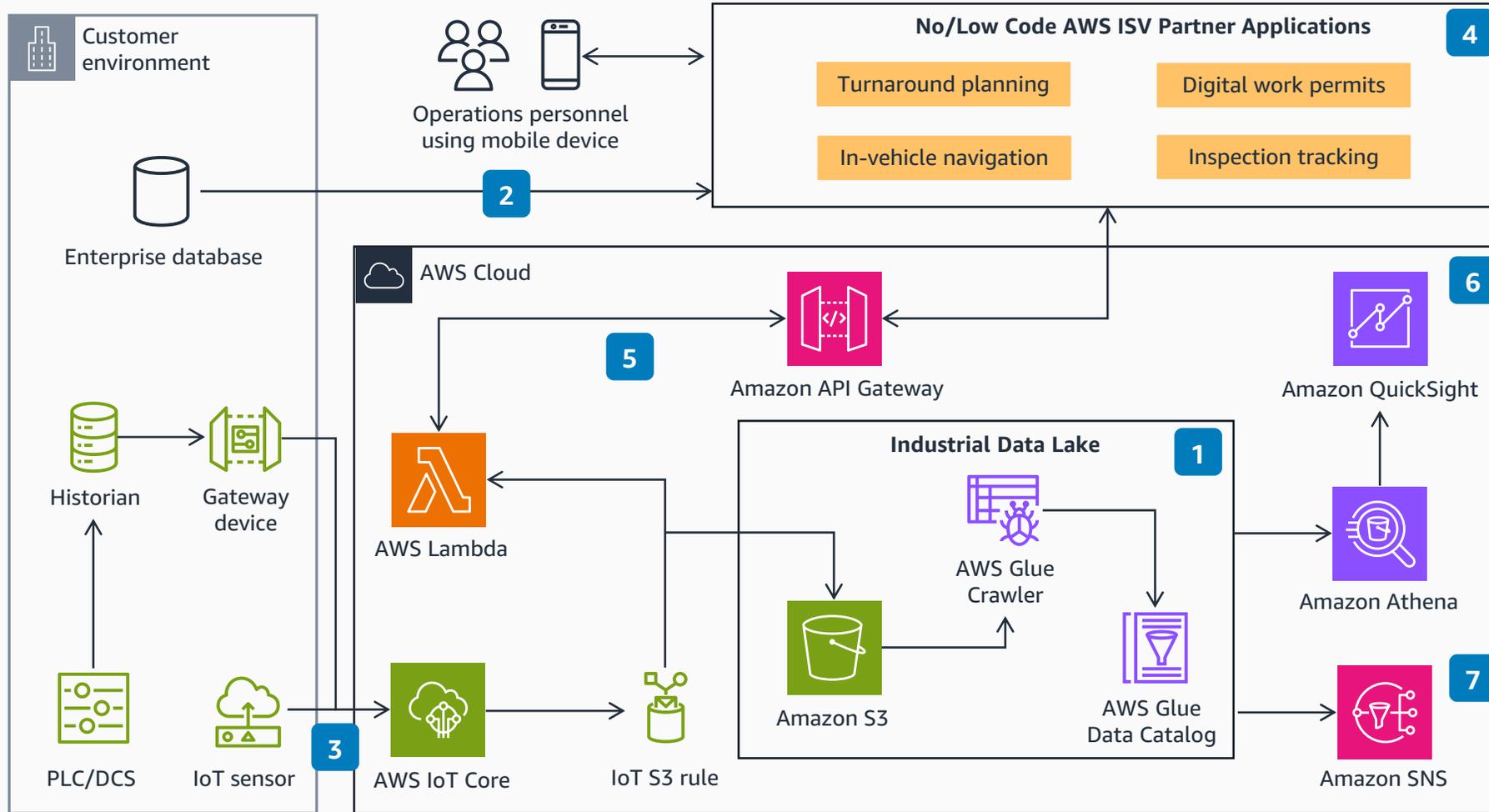


# Guidance for Downstream Connected Field Work on AWS

This architecture shows how industrial energy customers can connect workers in the field and facilities with data from operational technology sensors.



- 1 The industrial data lake extends data availability and capture outside of the control room and into the facility or field. It turns this data into usable, contextualized datasets using **Amazon Simple Storage Service (Amazon S3)** and **AWS Glue** for field use.
- 2 System of record data from equipment, work order, asset specification, and other customer databases are synchronized with AWS and AWS ISV Partner software-as-a-service (SaaS) platforms.
- 3 The AWS Partner operational technology (OT) gateway device extracts sensor data from historians with telemetry from programmable logic controllers (PLCs) and distributed control systems (DCS). **AWS IoT Core** ingests the data into the AWS Cloud along with Internet of Things (IoT) sensor data.
- 4 No/low code applications from AWS ISV Partners simplify mobile device app development, configuration, distribution, and administration for field access.
- 5 **Amazon API Gateway** and **AWS Lambda** send or receive data updates between work processes and equipment to synchronize data between the AWS industrial data lake and AWS ISV Partner platforms.
- 6 **Amazon QuickSight** or AWS Partner business intelligence (BI) applications visualize and generate reports on data based on customer preference. **QuickSight** focuses on business key performance indicators (KPIs) that you can consolidate across multiple AWS Partner and external data sources.
- 7 Notifications from **Amazon Simple Notification Service (Amazon SNS)** keep dispatchers and field technicians aware of status and changes.

