



PROJECT EVALUATION & MANAGEMENT

During the last several decades, there has been proliferation of small business startups. While some of the new entrepreneurs may have had previous experience as intrapreneurs within other organizations and may have learned the salient requirements of starting a new business, many have not. It is for these individuals that TRI has organized important background information which will assist in evaluating potential opportunities prior to making major financial commitments. The methodology for project evaluation is taught in most undergraduate engineering programs and practiced by major corporations; the basics of project management are taught in many in-house corporate and technical society programs.

Project Evaluation

- Time value of money
- Rational Price Calculations
- Profit and Loss Statements
- Return on Investment
- Economic Value Added
- Risk Analysis
- Post-project Audit

Project Management

- Strategic Planning
- Organizational Capability
- Supplier Strategic Alliances
- Quality Control
- Customer Focus
- Technology Transfer
- Intellectual Property

Wolf Koch has taught Project Evaluation and Management as part of academic and industrial programs for about 40 years. During the mid-1970s, he joined a major oil company and took part in an effort to develop and standardize procedures for the evaluation of new projects while also supporting operating chemical plants with implementing process changes. After a transfer to corporate strategic planning, where he conducted several international post-installation project audits, he moved on to manage process development and strategic planning for alternative fuels. Later, he became a corporate intrapreneur, developing and managing the technology support functions for a large fuels marketing organization, introducing automated payment systems and inventory reconciliation, developing and implementing improved credit card technology, implementing environmental mandates, developing and commercializing the first assisted refueling vapor recovery system and supporting the construction of 50 compressed natural gas dispensing facilities. Concurrently, he developed teams with expertise in computational fluid dynamics, artificial intelligence and environmental instrumentation. Dr. Koch founded Technology Resources International, Inc. in 1995. He has developed, tested and commercialized new products for clients, has provided technology evaluation services to investors in energy related areas domestically as well as abroad, and has worked with regulatory agencies at the Federal, State and local levels and with industry trade associations. He has supported many attorneys in litigating patents and other intellectual properties. Currently he is assisting major oil and chemical companies in their regulatory approval efforts for a new biofuel

Dr. Koch joined the adjunct faculty of Midwest College of Engineering (MCE) during the 1970s; there he developed and taught undergraduate courses in Engineering Economics and a graduate course in Project Evaluation and Management until 1990, when MCE merged with the Illinois Institute of Technology. For a number of years he participated in teaching a continuing education course on developing expert systems for the Laboratory for Intelligent Systems in Process Engineering (LISPE) at the Massachusetts Institute of Technology. He has published more than 50 papers covering a wide range of topics, including five recent publications covering future biofuel technology, and has been granted 30 patents covering environmental and sensor technology, as well as chemical processes. Dr. Koch holds Ph.D. and bachelor degrees in chemical engineering and a master's degree in biomedical engineering.