



NEARBY  
COMPUTING

[nearbycomputing.com](http://nearbycomputing.com)

HISPASAT

Fast deployment of services  
in **remote locations**



# Challenges

01

## LOW QUALITY SERVICE

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Remote business locations or rural areas usually suffer from a **lower service level compared to urban or industrial areas.**

02

## DIGITAL TRANSFORMATION

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These areas are at risk of **not being able to enjoy the upcoming digital transformation** of industry, education, health, etc. or to pay a high extra cost for not losing track.

03

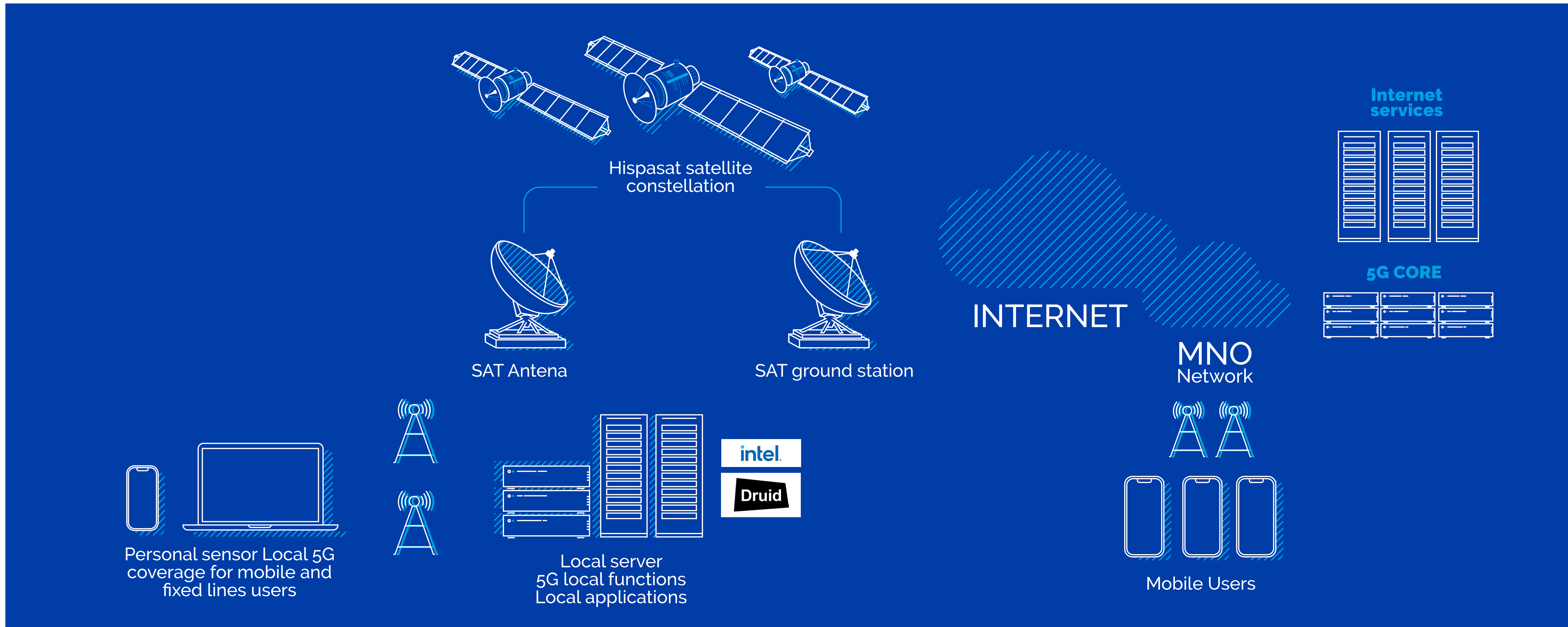
## CONNECT RURAL AREAS

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Governments are developing programs to **connect rural areas but at a slow pace.** Moreover, not only extra investments are needed but OPEX are significantly higher and governments don't pay for it.

# Solution architecture

Extension of 5G networks in remotes sites through satellite backhauling



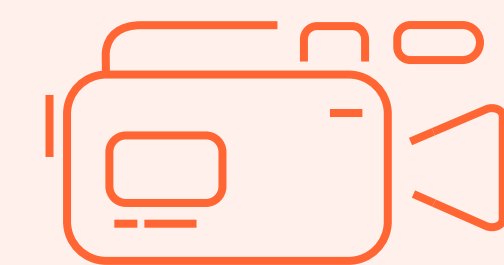
# Use cases examples

Users can enjoy these and other services through the local communication infrastructure



## Edge hosted team

### Video features



- Screen Sharing.
- Whiteboard.
- Switch between cameras.

### Voice features



- Dial pad to make PSTN calls.
- PSTN and PBX integration with transcoding.
- Multiconference.



## Edge cloud gaming

### Key elements

#### Zero Effort

Do not modify the application.

#### Low Cost

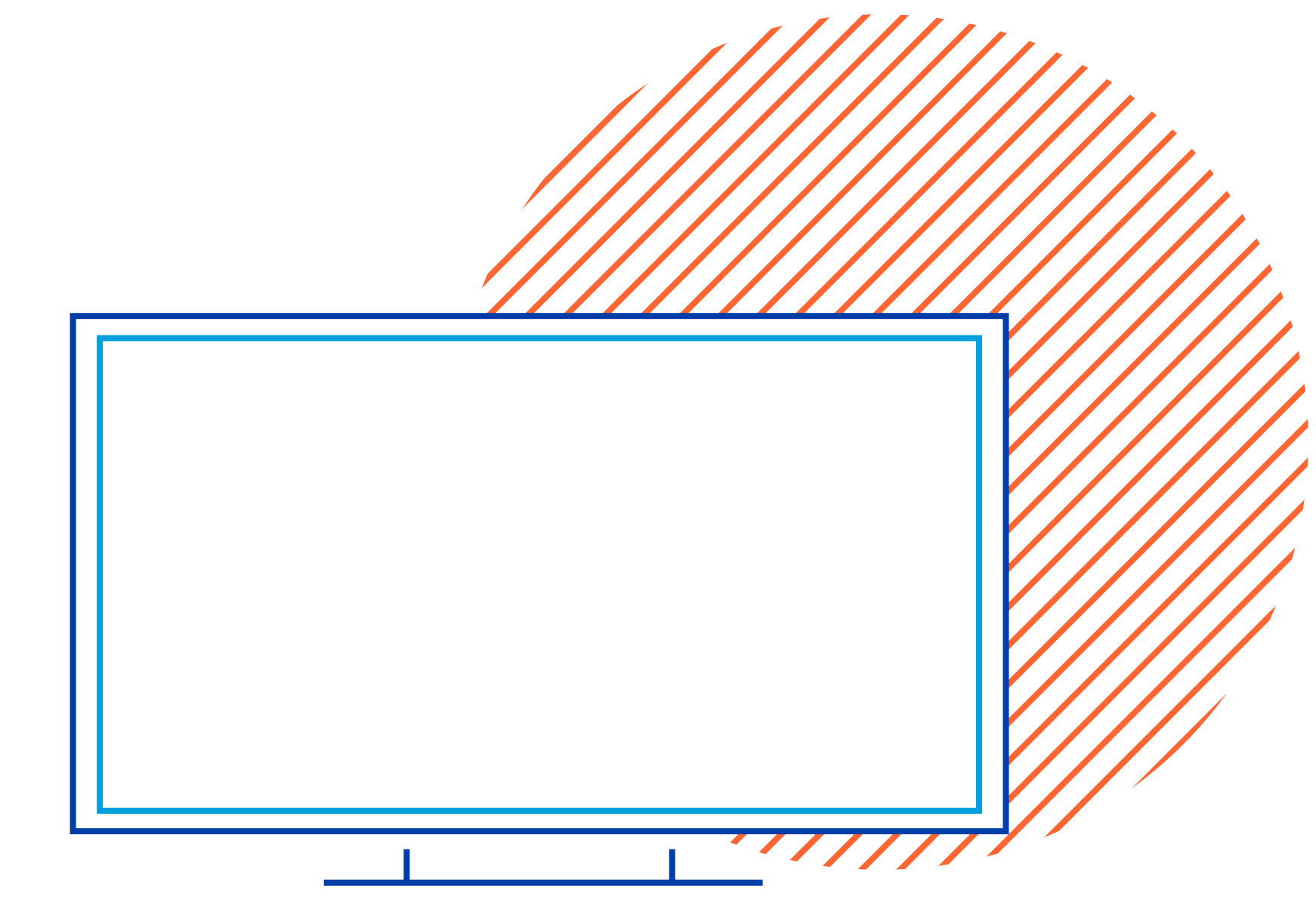
Patented technology reduces infrastructure costs to provide the service.

#### Low Piracy

Only A/V streams are sent out to the remote end-devices.

#### From any device

3D intensive software can be accessed from any end-device, FHD, 60fps.



## Edge content delivery network

### Key elements

#### Latency

Reduced UE to content time.

#### Throughput

No backhauling bottlenecks.

#### Availability

Close to the users, less exposed to connectivity issues.

## VALUE-ADDED SOLUTION

# Solution **outcomes**

**The fast and affordable access to next generation services in areas with poor network coverage.**

NearbyOne's orchestration enables the extension of cutting-edge services to remote locations, leveraging SAT communications. Service providers or companies with remote sites can deploy and manage the latest applications at an affordable CAPEX and OPEX budget.

- Lots of potential beneficiaries: deployable in rural communities, remote enterprise sites, mines, sea platforms, boats, public facilities in wild environments...
- Ultra- fast solution deployment: 1-2 days instead of 1-2 weeks.
- Affordable backhaul costs, with no investment.
- Extension of public 4G/5G networks to access public telecom services.
- Private 4G/5G network on every remote business location with one centralized network Core.
- High-bandwidth, low latency services can run locally thanks to Edge Computing, delivering the same quality standards as in urban areas.
- Local phone calls can be processed locally avoiding the satellite backhaul latency.
- Flexible sizing of the solution to allow limited CAPEX.  
Remote orchestration services enable a tightly controlled OPEX – no support technicians' travel.
- Can be fed by solar/wind power, backed by a fuel engine.



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