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# Agenda - Topics

- Lubrizol Company Overview
- Material Movement by Barge
- Benefits







# Lubrizol is a Global Specialty Chemical Company

We combine complex, specialty chemicals to optimize the quality, performance and value of our customers' products while reducing their environmental impact







## Who We Are

- Problem solvers
  - Deliver innovative, practical specialty chemical solutions for customers' toughest challenges
- Technology-driven
  - Hold nearly 2,000 patents and counting
- Global
  - Serve customers in more than 100 countries with approximately 8,000 employees worldwide
- Growth-oriented

ind essential

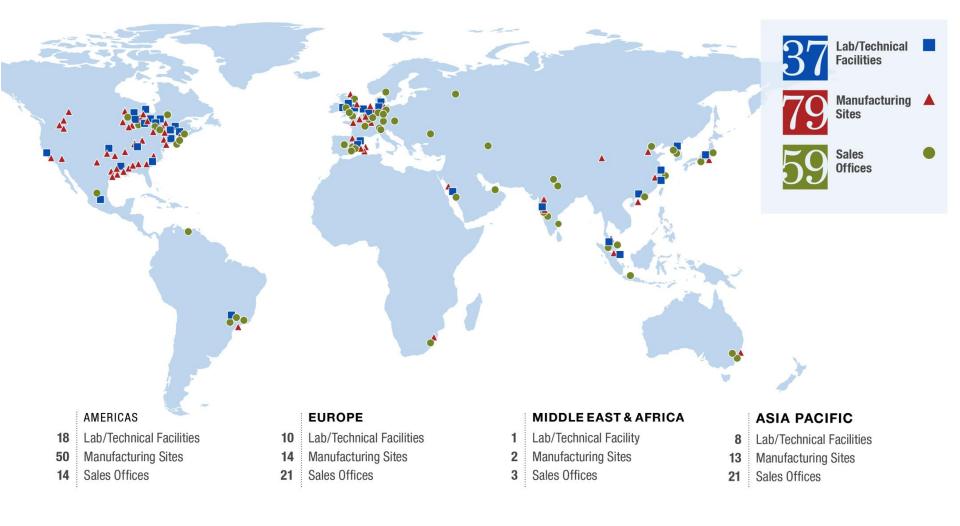
- Reinvest in our business thanks to strong record of financial success and sustained performance – 2014 Consolidated Revenue +\$7 Billion
- Owned by Berkshire Hathaway
  - Supports our commitment to continually reinvest in our business







## **Geographic Footprint**





# **Lubrizol Segments**

#### **Lubrizol Corporation**



Lubrizol Additives	Lubrizol Advanced Materials	Lubrizol Oilfield Solutions
<ul> <li>Engine Additives</li> <li>Driveline Additives</li> <li>Industrial Additives</li> <li>Fuel Additives</li> </ul>	<ul> <li>Engineered Polymers</li> <li>Personal and Home Care</li> <li>Performance Coatings</li> <li>CPVC Piping Systems</li> <li>Lubrizol LifeSciences</li> </ul>	<ul><li>Oilfield Chemistry</li><li>Pipeline Flow Improvers</li></ul>







# Lubrizol Advanced Materials in Belgium

#### Oevel :

- Estane<sup>®</sup> Thermoplastisch Polyurethaan: TPU
- TempRite<sup>®</sup> Vinyl Polymers : CPVC



#### Kallo :

- Production Carbopol
- Latex ®



#### Brussel :

HQ EMEAI (Shared Services)



#### Louvain-La-Neuve :

Lab Food and Personal Care





#### Lubrizol Advanced Materials Oevel







#### **Estane & Temprite Applications**

= BlazeMaster

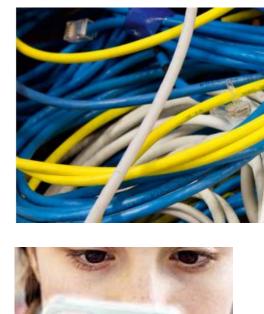
CORZAN

BlazeMaster =

FLOWGUARD GOLD

FLOWGUARD GOLD

**TempRite** 















## **Optimizing The Logistics Flow**

In November 2012 Lubrizol started a project for the Oevel Manufacturing Site in Belgium to jointly **seek opportunities of moving materials more efficiently** serving the "TempRite<sup>®</sup> Engineered Polymers" and "Estane<sup>®</sup> TPU" business segments where we ship about MT 70,000 to our Global Customers from this facility on an annual basis.

During the course of the project we **identified an opportunity** to improve the overall efficiency of transportation by moving these shipments by barge rather than by road to and from the port of loading.



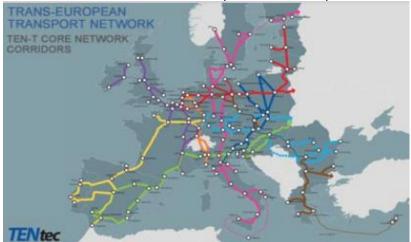




#### **External Challenges**

#### Road infrastructure

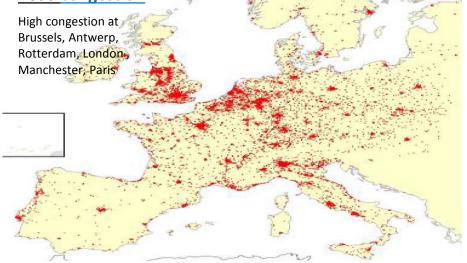
Current infrastructure insufficient to cope with current requirements



#### Climate legislation – 2050 transport roadmap

2020	• Establish a framework for a European multimodal transport information, management and payment system covering both passenger and freight
2030	<ul> <li>30% of road freight over 300 km should shift to other modes such as rail or waterborne transport, and more than 50% by 2050</li> <li>Fully functional and EU-wide core network of transport corridors, ensuring facilities for efficient transfer between transport modes by 2030, with a high-quality/capacity network by 2050 with corresponding IT services.</li> </ul>
2050	<ul> <li>Connect all core network airports to the rail network, preferably high-speed; ensure that all core seaports are sufficiently connected to the rail freight and, where possible, inland waterway system</li> <li>Move towards full application of "user pays" and "polluter pays" principles and private sector engagement to eliminate distortions, generate revenues and ensure financing for future transport investments.</li> </ul>

#### Road congestion

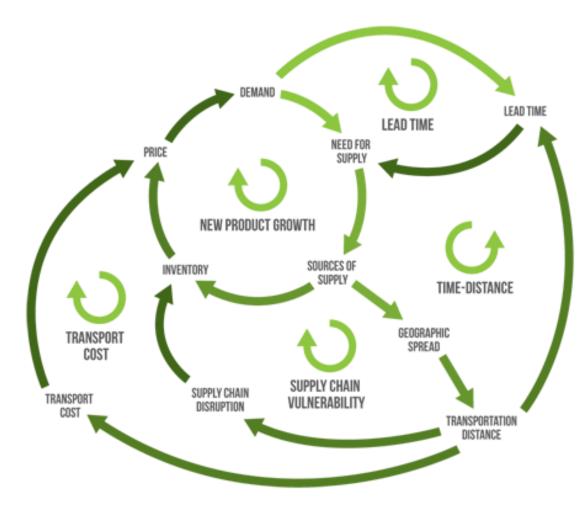


#### Carrier shipment reliability





## **Internal Challenges**



In- & Outbound	Europe
Legal Entities	6
Divisions	7
Ship to/from countries	+100
Logistics related suppliers	+100
Customers	+3000
DN's handled	+/-80000
LZ Ship to/from locations	+70
No of SKU's	+20
Material Codes	+/-8000

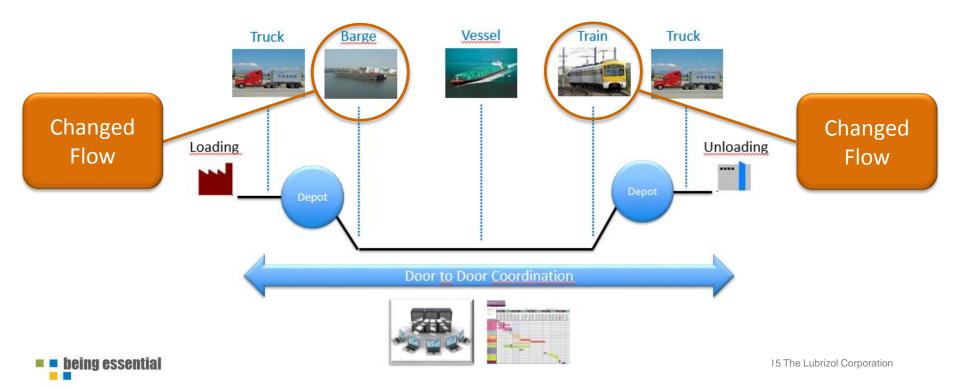




## The Path Forward

In order to bring this project to effect we had to identify a suitable partner which was able to not only bring the benefits we were seeking but at the same time was also able to assure :

- ✤ A proper execution
- Guaranteed high level service and tracking
- Interface with the different Steamship Lines





# Moving Materials by Barge

Here we found a **partnership with the "Beverdonk Container Terminal"**, part of DP World which was selected as the primary partner for Lubrizol to implement this project.





#### **Immediate Benefits**

- Save 159 MT on CO2 emission on an annual basis (reduction by 37%)
- Optimize the transportation cost (reduction by 8%)
- Better service offerings to Customer (multiple sailing departures)
- Overall workflow optimization :
  - Loading frequency at shipping/receiving locations
  - Less demurrage/waiting hours
  - Container depot availability
  - Further reinvestment opportunities at the Oevel site









### **Other Benefits**

The "Platform Kempen International" with members as Flanders Investment & Trade (FIT), Flanders DC, Thomas More University Kempen, Kogeka, Agentschap Ondernemen, Unizo Kempen, Belgian Chamber of Commerce and Belgian Chamber of Commerce VOKA Kempen, has **nominated Lubrizol Advanced Materials Europe BVBA** for winning "Export Company International" for its "Greener Logistics" within Europe as part of exporting international shipments.

Lubrizol won the award '2014 Kempen International' !









http://nnieuws.be/artikel/lubrizol-advanced-materials-europe-oevel-wint-de-prijskempen-internationaal-2014



# Thank you !



