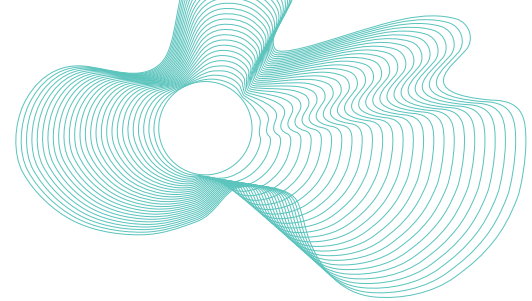




# BUILT FOR CHANGE TO SUSTAIN INNOVATION

SUPPORTING OUR  
CUSTOMERS AND THEIR CUSTOMERS  
THROUGH UNCERTAINTY



## SUPPORTING OUR CUSTOMERS AND THEIR CUSTOMERS THROUGH UNCERTAINTY

### Ensuring Business Continuity

The COVID-19 crisis has dramatically impacted business around the world, bringing with it a period of severe economic shock. As a result, businesses have had to think fast and adapt in order to withstand the uncertainty.

This has required some creative thinking and here we will walk through a collection of ideas, which we believe present significant opportunity with regard to maintaining operator relevance and viability in this challenging time.

### Openet Innovation #1: Light Special Purpose 4G MVNO

As evident by the proliferation of MVNOs globally, it is clear that specific market segments require tailored messaging and targeted services. With the onset of the COVID-19 pandemic, the needs of these diverse markets are becoming more acute and require targeted services to be provided quickly.



Openet enables the rapid launch of 4G MVNOs to quickly serve the needs of newly occurring niche markets. This allows for a simple and fast way of designing & delivering specialised services for the focussed needs of a particular segment. As opposed to looking to legacy systems, which are often too inflexible and cost-laden, this approach has proven to deliver rapid turnaround in as little as 6 - 8 weeks.

### Openet Innovation #2: 5G Network Trial in a Box

Many operators were in the midst of addressing their 5G network requirements when COVID-19 stopped the world in its tracks. In many ways, the fundamental advancements that 5G heralded are needed now more than ever before in order to allow connectivity providers the nimbleness to pivot and respond to the market as new and diverse challenges arise.

So why not create a standalone 5G test network to trial new service slices? At a time of shareholder uncertainty, having the ability to demonstrate concrete progress towards 5G gains is critical to business continuity. In turn, producing positive press and creating the opportunity for early learning experiences which will stand to de-risk the full core 5G implementation when that day comes.

### Openet Innovation #3: Mobile Digital Bank in a Box

As people's lives are thrown into disarray with containment measures now in place across a large part of the world, end users need goods and services to be easily and remotely accessible. Operators are in a prime position to support the continuation of the micro-transaction economy given they stand well placed as a trusted conduit for connectivity.

Openet can support operators who wish to enable their subscribers to transact and pay for goods and services using their mobile device. Customers use the money in their account to fund micro-payments or transfers to other subscribers of the same service. This allows operators to maintain the pace of small transactions, which permit the continuity of 'normal life' at a difficult and financially arduous time for end users.



## Openet Innovation #4: 4G/5G Private Networks

With a significant strain on public 4G & 5G networks, the COVID-19 crisis has resulted in persistent traffic volumes relying on continuous connection. Businesses are now looking to avail of private networks to avoid congestion and ensure continuity of service. This serves the enterprise community, but also presents governments with the opportunity to ring-fence network access for emergency response efforts.



Openet-powered 4G/5G private networks allow operators to compete with enterprise in-house deployments by having a cost-efficient solution and an implementation method allowing for full deployment in weeks, not months or years.

### Ensuring Critical Services

While maintaining a focus on ensuring their own business continuity, operators are in a position to bolster the delivery of critical services and support emergency relief efforts. Here we will look at a few novel initiatives which operators could undertake to further assist in their response to various crises.

## Openet Innovation #5: Geo-Fenced Emergency Policy & Alert System

A simple way of providing timely updates for essential information that means subscribers can be notified of relevant emergency updates based on the approximate location of the end-user. Openet enables operators to provide a targeted means for context-sensitive notifications to be delivered in emergency situations.

This is achieved through the monitoring of subscriber locations, using the available 4G/5G core network signalling and without the need to deploy new probes or applications. Notifications are triggered based on location changes for the purpose of regional lockdown updates or essential service availability.

## Openet Innovation #6: Monitoring Pandemic Propagation by Location

When a person experiences suspected COVID-19 symptoms, they make a call to a pandemic 'hotline' and this call is routed to a registered medical professional. Operators can analyse the volume of calls to registered local practitioners, which can be aggregated and filtered. This data can then be correlated with the cell ID information to identify the locations and time stamp.

The data is trended to show the growth rate in symptoms presented in the region. In so doing, a spike of symptoms in a particular region can be monitored and addressed with the necessary response effort. This allows for proactive healthcare planning, while heat maps can assist in containment efforts.

## Openet Innovation #7: Pandemic Infection Tracking & Intelligence

In this case, the mobile numbers of COVID-19 positive cases are provided to the Operator daily by the Government Health Authority. Data is collected via probes, aggregated and encrypted by a Probe Manager. The data is then ingested and aggregated by the Openet Data Fabric, which correlates the data with reference data from the Openet Data Store. Output allows graphic mapping to accurately present mobility. This is then sent to the Government Health Authority and decrypted.

This case utilises existing probe infrastructure within an Operator's network. The probe aggregator collects relevant metrics and algorithms to determine contacts of confirmed COVID-19 cases within a 2-3m range. The information ingested by Openet Data Fabric is correlated with historic data to present history to deliver a mobility map spanning 14 days of data. This provides a novel way to speed up contact tracing.



## OPENET PRODUCTS:

### Openet Charging:

Real-time convergent charging for digital and 5G services.

### Openet Policy:

Network policy control for next gen fixed, mobile and converged networks.

### Openet Data:

Data management, data processing and data governance solution designed to collect and manage data at 5G volumes in real-time.

### Openet Digital Platform:

End to end Digital BSS/OSS stack containing Openet & our partners' products.

### Openet Forge:

The digital enablement platform which contains Openet's library of microservices, upon which all Openet products are provided.

## DELIVERING BUSINESS VALUE:

40%

Reduction in time to market for new offer creation

28%

Uplift in offer uptake

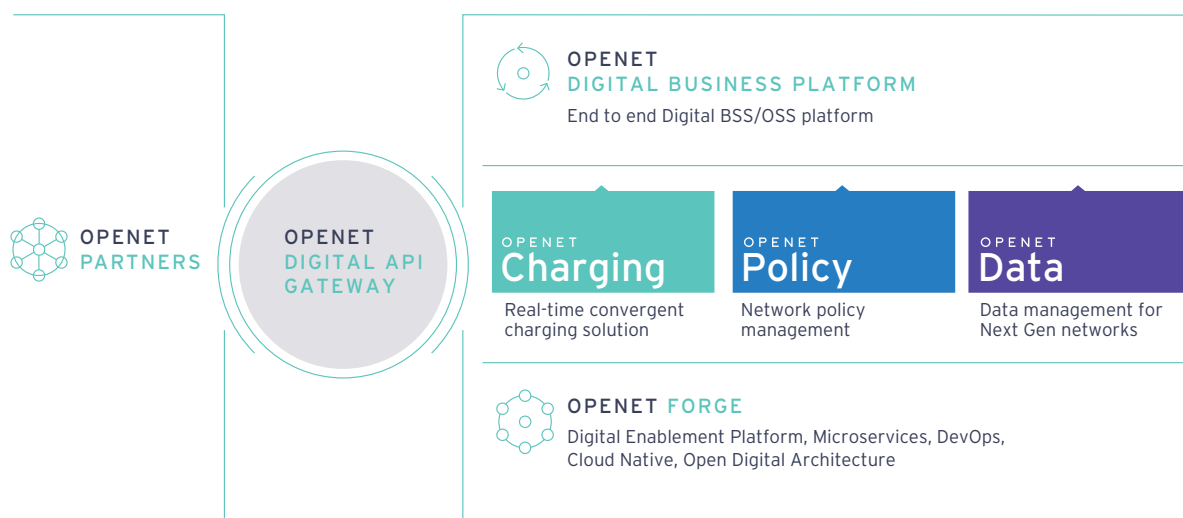
11%

Increase in mobile data ARPU

41%

Increase in mobile data revenues

## OPENET PRODUCT PORTFOLIO



# OPENET

BUILT FOR CHANGE

## OUR CUSTOMERS



## CONTACT

IRELAND  
+353 1 620 4600

USA  
+1 703 480 1820

MAYLAYSIA  
+60 (3) 2 289 8500

BRAZIL  
+353 1 620 4600