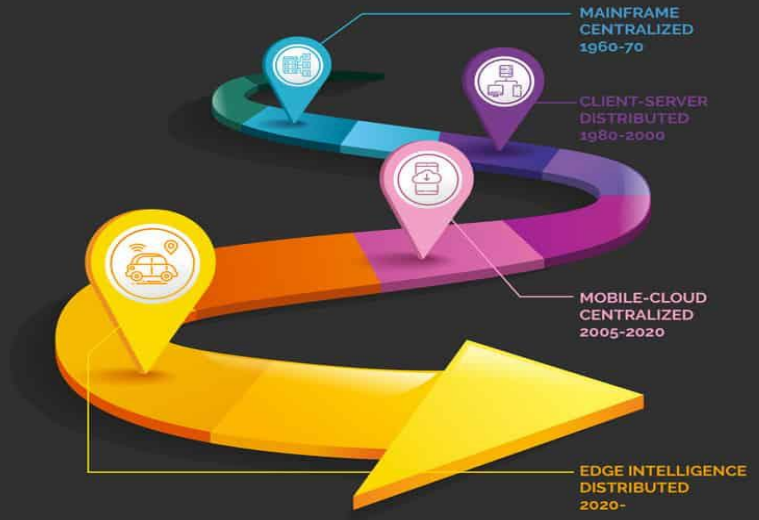
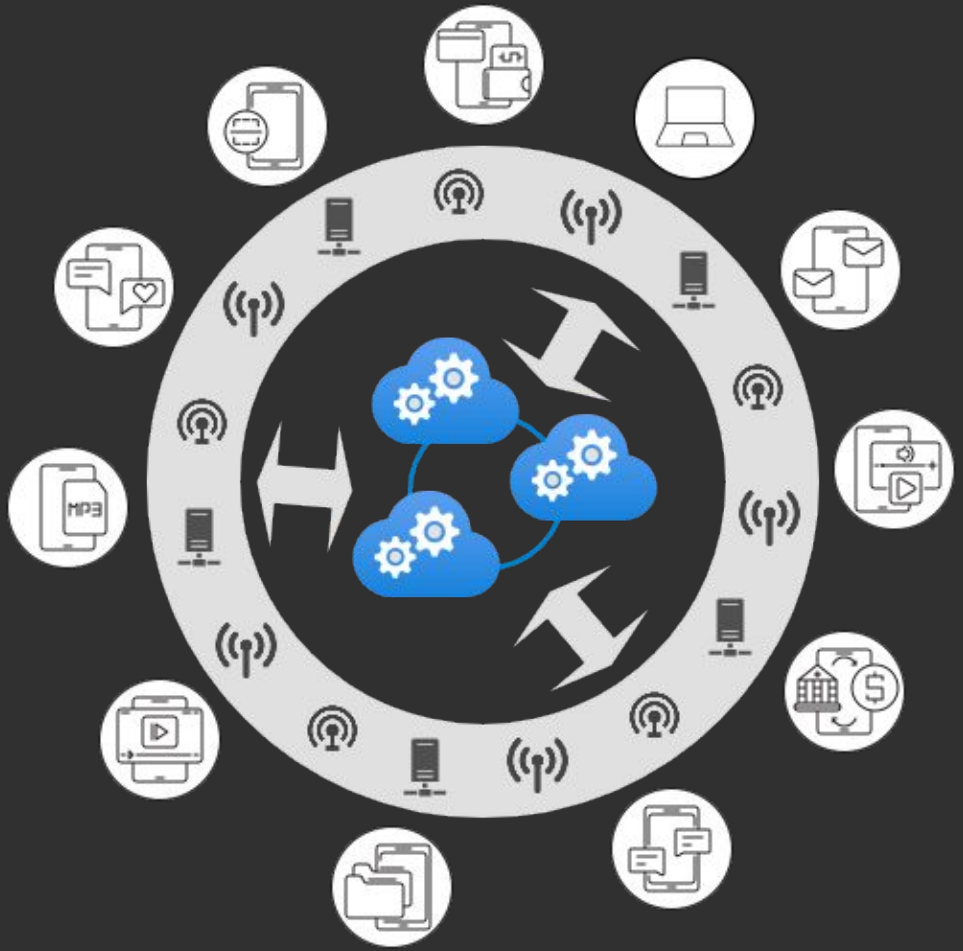
EDGE
COMPUTING

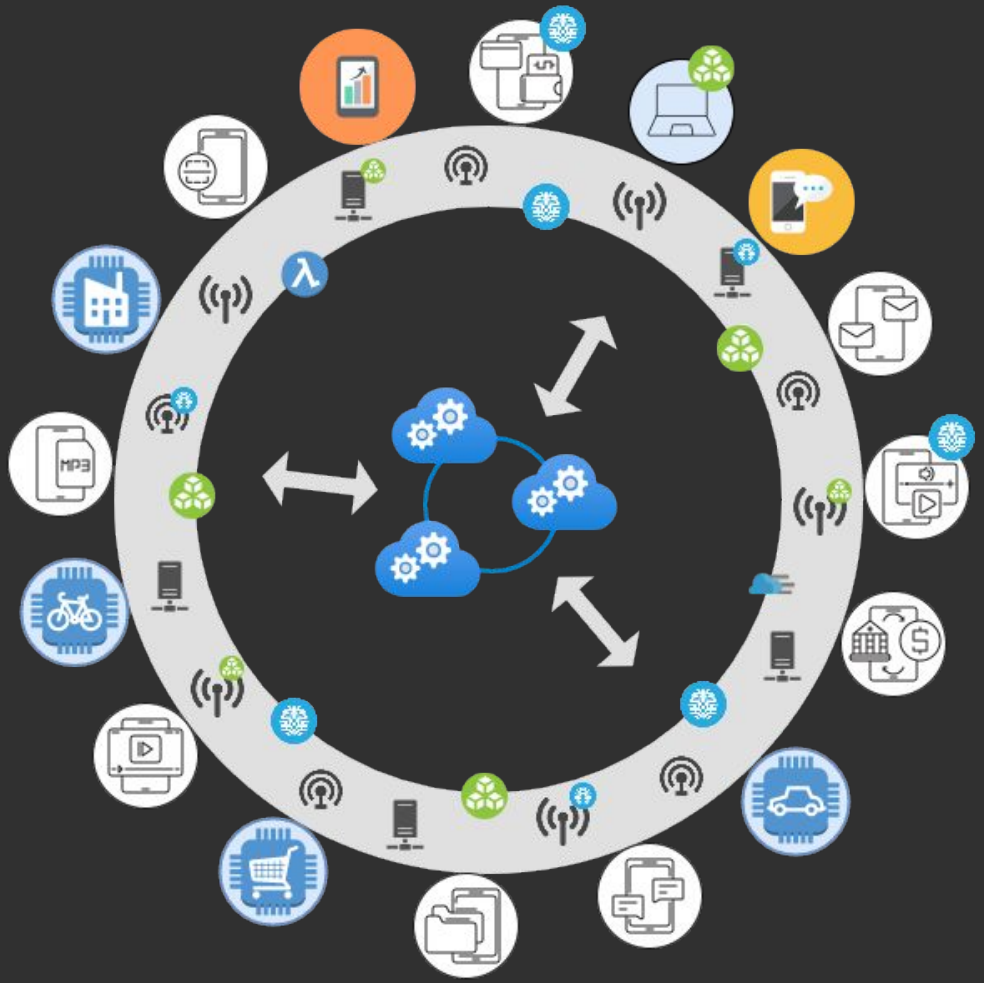
Evolução rumo à descentralização



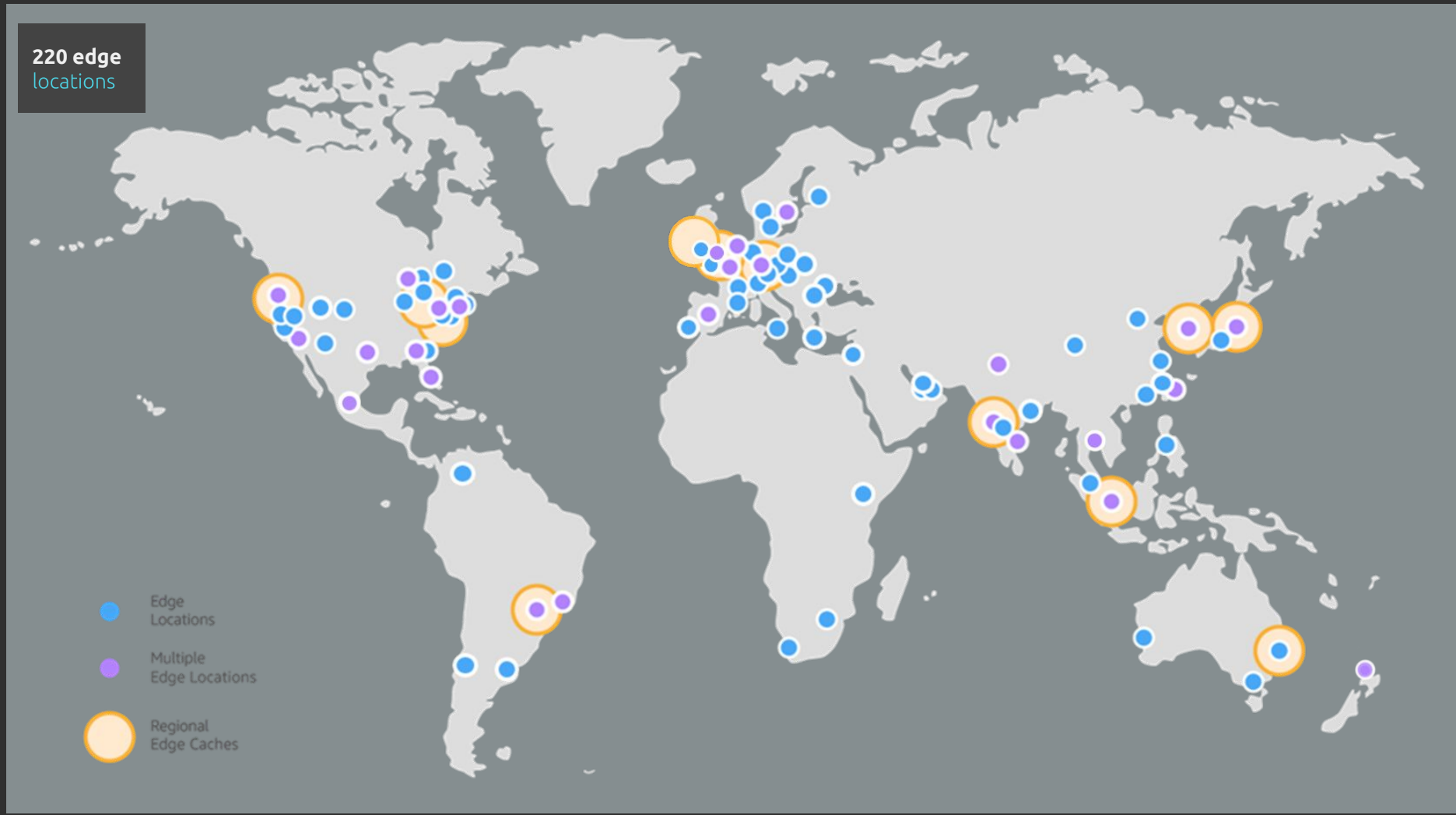
Principais

Características


MP3



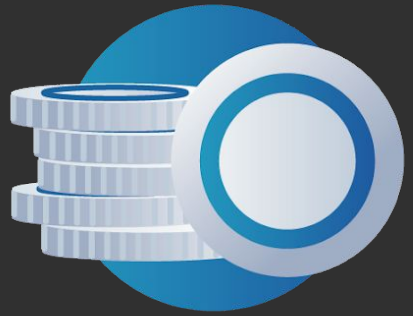
24 Regions
77 AZs


220 edge
locations
Edge
Locations
Multiple
Edge Locations
Regional
Edge Caches

Cloudflare
Workers

Benefícios & Oportunidades

Performance com redução de latência, melhorando a **experiência do usuário**

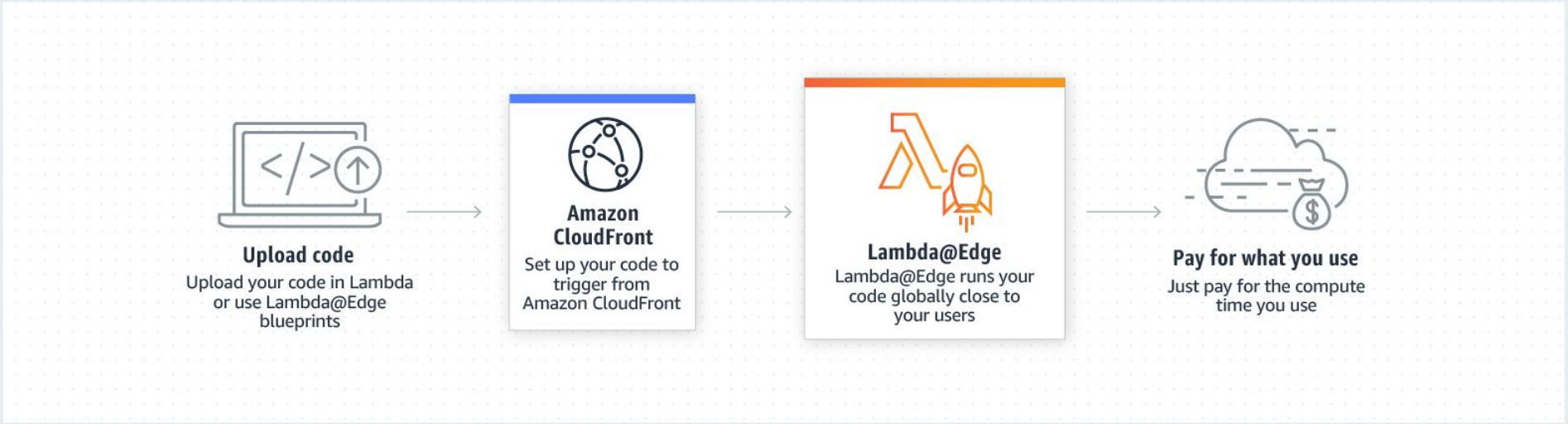


Economia e uso mais eficiente dos recursos reduzindo **tráfego de dados** para a cloud

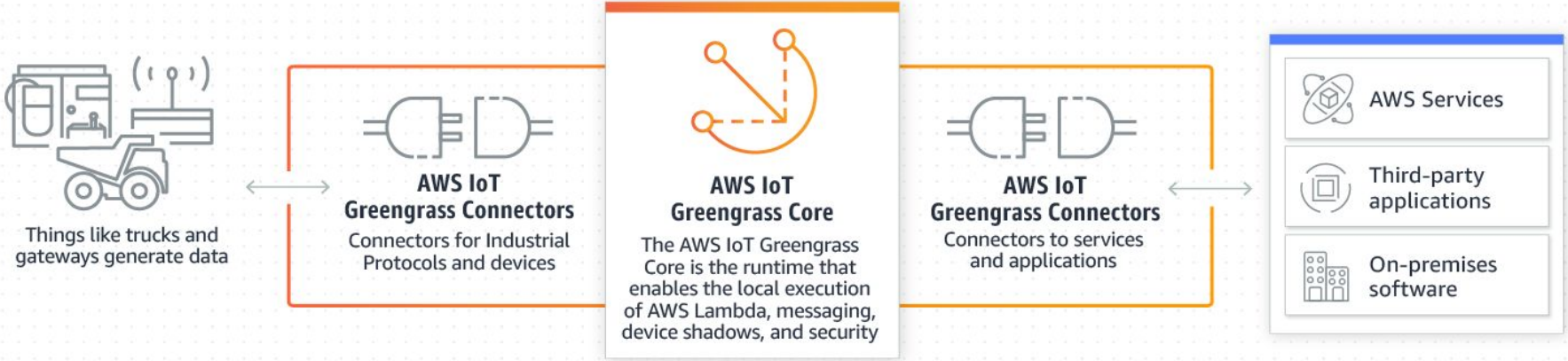
Viabilização de novos **modelos de negócio** dependentes de decisões e ações em *Near Real Time*

Serviços & Tecnologias

AWS Lambda@Edge



AWS IoT Greengrass



AWS Wavelength

Extend the Amazon Virtual Private Cloud (VPC) to include a Wavelength Zone and then create AWS resources like Amazon Elastic Compute Cloud (EC2) instances in the desired subnets

AWS Region

Wavelength Zone

Deploy the portions of an application that require ultra-low latency in a Wavelength Zone, and then seamlessly connect back to the rotation of the application and the full range of cloud services running in the AWS Region

Application traffic can reach application servers running in Wavelength Zones without leaving the mobile network

WebAssembly leva eficiência à
workloads junto ao usuário
Além de fornecer uma *runtime* **IsoMórfica**

CLOUDFLARE®

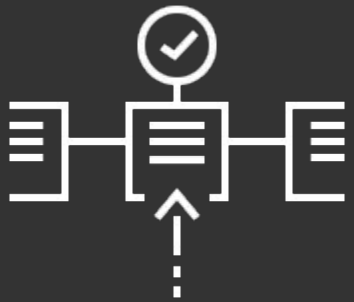
Workers permite executar *functions*
com zero cold start, compiladas para **WebAssembly**
nas mesmas **Edge Locations** usadas para a CDN

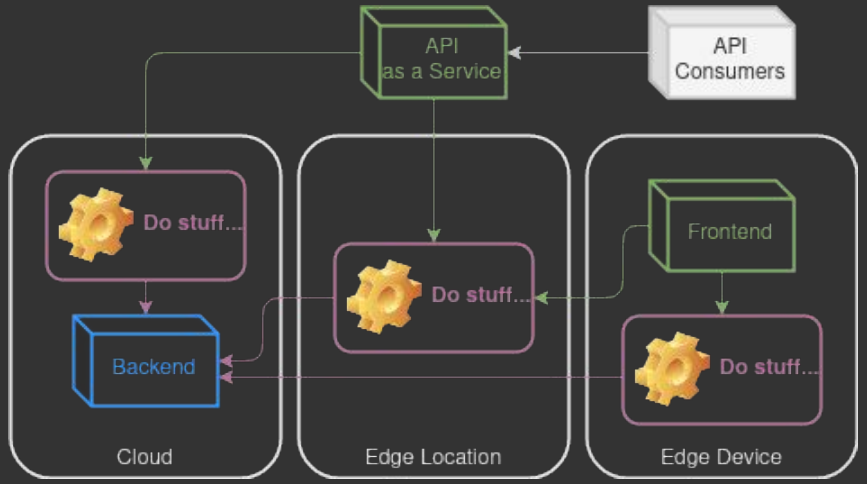
Desafios

Arquiteturais

Tolerância à Partição

Transações & Consistência





Backend vs Frontend

?

Obrigado!

_ AWS Global Infrastructure
_ https://aws.amazon.com/pt/about-aws/global-infrastructure/?p=ngi&loc=1
_ Lambda@Edge
_ https://aws.amazon.com/pt/lambda/edge/
_ AWS IoT Greengrass
_ https://aws.amazon.com/pt/greengrass/
_ AWS Wavelength
_ https://aws.amazon.com/pt/wavelength/
_ Cloudflare Workers
_ https://workers.cloudflare.com/
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