

*A Management Roundtable Publication*

# Special Report on Lean Product Development Practices

While many organizations have lean manufacturing initiatives in place, lean product development is still in its infancy. Yet companies that know how to focus resources on value-added activities - while reducing waste - have an enormous competitive advantage in today's global marketplace. For this reason, Management Roundtable has been tracking industry progress and the implementation efforts of leading practitioners.

We are now pleased to announce our new Special Report on Lean Product Development Practices which is due for release next month. This Report will present exclusive insights and implementation advice, including:

- Implementation examples from the leaders in lean product development, along with "how-to's" and measurable results
- Views from renowned experts such as Don Reinertsen, Mike Kennedy, Ron Mascitelli, Tom Devane (and others) on the state-of-the-art and future directions
- Proven models and practices including batch size reduction, queue management techniques, parallel processes, the removal of non-value-added activities, and flow management
- Case examples from Boston Scientific, Steelcase, DICKEY-john, Hewlett-Packard, Isothermal Systems Research, Cessna Aircraft, Honeywell Aerospace, Lockheed Martin Astronautics, and more
- Applications of Lean that lead to greater innovation
- Slides and presentation materials which can be used for internal reports and meetings
- Recommended further resources, including contact information

## *From the candid interviews and case examples you will learn:*

- How lean product development differs from lean manufacturing - differences, similarities and applications of the Toyota Method, Lean Sigma, Agile, and other variations of Lean.
- How to apply lean thinking to NPD processes such as phases and gates, co-location, and gathering customer requirements.
- About Continuous Flow, a new model for product development that starts with the special nature of each design challenge, and then creates the optimal critical path that would enable a multi-functional team to achieve its goals.

- Don Reinertsen's view on how mature insights from the manufacturing domain apply to product development--important differences between the two. How the concept of "batch size" from the factory floor may be transferred to product development where outputs are less tangible. Why Lean represents an opportunity for transformational change in product development.

- A top-down model for Lean Product Development including common failure modes; a list of areas within product development where waste tends to creep in; a model for the various organizational levels at which LPD is applied; specific examples from Lean product development organizations, along with the measurable results they have achieved.


- How Boston Scientific turned to Lean to help reduce product development investment, while still managing risk and market requirements. How the company implemented a hybrid of Toyota's product development system, integrated with best practices in product development.

- About Steelcase's early efforts to adapt lean methodology to product development and how it has extended lean principles from its manufacturing process to pilot projects elsewhere, notably information technology (IT).

- How to gain buy-in and momentum; how Hi-Stat, a \$116M manufacturer of switches, sensors and valves for automotive applications, developed a robust waste reduction/continuous improvement program that saved the company as much as \$10M over a five year period.


- How Lockheed Martin Space Systems Astronautics Operations, working in conjunction with other Lockheed companies, adopted its own high-octane blend of Six-Sigma methodologies and Lean concepts.

- How High Performance Organizations (HPOs) use the Lean Six Sigma toolset employing a mix of 'hard' and 'soft' approaches to continuous improvement.



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- Approx. 180 pages including text, graphics, appendix, and supporting presentation slides.

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# Special Report on Lean Product Development Practices

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- Hi-Stat: "Wizard of WOW" (War on Waste) Conjures Lean Approach

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- Integrating Design for Lean Six Sigma and High Performance Organizations: Addressing both the Technical and the Human Sides of Improvement, with Tom Devane, author of *"Integrating Lean Sigma and High Performance Organizations"* (2004)

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