



# Improving industrial performance

ProCS, Ltd.  
Kráľovská ulica 8/824  
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Slovakia

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# Part of VINCI Energies



## Concessions

- VINCI Autoroutes
- VINCI Airports
- VINCI Stadium
- Other concessions

## Energy



Infrastructure



Industry



Building Solutions



ICT



## Construction



- |                             |                                   |
|-----------------------------|-----------------------------------|
| Specialty Networks Division | Road Division France              |
| Major Projects Division     | Building Division France          |
| Europe & Africa Division    | Civil Engineering Division France |
| United Kingdom Division     | Networks Division France          |
| Americas & Oceania Division |                                   |

# A powerful worldwide network

40

Countries

400

Business units

24,400

Employees

3,6€ BN





# Vision & missions

Accelerating your industrial performance for a better world

100 % dedicated to the industrial process improvement, The Actemium network enables a customized approach, presenting multi-technical, multi-site and multi-country solutions.

Operating throughout the entire industrial life cycle, from design up to and including maintenance.



# ACTEMIUM

## Slovakia



### ProCS, Ltd. – the company history

- ✦ **1992** – establishment of ProCS, Ltd.
- ✦ **2007** – ProCS, Ltd. has become a member of VINCI Energies group
- ✦ **2015** – ProCS, Ltd. presents itself under the ACTEMIUM brand



# The company activities

↗ **DESIGN**

↗ **BUILD**

↗ **MAINTAIN**

- └ Industrial automation
- └ Service & Maintenance
- └ Assembly & Installation of electrical cabinets
- └ Analytics
- └ MES systems
- └ Functional safety
- └ Cyber security
- └ Vibrodiagnostics



# Industrial automation

- ↯ Consulting services
- ↯ Analyzing processes

## Engineering

- ↯ Instrumentation and control design documentation processing
- ↯ EPS, GDS project documentation processing
- ↯ Electrical engineering including lightning, grounding and lighting
- ↯ Software engineering
- ↯ Control systems specification
- ↯ Process automation
- ↯ Field instrumentation

## Installation

- ↯ Electrical installation work, including installation and assembly of measuring, control and automation technology as well as electrical equipment, computer and optical networks

# Industrial automation

- ↯ **Best practices**
- ↯ **Safety application**
- ↯ **FAT, SAT**
- ↯ **Experiences**

## Application software for DCS, ESDS, PLC, SCADA, ...

- ↯ Continuous Chemical & Petrochemical process
- ↯ Batch process
- ↯ Safety Applications
- ↯ Monitoring
- ↯ Control & Safety Narratives
  - ↳ HMI Design
  - ↳ C&E Diagrams
  - ↳ Design of PID controllers, sequences, .....
  - ↳ Alarms, Reports



# Industrial automation

↯ **Qualified and certified team**

## On-site installations

- ↯ Measuring and control instrumentation, including Analyzers
- ↯ Different types of automation systems
- ↯ WAN and LAN optical fibres or metallic communication systems
- ↯ Electrical distributions, motor control, lightning, grounding and lighting systems

## Testing and commissioning

- ↯ Loop checks
- ↯ Equipment functional testing
- ↯ Acceptance tests (FAT, SAT)
- ↯ Integration tests
- ↯ In-process + Output inspections
- ↯ as well as electrical cabinets inspection

# Service & maintenance

↯ **Flexibility**

↯ **Availability 24/7**

Warranty service, Post-warranty service based on the service level agreement

- ↯ Automation systems preventive and complex maintenance
- ↯ Emergency service
- ↯ Repair of components or whole devices
- ↯ Calibration of different measurement and control instrumentation (thermometers, pressure gauges, flowmeters, convertors etc.)
- ↯ Administration of customer's instrumentation and automations systems database
- ↯ Changes in application software

# Assembly & Installation of electrical cabinets

↵ From design to  
installation

According to customer's requirements, in accordance with the required technical standards

- ↵ System cabinets for various control systems
- ↵ Marshalling cabinets
- ↵ Special LAN and WAN cabinets for industrial data communications on the basis of both optical and electrical networks
- ↵ Low voltage switchgears with nominal voltage up to 1000 Volt and nominal current up to 4000 Amps:
  - ↳ Distribution
  - ↳ Motor Control (MCC)
  - ↳ Light distribution

# Analytical systems

↵ **All in one place**

## Design, build and installation

- ↵ Design, engineering and installation from one place, including sampling systems and shelters
- ↵ Long time experiences with different analyzers
- ↵ Process control analyzers
- ↵ Quality control analyzers
- ↵ AMS analyzer systems for gas, liquid and solid particles
- ↵ Design and installation of sampling systems
- ↵ Supply of cabinets and shelters
- ↵ Upgrade of existing analyzer systems
- ↵ Solutions for explosive and hazardous areas
- ↵ Solutions for several industry segments



# MES systems

- ↯ Innovative practices
- ↯ Increasing productivity

## SMART platform

- ↯ ProCS has developed its own MES system with the following specifications
- ↯ It is a system based on the standard application platforms extended by new functional modules developed by ProCS which are tailor-made to the specific customer needs and requirements
- ↯ It is an open system communicating with the operators level through different standardized communication protocols (OPC, Modbus and DLMS)
- ↯ Different alarm messages and protocols can be sent to the users via E-mail communication
- ↯ It enables exporting of the data into different formats (MS Excel, PDF, ...)

## Standard products

- ↯ Wonderware products
- ↯ Yokogawa Exaquantum

# Functional safety

↯ **Safely & reliably**

Increase the availability and reliability of operations, risk reduction and compliance with applicable regulations, transparency of security systems

- ↯ Functional safety engineers of ProCS, certified by TÜV Rheinland, design safety related systems in compliance with the EN 61508 / EN 61511 standards
- ↯ On May 2020 was issued a Declaration of Systematic Capability, proving the conformity of the established FSM system with the standards IEC61508 and IEC61511 (Systematic Capability SC3)
- ↯ The company is authorized under Act No. 128/2015 on the:
  - ↳ Risk assessment
  - ↳ Elaboration and updating of the Safety report
  - ↳ Elaboration and updating of the Emergency plan
  - ↳ Consulting and advisory services

# Cyber security

↯ **Control system design  
in accordance with *best  
practices***

- ↯ Effective protection against unauthorized access (location, account protection, encrypted communication, ...)
- ↯ Access to the system allowing user authentication, strong passwords, access level setting, ...
- ↯ Access and selected states monitoring
- ↯ Networks separation (Segregation and Segmentation)
- ↯ Systems and services hardening
- ↯ Rules for handling portable media
- ↯ Transparency of control systems throughout the whole life cycle
- ↯ Risk reduction and compliance with applicable legislation

# Vibrodiagnostics

## ↯ Design of vibration measurement systems

Providing timely information about the status of the monitored machine reduces maintenance costs

- ↯ Developing a concept of machine diagnostic monitoring system
- ↯ Engineering and design work – I/O, server, network infrastructure, protection
- ↯ Installation of instruments and system itself
- ↯ Setting up, testing, issuing protocols
- ↯ Secure data transfer to higher-level networks
- ↯ Knowledge of Brüel & Kjær, GE, Emerson monitoring systems
- ↯ Analysis of measured data
- ↯ Predictive maintenance



# ProCS, Ltd. the company management



**Ing. Štefan Bartošovič**  
Business Unit Manager



**Ing. Štefan Bartošovič**  
SALES



**Ing. Jozef Szikora**  
DELIVERY



**Ing. Miloš Pinka**  
ENGINEERING



**Ing. Ivan Balogh**  
SERVICE



**Ing. Jozef Szikora**  
(temporarily authorized)  
PB & INSTALL



**Emília Valábeková**  
(temporarily authorized)  
FINANCE



**Bc. Zuzana Kőrösiová**  
HRM

# Human resources – special trainings

## ↯ Regular training

### Control systems

- ↯ PCS7 / SIEMENS
- ↯ CENTUM / YOKOGAWA
- ↯ DELTA V / EMERSON
- ↯ VALMET DNA / VALMET
- ↯ CITEC / SCHNEIDER

### Programmable logical controllers

- ↯ SIMATIC / SIEMENS
- ↯ HIMATRIX / HIMA
- ↯ NETCON, MICRONET, W505 / WOODWARD
- ↯ PROSAFE / YOKOGAWA
- ↯ CONTROLLOGIC / ROCKWELL AUTOMATION SERVICES
- ↯ TRICON SYSTEM / INVENSYS

# Human resources – special trainings

## ↵ Knowledge of systems

### Vibration monitoring systems

- ↵ VC 8000 / BRÜEL & KJÆR
- ↵ BN3500, SYSTEM 1 / BENTLEY NEVADA
- ↵ AMS 6500 ATG / EMERSON

### SCADA systems

- ↵ INTOUCH / WONDERWARE
- ↵ WINCC / SIEMENS

### Information systems

- ↵ MS SQL SERVER / MICROSOFT
- ↵ APPLICATION SERVER / WONDERWARE
- ↵ HISTORIAN / WONDERWARE
- ↵ EXAQUANTUM / YOKOGAWA

# Human resources – special trainings

↯ **Wide knowledge  
of products**

## Implementation of design

- ↯ SWITCHBOARDS - RITTAL, OEZ, ABB, SCHNEIDER, SCHRACK
- ↯ PRODUCTS FOR SWITCHBOARDS - OEZ, SCHNEIDER, ABB, SCHRACK
- ↯ CONTROLL SYSTEMS - YOKOGAWA, SIEMENS, B+R, B&K
- ↯ GDS - MSA A GM
- ↯ EPS – SIEMENS
- ↯ FREQUENCY CONVERTERS - ABB, SIEMENS, VONSCH, VACON, DANFOSS..
- ↯ LIGHTNING PROTECTION AND EARTHING - DEHN, SALTEK
- ↯ COOLING ISSUES AND EMC



# Human resources – special engineering tools

## ↯ Special software tools

### CAE (Computer Aided Engineering) tools

- ↯ ENGINEERING BASE / AUCOTEC
- ↯ EXPERIENCE WITH OTHER SYSTEMS- RUPLAN, COMOS-PT, ELCAD, INTOOLS

### CAD (Computer Aided Design) tools

- ↯ AUTOCAD LT / AUTODESK

### Engineering calculations tools

- ↯ CONVAL / F.I.R.S.T.
- ↯ EXSILENTIA / EXIDA
- ↯ RISK TOOL / DEHN
- ↯ E-DESIGN / ABB
- ↯ SICHR / OEZ
- ↯ ECODIAL / SCHNEIDER
- ↯ DIALUX / DIAL

# ProCS – integrated management system

↯ **Certified quality**

Integrated management system has ProCS certified by SGS certification company

- ↯ Quality management system according to the international standard ISO 9001:2015 requirements
- ↯ Environmental management system according to the international standard ISO14 001:2015 requirements
- ↯ Safety at work management system according to the international standard ISO 45 001:2018 requirements

# System SCC (Safety Certificate for Contractors)

↪ **Guaranteed safety**

- ↪ SCC system has been established in the frame of ProCS which is focused on vendor's qualification in the field of health and safety.
- ↪ This system is closely linked to the Integrated management system (IMS) of ProCS and represents a special superstructure over it.
- ↪ SCC system of ProCS has been certified by TUV SUD Slovakia and the system itself has been based upon german document called Normatives SCC-Regelwerk I Version 2011.
- ↪ SCC certificate is valid until 12/2025.

# ProCS - certificates

↯ **Guaranteed safety**

## Professional certificates

- ↯ FS Engineer (TÜV Rheinland) – functional safety certified engineer
- ↯ Declaration of Systematic Capability, proving the conformity of the established FSM system with the standards IEC61508 and IEC61511 (Systematic Capability SC3)

## Authorizations

- ↯ Authorized civil engineer
- ↯ On-site supervision
- ↯ On-site safety work coordinator
- ↯ Major Industrial Accidents and Protection Expert

# ProCS - certificates

↪ Regular training

## Authorizations

- ↪ Mining activities, explosives and the State mining administration
- ↪ Authorization according to § 17 of Act no. 513/2009 on tracks for carrying out specified activities

## Contractors

- ↪ Schneider Electric
- ↪ Siemens



# Financial indicators



## Turnover generated from core business activities

	2021		2022		2023	
Turnover (in k€)	8 064		8 854		7 632	
	kEUR	%	kEUR	%	kEUR	%
Sales of services	5 645	70 %	6 640	75 %	5 648	74 %
Sales of hardware	2 419	30 %	2 214	25 %	1 984	26 %

## Turnover regional breakdown

	2021		2022		2023	
Turnover (in k€)	8 064		8 854		7 632	
	kEUR	%	kEUR	%	kEUR	%
Domestic sales	6 854	85 %	7 752	88 %	6 674	87 %
Export sales	1 210	15 %	1 102	12 %	958	13 %

# ProCS, Ltd. – scope of activities

## SLOVAKIA



Chemicals



Energy



O&G



Nuclear



Pulp & Paper

## EXPORT



O&G



Logistics



Pulp & Paper



Automotive

# ProCS, Ltd. – major partners



Slovenské elektrárne sú spoločnosťou skupiny Enel



- ✦ Germany
- ✦ Sweden
- ✦ The Netherlands



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# THANK YOU FOR YOUR ATTENTION

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