Optimizing Application Performance

API Scaling

Impact
Ensures system reliability and prevents downtimes during significant traffic fluctuations

Technique
Achieved through horizontal and vertical scaling and autoscaling

Methodology
Increases the capacity of the API infrastructure to handle dynamic traffic volumes

Scope
Handles large data processing requirements

VS.

Application Acceleration

Methodology
Focuses on the performance of the application that is using the API

Scope
Optimizes an application's performance and user experience by reducing latency and improving data transfer efficiency

Impact
Optimizes response times and overall application efficiency

Technique
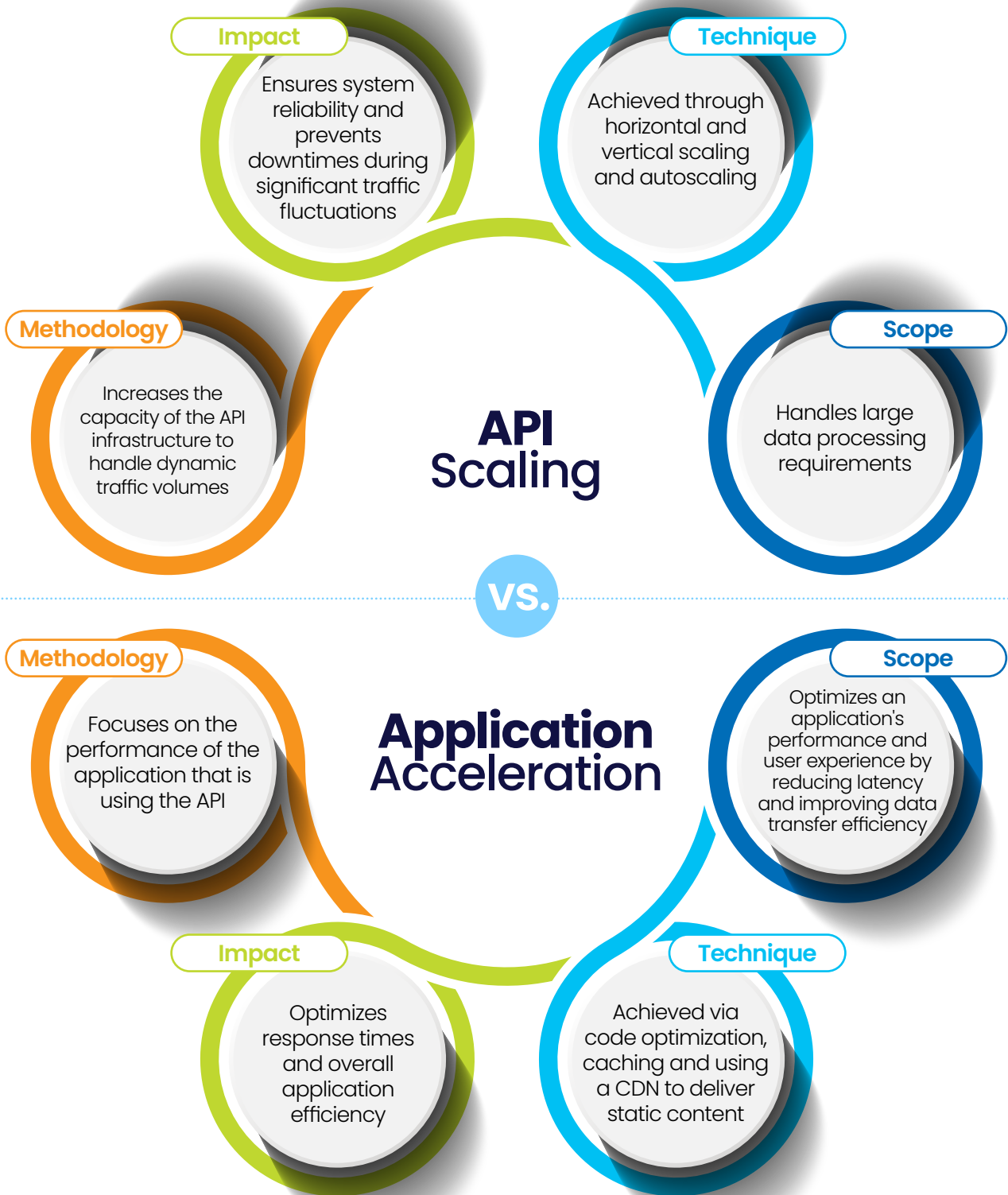Achieved via code optimization, caching and using a CDN to deliver static content

If resource utilization is high, scaling both the API and application may be necessary to handle the workload.

Boosting API Scaling

Smart DIH, an operational data hub, supports API scaling and load balancing, leveraging the scalability and load balancing capabilities of its powerful data grid. This architecture also provides automatic failover and recovery capabilities.