

A black and white photograph of two industrial workers in a control room. In the foreground, a worker wearing a white hard hat and a dark jacket is seen from the side, looking at a computer monitor. The monitor displays a complex industrial process diagram with various colored lines and data points. In the background, another worker wearing a white hard hat and a plaid shirt is also looking at a monitor, with their hand near their face in a thoughtful pose. The background is filled with industrial equipment and pipes, creating a sense of a busy, technical environment.

# AVEVA PI Sytem Development Service



PIPER Solutions es una empresa que ayuda a transformar los datos operativos de sensores, actuadores, equipos, DCS y Sistemas de control, en información. Conectando personas, procesos y activos con conocimientos que les permita el análisis y la toma de decisiones oportuna, optimizando los procesos y costos operativos.



Brindamos además, servicios relacionados con la gestión, mejoramiento, implementación, actualización y soluciones relacionados con AVEVA PI System. Este grupo de soluciones de AVEVA permite la transformación digital a través de datos de operaciones confiables y de alta calidad. Recolecte, mejore y entregue datos en tiempo real en cualquier ubicación. Dele más conocimiento a ingenieros y operadores. Acelere el trabajo de los analistas y científicos de datos. Apoye nuevas oportunidades comerciales.

### **You will be able to create customized Reports and Dashboards:**

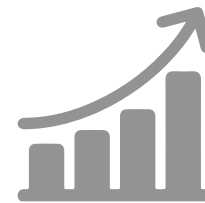
The main objective of this service is to create custom reports required by the customer, using OSIsoft's visualization tools. The scope of this package is limited to the construction of PI Processbook, PI Datalink and PI Vision Displays, as well as the development of analysis in PI AF and custom controls for PI VISION.



Users will be able to create **interactive dashboards** about their relevant processes with real time data



**Equipo capacitado:** Ingenieros capacitados y certificados por OSIsoft lo guiarán para sacarle mejor provecho de su PI System.



**Experiencia:** Con más de 6 años de experiencia manejando incidencias, sabemos incluso qué temas puede traerle dificultades.



**Global:** Este servicio está a su disposición para cualquier parte del mundo.





Your Problems  
are our Priority



1

**Clear data visualization:** Dynamic reports and Dashboards provide a clear visual representation of data relevant to your business. This facilitates the understanding and analysis of information, allowing you to make informed decisions.

2

**Real-time access to data:** PI System is known for its ability to collect and store data in real time. By using this system to develop your reports and dashboards, you will have immediate access to up-to-date information, allowing you to quickly identify problems, trends or emerging patterns.

3

**Customization and flexibility:** The dynamic report and dashboard development service allows you to customize your data visualization according to the specific needs of your business. You can select which indicators or metrics to show, how to organize the information and what type of graphs or tables to use. This gives you the flexibility to adapt the presentation of data to your business model and preferences.

4

**In-depth analysis:** Dynamic reports and dashboards not only show the data, but also allow you to drill down into the information. You can use built-in analysis tools to explore the data in more detail, apply filters, make comparisons, detect anomalies and uncover hidden relationships. This helps you gain valuable insights and better understand your business performance and trends.





5

**Key KPI monitoring:** KPIs (Key Performance Indicators) are key metrics that help you evaluate your company's performance. The reporting and dashboard development service using the PI System allows you to closely monitor your KPIs, set targets and track progress in real time. This helps you quickly identify areas for improvement and take corrective action in a timely manner.

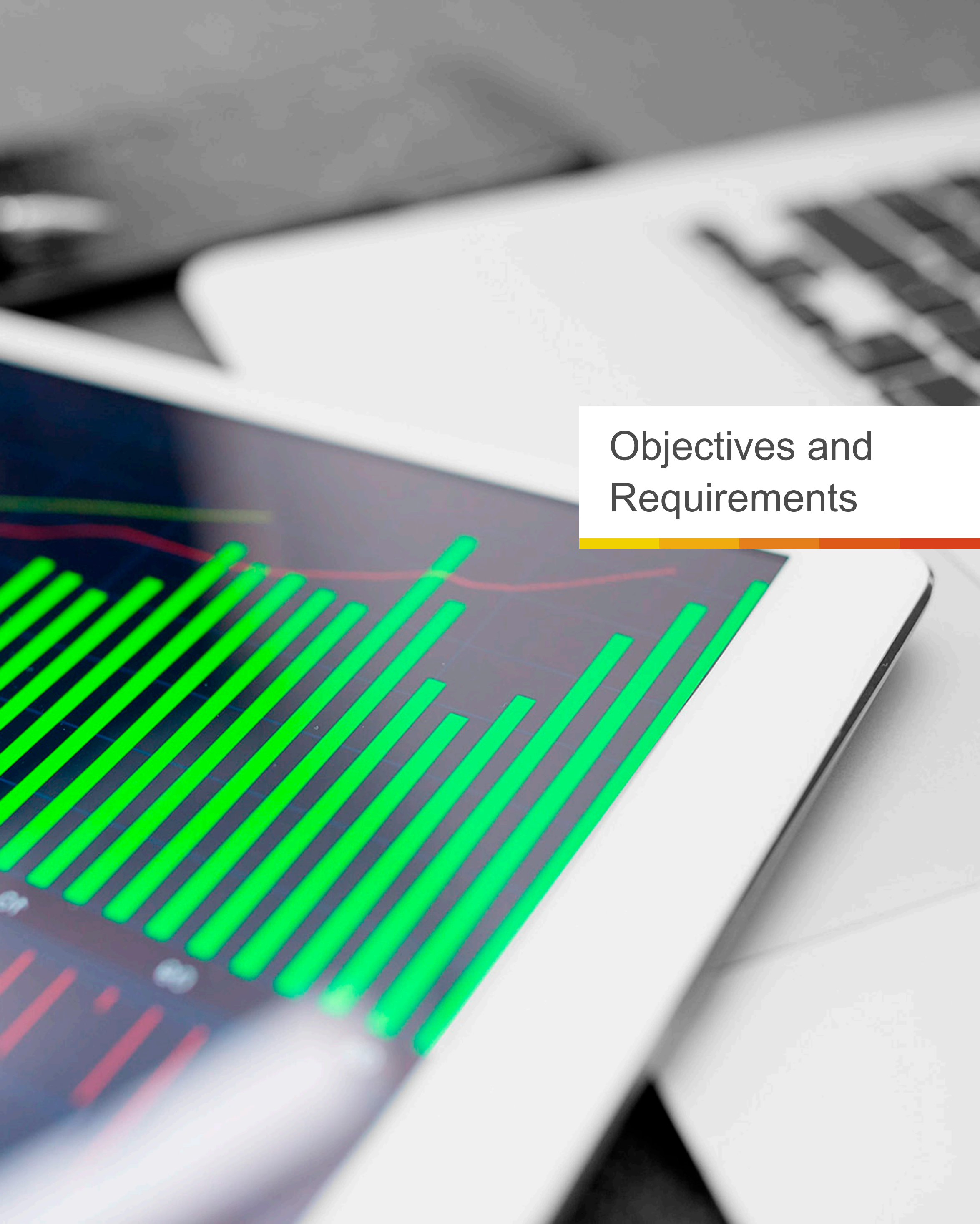
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**Report automation:** By using the PI System to develop your reports, you can automate the generation and distribution of reports. This saves time and effort by eliminating the need to manually collect data and create periodic reports. You can schedule automatic reports and receive them in your inbox or share them with other members of your team, making it easier to collaborate and make decisions based on accurate, up-to-date data.

7

**Improved operational efficiency:** With quick access to relevant data and advanced analytics tools, you can identify opportunities to improve your company's operational efficiency. Dynamic reports and dashboards allow you to optimize processes, track asset performance, manage energy more efficiently and take proactive steps to reduce costs and improve productivity.





## Objectives and Requirements



## Scope of the Reporting Service

### Part I

PIPER will verify the list of requirements before starting the service. This is the only way we will be able to provide guidance on the best tools and types of reports recommended according to the client's requirements. Finally, we will provide a document on the scope of the reports to be developed, detailing the delivery dates.

### Part II

Analyses will be performed in Asset Frameworks and custom PI Vision symbols, if necessary in both cases. Our reporting service leverages PI Processbook's ability to generate visual and understandable reports, giving you a clear view of your key data and results. With an intuitive and flexible interface, you can design interactive dashboards and trend panels that reflect exactly what you need to monitor and analyze. PI Vision allows you to access your PI System data from any device, anywhere. With an easy-to-use web-based interface, you can explore and visualize data in real time, create customized dashboards, and share information with your team. Finally, with PI DataLink, you can perform more detailed analysis, perform complex calculations, and create custom reports with ease.

### Part III

**Development Report:** We will deliver a detailed report summarizing the entire development process. We will provide a complete description of the initial requirements, design and

development stages, technologies used, and decisions made during the process. Functionalities implemented and challenges overcome to serve as a valuable reference.

**User Manual:** Our service includes a comprehensive and easy-to-follow user manual, a clear and concise guide to efficiently use the generated reports. In addition, tips and best practices are included to take full advantage of the advanced features of PI Processbook, PI Vision and PI DataLink, as well as the benefits of the Asset Framework.

**End-user training:** We offer hands-on, customized training sessions for end-users. These sessions are tailored to the needs of each team and range from basic concepts to advanced features. Our trained engineers will be available to answer questions and provide assistance throughout the training process.

## Reporting Service Requirements

Each component of the PI system must be installed and functional before development begins. In addition, you must provide a configuration station with Microsoft Excel.

In case the service includes PI Vision reports, the client must enable a remote connection to a client station within the company (via software allowed by the client's organization policy).

The customer must have a document with the scope and details of the reports to be developed, this document must describe each report, including a description of how the data is to be calculated and how it is to be displayed.

The client must be available to provide access to

the system during the audit (AVEVA PI System, Security, Network and Control Systems). The customer must also have a valid account on the Aveva support website with permission to download the required software. This account is also required to generate the license file for PI Data Archive.

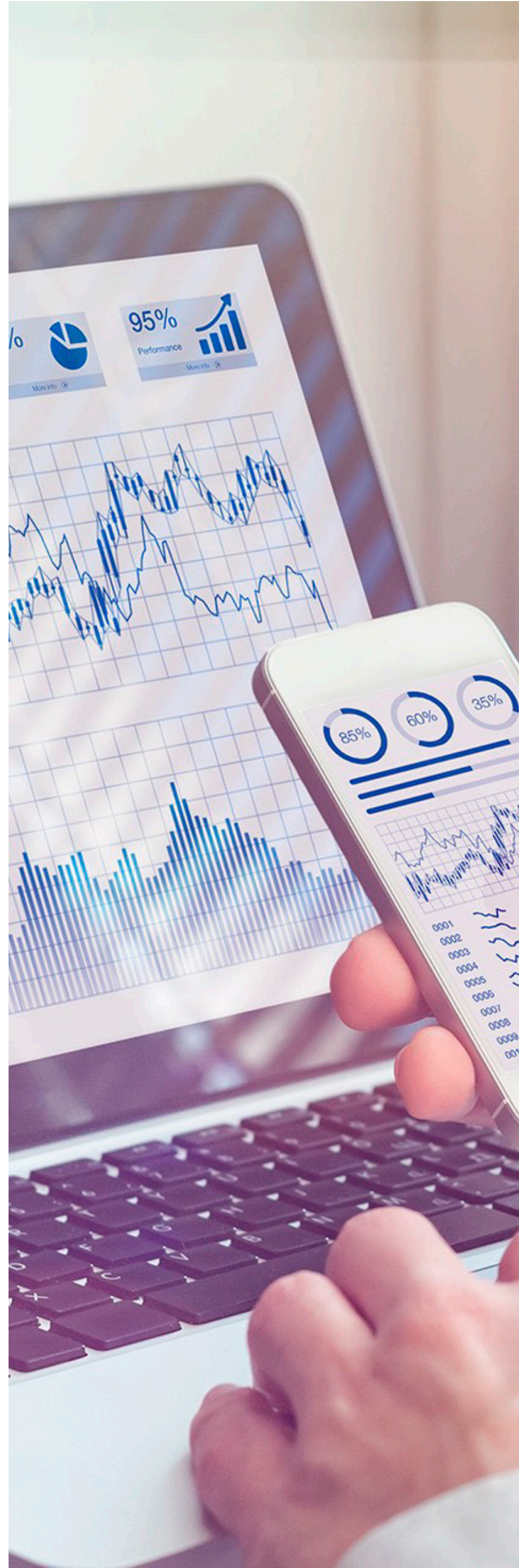
### Estimated Time of Service

Report development dates will be mutually agreed upon after formal acceptance of the service. The development process, from request to completion, normally takes 3 phases:

**Phase 1:** Communication of prerequisites, quick review of PI Data Archive, PI Asset Framework, AVEVA PI Processbook, PI Vision and PI Datalink versions.

**Phase 2:** Development of applications remotely by PIPER (Time depends on the number and complexity of each application).

**Phase 3:** Implementation of applications and training for end users.







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