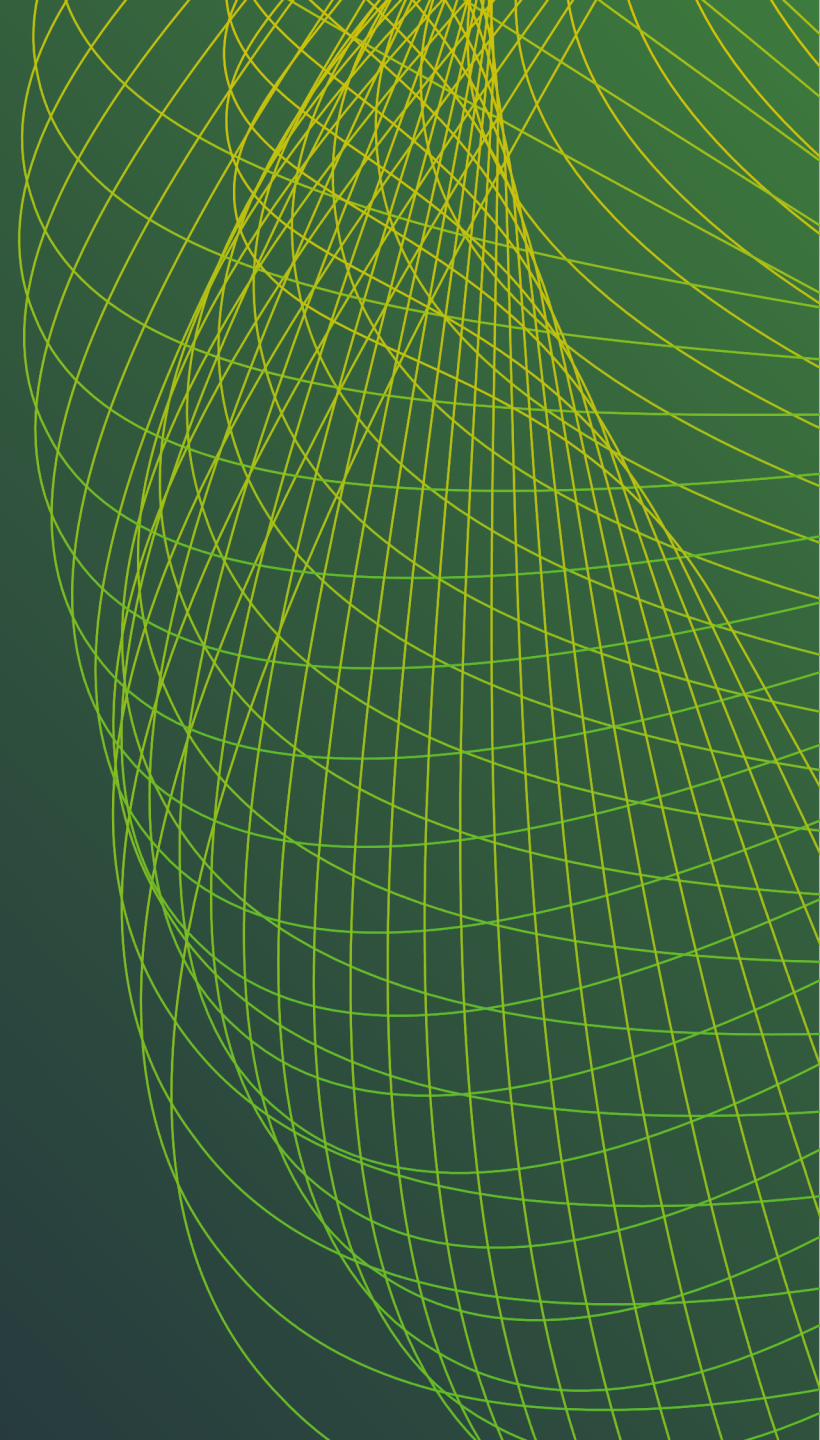




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MAY 4, 2021





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FSI501

How AWS is innovating to support its Financial Services customers

John Lucking

Principal Solutions Architect, AWS



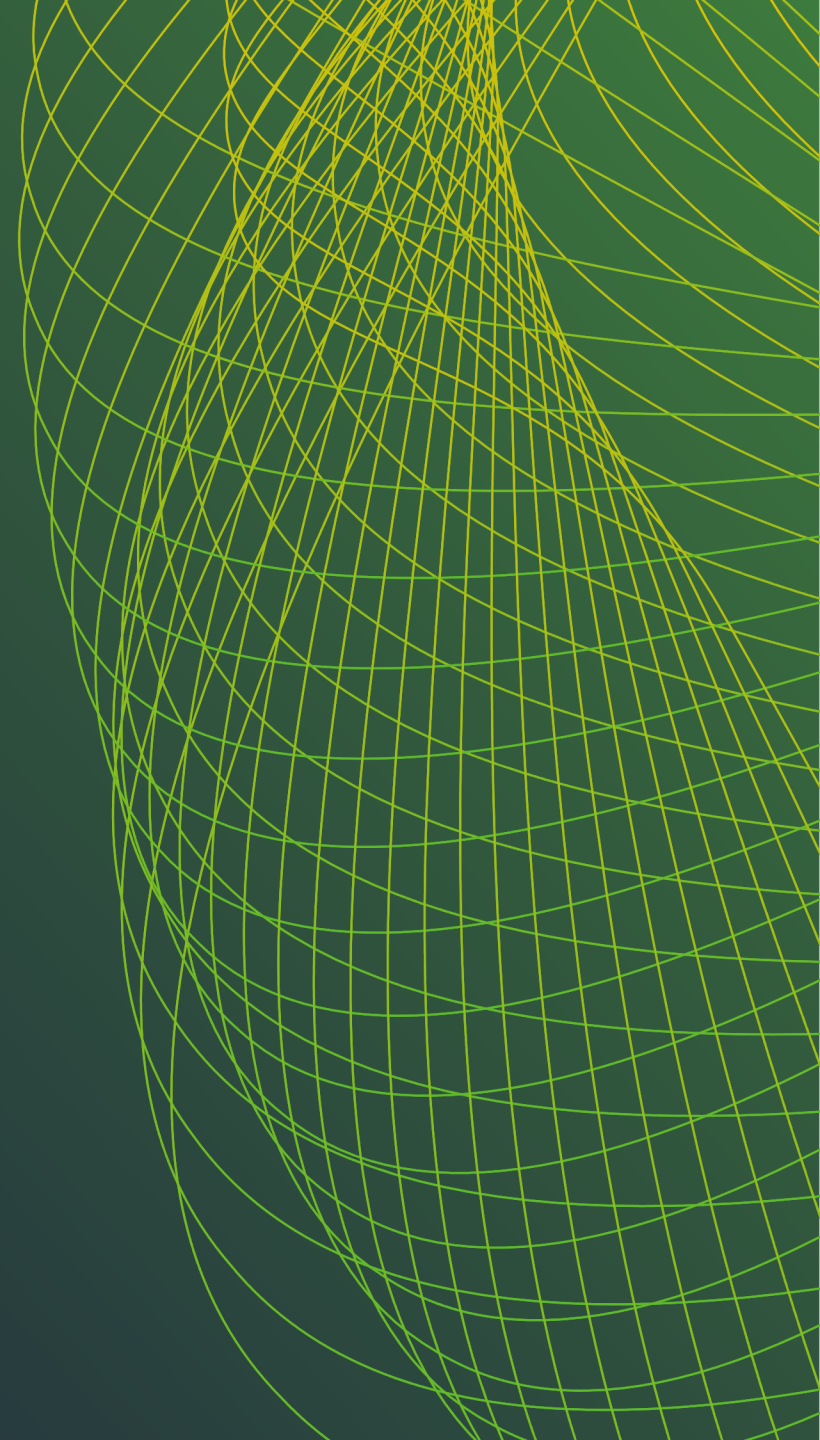
Agenda Layout

- ✦ How to learn and innovate with AWS
- ✦ FSI customer needs: Foundational, Data, AI/ML
 - Foundational: Governance, Compute and Deployment
 - Data: Collect, Cleanse, Consume
 - AI/ML: Reduce the 80% and add real value



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How to learn and innovate with AWS



At AWS, we're always innovating on behalf of our customers

New services and features:



“ You don’t have to know everything. You just have to know where to find it. ”

Albert Einstein

Financial Services - Amazon Web Services

[a https://aws.amazon.com/financial-services/](https://aws.amazon.com/financial-services/)

AWS Financial Services is How. Contact an industry expert **AWS** provides **financial services** institutions across banking, payments, capital markets, and insurance the secure, resilient global cloud infrastructure and **services** they need to differentiate themselves today and adapt to the needs of tomorrow.

AWS Architecture Center - Amazon Web Services (AWS)

[a https://aws.amazon.com/architecture/](https://aws.amazon.com/architecture/)

AWS Architecture Center. The **AWS Architecture Center** provides reference **architecture** diagrams, vetted **architecture** solutions, Well-Architected best practices, patterns, icons, and more. This expert guidance was contributed by **AWS** cloud **architecture** experts, including **AWS** Solutions Architects, Professional Services Consultants, and Partners.

This Is My Architecture | Video Series | AWS

[a https://aws.amazon.com/architecture/this-is-my-architecture/](https://aws.amazon.com/architecture/this-is-my-architecture/)

AWS Blog - Amazon Web Services (AWS)

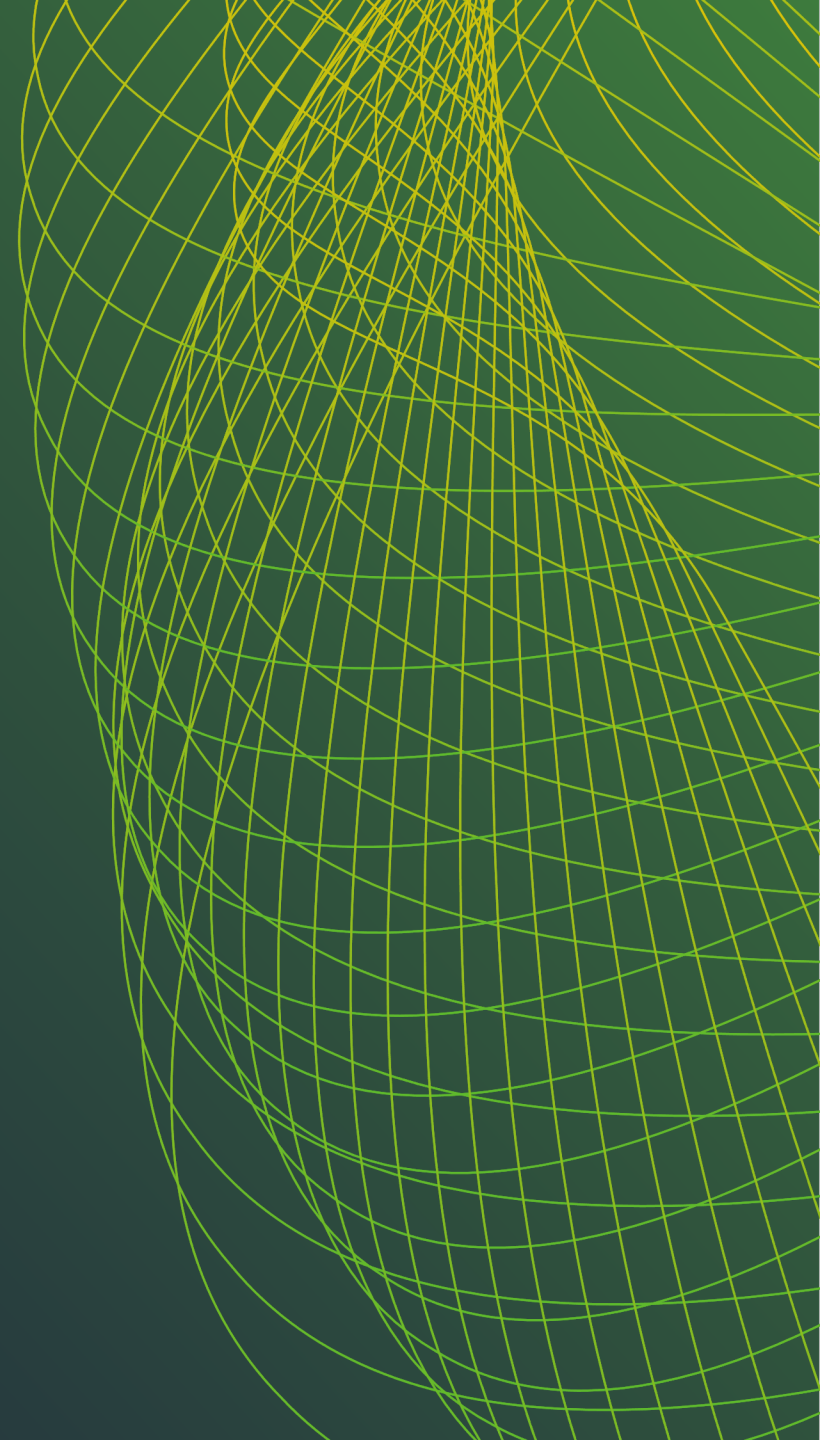
[a https://aws.amazon.com/blogs/](https://aws.amazon.com/blogs/)



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FSI Customer needs:

Foundational: Governance, Compute and
Deployment



Governance

[Lookout for Metrics](#) - Use ML to detect anomalies in time series-driven business and operational metrics [blog](#)

[Well-Architected Management & Governance Lens](#) - Newest addition to our Well-Architected Framework [link](#)

[Audit Manager](#) - Automates evidence collection to determine if your controls are operating correctly [blog](#)

[S3 Replication multiple destination buckets](#) - Replicate data from one source bucket to multiple destination buckets in the same or other (if desired - multiple) regions [blog](#)

Compute and Deployment

[Nitro Enclaves](#) - Create isolated compute environments on your EC2 instances to protect highly sensitive data [blog](#)

[ECS Anywhere](#) - Run and manage container based applications that are located both in AWS and on-premises [blog](#)

[EKS Distro](#) - Distribution of the same version Kubernetes deployed by Amazon EKS [blog](#)

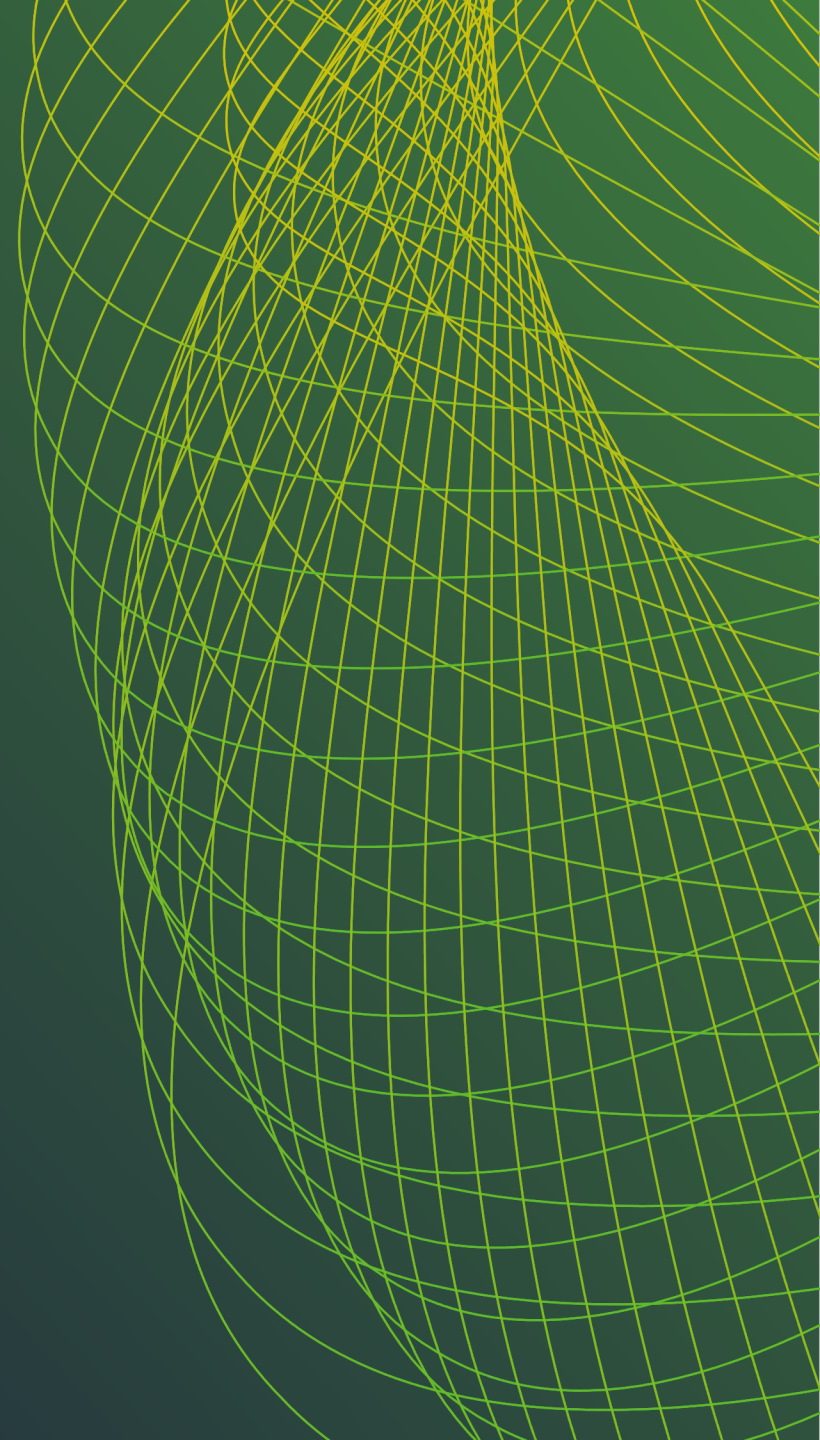
[EKS Anywhere](#) - Create and operate Kubernetes clusters on-premises on your own VMs and bare metal servers [link](#)

[Proton](#) - Fully managed application deployment service for container and serverless applications [blog](#)



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FSI Customer needs:
Data: Collect, Cleanse, Consume



Collect

[Lake Formation new features](#) - ACID Transactions, Row-level Security and Acceleration (improved performance) [preview](#)

[Aurora Serverless v2](#) - on-demand, auto-scaling configuration that scales instantly [preview](#)

Cleanse

[EMR on EKS](#) - Automate the provisioning and management of open-source big data frameworks on EKS [blog](#)

[Glue Data Brew](#) - Visual interface for analyzing and cleansing data, automating jobs and data lineage [blog](#)

Consume

[Glue Elastic Views](#) - Use SQL to create a virtual always up-to-date table that contains data from many sources [preview](#)

[AQUA for Redshift](#) - Queries are executed up to 10x faster using a distributed and hardware accelerated cache [preview](#)

[Redshift data sharing](#) - Share live data between multiple Redshift data warehouses with granular security [preview](#)

[Redshift ML](#) - Enable SQL users to create, train and deploy SageMaker models that use supervised learning [preview](#)

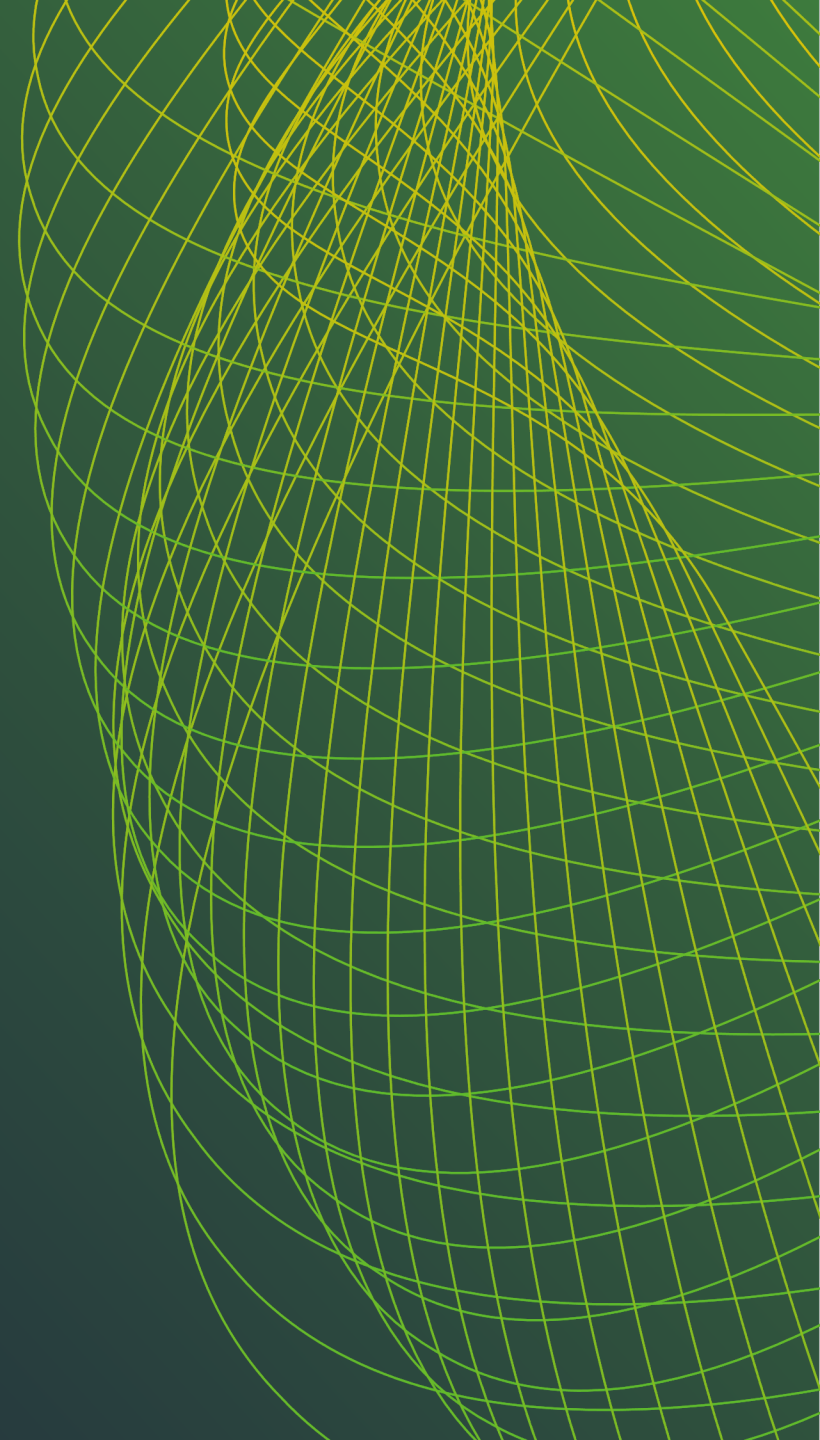
[Neptune ML](#) - Utilize Graph Neural Networks to make fast and more accurate predictions with graph data [blog](#)



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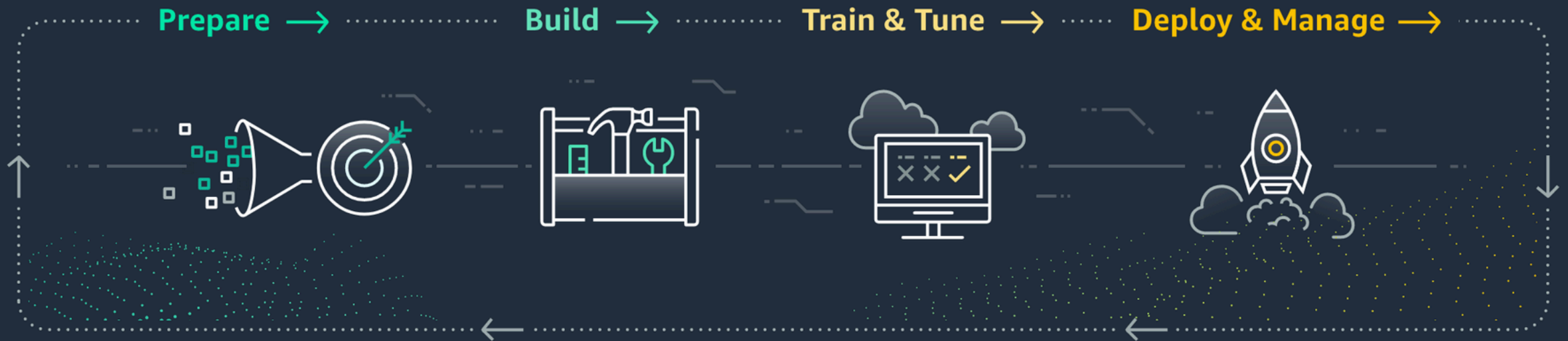
FSI Customer needs:

AI/ML: Reduce the 80% and add real value



Decrease the amount of time it takes to:

- Prepare your data
- Build your model
- Train and Tune your model
- Deploy and Manage your model



Amazon SageMaker Clarify - provides transparency so you can detect bias and take corrective action

[blog](#)

SageMaker Data Wrangler - visual interface for finding, viewing, cleansing and enriching your training data

[blog](#)

SageMaker Debugger Profiler - Resolve performance issues quicker and iterate through your training job faster

[blog](#)

SageMaker distributed training - Split large deep learning training data / models across AWS GPU instances

[note](#)

SageMaker Feature Store - Build a curated library of data (features) for your models

[blog](#)

SageMaker JumpStart - One click access to popular model collections

[blog](#)

SageMaker Pipelines - Create an automated CI/CD ML workflow

[blog](#)

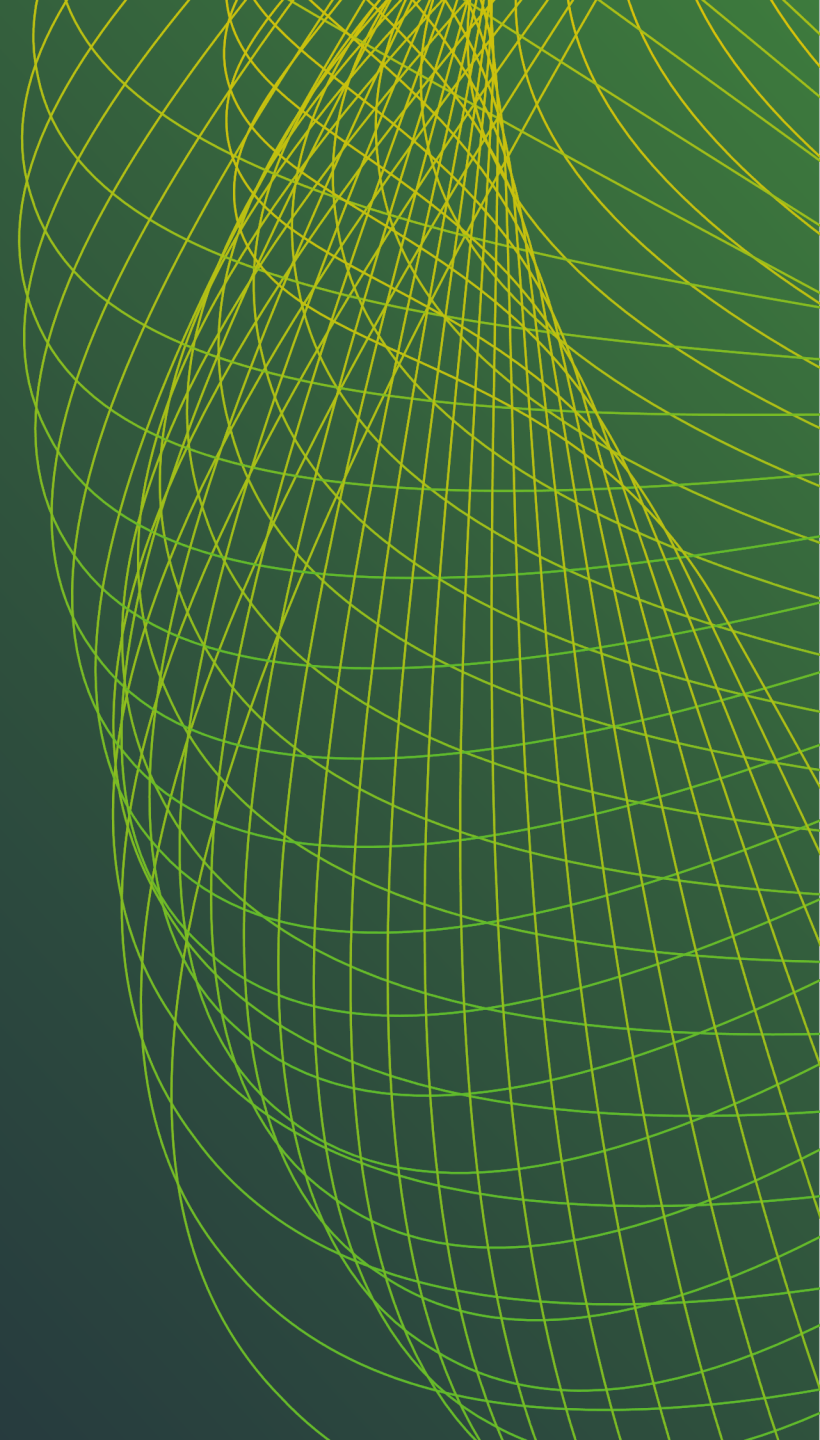


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Thank you!

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Principal Solutions Architect, AWS





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