# aws Inventering

#### **TLC203**

## From SMS to 5G: Out-of-the-box telecom solution

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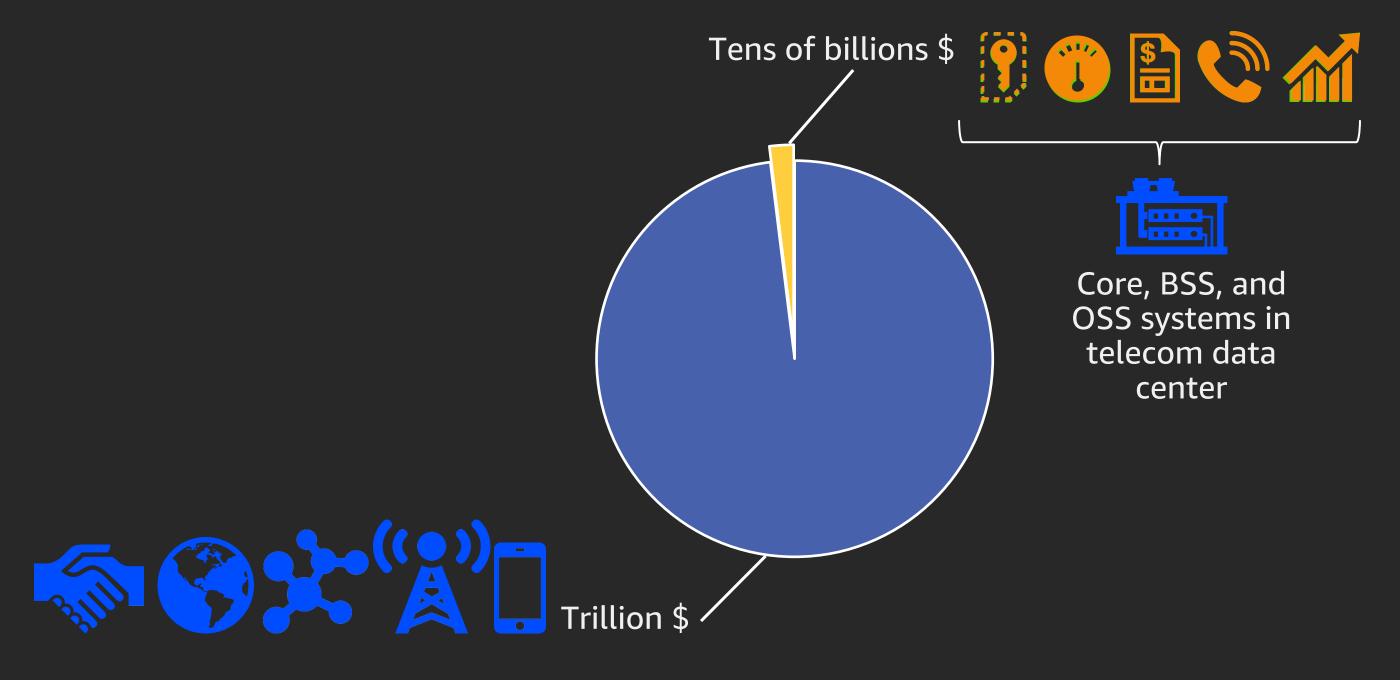
**Mohammad Shokuienia** 

Developer Lead TELUS

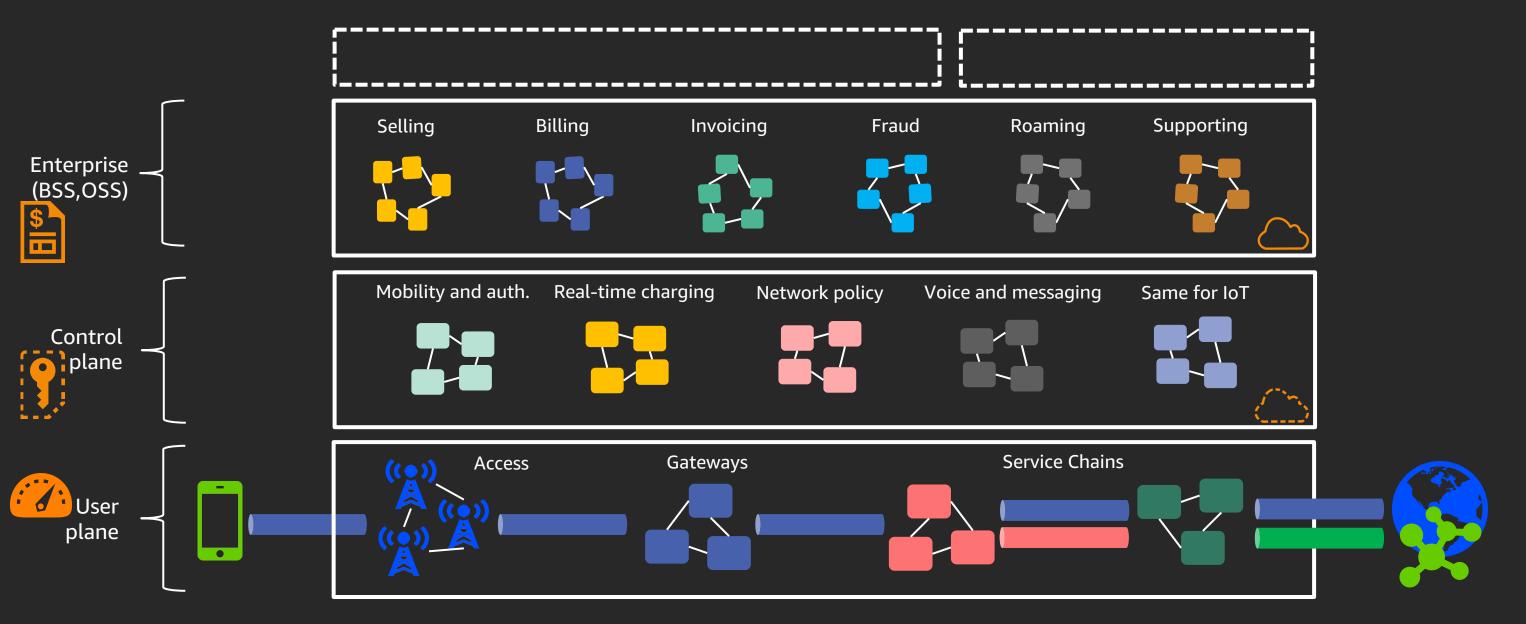




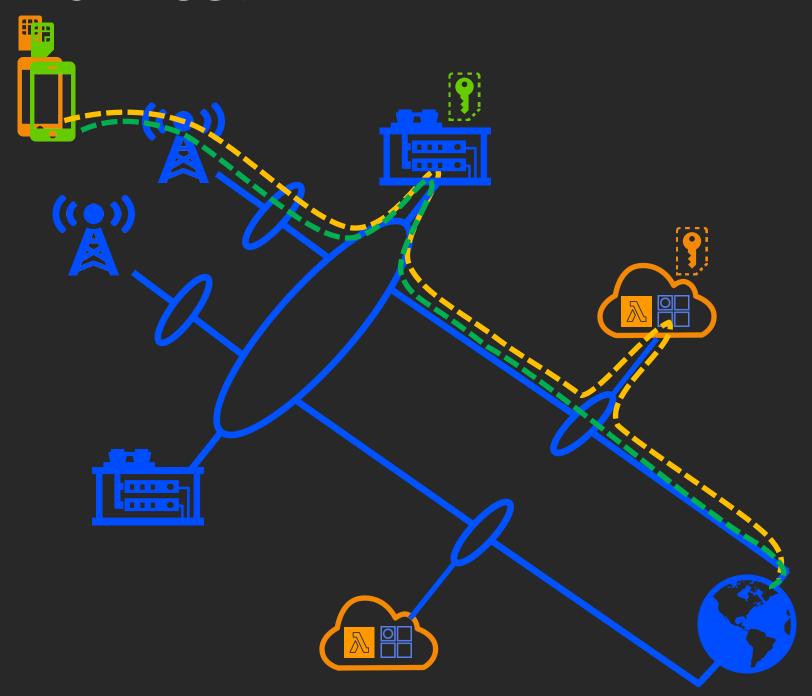
## Telecom industry value chain



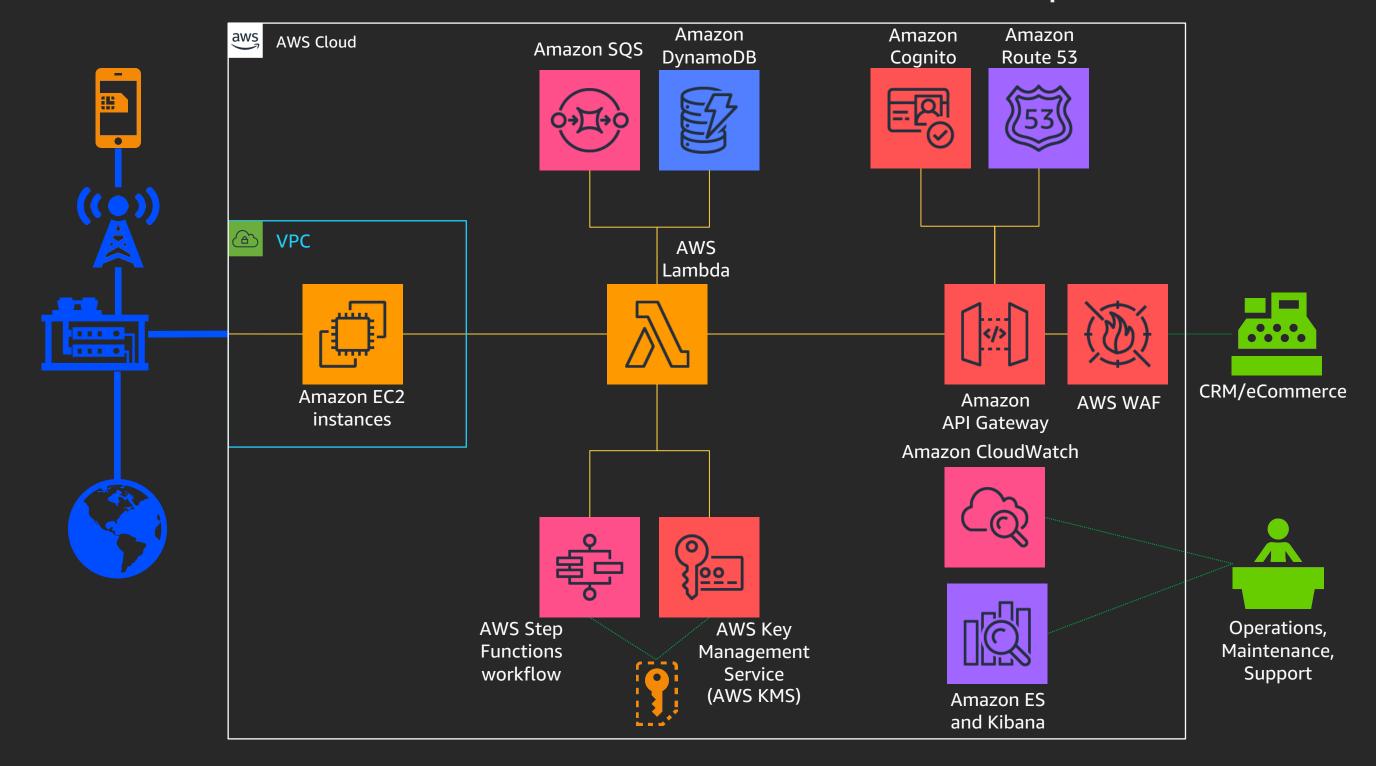
## Core network close up



## View from 10K feet

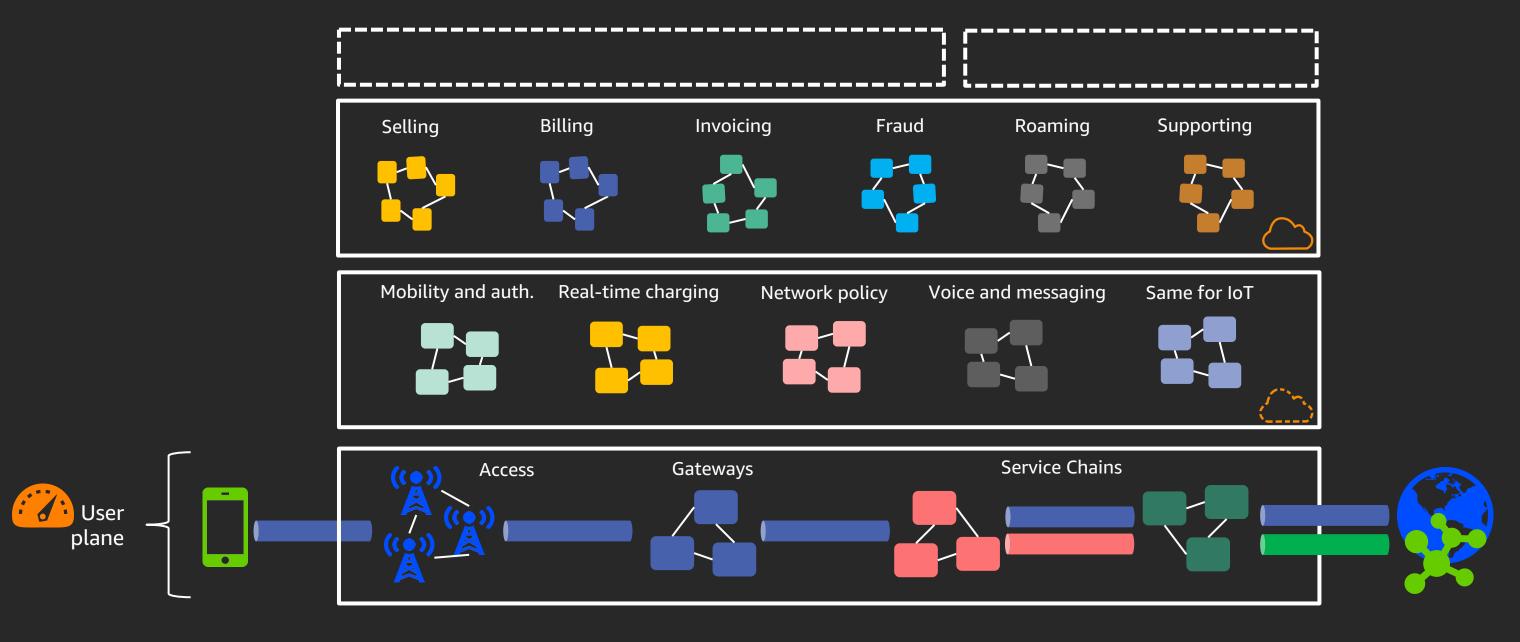


## Out-of-the box telecom solution close up



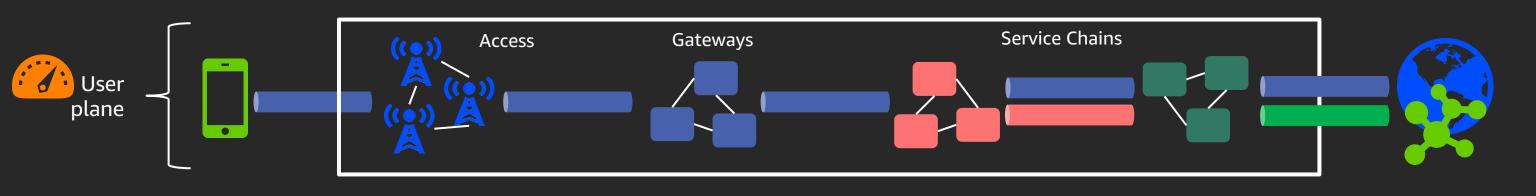
#### Cloud functions

Provide equivalent of all core for control plane and BSS of UMTS, LTE



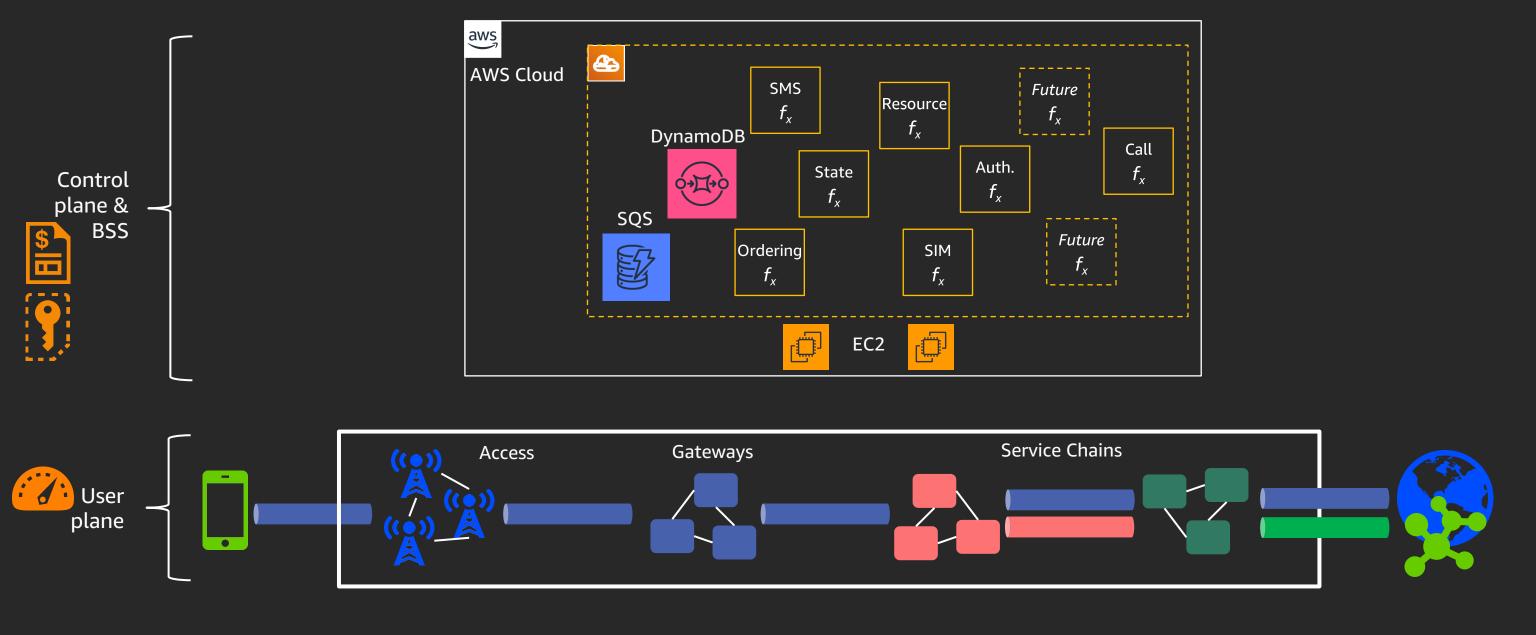
### Cloud functions

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Provide equivalent of all core for control plane and BSS of UMTS, LTE



## Demo





## QR codes for eSIM for demo

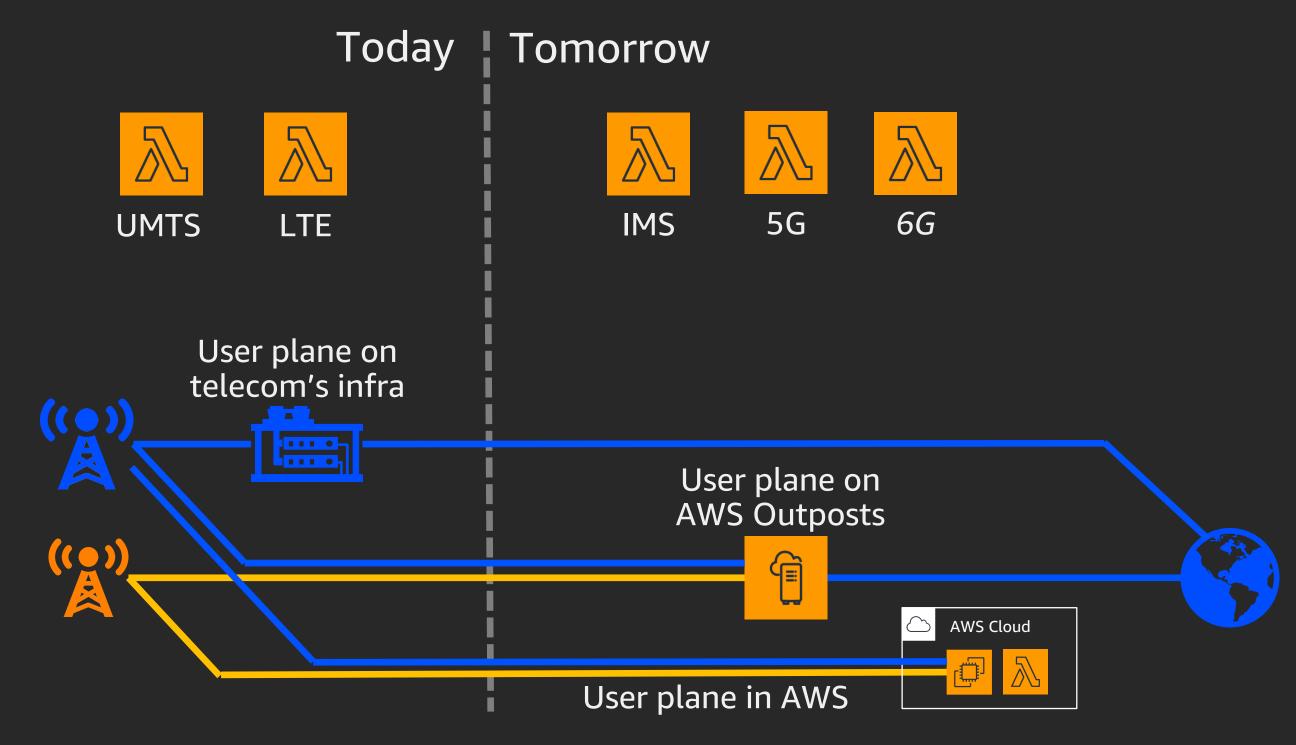
ICCID	Status	Code
8912230200030010330 302220601000033 17827755555	ENABLED	
8912230200030010348 302220601000034	RELEASED	
8912230200030010355	DELETED	
8912230200031340025 302220601133002	TEST	

## Demo end!



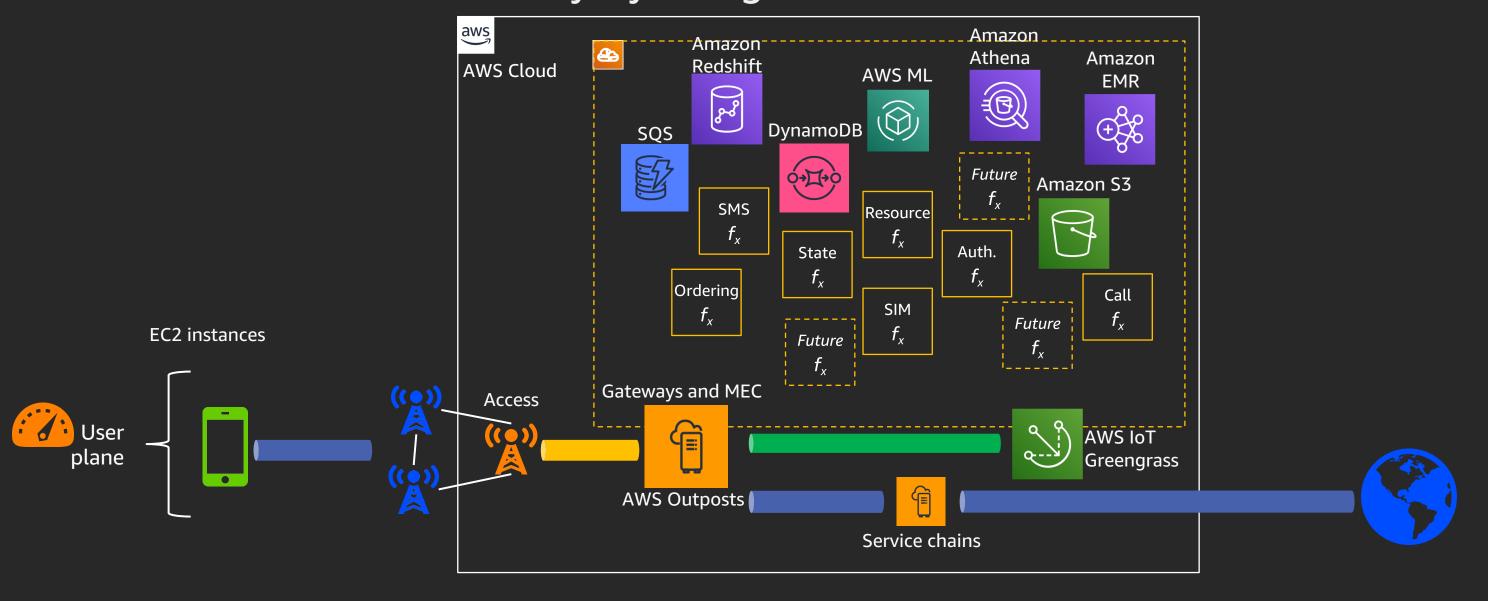


## Technology roadmap

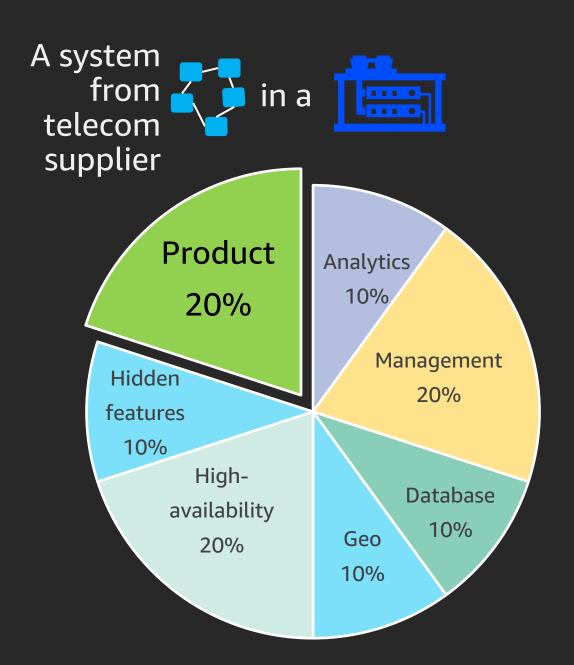


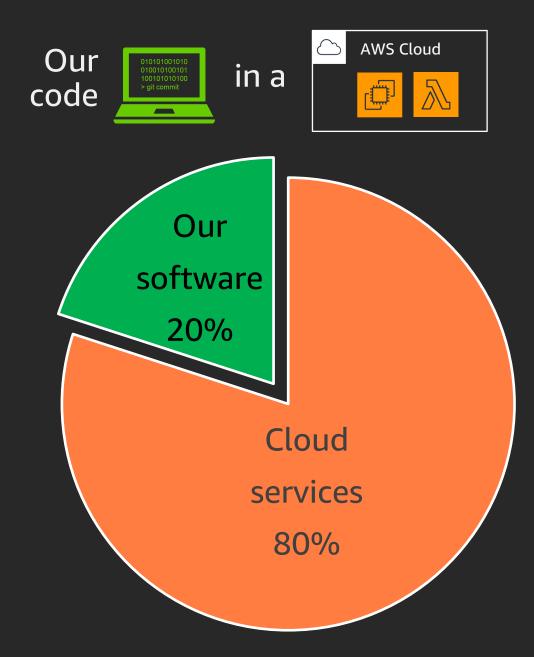
## User plane

Host user plane on AWS Outposts and extend serverless to it Enable smarter connectivity by using AWS services



### Outcome



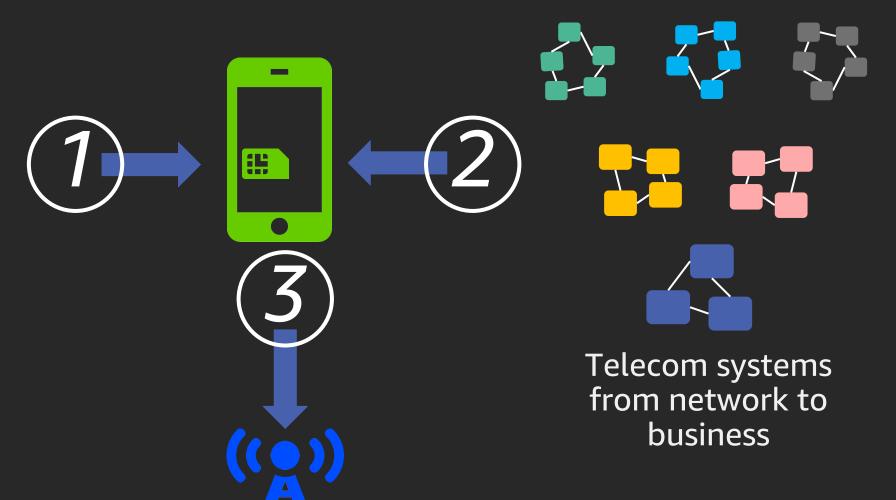


## Current solution for LTE and 5, 6 . . . G networks

Subscription and connectivity management today and will be carried on . . .

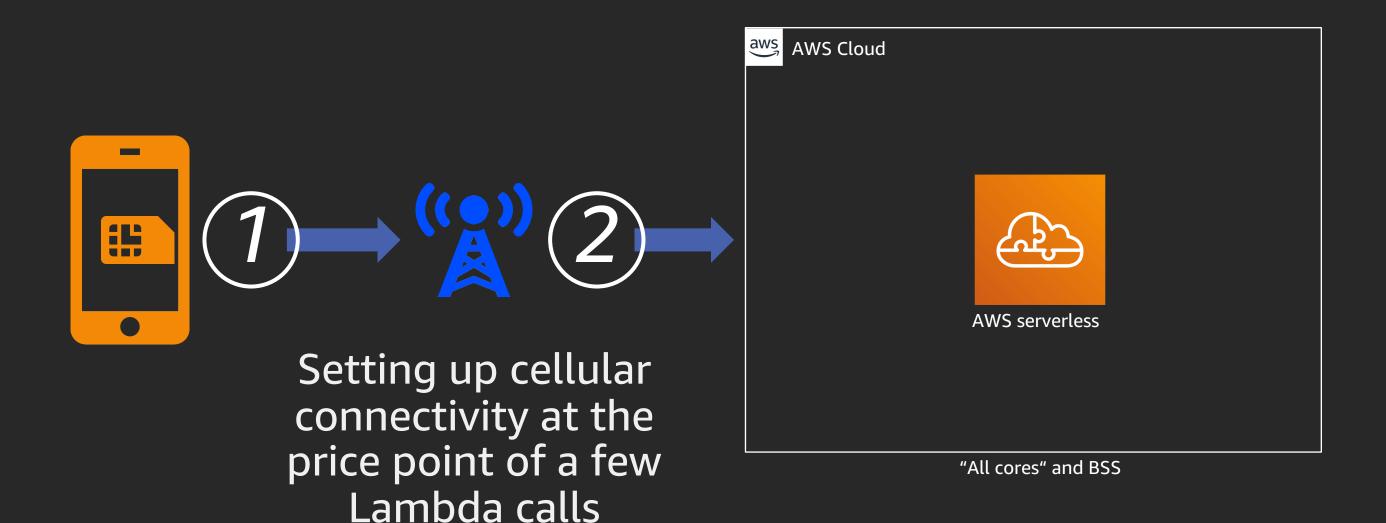


10K SIM cards

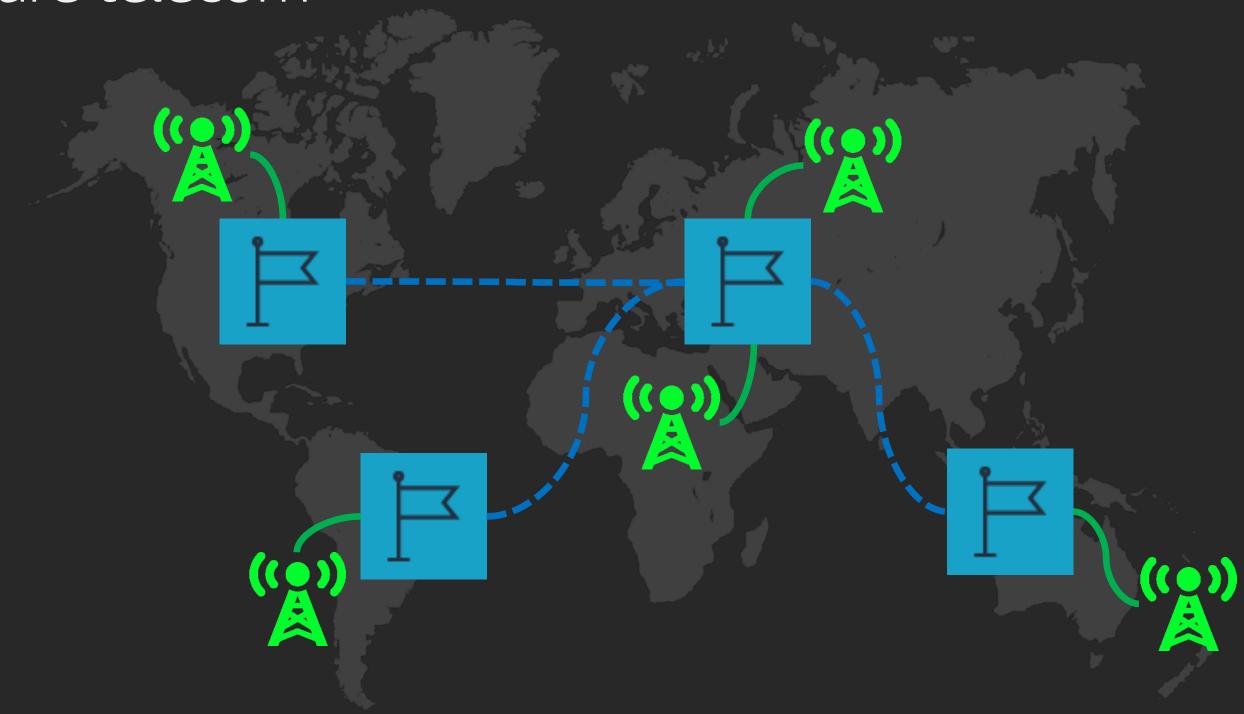


### Our solution for UMTS LTE, 5, 6 . . . G networks

Personalized and smart connectivity for everything and on-demand



## Future telecom



### Q&A for chalk talk

Performance – how long it takes for a call to connect Scale – what if my operator is too big to fit in AWS at lower cost Latency – how to deploy it across the country Staffing – how many people are needed to run it, say, across opcos SIM authentication – keys, subscription info and data, loading Lambda-specific – dealing with warmup Geo-redundancy – diameter mesh, global tables 5G – orchestration of network slicing and MEC Selling – catalog API

## Thank you!







## Please complete the session survey in the mobile app.



