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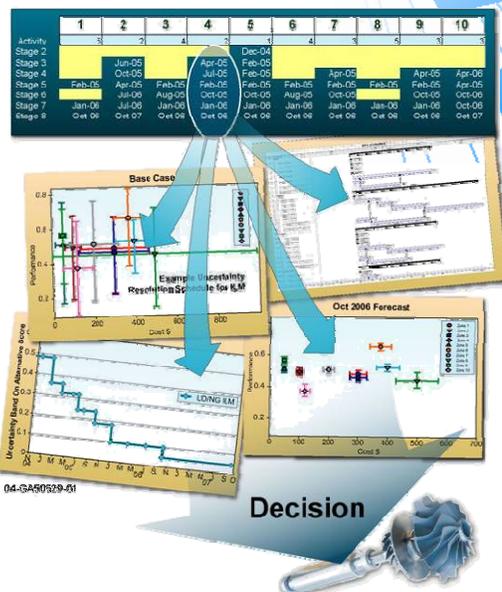
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Technology Roadmapping, Maturity, and Deployment

Planning and decision-making represent important challenges in the realm of technology development programs. Whether projects involve incremental improvement or technology breakthrough, there typically are significant uncertainties and interrelationships which complicate the environment of competing priorities and limited funding. Technology Roadmaps are used to identify precise program and project objectives and requirements, create a consensus vision of R&D needs, focus R&D resources, facilitate informed decision making, provide a structured defensible decision program and project plan, accelerate application of new technologies, expedite new systems deployment, and minimize project costs and schedules.

Building on core roadmapping principles that have guided Fortune 500 companies like Intel and Motorola, systems engineers at the Idaho National Laboratory (INL) have developed a specialized planning and technology roadmapping capability that provides the rigor and understanding needed for decision-makers to focus on critical uncertainties and make informed decisions. Further, the INL's advanced technology roadmapping process provides a means to measure the relative merit of technologies, accelerate application of new technologies, minimize project costs and schedules, facilitate informed decision-making, and provide a defensible argument for acquisition choices. In short, the INL technology roadmapping capability allows planning; Research, Development, Test and Evaluation (RDT&E); and acquisition teams to make cost-effective technology decisions in the face of program complexities.



"The INL's roadmapping process gave us the ability to look forward in our technology development and selection processes in a very deliberate manner. It has provided insight into risk areas and has allowed us to explore requirement gaps that will help us prioritize the activities necessary to develop reasoned decisions with a technical basis that we could not previously articulate."

– Colonel Donald Kotchman
Deputy Program Executive Officer
U.S. Army Ground Combat Systems

Idaho National Laboratory

