

## OpTech Bionic System Analytics Utilized an ERP System to Operationalize Financial Consolidation and Reporting Tools

### Background:

An Enterprise Resource Planning (ERP) system has multiple modules to manage finance, purchasing, projects, logistics, etc. In order to integrate all of these modules, transactions must be linked, resulting in lots of transaction level detail. Finance groups use financial consolidation and reporting tools to timely close and report out financial results. Unfortunately, the resulting summarized reports do not have the level of data needed by groups such as tax, budgeting, and planning.

### Problem/Approach:

Our analysis showed us that much of the granular data that would make a data warehouse very unwieldy could be eliminated by summarization. In order to do strategic summarization, we utilized big data techniques in our SQL Server Azure Cloud instance to pull fully summarized data sets from a data lake set up to capture the ERP detail. This eliminated the space normally required for staged tables and made our data tables very efficient.

### Solution:

OpTech Bionic System Analytics was able to create a manageable tax data warehouse by summarizing certain journal voucher or document types on a monthly basis by account, cost center, product group and other meaningful dimensions needed to understand the flow of transactions. Other manual or unique vouchers or documents were fully pulled into the warehouse. In this way, we have the granular data needed to explain unusual transactions. Of course, the integration vouchers and documents would remain in the ERP and could be drilled for later if necessary. Next we were able to use Microsoft business intelligence tools to provide the finance groups with self-serve cubes and dashboards.

### Value Add:

Our clients have used this data to operationalize their transfer pricing policies, created supportable headquarter bills to foreign subsidiaries, gathered data for State & Local Apportionment, Research & Development Credits and more.

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