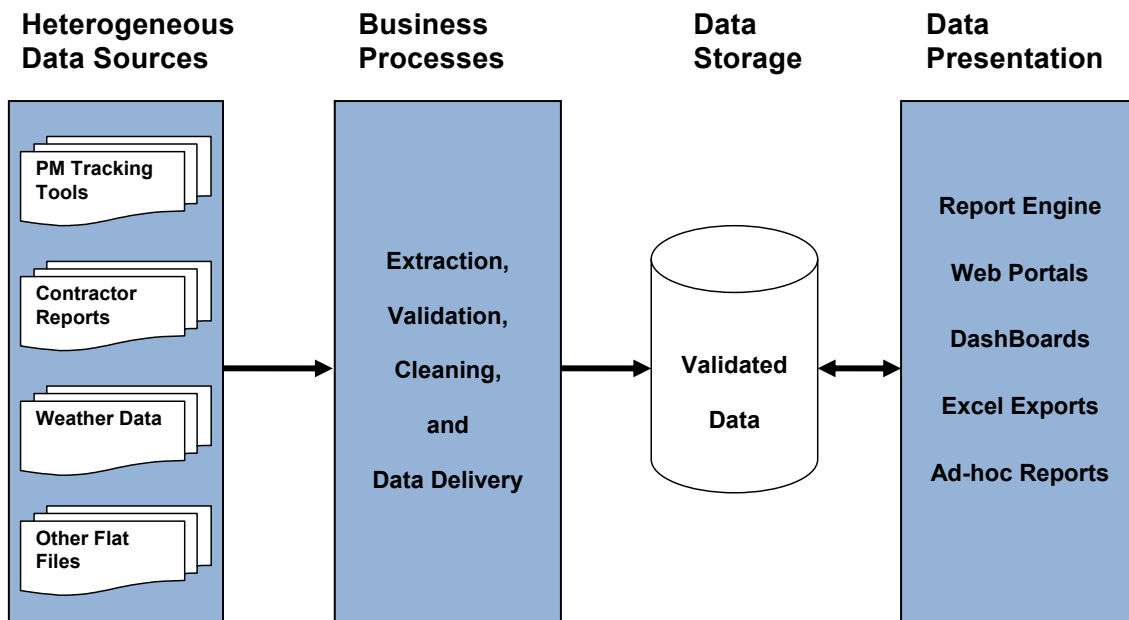V-TECH has developed E2DR®, a sophisticated software product suite that enables utility industry companies to implement, track and manage demand-side management program portfolios consisting of energy efficiency, demand response and renewable energy programs. V-TECH's software products and services enable our customers to use customized software applications to reduce overall costs, launch programs faster, improve management visibility and increase program effectiveness, all with no additional impact on their internal IT systems. V-TECH has a proven track record with a variety of industry clients. We have enabled client companies, through the use of our E2DR product suite, to rapidly develop and manage complex programs with an attractive ROI. ***With E2DR, our clients have managed over $500 Million of DSM programs and reported over 3 Billion kWh & 1,800 MW of savings to date.***

Based on an in-depth understanding of utility industry energy efficiency, DSM and renewable energy programs, V-TECH has developed the E2DR family of products consisting of proven and flexible product modules that can be readily customized and implemented to meet the client's particular needs. The overall architecture of the E2DR product suite is presented below:

Heterogeneous Data Sources	Business Processes	Data Storage	Data Presentation
PM Tracking Tools	Extraction, Validation, Cleaning, and Data Delivery	Validated Data	Report Engine
Contractor Reports			Web Portals
Weather Data			DashBoards
Other Flat Files			Excel Exports
			Ad-hoc Reports

The E2DR product suite architecture is designed to manage and automate data capture, perform analysis and reporting, and ensure compliance and program oversight. The product accepts data from a variety of sources and integrates that data into a single database, simplifying reporting and data management. The utility's outside implementation contractors and internal program managers provide program data at a frequency defined by the utility. The data is then run through a series of automated checks and is finally approved by the utility's program manager and the program contractor, ensuring accurate and complete data is delivered to the DataStore. As a hosted solution, the system has state of the art security and full compliance with major industry regulations: it's hosted in a SAS 70 Type II certified facility, has multiple direct carrier connections to the Internet, has managed firewall and backup service, and is compliant with HIPPA, SOX, FISMA and GLBA.

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DataStore™
Integrated program information database with Web applications &
processes plus sophisticated input, query and reporting capabilities that:
- Unifies all project *data from multiple sources* in consistent form and format
- *Has customizable role-based access* to data, approvals, and reports
- Is a *scalable hosted solution*: needs no client IT investment or staff resources
- Enables immediate program launch & ramp-up
- Streamlines data collection, analytics, approvals, and reporting
- Has built-in data QC, time-stamped audit trail and regulatory compliance
- Is a consistent data source for M&V
- Is reliable, repeatable and available 24/7

DashBoard™
A drill-down graphical project information presentation that:
- Is a graphical tool for presenting project performance
- Provides role-based results formatted for executives, PMs and implementation contractors
- Delivers portfolio views and performance dashboards with drill down to fine detail views
- Provides timely & actionable information
- Has "on-the-fly" report generation

EnvCTR™
Cloud-based system for meeting environmental compliance reporting requirements
- Handle all environmental reporting requirements for equipment located in multiple facilities
- Provides readily customizable reporting of energy consumption, equipment run-times, emissions and other targeted compliance reporting
- Enable meeting environmental and air quality permitting compliance regulations.

DSPrime™
Simplified SaaS version of the DataStore for clients with smaller program portfolios
- Handle data input, tracking and reporting for one or more programs
- Easy online sign up process for setting up program(s) for tracking and reporting
- No licensing fees or long term recurring costs
- All of the key features of the full product at a fraction of the price

DataPro™
A flexible system to track, approve and report on program applications
- Handle program applications from multiple utility territories
- Automatic validation using customizable criteria
- Dynamic calculation of rebates and energy savings as defined for each program
- Generate reports at single program, multiple programs, and complete portfolio levels

DataSiteRE™
An online tracking and graphical visualization of multiple Renewable Energy (RE) resources that:
- Is a dedicated online repository for renewable energy information
- Displays real-time performance as well as historical data
- Is scalable a single city to an entire service territory or even statewide
- Tracks residential installations, commercial facilities and utility scale sites
- Presents summary overview or site by site details

modelTRC™
A financial model to determine project cost effectiveness that:
- Performs total resource, utility, participant, ratepayer impact and societal cost tests
- Includes a variety of models to handle different levels of detailed calculations
- Can be used on individual programs or entire portfolios
- Can run what-if scenarios for sensitivity analyses