Partern (Latin for: Direction) was formed in 2011 with the goal of raising the awareness of innovative multivariate data analysis tools among Hungarian companies. With extensive experience from several industrial sectors in Hungary, Partern saw a large, untapped potential to apply these advanced approaches and help companies in their product and process development.

Partern choose to work exclusively with CAMO Software due to their long track record in multivariate data analysis, advanced methods, data visualization tools and the ease of use of their solutions.

THE NEED

László Heinold, Managing Director of Partern, has a long background in industrial quality assurance. “They say it’s better to do things right the first time, but after 15 years working with quality assurance consultancy and training, I realised that people tend to accept things, including products and processes, even when they are not working correctly,” says László. “This is often because they don’t realize it only takes a small effort to make a big improvement.”

He continues “On the other hand, new methods, especially if they use ‘frightening’ maths, can scare people away. Sometime it’s more convenient to accept the status quo rather than learn and adopt new methods.”

László first recognized the need for multivariate analysis in manufacturing while working on a consulting project with an injection molding company. The client was experiencing quality issues but could not identify the cause of the problems, despite having analyzed data from a range of sensors and instruments using traditional statistics. It was only when the data was analyzed with multivariate methods that the true cause of the defects became clear. This allowed the client to adjust the process and resolve the quality issue.

For László, the ability of The Unscrambler® X and Process Pulse to immediately cut through process and product data to identify critical variables clearly demonstrated the potential for these solutions in industry, especially when combined with their usability and applicability across functions ranging from R&D to production and quality control.

He says, “These programs prove that companies can get the benefits of multivariate technology without necessarily being experts in statistics. In fact, the software does all the hard work for the user, who can then apply their industry-specific knowledge to get amazing insights and understanding of their processes.”
THE POSSIBILITY

“As one of my academic customers from Budapest University of Technology and Economics explained, all departments of this university should use these multivariate methods and software like The Unscrambler,” explains László. He believes that the introduction of multivariate analysis in university curricula will be increasingly important as industry collaborates more closely with research institutes and universities to develop manufacturing best practice.

Partem is committed to proliferating the use of multivariate thinking in Hungary because of its growing significance and the fact these methods are ideally suited to industries with sophisticated processes and product development.

“One industrial end-user commented that the process understanding they get from Process Pulse and The Unscrambler are ‘futuristic’. By demonstrating the ‘futuristic’ capabilities of these solutions and the spectacular visual presentation of their data, it was easy to convince them of its value despite the initial concern about using ‘heavy’ mathematical tools,” explains László.

With companies constantly trying to reduce manufacturing costs, multivariate analysis and process control enables them to get big gains in efficiency, quickly and relatively easily. “Companies are amazed at the major process improvements they can make using these tools, especially when they see the low cost and how quickly they get a return on their investment. It’s one of the best kept secrets in manufacturing, but the word is slowly getting out there!” claims László.

He continues, “For companies moving towards more efficient manufacturing, The Unscrambler is a great step forward!”

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László Heinold, Managing Director, Partem Consulting

For more information about Partem Consulting please visit www.partem.hu
Our powerful yet easy to use and affordable solutions are applied around the world in a wide range of industries

**The Unscrambler® X**
Leading multivariate analysis software used by thousands of data analysts around the world every day. Includes powerful regression, classification and exploratory data analysis tools.

**Unscrambler® X Prediction Engine**
& Classification Engine
Software integrated directly into analytical or scientific instruments for real-time predictions and classifications directly from the instruments using multivariate models from The Unscrambler® X.

**Unscrambler® X Process Pulse**
Real-time process monitoring software that lets you predict, identify and correct deviations in a process before they become problems. Affordable, easy to set up and use.

**Consultancy and Data Analysis Services**
Do you have a lot of data and information but don’t have resources in house or time to analyze it? Our consultants offer world-leading data analysis combined with hands-on industry expertise.

**Training**
Our experienced, professional trainers can help your team use multivariate analysis to get more value from your data. Classroom, online or tailored in-house training courses from beginner to expert levels available.

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