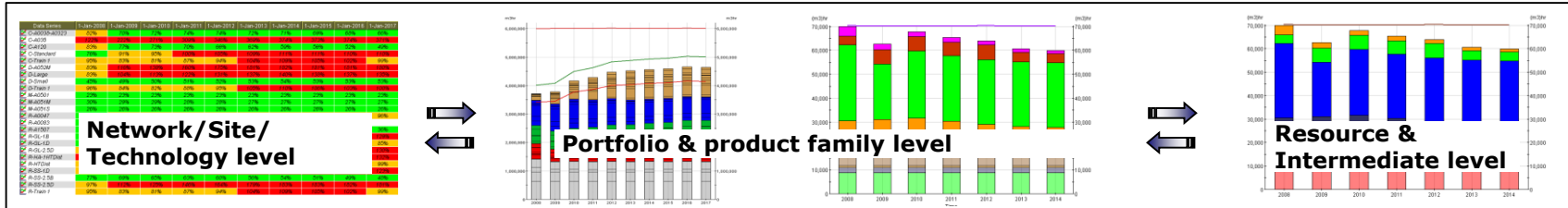


Chemicals Supply Network Balancing – Operations Strategy

Analysis → Portfolio insight across the complete network



Client Context:

- Multi-site chemicals and active pharmaceutical ingredients manufacturing business with locations in US and Europe.
- Demand on the network was increasing due to new products and cost pressures indicated a need to slim the network where possible.
- Client wished to create a model to manage capacity over a 5-7+ year horizon, better manage future uncertainty and facilitate decision making on future investments and network consolidation.

Outcomes:

- SmartChain built a sourcing simulation model of the entire portfolio and network over a period of 12 months.
- There was free capacity in the network, however this was not always in the correct place and not always the correct technology.
- While local capacity hotspots existed, we identified the need for an inter- and intra-site volume balancing plan to avoid short term risk of lost sales.
- Site investments were realigned with long term plan to balance the current and future capabilities with the future portfolio.
- Capital savings were in the order of 35M EUR on a single investment and sales at risk identified of >\$500MM in the mid-term.

Options

#	Assumption	Average Resource Utilization	Implications
1A	Gilomate will move after 2012 Talmate will move from US to Europe in 2010 Rimonev will move after 2010 Jumavir will move on Q1/2009 Loperole will stay in Europe	Very low	Still have some bottlenecks Asia capacity might be an issue
1B	Gilomate will move after 2012 Talmate will move from US to Europe in 2010 Rimonev will move after 2010 Loperole and Jumavir will stay in Europe	Low	Still have some bottlenecks Asia capacity might be an issue Early bottleneck in D-A052M (2009) due to Jumavir
2	Gilomate (HR) will move after 2012 Talmate will move from US to Europe in 2010 Rimonev will move after 2010 Jumavir, Loperole and Gilomate (RR) will stay in Europe	High	Still have some bottlenecks Need to evaluate options for C-Standard utilization Asia capacity might be an issue
3	Gilomate will move 1 of 3 campaigns after 2012 and another 1 after 2014 Talmate will move from US to Europe in 2010 Rimonev will move 1 of 3 campaigns after 2010 and another 1 after 2012 Jumavir and Loperole will stay in Europe	Very High	Still have some bottlenecks
4A	Loperole (PWS) will be moved out of Europe by 2010 Gilomate will move 1 of 3 campaigns after 2012 and another 1 after 2014 Talmate will move from US to Europe in 2010 Jumavir and Rimonev will stay in Europe	High	All bottlenecks can be solved
4B	Loperole (PWS) will be moved out of Europe by 2010 Gilomate (HR) will move after 2012 Talmate will move from US to Europe in 2010 Gilomate (RR), Jumavir and Rimonev will stay in Europe	High	All bottlenecks can be solved

Action Plan

STRATEGY EXECUTION DASHBOARD

