

## Vopak prepares terminals for the future

Systems Navigator recommends operational improvements and infrastructure optimizations to several Vopak terminals in the Netherlands to increase terminal throughput without reducing service levels

DELFT; Dec. 9, 2016 - In order to prepare its terminals for the future Vopak selected Systems Navigator to advise on terminal optimization and process improvements. The expected performance of three terminals is investigated by means of multiple scenarios. The scenarios focus on expected future throughput and the expected waiting times per customer. A sensitivity analysis is used to find bottlenecks and to analyze the potential growth in throughput before investments in infrastructure are required to keep customer satisfaction high.

Multiple Vopak terminals are optimizing its infrastructure. Systems Navigator advised on the berth design taking into account future demand for all customers. Additionally, a recommendation on how to incorporate future maintenance on new jetties is provided to Vopak.

Another study was performed at one of the terminals in order to verify whether the current infrastructure provides enough capacity to process a larger number of throughput, and to devise measures to resolve potential issues, Systems Navigator used a dynamic simulation model of the Vopak Terminal.

The projects resulted in a deep insight in the current and future capacity of the terminals, debottlenecking of the terminals and recommendations for achieving better performance. Recommendations focused on changes in infrastructure and operations.

### **About Systems Navigator**

Systems Navigator is an independent consultancy company based in Delft, The Netherlands. Systems Navigator specializes in the design, development and implementation of planning and decision support solutions based on operations research technology. Our specific expertise is in using both discrete event simulation as well as optimization for decision support models that can predict system performance, as well as can be used for operational decision making by means of planning and/or scheduling. Systems Navigator successfully delivered over 80 projects for storage terminal companies worldwide.

### **About Vopak**

Royal Vopak is the world's leading independent tank storage company. We operate a global network of terminals located at strategic locations along major trade routes. With a history of 400 years and a focus on sustainability, we ensure safe, efficient and clean storage and handling of bulk liquid products for our customers. By doing so, we enable the delivery of products that are vital to our economy and daily lives, ranging from oil, chemicals, gases and LNG to biofuels and vegoils. Vopak is listed on the NYSE Euronext Amsterdam stock exchange and headquartered in Rotterdam, the Netherlands. Including our joint ventures, we employ an international workforce of more than 6,000 people.

To learn more about Systems Navigator, contact our office at +31 (0) 15 750 1030, email [info@systemsnavigator.com](mailto:info@systemsnavigator.com), or visit the website at [www.systemsnavigator.com](http://www.systemsnavigator.com).

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