

# **INPRESOL**

**Integrated System for Prenatal  
Monitoring of Pregnant Women**

# Authors

**System INPRESOL is an on-line advanced version of system PRENCARE, developed by companies MEDETRON, Ltd., and COMINFO, Inc. The system was developed by companies MacTech City, Ltd., and TOUMAZ Technology, Ltd.**

**All four companies have received GALILEO Master 2009 prize from European Space Agency (ESA) for this system.**

# Basic philosophy

It is a system of pregnancy risk assessment, based on external tocography with continuous 24/7 monitoring and evaluation of abdominal pressure fluctuations within the uterus with respect to changes of patient position.

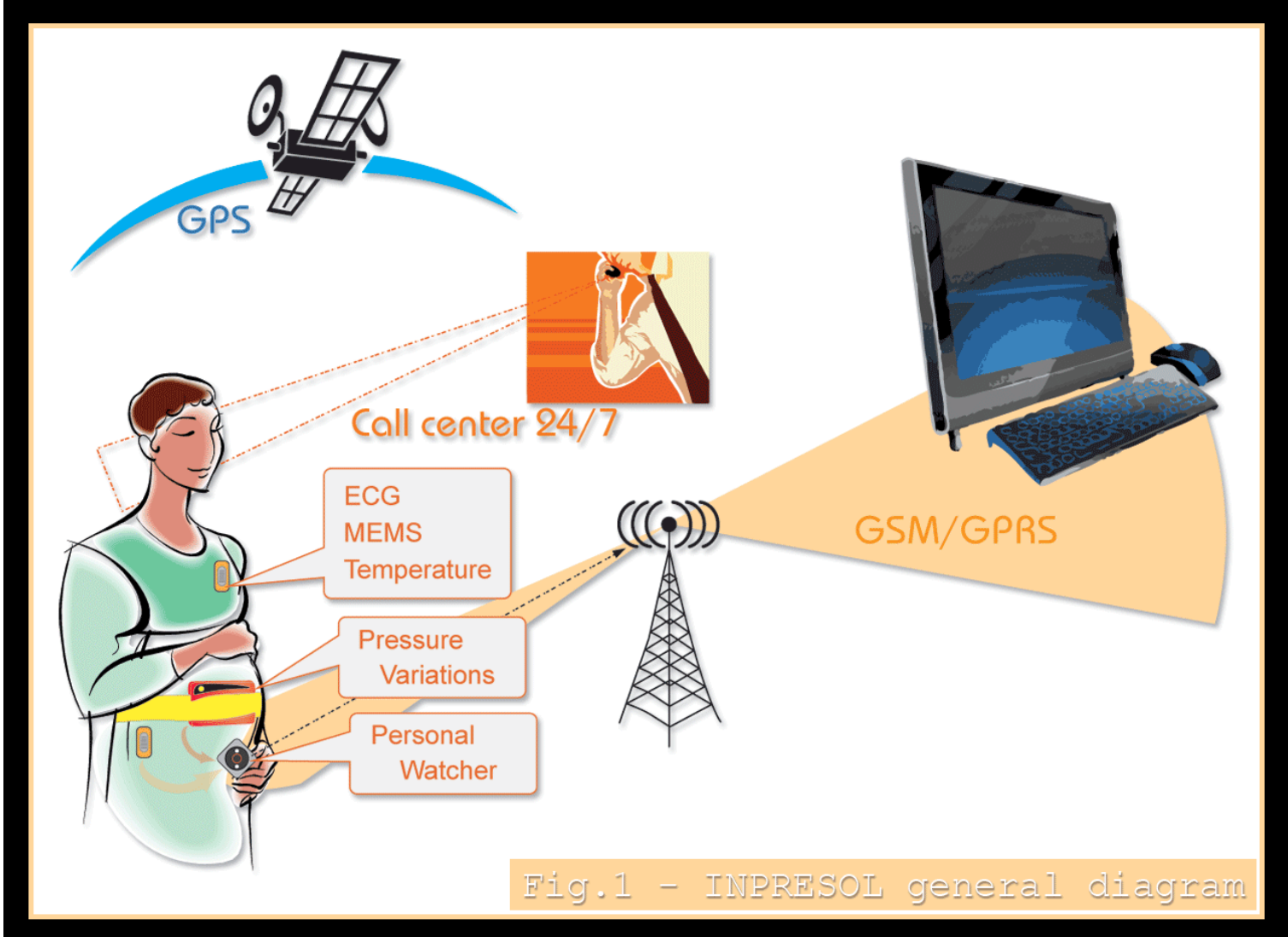
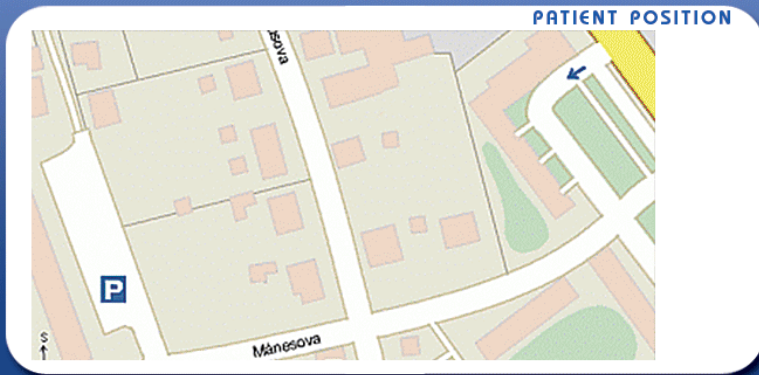
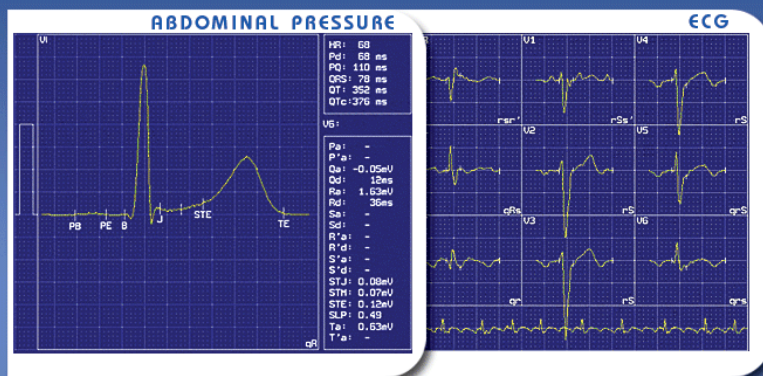


Fig.1 - INPRESOL general diagram

# INPRESOL SCREEN



## WARNING MESSAGE

- 14:55 16.8.2009  
**Panic button alarm**
- 16:23 16.8.2009  
**ECG alarm**
- 16:31 16.8.2009  
**Contraction alarm**

Patient voice call

Connection with 112

Printscreen

Fig.2 - INPRESOL Touch Screen

# New features

- Use of sophisticated BAN (Body Area Network) communications system TELRAN for transfer data from body sensors (ECG, temperature, MEMS), developed by TOUMAZ Technology, Ltd.
- Use of GNSS personal unit Personal Watcher, developed by MacTech City, Ltd., member of ICE Holding.

# Applications

- During 2010, the INPRESOL system undergoes comprehensive testing in the Institute for Mother and Child Care in Prague, the top Czech gynaecological clinic, specialising in risk pregnancy.
- In 2011, the on-line version of INPRESOL will become part of 24/7 Healthcare Call Center in Spa Podebrady, prepared in cooperation with Prague Technical University (CVUT) and funded from the EC.