



Innovation Support Platform (ISP)

TECHFINITE
SYSTEMS



INNOVATION SUPPORT PLATFORM (ISP)

White Paper

Purpose of the White Paper

This whitepaper presents Techfinite's capabilities and technical approach to supporting the Centers for Medicare & Medicaid Innovation (CMMI) in the implementation of the Innovation Support Platform (ISP). Our goal is to demonstrate our expertise in maintaining, modernizing, and enhancing the ISP to align with CMS's mission of promoting innovation, transparency, and efficiency in healthcare delivery.



Background and Context



The ISP serves as a critical infrastructure for CMMI, providing a centralized data exchange and analytical environment to support various healthcare models. It requires robust data integration, real-time reporting, and secure data handling to meet CMS standards.

Techfinite, with its extensive experience in healthcare IT, is well-positioned to contribute to the platform's success.

Objectives



Optimize ISP Infrastructure:

Enhance the performance, scalability, and reliability of ISP systems.



Ensure Data Integrity:

Maintain accurate, consistent, and secure data exchanges.



Support Model Innovation:

Enable the seamless integration of new healthcare models.



Promote Operational Efficiency:

Streamline processes through DevOps and automation.

Key Technical Goals and Solutions

01 **Maintain the eDFR Application for Six Models**

Task: Support ongoing operations and enhancements of the eDFR application.

Challenges

- Ensuring dashboards remain up-to-date with practice care delivery measures.
- Integrating data from disparate systems for consistent reporting.

Techfinite's Approach:

- Implement standardized data collection processes.
- Utilize modern API frameworks for seamless data integration.

Potential Impact:

- Misaligned policy measures due to outdated dashboards.
- Inaccurate understanding of financial impacts on healthcare providers.



Benefits:

Improved data quality and validation

02

Maintain the HDR Application

Task:

Oversee the HDR application's functionality and adaptability to evolving model requirements.

Challenges:

- Handling varying clinical data formats across models.
- Establishing consistent validation rules across different teams.

Potential Impact:

- Delayed decision-making and compromised care quality.
- Risk of inaccurate model performance insights.

Techfinite's Approach:

- Integrate Agile and Human-Centered Design (HCD) methodologies.
- Develop a unified data validation framework.



Benefits:

Faster and more reliable model adjustments

03

Enhance DevOps Practices

Task:

Streamline development and operational processes for better model delivery.

Challenges:

- Fragmented CI/CD pipelines across applications.
- Manual processes increasing operational overhead.

Potential Impact:

- Slower application releases and increased development costs.

Techfinite's Approach:

- Adopt automated CI/CD pipelines using Kubernetes and Jenkins.
- Implement Infrastructure as Code (IaC) for consistent deployments.



Benefits:

Reduced manual errors and optimized resource allocation

Innovation and Modernization Strategies



Cloud Migration and Optimization:

- Transition legacy applications to AWS GovCloud to enhance scalability and security.
- Use serverless computing to manage fluctuating workloads efficiently.



AI-Driven Insights:

- Deploy machine learning algorithms to identify trends and anomalies. Use
- AI-based predictive analytics for better decision-making.



Enhanced Data Interoperability:

- Integrate FHIR and HL7 standards for streamlined communication.
- Employ event-driven architectures for real-time data synchronization.



Proven CMS Track Record:

- Extensive experience with CMS healthcare models.
- Successfully delivered cloud-native applications for CMMI.



Technical Excellence:

- Proficiency in AWS, Azure, and DevSecOps practices.
- Strong background in data engineering, cybersecurity, and predictive analytics.



Commitment to Partnership:

- Collaborative approach with CMS and partner organizations.
- Adaptive strategies to meet evolving healthcare needs.

Conclusion

Techfinite's comprehensive understanding of ISP's requirements, combined with our innovative technical capabilities, positions us as a reliable and strategic partner for CMS. We are committed to enhancing ISP's infrastructure, improving data integrity, and supporting healthcare innovation through modern technology solutions.

Next Steps:

- Schedule a detailed discussion with CMS stakeholders.
- Present our technical approach and past successes.
- Collaborate on refining ISP's future roadmap.

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