DIVT

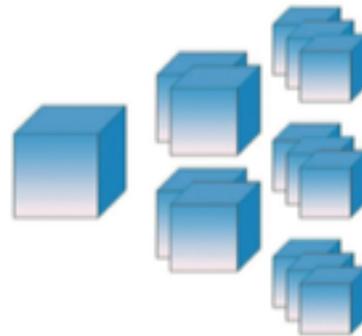## Data Extract, Normalization and Validation

The US government requires Earned Value on any project using government funds. DIVT is the core of an Earned Value management system toolset developed by a leading defense industry contractor. NBI provided development and QA experts for this multi-year project.

From kickoff to full deployment, our developers held key roles throughout the system's lifecycle. NBI also staffed managers, lead developers, and designers for many tools built around DIVT and the tool's predecessor.

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Project Discussion

DIVT is responsible for integrating data from custom internal sources using SQL Server, Oracle, SAP, and COTS tools (e.g. Microsoft Project). It provides normalization and cross-validation of the data as well as a rule-based system for checking compliance with government regulations.

The solution's data sizes spanned into hundreds of millions of rows, correlated more than 100 government programs, and loaded millions of rows in real time.

The system is extensible and allows new data sources to be added with relatively little additional development effort. New rules can be added with no development effort in the typical case.

DIVT also serves as the hub data source for a variety of reporting, dash boarding, and tooling scenarios. It was implemented using SQL Server, ASP.NET, SharePoint, SSRS, SSIS, and SSAS. In combination, these technologies provide online analytical processing (OLAP).