

# Case Study

Modernizing Data for Pratt & Whitney  
with i3solutions' web-enabled  
Proposal/ROM Valuation Tool (PRVT)

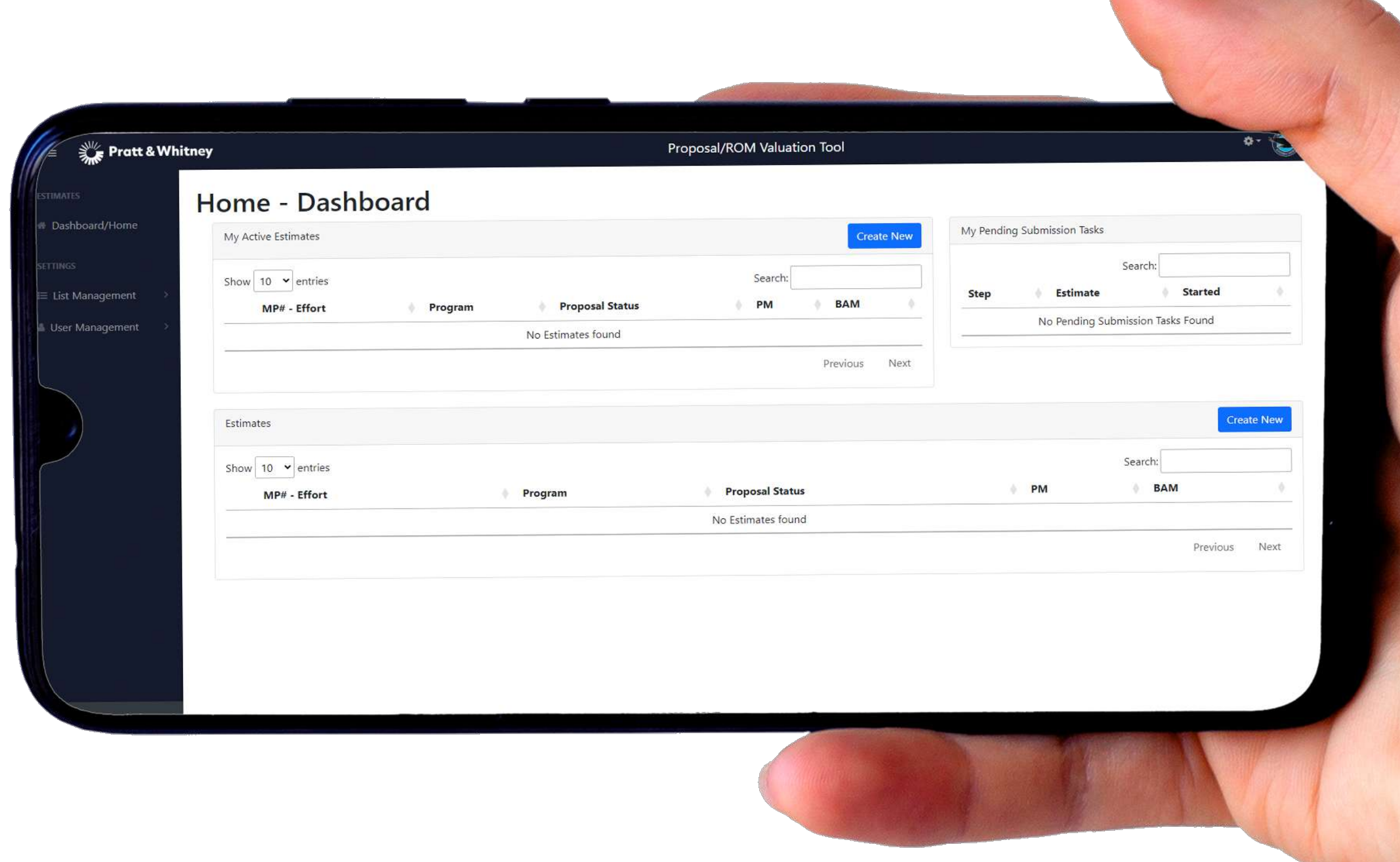


## The Customer

And Their Challenge

Pratt & Whitney is a renowned aerospace manufacturer specializing in the design, production, and service of aircraft engines, including both commercial and military applications. They are known for their cutting-edge technology and innovation in the aviation industry, providing reliable and high-performance propulsion systems for a wide range of aircraft. Despite their cutting-edge technology and market leadership, Pratt & Whitney faced a critical challenge: an outdated

Proposal/ROM Valuation Tool (PRVT) that relied on cumbersome Excel spreadsheets. As the data volume and complexity continued to grow, the limitations of this tool became frustrating for their teams. Their access, security, functionality, flexibility, and user experience were all compromised. They recognized the urgent need to transform this outdated system into a modern, web-based solution.

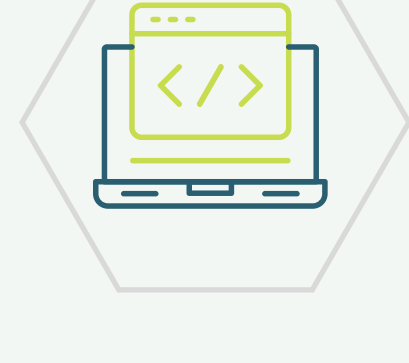


## The Solution

A Web-enabled Proposal/ROM Valuation Tool (PRVT)

i3solutions stepped in to revolutionize Pratt & Whitney's outdated processes. Leveraging the power of the Microsoft Stack for web application development, we designed and executed a brand-new web-enabled PRVT. This modern data management tool has addressed Pratt & Whitney's challenges and improved efficiency and accuracy in various business processes.

## Key Features



### Enhanced Accessibility

The new web application provides secure access from any device with an internet connection, ensuring that Pratt & Whitney's teams can collaborate effortlessly and share vital information anytime, anywhere.



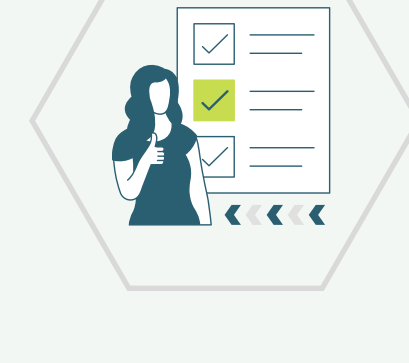
### Improved Accuracy

Transitioning from spreadsheets to a web-based tool enhances accuracy by reducing the risk of version control issues and human errors, while also providing automated validation and data integrity checks.



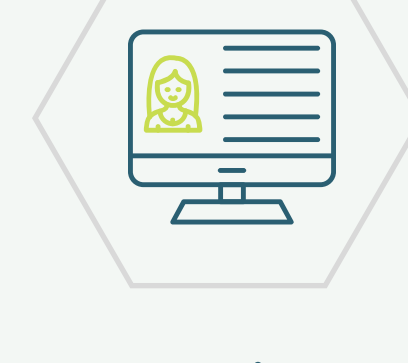
### Seamless Integration

The new PRVT seamlessly integrates with other web-based tools and services resulting in streamlined workflow processes and a reduction in manual tasks.



### Flexibility and Customization

Unlike the Excel-based system, this web application is highly flexible, allowing easy customization and updates. Users no longer needed to download or install new versions to stay up-to-date, making it far more adaptable to Pratt & Whitney's evolving needs.



### User-Friendly Dashboard

The intuitive dashboard provides the ability to add, view, edit, compare, and approve estimates in real-time. It also features a reporting capability for role-based standard or custom reports that improve real-time decision making capabilities.

## Technologies

Used in the Solution

i3solutions harnessed a set of cutting-edge technologies to deliver the web-enabled PRVT:



ASP.NET is the foundation of the application, ensuring robustness and reliability.



jQuery enhances the user interface and interactivity.



Razor Application using MVC provides a modern and efficient structure for web development.



Xunit and MOQ unit tests guarantees the software's quality and reliability.



Entity Framework streamlines data access and management.



SQL Server 2022 provides a secure and efficient database solution.

Type	Y2024	Y2023	GrandTotal
Labor Hours	1,200	1,200	2,400
Labor Cost	\$75,780.00	\$78,060.00	\$153,840.00
Material Cost	\$0.00	\$0.00	\$0.00
Subcontract Cost	\$0.00	\$0.00	\$0.00
Other Cost	\$0.00	\$0.00	\$0.00
Travel Cost	\$0.00	\$0.00	\$0.00
Interdivisional Cost	\$0.00	\$0.00	\$0.00
Dir's - Esc	\$75,780.00	\$78,060.00	\$153,840.00
Labor Overhead	\$71,991.00	\$74,938.00	\$146,929.00
Material Overhead	\$0.00	\$0.00	\$0.00
Other Overhead	\$0.00	\$0.00	\$0.00
Travel Overhead	\$0.00	\$0.00	\$0.00
O/H Subtotal	\$71,991.00	\$74,938.00	\$146,929.00
Sub GSA Cost Base	\$147,771.00	\$152,998.00	\$300,769.00

## i3solutions Followed an Agile Development Process

i3solutions adopted an Agile approach to develop the PRVT which allowed us to adapt to changing requirements and priorities with a swiftly, fostering greater flexibility and enhanced communication, and faster iterations, i3solutions delivered a solution tailored to Pratt & Whitney's exact business needs.

ResourceName	CostCenter	ResourceClass	ResourceType	Dir/Und	ResDescrip	OverheadBurderPool	2021	2022
0214	301236	ENGMILTY	LABOR		J5F Field Services - International	ENGMILITARY	64,080,000,000	97,490,000
0382	304048	ENGMILTY	LABOR		Adaptive Engines Programs DIRECT	ENGMILITARY	58,420,000,000	117,000,000
0384	304064	ENGMILTY	LABOR		MDP Strategic Recon & Strike Prgms	ENGMILITARY	94,550,000,000	152,680,000
0552	304008	ENGCORE	LABOR		CMC Technology Hrly	ENGCORE	49,300,000,000	69,410,000
0830	303145	ABSI TEST	LABOR		SEV Inspection Services	GOV_AJ_LBR	69,530,000,000	101,840,000
0860	300834	ABSI TEST	LABOR		0860 MC OD Dress	GOV_AJ_LBR	69,700,000,000	99,400,000
0863	300968	ABSI TEST	LABOR		SEV Dimensional Insp, Calibration & NDT	GOV_AJ_LBR	69,600,000,000	102,290,000
0874	300762	ABSI TEST	LABOR		0874 MC Sensor & Probe Labs	GOV_AJ_LBR	69,590,000,000	100,280,000

## Measurable Benefits and Business Impact

i3solutions' modernization of Pratt & Whitney's Proposal/ROM Valuation Tool has eliminated Pratt & Whitney's challenges in several key areas:



### Streamlined Estimating Process

The web-enabled PRVT significantly streamlined Pratt & Whitney's estimating process, reducing manual work and enhancing overall efficiency.



### Improved Productivity

The advanced features and user-friendly interface improved overall productivity. Teams can collaborate seamlessly, leading to faster and more accurate results.



### Increased Adaptability

The flexibility of the new system allows Pratt & Whitney to quickly adapt and make changes without disrupting daily operations.



### Enhanced User Experience

With a more intuitive interface and real-time updates, users have experienced a substantial improvement in their work environment.