

## our partners and customers

TriaGnoSys belongs to, and benefits from, an extensive scientific and industrial network of global satellite and mobile communications providers, research institutions and universities conducting leading edge applied research in satellite communications



## our people

TriaGnoSys believes that it provides the right environment for employees to feel positive and enthusiastic about what they are doing, have a clear sense of purpose and confidence in their ability, and pride in their individual contribution to the company's success.

TriaGnoSys key personnel have core competencies in:

- ▶ Project management of international projects
- ▶ Design and development of advanced communication systems
- ▶ End-to-end system integration and testing
- ▶ Applied research

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Corporate Information  
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## about TriaGnoSys

### TriaGnoSys...

... is the expert in remote communication, information and media, enabling communications and information transfer from anywhere to anywhere, including in the air, on the sea and in isolated parts of the world.

... develops innovative communication products for GSM, UMTS, LTE, VoIP and multi-media data, that utilise powerful compression rates to deliver low-cost and efficient data transmission.

... uses both satellite links, as well as other direct links, to connect communication networks through its cutting-edge mobility routers.

... delivers tailored industry solutions by building strategic partnerships with OEMs, system integrators and service providers.

TriaGnoSys Research and Development focuses on a broad range of mobile communication fields on subjects such as mobile end-to-end solutions, next generation satellite and cabin & cockpit communication, and combined communications & navigation applications and technologies.

## our commitment

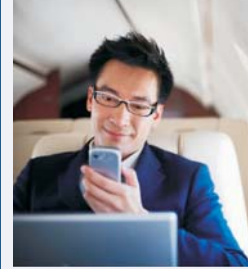
TriaGnoSys is committed to providing its customers with the highest levels of expertise, consistently superior products, and exemplary reliability. We will enable your new communication concepts, not cheaply but economically, not simply but brilliantly.



TriaGnoSys is ISO 9001:2000 certified and all research projects and products conform to this rigorous management standard. In addition, TriaGnoSys software solutions comply with Aeronautical (DO-178B) and ESA (ECSS-E40) Standards.

## our products

TriaGnoSys develops tailored end-to-end communications solutions to meet customers' unique specifications. Our products enable mobile phone and PDA connectivity, Internet access and highly efficient data transfer for a wide range of aeronautical, maritime and terrestrial applications.



**GSMConneX** – Mobile GSM over satellite  
GSMConneX is the leading satellite-based mobile GSM service. It enables operators to establish GSM, GPRS and EDGE communications from anywhere to anywhere. Its unique compression technology makes satellite-based GSM and GPRS/EDGE services commercially viable.

### Current applications:

- ▶ Inflight passenger communications
- ▶ Secure maritime container tracking
- ▶ Disaster recovery communications



**xGate** – Mobility Gateway Communication Manager for mobile networks

xGate controls all passenger, cabin crew and multimedia data communications to and from the aircraft/ships/trains, during the journey. Applications include voice services (GSM, 3G/UMTS, VoIP, Skype), broadband Internet and non-safety critical crew applications.



**VoCeM** – Voice Compression and Enhanced Multiplexing  
Vocem works by increasing Inmarsat or Ku-band payload usage by a factor of between four and ten. Not only is the bit rate for each call reduced, but also the number of simultaneous calls is increased.

## our research expertise

TriaGnoSys is consistently leading and participating in research projects because it has:

- high-tech know-how in satellite, aerospace and communications
- a strong reputation built through ESA and EC studies
- Management experience in particular as a coordinator of international projects

TriaGnoSys views every research project as a potential commercial opportunity.

### WirelessCabin

TriaGnoSys personnel led this IST research project, the basis for today's GSM telephony in aircraft. The scope of the project was broad and had to accommodate several wireless access technologies including UMTS and W-LAN, all via a satellite connection.



[www.wirelesscabin.com](http://www.wirelesscabin.com)

### NEWSKY

The NEWSKY consortium is designing a communications network to meet future air traffic control needs, in particular by increasing both available bandwidth and geographic reach, to provide for increased level of data communications, and more strategic planning of flight routes. TriaGnoSys role is the development of seamless integration of IPv6-based satellite and air-to-ground communications.



[www.newsky-fp6.eu/](http://www.newsky-fp6.eu/)

### WISECOM

Wireless Infrastructure over Satellite for Emergency COMMunications

The project studied and developed communications infrastructures for emergency conditions. The system integrates terrestrial mobile radio networks - comprising GSM, UMTS, WiFi, WiMax and TETRA - over satellite. WISECOM uses lightweight and rapidly deployable technologies, and incorporates location-based services.



[www.wisecom-fp6.eu](http://www.wisecom-fp6.eu)