

# Iguassu Software Systems a.s.

Established in Prague in 1994

Software Design & Development Consultancy

Extensive international experience in Western Europe, USA and Latin America.

Services provided in English, German and Spanish



## Services

- software design, development and consultancy for technology applications
- marketing consultancy for Latin American and Czech aerospace
- time & material or fixed price projects
- at Prague base, or worldwide on site

## Differentiators

Optimal combination of academic qualification, professional skills, broad international experience and Central-European cost base → **optimal effectiveness**

Broad and in-depth multi-national project experience → **excellent communication** & co-operation with international clients

**Customers include:** HP Germany & California, European Space Agency, Ingersoll Rand US, Eumetsat Germany, KNAPP Systems Austria, TriPolus UK, Integral Systems France

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## Important reference customers

**Technology projects** – KNAPP Austria, HP Germany & California, Agilent Technology, HTS UK, Infor Global Solutions, Astronomical Institute of the Czech Academy of Sciences, ABB, ThermoKing / Ingersoll Rand

**Business applications and Enterprise Resource Planning (ERP) consultancy** – Tesco Stores, Nextel communications, Swissform, Schaefer-Menk, SWA, ITB / Transito, Lukovplast

## Projects portfolio includes

- bus air-conditioning embedded control software for Thermoking (CR/US)
- Oracle based Customer Information System and database administration for a communications operator in Czech Republic
- intelligent user interface layer for a Czech Ethylene Refinery control system, under contract to ABB
- public utilities subsystems – subcontracts to CODAScisys, UK
- 80 ton telescope auto-tracking system with a degree of magnitude improvement in accuracy (turnkey system incl. h/w, Czech Republic)
- localisation of German ERP product Infor COM for Czech Republic
- Infor COM ERP implementation and consultancy for local clients
- client-server prototype for Morava River Basin, Czech Republic
- GIS based road-planning system for the Ministry of Transport, Argentina
- participation in development of an automated logistic systems in Austria and US for KNAPP Systems
- general systems maintenance and user support for ESA operation centre computer network



Our engineers have experience in most of internationally used operating systems, programming languages and development tools. They are also highly mobile, which allows Iguassu to respond to clients needs in many countries around the globe.

Development projects carried out either out of Prague base or on long term assignments on customer sites including Germany, UK, Austria, Argentina, Brazil, USA etc. Work with clients in industry as well as international organisations such as ESA, European Union SC, United Nations UNEP or the Inter-American Development Bank.

## Example of a satisfied client – HP Germany and California

Iguassu has worked with HP for 5 years. Initial small consultancy for Germany developed into a 5 man team working for US in Palo Alto and supporting HP vendors and customers worldwide. The sustained co-operation in changing projects confirmed our skills and adaptability to new needs, and enabled our engineers familiarisation with new technologies. Iguassu services included specifications, data mapping development and tests using EDIFACT, Rosetta Net, IDOC, XML standards and Perwil, Interbridge, GE-IS Application Integrator and Workbench tools. Iguassu carried out a feasibility study of BizTalk for HP message exchange. The projects included design, testing and documentation of HP Service Bus using VPN, WebTools and HP UNIX environment.

The collaborative projects with Palo Alto, at 9 hours time difference, proved that using appropriate technologies and working hours shift, **non-collocated software teams can work together effectively, regardless of geographical separation.**

### Important aerospace clients

European Space Agency (ESA), Eumetsat, ESA external services, Indra Spain, Iridium (subcontract), SciSys plc, CAM GmbH, Vega GmbH, TriPolus UK, Integral France

### Current projects for the European Space Agency (ESA) – EGNOS & GRID EO

Following recent Czech entry into the ESA PECS programme, Czech companies start to participate in ESA projects with Czech budget. First bids had been evaluated and 14 approved by ESA. Iguassu was the only company to win several projects. We are currently working on satellite navigation EGNOS / GNSS (SISNeT) tool development, and applying GRID technology to Earth Observation processors. Iguassu also set-up and operates the **1<sup>st</sup> Central European EGNOS receiving station**, monitoring the integrity of EGNOS satellite navigation data (IMAGE Project) and feeding results in real-time into ESA central database

### Another Satellite Navigation Project for the Galileo Joint Undertaking

Iguassu, as member of the international consortium led by INDRA Spain, participates in the development of the control centre for the **Galileo Search & Rescue** subsystem.

### Past space projects participation (over 40 man years) include

- Meteosat TP Main Control Centre CF (Thompson-CSF)
- Satellite Control System SCOS 2000 for ESA, ESOC
- Ground segment systems support (European Space Operations Centre)
- Envisat payload processing (ESRIN),
- IRIDIUM terminal test software (Racal, UK)
- Meteosat Second Generation, Master Control Facility MCF (UK, Eumetsat, and Prague)
- Meteosat Second Generation, Primary Ground Station (Gilching, D).

### Latin(-American) marketing and consultancy experience

- key contribution to EU Satellite Centre (WEU SC) Anite Systems' bid success
- key marketing in Anite Systems' 2.4 M US\$ station, CONAE Argentina
- project management consultancy United Nations (UNEP) Mercure projects
- marketing consultancy for ESA external services
- key marketing in 9.4 M US\$ bid for CBERS processing system, INPE Brazil
- bid consultancy for Brazilian aerospace for Vega, UK and SciSys, UK
- market consultancy for Latin-American aerospace for Shreeveport, UK
- Inter-American Development Bank / Argentine Ministry of Transport



### European Space Agency (ESA) Survey

ESA commissioned survey of Czech industry by the French consultancy NODAL gave Iguassu top marks in most evaluation criteria, and highlighted its fixed price project for Eumetsat (design & development of test tools for Meteosat MSG Central Facility system validation) as an outstanding example of successful international space co-operation. Such credit from a demanding customer underlines our technical as well international business skills, mobility and dependability.

## Example of a technology project: Application of satellite navigation to help the blind – SISNeT



In the context of Iguassu satellite navigation contract with ESA, Iguassu developed substantial new functionalities for ESA's EGNOS SISNeT project. This project is based on the **use of internet to propagate navigation corrections of GPS signals**, instead of the baseline approach which uses receivers of data from geostationary satellites (for which there is reliable visibility only in open spaces).

This technology allows reception of GPS corrections, and thus accuracy improvement from 20–30 metres to 1–3 metres, in areas where geostationary satellites cannot be reached, such as in urban areas. A mobile phone or PDA with data reception capability (most modern models) in conjunction with an inexpensive portable satellite navigation unit, provide accurate positioning e.g. for a pedestrian walking through a city.

In co-operation with the Spanish satellite navigation experts from GMV Spain, Iguassu is preparing tests of the latest GMV equipment about to be delivered to ESA, with the Czech organisations for the blind SONS. Iguassu software is being developed to monitor and evaluate the results of the trial in Czech Republic.

Apart from the technical contribution to these ESA and GMV projects, Iguassu is inviting Czech media to help to demonstrate to the public the fact that space technology can bring many more benefits to ordinary people than Teflon pan coating or TV transmission of the Olympic Games.



## Iguassu Software Systems – clients and partners

