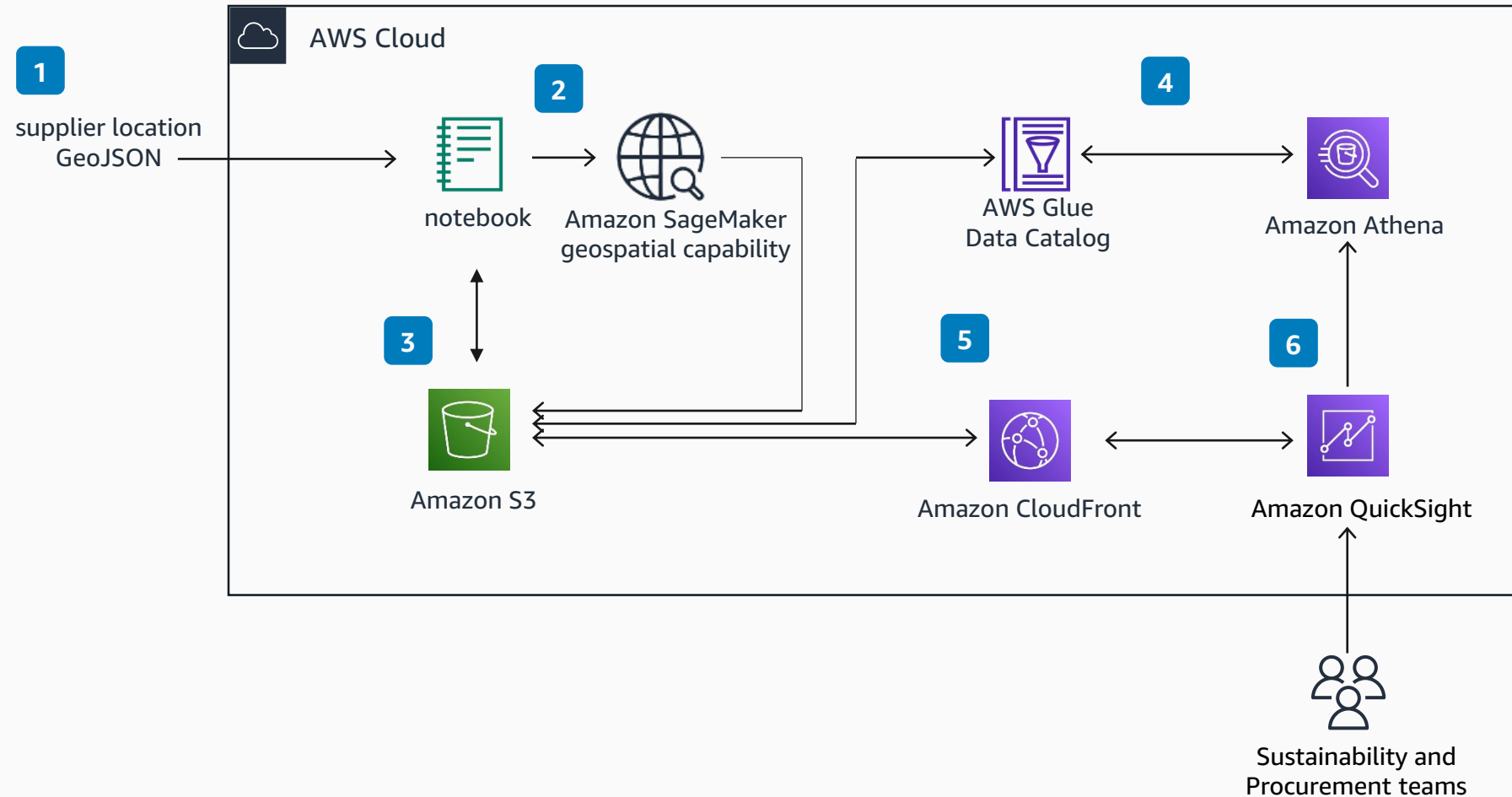


Guidance for Geospatial Insights for Sustainability on AWS

Observe changes in land use for Tier-N supply chain

This solution guidance demonstrates how to observe vegetation changes using Amazon SageMaker geospatial capability, allowing sustainability and procurement teams to understand and verify if environmental best practices are followed at supply chain origins.



- 1 Create a GeoJSON file for the supplier location in question.
- 2 Use a notebook with **Amazon SageMaker** geospatial capability to baseline supplier locations. Select the Sentinel-2 data set, and run an Earth Observation Job (EOJ) on the supplier location, for the desired period of time.
- 3 The processed results of your EOJ are stored into your destination **Amazon Simple Storage Service (Amazon S3)** bucket, as specified in the EOJ. The data is stored as both JSON and PNG files.
- 4 To make the data available for a dashboard, use **AWS Glue** to create databases and tables (schema) to be queried using **Amazon Athena**.
- 5 Create an **Amazon CloudFront** distribution to allow for the PNG images of the supplier location to be discoverable in **Amazon QuickSight**.
- 6 Together, the JSON data and the images are available in a consolidated dashboard in **QuickSight**, where sustainability and procurement teams can observe changes in vegetation at the supplier location over time.



Reviewed for technical accuracy December 6, 2022

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AWS Reference Architecture