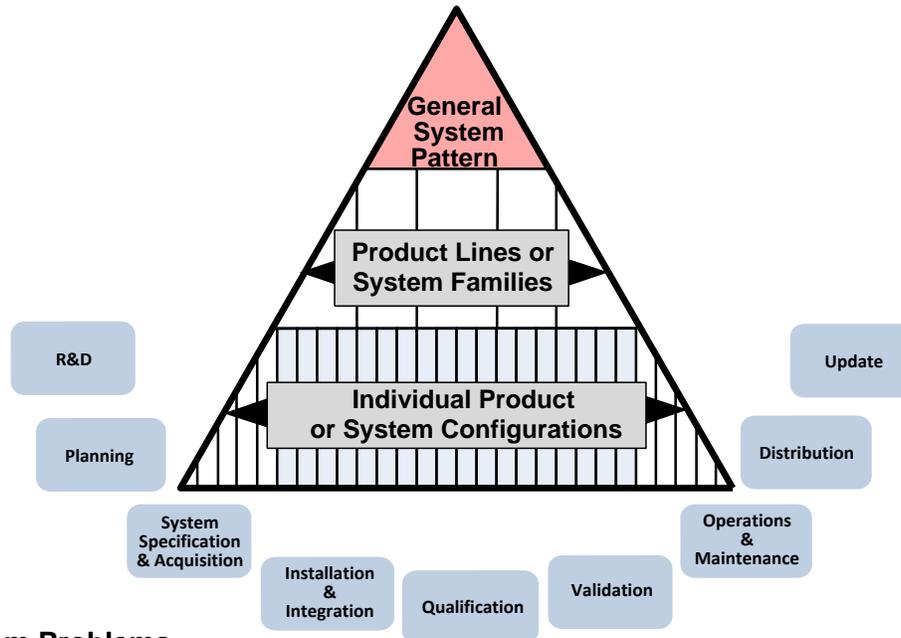


Our Mission

We help our clients succeed by improving understanding of their complex systems. These include products, manufacturing and distribution systems, and business processes. Understanding—by suppliers, staff, or customers—reduces risk and improves outcome.



We Solve System Problems

Businesses and institutions are built on complex systems: interacting components, including mechanical, electrical, chemical, information, and biological technologies, humans, and business processes. Driven by competitive innovation processes, the complexity of these systems can grow at exponential rates.

Understanding these systems—their required performance, underlying designs, technologies, and interdependencies—becomes more difficult as the systems become more complex and coupled. When efforts to describe, specify, document, communicate, understand, or keep up with these systems become too great, the risk of poor outcome grows across their life cycles.

ICTT System Sciences brings a fresh, effective approach to this challenge. Using new methods and extensions of systems science and systems engineering developed over three decades, we help our clients simplify and improve how they specify, design, plan, monitor, analyze, produce, distribute, and improve their products and internal systems.

Using our proven Systematica™ Methodology, we can provide high quality solutions to your company, no matter what your systems, technologies, and challenges. Where needed, we can also teach your staff these improved methods. We can also Systematica-Enable the information systems and third party technical tools you already use to better exploit your existing assets.



To start with, we can show you how highly simplified types of Models can be used to more effectively describe and communicate about complex systems across your non-technical and technical staff, as well as those of your suppliers. These Model-based views simplify description of your targeted systems, while at the same time improving the completeness and power of those descriptions. Next, we can show you how to “uncover” the hidden Patterns that run across your systems, products, and processes. These Patterns can be uncovered and harnessed to reduce effort, cost, cycle time, and errors, or they can remain hidden and continue to impact future performance.

Professional Services

- Uncover the Pattern™ (UTP)
- Journey Map Planning (JMP)
- Requirements Elicitation and Quantification (REQ)
- Failure Modes, Effects, and Criticality Analysis- Analysis Models & Patterns (FMECA-AMP)
- Harvest the Pattern™ (HTP)
- Tools Integration & Planning (TIP)
- Qualification, Commissioning—Analysis Models & Planning (QC-AMP)
- Systematica Education & Training (SET)
- Other services

Licensed Assets

We provide our clients with practical Professional Services and Licensed Assets based on Systematica Methodology for Complex Systems. These tools and the methods for using them are ICTT System Sciences Licensed Technologies. These include:

- Systematica Metamodel and Configurable Process Reference Model
- Systematica Workbook
- Enabling Assets for Third Party Commercial Tools and Information Systems
- Project Planning, Audit, and Risk Analysis Wizard
- Systematica Education
- Other assets

Origin and History of ICTT System Sciences

The company was founded in 1983 as a for-profit enterprise jointly owned with Rose-Hulman Institute of Technology (RHIT), one of the world's leading schools of engineering, science, and mathematics. The company's original complex systems practice was focused on the Telecommunications Industry during its dramatic transformation from electro-mechanical technology and protected monopoly status to a digital electronics and software enabled, de-regulated, competitive, global, open systems market.

In 1996, new management refined the focus of the corporation to Systems Engineering in the telecommunications domain, then added other market domain segments in military/aerospace, automotive/heavy equipment, medical/health care, and advanced manufacturing sectors to the business. Since then, ICTT System Sciences has been packaging and practicing its Systems Engineering methodology, Systematica™, to refine and enhance its capability. The company has become a well-known thought leader across the global systems engineering community, and has provided leadership and support across a number of areas of the International Council on Systems Engineering (INCOSE).

The company originated and continues as a Professional Services enterprise. It was joined in 1997 by its commonly owned affiliate, System Sciences, LLC, an integrated supplier of licensed technologies and intellectual assets complementing these services. In 2006, the minority ownership of our 23-year academic partner RHIT was re-purchased by the company, and the combined enterprise continues with its founding private ownership.

Now licensed by clients in diverse industries, Systematica Methodology has developed out of research and practice spanning 30 years. Extended to many Systems Business Processes, this methodology is applied to diverse hard technologies, but also finds important applications in Human Systems.

Need more information?

Would you like to know more about ICTT System Sciences unique approach to systems engineering? Call, fax, or visit us at our office or visit us online at www.ictt.com.

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