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Innovative Supply Chain Practices: What Leading Aerospace and Industrials Are Implementing

4th Annual NASA Supply Chain Quality Assurance Conference

Deloitte Consulting LLP

October 20, 2010



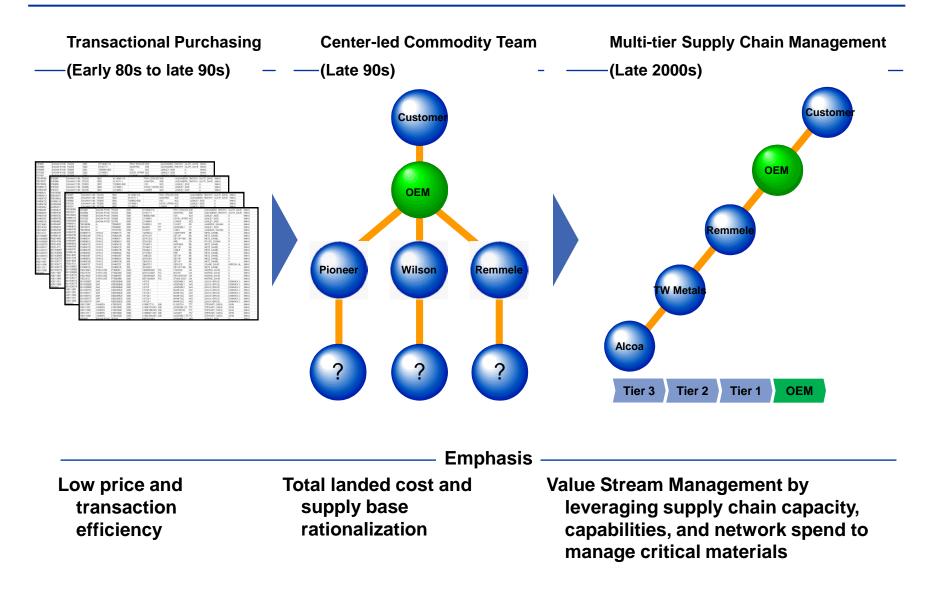
Practice #1 Managing the Value Grid

Practice # 2 Developing Real Tier 1 Suppliers

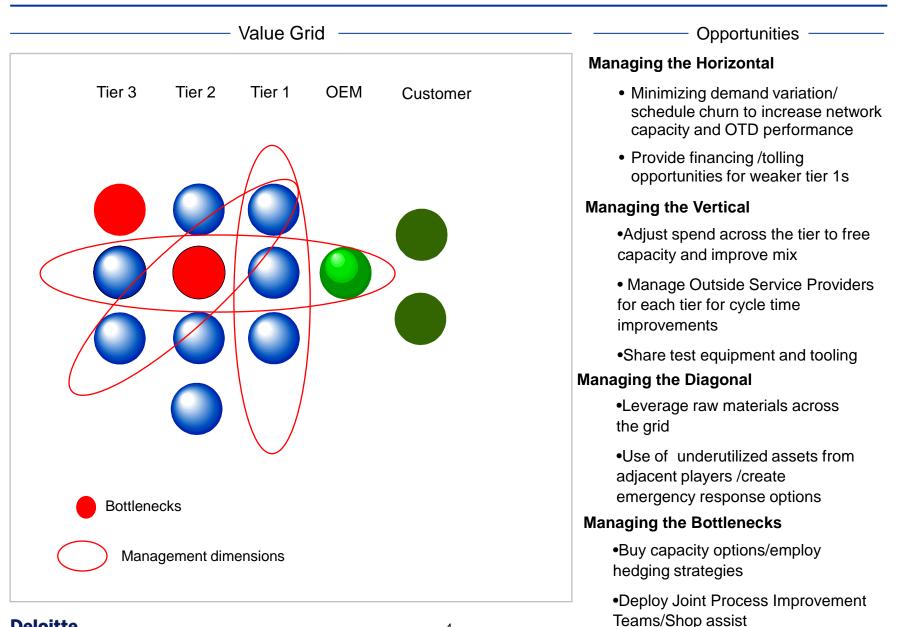
Practice #3 Leveraging Systems Engineering in Development

Practice #4 Accelerating Innovation in a Nonlinear World

Multi-tier supply chain or Value Grid management is an emerging practice



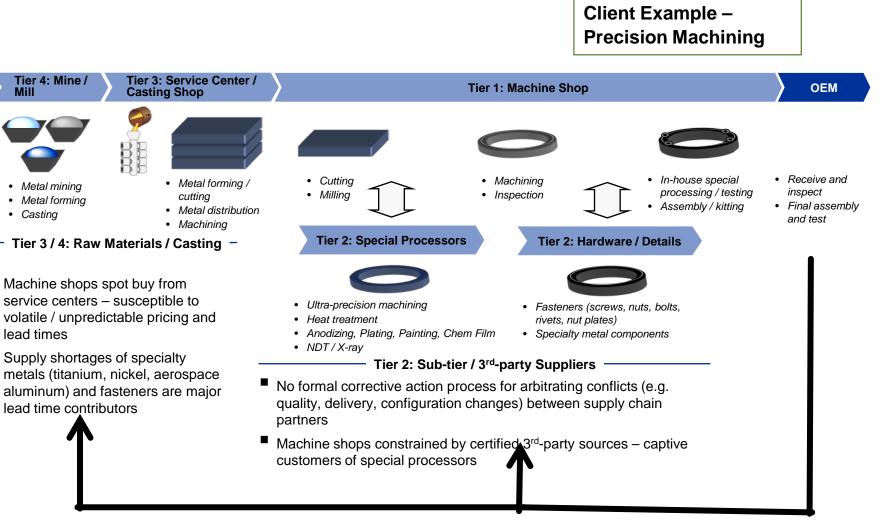
Value Grid Management Has Multi-dimensional Opportunities for **Collaboration and Improvement**



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Going one level down in the supply chain isn't sufficient; problems often originate deep in the extended supply chain



OEM can leverage its size and gain its fair share of capacity and mind-share with large sub-tier suppliers, share forecasts and business plans, and create a special processing supplier pod for quick response processing

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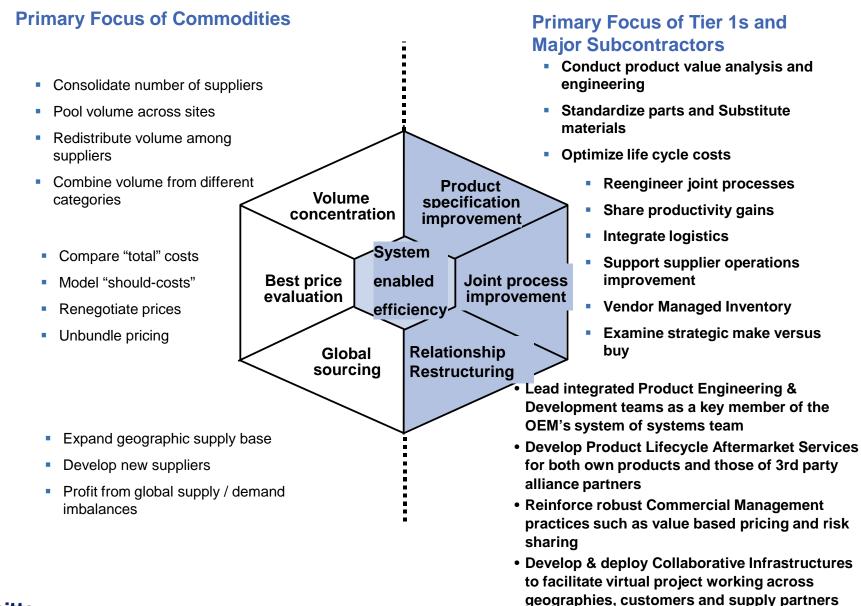
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Practice # 2 Developing Real Tier 1 Suppliers

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Tier 1 ecosystem partners capabilities will need to evolve or they will become Tier 2/3 suppliers



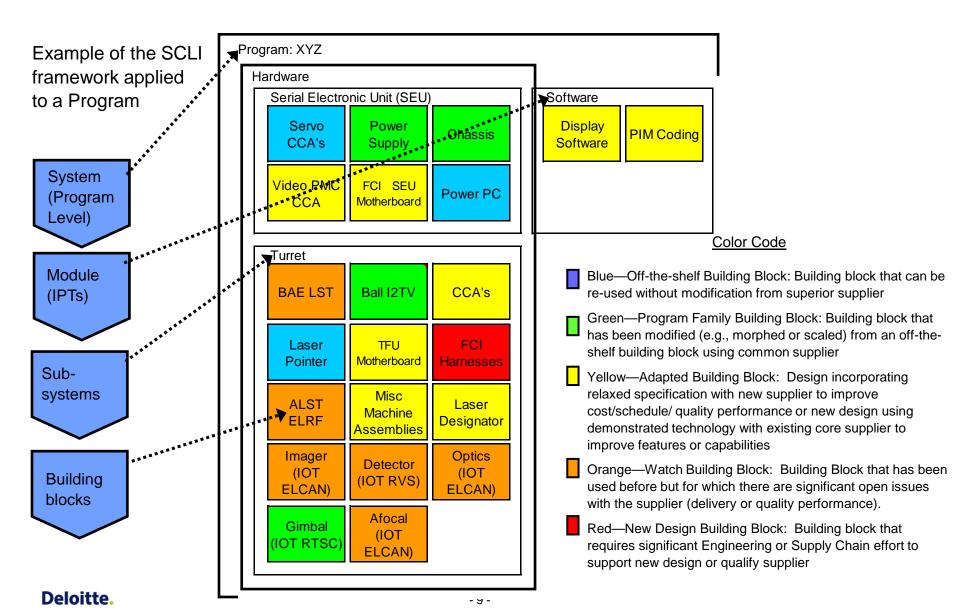
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Practice # 1	Managing the Value Grid
Practice # 2	Developing Real Tier 1 Suppliers
Practice # 3	Leveraging Systems Engineering in Development
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Practice # 5 Creating Network Flexibility

The Supply Chain Leverage Index incorporates systems engineering, design and supply chain capabilities early in a staged-gate review



As a program manager which of these designs will keep you up at night?



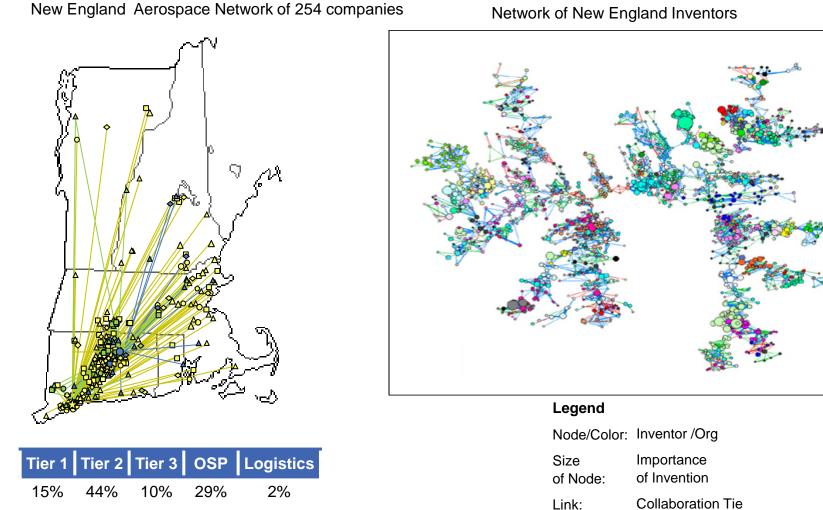
Practice #1 Managing the Value Grid

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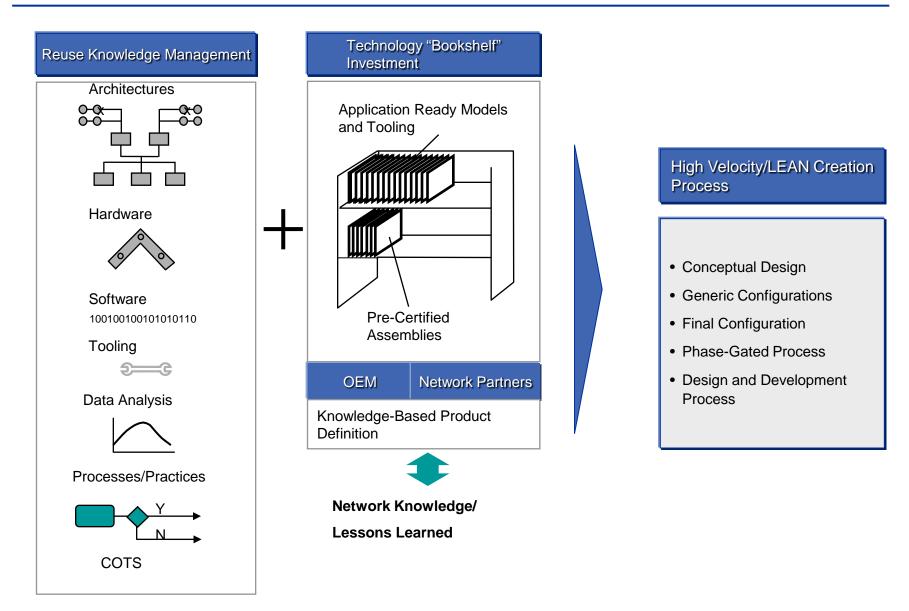
R&D is a non-linear network game whose value increases with the number of participants—it is not a simple pipeline



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Source: © 2004 HBS associate professor Lee Fleming; United Technologies; Deloitte Analysis - 12 -

Integrative networks can combine reuse libraries, technology bookshelves and knowledge-based product definitions for fast creation



Practice # 2 Developing Real Tier 1 Suppliers

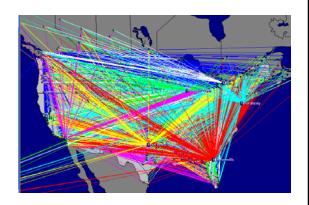
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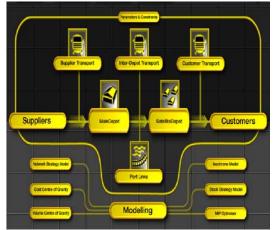
Leading Manufacturers are optimizing their footprint and network flexibility

Firms are optimizing their manufacturing and logistics footprint....

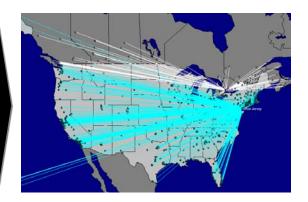
As Is Supply Chain



CASTdpm / LogicTools



To be Supply Chain



..... While enhancing their flexibility



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