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# The Evolution of NPD at Lubrizol

### Brian R. Cunningham November 8, 2004



## **Lubrizol Profile**

### Lubrizol

Traditional strengths:

- Lubricant additives
- Surface active chemistry
- Transportation markets

#### COMMON STRENGTHS:

- Application technology
- Formulation
- Value-added
- Customized applications
  - Performance chemistry

#### LUBRIZOL

technologies and core chemistries **to** Noveon products and market channels

#### Example:

- hyperdispersants in polymers and cosmetics
- skin-care emollients
- specialty additives for coatings
- specialty monomers to personal care

### NOVEON

technologies and core chemistries **to** Lubrizol products and market channels

#### Example:

- anti-oxidants

### Noveon

Traditional strengths:

- Specialty polymers
- Performance coatings
- Personal care markets



# **Discussion Scope**

- A "Case History Overview"
- Focus on How Approach to NPD has Changed at Lubrizol as our Structure / Environment Evolved
- Will <u>Not</u> Cover Detailed Mechanics of NPD Processes



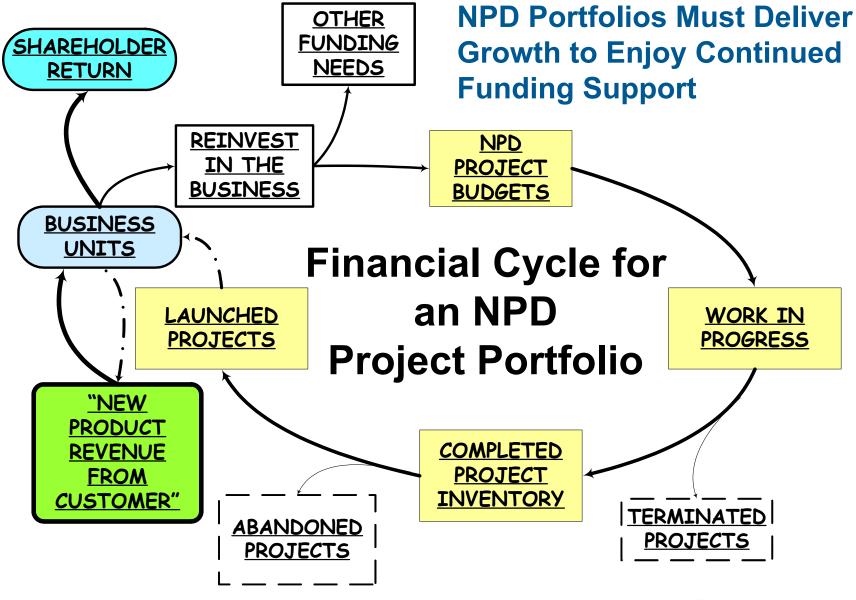
### Two Criteria for a Successful NPD Process

Achieves Business Results

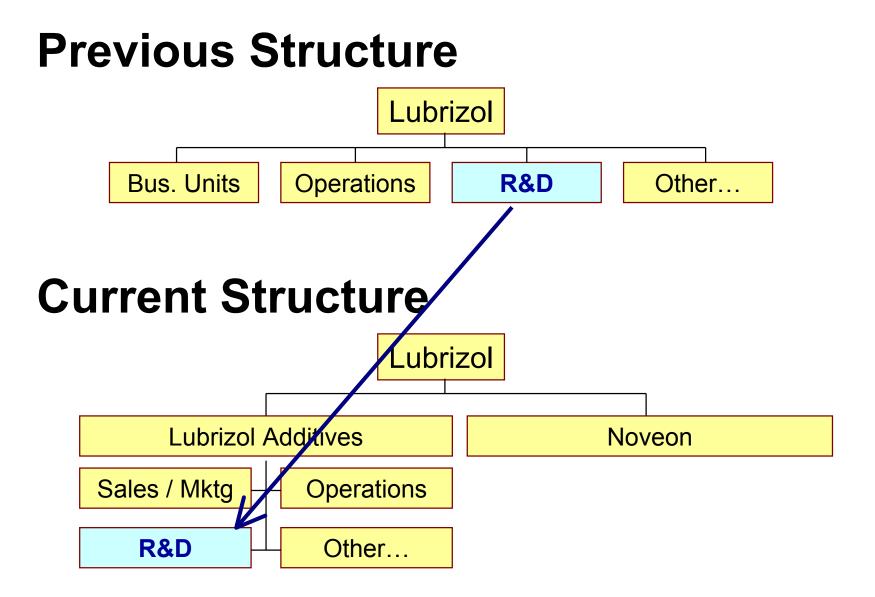
### – DELIVER GROWTH

• Compatibility with Organizational Structure, Environment, and Culture











# NPD – Lubrizol's Early Years

- Rapid Industry Growth "Steady Diet" of Technology Breakthroughs Fueled Growth in Existing Markets
- Large Invention / Innovation Engine Created
- "If R&D Invents it, the Business Can Sell it"
  - Also Developed Organizational Dependence on Chemical Invention to Solve Problems



# **Maturing Industry Implications**

- Change in Business Strategy to Increasingly Serve Existing Revenue Streams through New Formulations, not New Components
- Business Growth Strategy Expanded into Adjacent Markets – Including Acquisitions
- Increasing Competitive Intensity Increased Business Focus on "Today"



# **R&D / NPD Response**

- Opportunity to Focus the Chemistry Invention
  / Innovation Engine on New Applications
- R&D Focus on Supporting "Today" and Developing Opportunities for "Tomorrow"
  - BUT Technology "Push" Projects Result in Unsatisfactory Commercial Success
- NPD Model and R&D Needed to Change



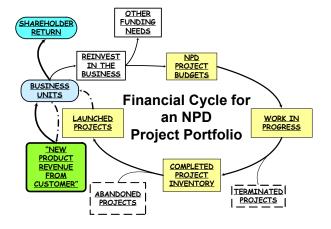
# New Vision Launched in 2000

- Senior Management Defined "Vision Destinations" to Improve Alignment of Growth Efforts with Strategy
- Created Small "Business Incubators" for New Destinations.
- R&D Created Internal "Destination Owners" to Partner with Business Units on NPD Project Areas and Manage R&D Project Portfolios



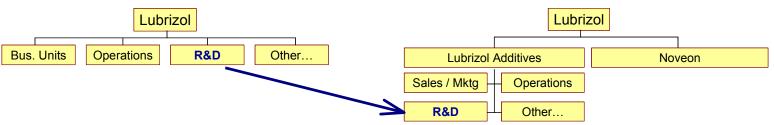
# **Business Environment** – Complicating Factors

- Competitive Intensity in "Mainline" Businesses Made it Difficult to Fully Engage with Longer-Term NPD Projects
- Business Incubators Were Embryonic Lacked Size and Established Credibility in New Applications
  - Achieving NPD Commercial Success Still Difficult Despite Increased Use of NPD Mechanics / Tools





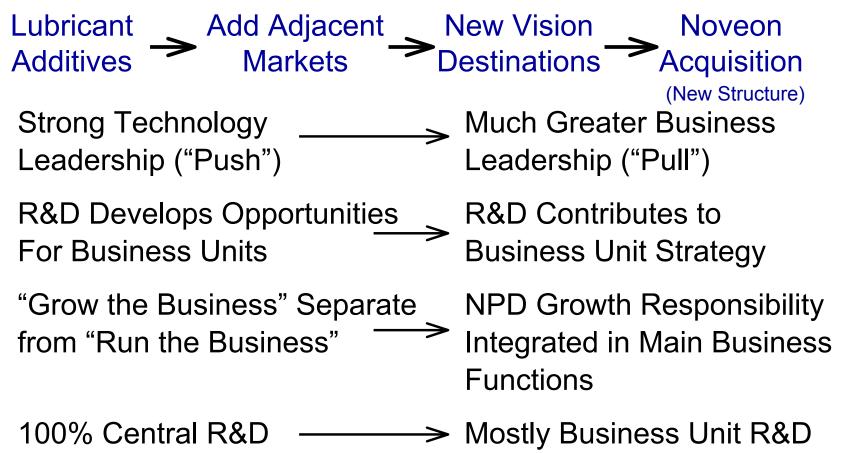
### **Noveon Acquisition Brings New Structure** – and a New Approach to Managing NPD



- Business Units have Direct Accountability for Growth / NPD Investment Results
  - Mainline Businesses More Fully Engaged in Commercial Development Activity for NPD Projects
- R&D "Key Account Managers" (Technology Business Partners)



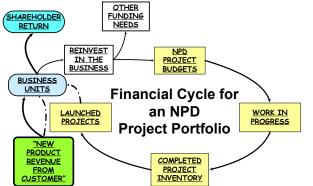
# Summary Impact of Business Structure Evolution on NPD Efforts





# Conclusions

- The Business Impact Goals of NPD are a "Constant"
  - DELIVER GROWTH



 The External Business Environment and Organizational Structure Influence the Approach to – and Success of - NPD Portfolio Management

