



# Scenario-Based Project Planning

**FIATech Roadmap Presented by  
Frank Miller, Rohm and Haas Company**

**FIATECH envisions a future state where capital projects are executed in an automated and seamlessly integrated environment across the capital project life cycle ...**

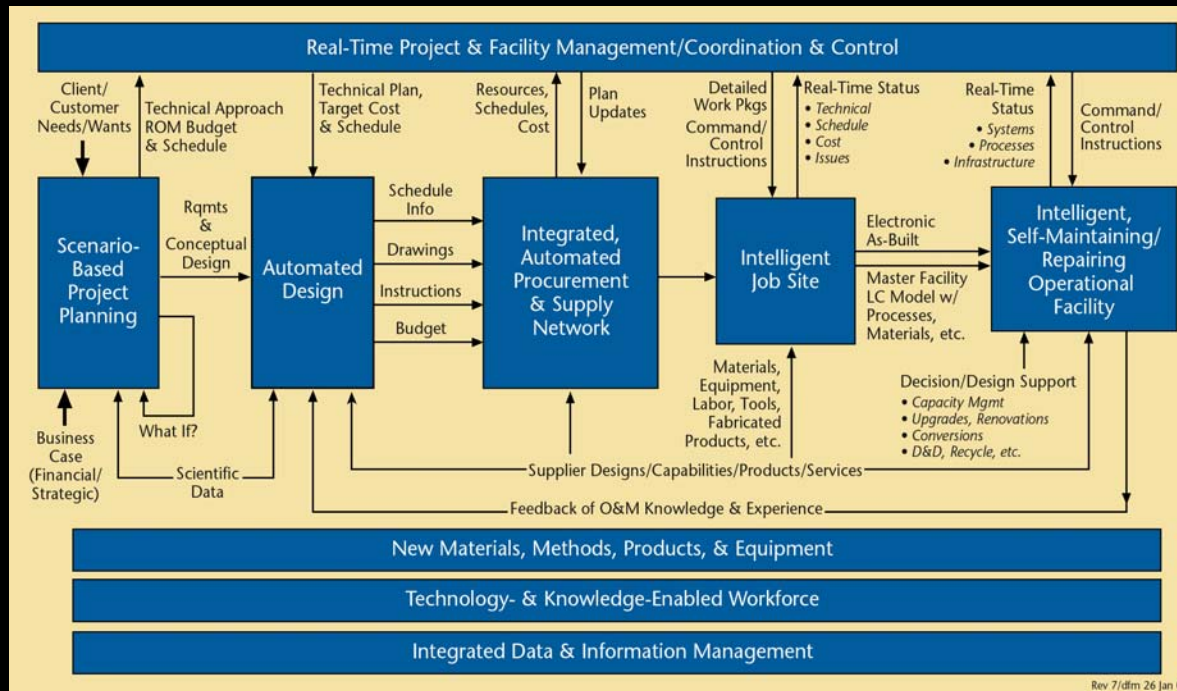


- **FIATECH - (Fully Integrated and Automated TECHNOlogy for the capital facilities industry)**
  - **Dr. Richard Jackson, Director (rjackson@fiatech.org)**
- **Industry-led, collaborative, not-for-profit, RD&D consortium**
  - **Conceived by CII and NIST as Breakthrough opportunity**
- **Similar Business Model as: SEMATECH and NCMS**
  - **Research, development, deployment**
- **Professional project managers aggressively deliver**
  - **30 products delivered so far**
  - **Several active projects, more forming**
- **Developed Capital Projects Technology Roadmap**
- **More than 45 member companies including owners, contractors & suppliers**

FIATECH has developed the Capital Project Roadmap as the industry reference model. Projects are underway to realize its potential ...



## The Vision of an Integrated and Automated Capital Projects Industry



*“The vision of the future is of a highly automated and seamlessly integrated environment across all phases and processes of the capital project/facility life cycle. All information is available to whomever needs it, whenever it is needed, and wherever it is needed.”*

# The Scenario Based Project Planning team is developing a roadmap to realize the vision for project planning ...



- Provides a comprehensive, collaborative project planning system that
- Captures and analyzes front end data including
  - Business case,
  - Scientific data,
  - What-if scenarios,
  - Requirements and conceptual design,
  - Customer needs,
  - Budget and scheduling, and
  - Feedback from operations and maintenance
- To assist the planning team in developing the project strategy
- To provide the initial data capture to be used throughout the lifecycle of the facility.

# Scenario-Based Project Planning involves understanding business requirements, evaluating alternatives, and making informed decisions. Opportunities exist ...



Scenario Based Project Planning			
Steps:	Define Requirements	Evaluate Alternatives	Make Decisions
<b>Major Attributes of the Ideal State of SBPP:</b>	Collaborate, Speed, Concise, Right level of Quantitative Data, Clear Definition of Reqmts – ranges, Sound Set of Business Requirements, Fact-based, Leverage Global-Broad Spectrum Knowledge	Data Collection, Creation of Options, Analysis of Options, Negotiation, Dependency Analysis, Iterative, Requirements Finalized	Scenarios Processed w/ All Stakeholders, Decision Documented, Visible, Leverage-able into Future
Gaps			
<b>Problem Space:</b>	Complexity, Data Unavailable, Requirements not fully expressed, Reliance on Tacit Knowledge	Don't understand reqmts, Less Analysis Done, No Automation, Silo flow, Have to "extract requirements", Knowledge Unavailable	Intuition-based Decision, Unclear Accountable, Lack of Clarity, Lack of Scenarios, Decision Questioned
Technology Enablers			
<b>Tech's that may enable the ideal state:</b>	Business Intelligence, Knowledge Mgmt and Collaboration, Integration of Information, Digitized Best Practices – Reqmts Questions – "Interrogatory", Workflow	Data Mining, Scenario Modeling, "Process recording – of the thought process", Simulation, Digitized Best Practice - Options	Visualization, Knowledge mgmt, Document mgmt
Organization and Process Enablers (to be determined)			

# FIATECH appreciates your insights ... Do you have experiences that we can leverage into this?



- **Vendors / Tools / Experts / Expertise with strength in this area**
  - **Scouting**
- **Solutions to Similar Problems**
  - **Adaptable Capability**
  - **Key learning from experience in multi-company**
  - **Generic analysis tools / templates**
- **Models for Business Decisions**
  - **Alternatives and Scenarios**
- **Interest in Collaboration**
  - **Participation**
- **The floor is open to your questions and comments. Thanks!**

# Contacts



- **FIATECH**
  - Dr. Richard Jackson, Director ([rjackson@fiatech.org](mailto:rjackson@fiatech.org))
  - Nicole Testa ([testa@fiatech.org](mailto:testa@fiatech.org))
  
- **Scenario Based Project Planning**
  - Jehu Burton, Dupont ([Jehu.T.Burton@USA.dupont.com](mailto:Jehu.T.Burton@USA.dupont.com))
  - Sylvia Rappenacker, Dow Chemical ([SHRappenecker@dow.com](mailto:SHRappenecker@dow.com))
  
- **Today's Presenter**
  - Frank Miller, Rohm and Haas ([frankmiller@rohmmaas.com](mailto:frankmiller@rohmmaas.com))