Conquer your Data Challenges
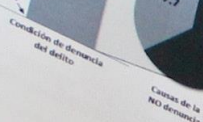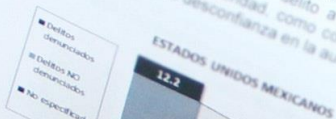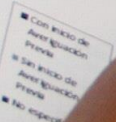
Data OPS Services

Data analytics has become business critical, but requirements quickly evolve and data analytics teams that respond to these challenges in the traditional ways often end up facing disappointed users. As a CDO, VP or Director in charge of Data and Analytics it is your job to help your business partners drive growth and analytics plays a key role. Do you find yourself thwarted by these challenges?

Too Much Work
You cannot keep up with the requests from your business partners and they are getting frustrated.

Data Errors
Data will eventually contain errors, which can be difficult to resolve quickly.

Bad Data Ruins Good Reports
When data errors work their way through the data pipeline into published analytics you lose credibility.

The Goalposts Keep Moving
Requirements from sales, marketing and executives change constantly and the requests for new analytics never cease.

Multitude of Tools
Your shop uses numerous tools, languages and technologies.

Data Maintenance Never Ends
New/updated data source, schema enhancement, improvement or other change triggers an update consuming 80% of your team's time.

Manual Process Fatigue
Manual procedures for data integration, quality assurance and deployment of new analytics are error prone, time-consuming and tedious.

Cloud Technology
The cloud offers significant benefits, but migrating to the cloud is a daunting task.

DataOps offers a more effective approach that optimizes the productivity of the data analytics pipeline by an order of magnitude. DataOps is a tools and process change that incorporates the speed of agile software development, the responsiveness of DevOps, and the quality of statistical process controls (SPC) widely used in manufacturing.

Like Agile development, DataOps organizes the team and its processes around the goal of publishing releases to users every few days or even every few minutes. Each release contains working and valuable changes to the code base. Improvements are made and published quickly and feedback from users is incorporated into future releases as soon as possible. This approach is particularly good for non-sequential analytics development where requirements are quickly evolving.

Like DevOps, DataOps utilizes the automated provisioning of resources (infrastructure as code) and cloud services (platform as a service) to break down the barriers between IT, software development, quality assurance and other groups. The cloud provides a natural platform that allows individuals in each stage of development to create and define identical run-time environments. This minimizes errors, misunderstandings and delays.

Data-analytics is a pipeline process much like software development and manufacturing. It executes a set of operations and attempts to produce a consistent output at a high level of quality. With DataOps this pipeline is highly automated. Statistical process controls are used to test, monitor and manage the robustness and consistency of each stage of the data analytics pipeline.

Some Facts

- Globally more than a quarter (27%) have a DataOps initiative, 43% do not, and 30% have been experimenting.

- The biggest benefit of DataOps is "faster cycle times"

- The biggest challenge of DataOps is "establishing formal processes"

- The most common use case for DataOps is "data warehouses and marts" (66%), followed by "reporting and dashboards" (60%), and "self-service analytics" (56%).

- Most customers experience more than six errors a month, defined as incorrect data, broken reports, late delivery, and customer complaints.

- The DataOps mindset has to have a laser focus on continuous improvement.

Imagine the next time that the Vice President of Marketing requests a new data segmentation, by tomorrow. With a DataOps Service partner, your team can respond 'yes' with complete confidence that the changes can be accomplished quickly, efficiently and robustly. To support you in this process, you need a robust DataOps Services partner with packaged data solutions who can help you with:

• Execution of the data pipeline (orchestration) to keep the data up-to-date

• Deployment of new analytics

• Testing and monitoring of data quality

• Management of development and production environments

• Source-code version control

• Data Operations reporting and dashboards

3i Infotech has been providing Data Ops Services for over 20 years to customers across the globe, and our Data Ops Services will help you conquer the eight challenges.

MOMENTA DECISION STREAM

Packaged Product
Caters to End to End Data Management
Connect to over 200+ Sources
Integrate, Organize and Analyse Data

END TO END DATA OPS SERVICES

Data / Big Data / Analytics Monitoring
Data Integration Monitoring
Data Platform Configuration Management
Data Platform Security Management
Data Implementations

DATA CONSULTING

Data and Analytics Consulting
Goals Mapping
Short Term and Long Term Plans

Key Benefits

• Packaged DataOps Platform – "Momenta Decision Stream" - to modernized your Data and Analytics landscape - 50% TCO Reduction and 30% Productivity Increase

• Speed up processes and increase quality by providing streamlined data analytics pipelines via deep levels of automation and testing.

• Increase the value proposition of data and analytics by industrializing processes.

• Establish a culture of continuous improvement and collaboration.

• Support the management and orchestration of complex data landscapes.

• Operationalize data science to provide more value to the business.

CALL TO ACTION

DataOps can accelerate the ability of data-analytics teams to create and publish new analytics to users. It requires an agile mindset and must also be supported by an automated platform which incorporates existing tools into a DataOps development pipeline. A well-designed data-analytics pipeline can serve as a competitive advantage for data-driven organizations.

For more information about how you can sharply improve the responsiveness and value of your data, please contact us:

REACH US

If you would like to know more about our end-to-end services and how they can empower your business, please write to us at altirayitservices@3i-infotech.com or marketing@3i-infotech.com

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