problems associated with multipath in GNSS systems

**RANNIS:**

The Icelandic Centre for Research

**RC1:**

Release Candidate 1

**RCC:**

Regional Control Centre

**RCI (Road Charging Interoperability):**

Project funded by the European Commission to develop an open, integrated framework enabling road charging interoperability at a technical level based on key existing and planned road charging schemes in Europe

**R&D:**

Research & Development

**RDS (Radio Data System):**

Digital channel transmitted within the FM radio wavelength used to relay traffic messages

**RDS-TMC:**

Radio Data Systems incorporating a Traffic Message Channel

**RDW:**

The Dutch vehicle registration and license centre

**RDWS:**

Road Departure Warning Systems

**RE:**

Research Establishment

**REACT:**

Realising enhanced safety and efficiency in European road transport

**RESPONSE:**

Research and Development project funded partly by the European Commission – a series of 3 projects leading to the development of a Code of Practice for the European motor vehicle industry for developing and testing Advanced Driver Assistance Systems, published in 2006.

**RF:**

Radio Frequency

**RFID:**

Radio Frequency Identification Devices

**RID-ADR:**

European Regulations for road and rail dangerous goods transportation

**RIN:**

The Royal institute of Navigation

**RITA (Research and Innovative Technology Administration):**

The research wing of the US Department of Transportation

**Road pricing:**

Use of smart card technology or simple tags to charge road users based on criteria such as demand, congestion, time, or distance

**ROM:**

Read Only Memory

**ROMANSE:**

Road MANagement System for Europe

**ROSATTE (ROad Safety ATtributes exchange infrastructure in Europe):**

EU-funded project (01/2008 to 06/2010) to establish an efficient and quality ensured data supply chain from public authorities to commercial map providers with regards to safety related road content

**Roskosmos**

The Russian federal space agency

**RSAP:**

Road Safety Action Programme

**RSC:**

Radio Spectrum Committee

**RSC:**

Reusable Software Component

**RTD:**

Research and Technological Development

**RTI:**

Real Time Information

**RTIG:**

Real Time Information Group

**RTK (Real Time Kinematic):**

A GPS positioning technique capable of accuracies to millimetres

**RTM:**

Road Traffic Message

**RTOS:**

Real Time Operating System

**RTTI:**

Real Time Traffic and Traveller Information

**RTTT:**

Road Transport and Traffic Telematics

**RUC:**

Road User Charging

**RVC:**

Roadside to Vehicle Communications

**SA:**

Selective Availability

**SA:**

Support Action

**SAE International (formerly the Society of Automotive Engineers):**

American standardisation body

**SafeHMI:**

Safe Human Machine Interaction

**SAFELANE:**

Project developing a lane keeping support system

**SafeSpot:**

FP6 Project identifying how intelligent vehicles and intelligent roads can cooperate to produce a breakthrough for road safety.

**SafetyNET:**

Project harmonising accident reporting throughout Europe

**SAML:**

Security Assertions Markup Language

**SARTRE:**

Safe Road Trains for the Environment

**SAS (Société par Actions simplifiée):**

French equivalent of a limited company

**SatNEx:**

Satellite Communications Network of Excellence

**SBAS:**

GLONASS Space Based Augmentation System

**SC:**

Steering Committee

**SCCF:**

Satellite Constellation Control Facility

**SCOOT:**

Traffic adaptive signal control system

**SCORE (Service of Coordinated Operational Emergency & Rescue using EGNOS):**

EC-funded project to develop and test a satellite based system for locating emergency service calls and co-ordinating rescue services

**SDB:**

Satellite Data Broadcasting

**SDCM:**

SBAS System of Differential Correction and Monitoring covering the Russian Federation

**SDEP:**

Street events Data Exchange Protocol is for exchanging streetworks and street events data between systems

**SDF:**

Sensor Data Fusion

**SDI:**

Spatial Data Infrastructure

**SDIC:**

Spatial Data Interest Community

**SDO:**

Standards Development Organisation

**SDR:**

System Design Review

**SE:**

Scottish Executive

**SEIG:**

Smart Environment Interest Group

**SERTI (Southern European Road Telematics Implementation):**

A Euro-regional project that coordinates the implementation of traffic management and traveller information services in adjacent parts of southern France, Spain, western Germany and northern Italy

**SeVeCom:**

Secure Vehicular Communication - an EU-funded project that focuses on providing a full definition and implementation of security requirements for vehicular communications.

**SHAFT:**

Austrian project: Standardised Hazardous goods transport Alerting Field Trial

**SICA:**

Specific International Cooperation Actions

**SIG:**

Special Interest Group

**SIL:**

Safety Integrity Level

**SIM card:**

Subscriber Identity Module

**SIMBA**

Project strengthening road transport research cooperation between Europe and emerging markets

**SINTEF:**

Foundation for Scientific and Industrial Research at the Norwegian Institute of Technology

**SIRGAS:**

Sistema de Referencia Geocéntrico para las Américas

**SIRI:**

Service Interface for Real-time Information, a CEN XML standard allowing distributed computers to exchange real-time information about public transport vehicles and services.

**SIS:**

Signal In Space

**SIS:**

Swedish Standards Institute

**SISS (Salone Internazionale della Sicurezza Stradale):**

Italian International Road Safety Exhibition

**SISTER:**

Satcoms In Support of Transport on European Roads

**SL:**

Speed Limiter

**SLR:**

Satellite Laser Ranging

**Smart Systems:**

System that automatically adjust or adapts its behaviour in response to external stimuli

**SME:**

Small to Medium Enterprise

**SMS:**

Short Message Service

**SNI:**

Service and Network Information

**SOA:**

Service-Oriented Architecture

**SoC:**

System on Chip

**SoL:**

Safety of Life

**SONET:**

Synchronous optical networking

**SOSoRNET:**

Service-Orientated Software Research Network

**SPECS 3™:**

Third generation of average speed cameras

**SPF:**

Service Products Facility

**SPS:**

Signalling, Protocols and Switching

**SRA:**

Swedish Road Administration

**SSA (Specific Support Action):**

Instrument within EC 6<sup>th</sup> Framework Programme

**SSF:**

Syntax, Semantics and Framing Structure

**SSG (Service Specification Group):**

Sub-group of Project MESA that focuses on service requirements

**SSTL:**

Surrey Space Technology Ltd.

**STREETWISE (Seamless Travel Environment for Efficient Transport in the Western ISles of Europe):**

Project that coordinates the implementation of traffic management and traveller information services in England, Wales, Scotland, Northern Ireland and the Republic of Ireland Euro-regional project; within EasyWay

**STREP (Specific Targeted Research Project):**

Small or medium scale focused research action, instrument within EC 7<sup>th</sup> Framework Programme

**SUMMITS:**

Sustainable Mobility Methodologies for Intelligent Transport Systems

**SV1/SV2:**

Space Vehicle 1 and 2 (first of the GPS IIF satellites)

**T1:**

a T-carrier signalling scheme

**T&E:**

European Federation for Transport and Environment Pressure Group

**TAIEX:**

The instrument for Technical Cooperation and Information Exchange of the European Commission

**TC:**

Technical Committee

**TCC:**

Traffic Control Centre

**TCP:**

Telematics Controlled Parking

**TDM:**

Travel Demand Management

**TDP:**

Time, Distance, Place

**TEC:**

Traffic Event Compact

**Telematics:**

Combination of telecommunications and informatics

**TEMPO (Trans-European intelligent transport systems Projects):**

Funding programme for ITS on the Trans-European Road Network

**TEN FAC:**

Trans-European Network Financial Assistance Committee

**TEN-T:**

Trans-European Network for Transport

**TERN (Trans-European Road Network):**

The strategic routes across Europe

**TETRA:**

Terrestrial Trunked Radio

**TfL:**

Transport for London

**TIF:**

Transport Innovation Fund

**TIA:**

Telecommunications Industry Association

**TIH (Travel Information Highway):**

An independent association of Information Publishers and Receivers who have an interest in exchanging travel information using an agreed set of Principles.

**TIME:**

Transport Information Monitoring Environment

**TIPHON:**

Telecommunications and Internet Protocol Harmonisation over Networks

**TISA:**

The Traveller Information Services Association

**TISPAN:**

Telecoms and Internet converged Services and Protocols for Advanced Networks

**TMC:**

Traffic Management Centre

**TMC (Traffic Message Channel):**

Digital channel used to provide silent, coded messages to in-vehicle applications in order to display route and traffic information in a user's native language

**TMP (Traffic Management Plan):**

For actions in the case of incidents and major events

**TNO:**

Dutch Transport Research Institute

**TPEG:**

Transport Protocol Experts Group

**TPMS:**

Technology Performance Management System

**TPSP:**

Third Party Services Provider

**TRACE:**

Traffic Accident Causation in Europe

**TRACKSS (Technology for Road Advanced Cooperative Knowledge Sharing Scheme):**

Project funded by the EC DG INFSO

**Travolution:**

Project to optimise traffic flow through 'Traffic evolution'

**TRKC:**

Transport Research Knowledge Centre

**TRL:**

Transport Research Laboratory (UK)

**TS:**

Technical Specification

**TSB:**

Technology Strategy Board

**TSG (Technical Specification Group):**

Sub-group of Project MESA that focuses on technical issues

**TSP:**

Telematics Service Provider

**TT&C:**

Tracking Telemetry & Command

**TTE:**

The European Transport, Telecommunication and Energy Council

**TTI:**

Traffic and Traveller Information

**TTFF:**

Time To First Fix

**TU:**

Telematics Unit

**TUM (Technischen Universität München):**

Technical University of Munich

**TWG:**

Technical Working Group

**TWG-TN:**

INSPIRE Thematic Working Group for Transport Networks

**UDG:**

Urban Development Group

**UDOT:**

Utah Department of Transportation

**UGC:**

User Generated Content

**UMAK (Ustrendi Automotoklub):**

Czech Motoring Club

**UML:**

Unified Modelling Language

**UMTS (Universal Mobile Telecommunication System):**

Standard for third-generation digital cellular telephony which enables users to receive video and audio on mobile phones

**UNECE:**

United Nations Economic Commission for Europe

**USAF:**

The United States Air Force

**US DOT:**

US Department Of Transport

**USTR:**

US Trade Representative

**UTC:**

Urban Traffic Control

**UTMC:**

Urban Traffic Management and Control database

**UTMS:**

Universal Mobile Technology Standard

**V2C:**

Vehicle to Centre communication

**V2D:**

Vehicle to handheld Device communication

**V2I:**

Vehicle to Infrastructure communication

**V2V:**

Vehicle to Vehicle communication

**V2X:**

Vehicle-to-vehicle or vehicle-to-infrastructure communications

**VANETs:**

Vehicle Ad hoc NETWORKs

**VAS:**

Value Added Services

**VCA:**

Vehicle Certification Agency

**VERONICA:**

Vehicle Event Recording based on Intelligent Crash Assessment – an EC funded project

**VFR:**

Visual Flight Rules

**VICS:**

Vehicle Information and Communication System

**VIH:**

Vehicle Information Highway provides real-time traffic imaging information

**VII:**

Vehicle Infrastructure Integration

**VIN:**

Vehicle Identification Number

**VIKING:**

Euro-regional project: Road traffic implementation in northern Europe – coordinates national and bilateral traffic management and ITS implementation projects in Denmark, northern Germany, Finland, Sweden and Norway

**VMS (Variable Message Signs):**

Roadside message displays used for traffic control and information

**VRU:**

Vulnerable Road User

**VSC:**

Virtual Sub-Centre for traffic management

**VSN:**

Vehicle Social Networking

**VTT:**

Technical Research Centre, Finland

**W3C:**

World Wide Web Consortium

**WAAS:**

Wide Area Augmentation System

**WAN:**

Wide Area Networks

**WAP (Wireless Application Protocol):**

Standard which brings Internet content to mobile phones

**WAVE:**

Wireless Access in Vehicular Environments, based on IEEE 802.11p and the IEEE 1609 series of standards

**W-CDMA:**

3G mobile communications format

**WEA :**

Weather information

**WG :**

Working Group

**WG-HMI :**

European Working Group on Human Machine Interaction

**WHO:**

World Health Organization

**Wi-Fi™ (Wireless Fidelity):**

Trademark of the Wi-Fi alliance that represents equipment certified for interoperability for different wireless devices

**Wi-MAX:**

Wireless broadband connectivity over several kilometres

**WiMAX:**

Worldwide Interoperability for Microwave Access

**WILLWARN (WIRELess Local danger WARNING):**

EC-funded project developing a communication-based system that extends the driver's horizon and intelligently warns the driver of dangerous situations ahead.

**WIM (Weigh In Motion):**

A technology for determining the weight of a commercial vehicle without requiring it to stop on a scale, using AVI to identify the vehicles and other technologies to measure the dynamic tyre forces of a moving vehicle and then estimate the corresponding static weight

**WLAN:**

Wireless Local Area Network

**WSC:**

World Standards Cooperation

**WSN:**

Wireless Sensor Networks

**XFCD:**

Extended Floating Car Data

**XGDF:**

Extended Geographic Data Files

**XML (eXtensible Mark-up Language):**

Method of representing data and information about the data in a standardised, reasonably human-readable form

**ZigBee:**

Low cost, low power, wireless mesh networking standard