

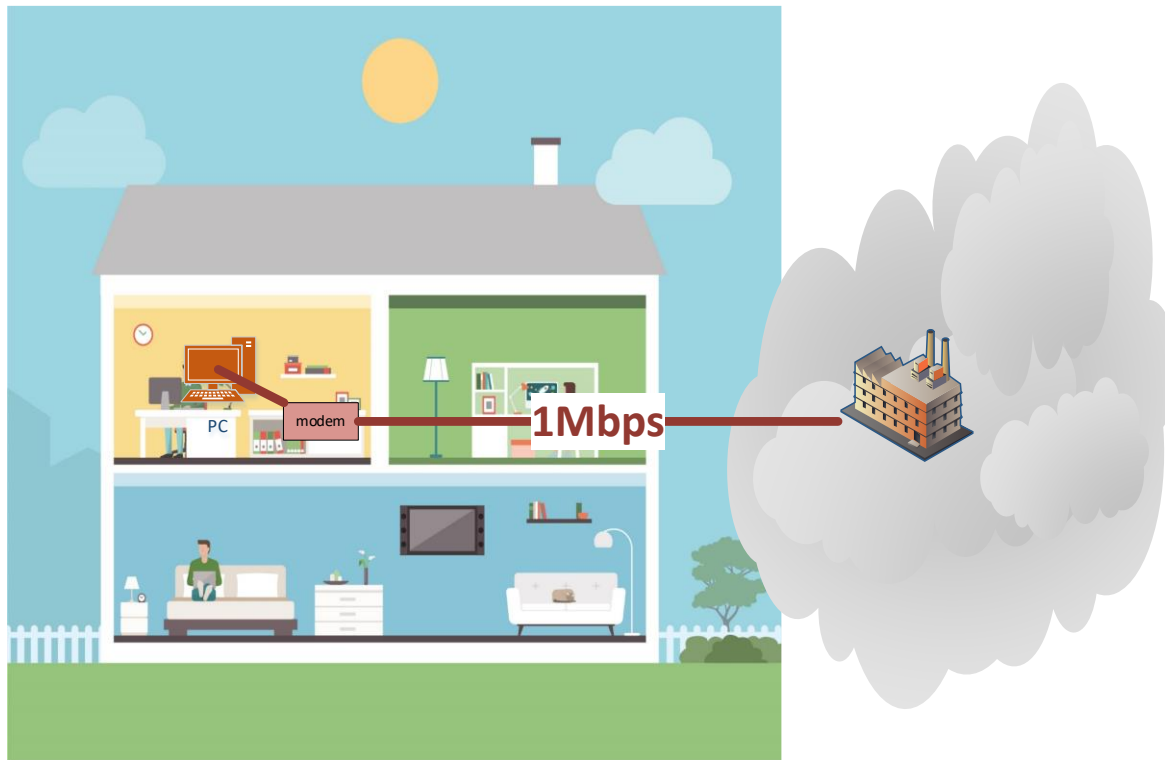
# Operator application and use cases related to F5G

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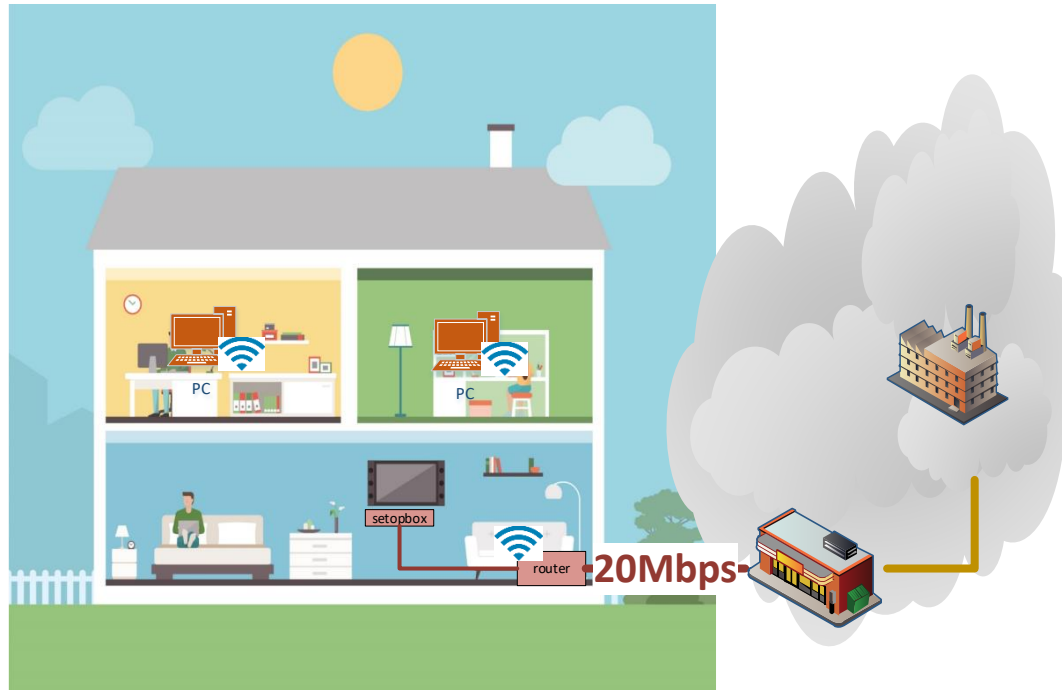


# The Historical Network



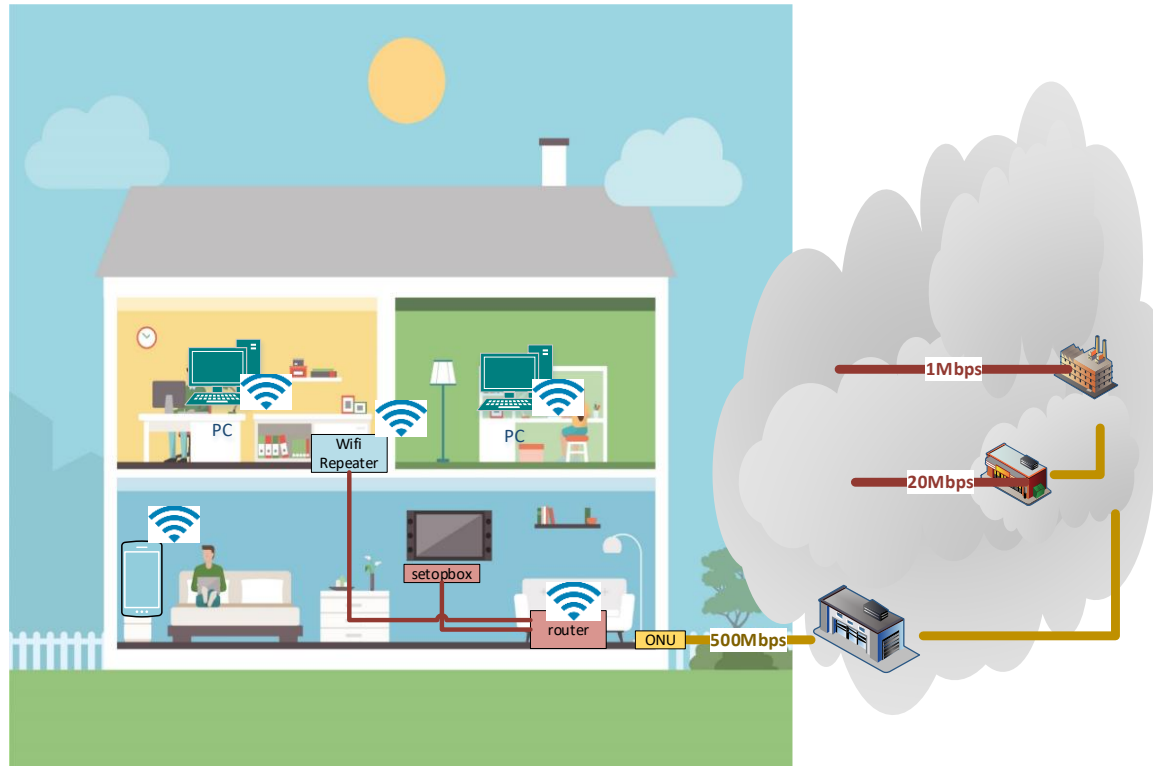
- One device : Desktop
- No Home Network
- Average Bandwidth Capability : 1 Mbps
- Usage: Webbrowsing

# The Previous Gen Network



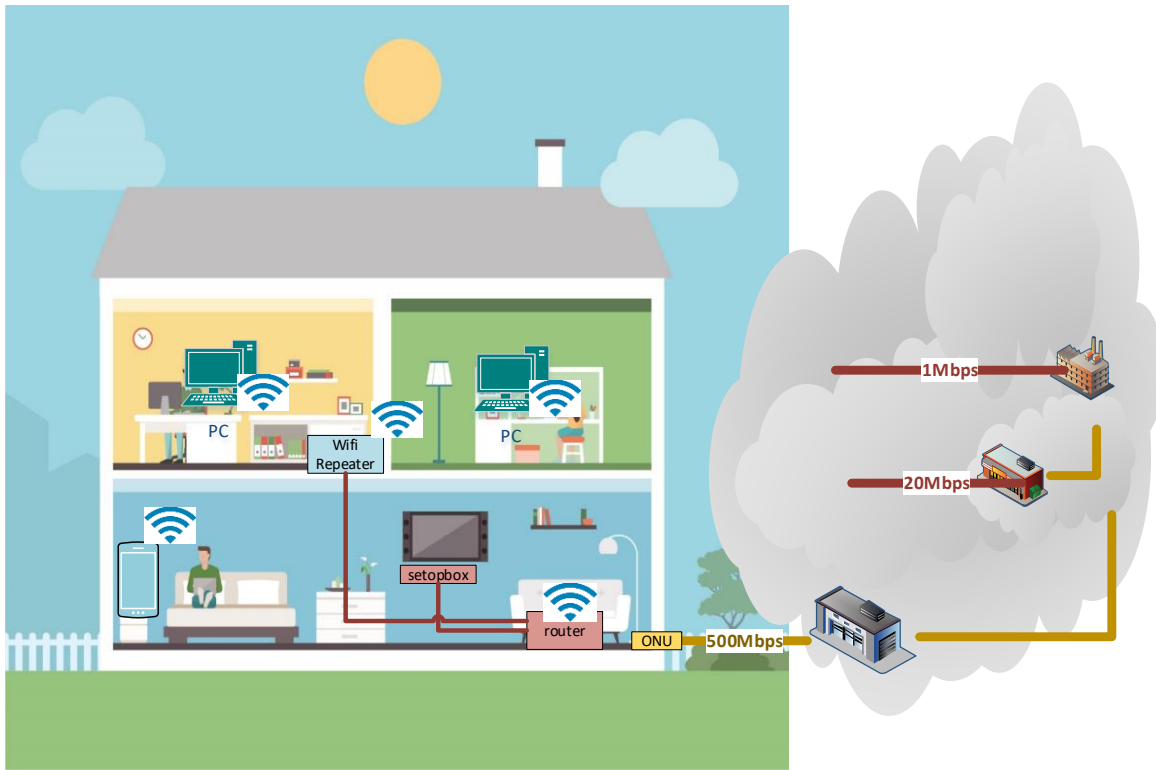
- 2-5 devices: Desktop, **Laptop, Setopbox**
- Home Network : **Wifi 4 , Ethernet switch, CPL**
- Average Bandwidth Capability : **20 Mbps**
- Usage: Webbrowsing, **IPTV, P2P**

# The Best Actual Network



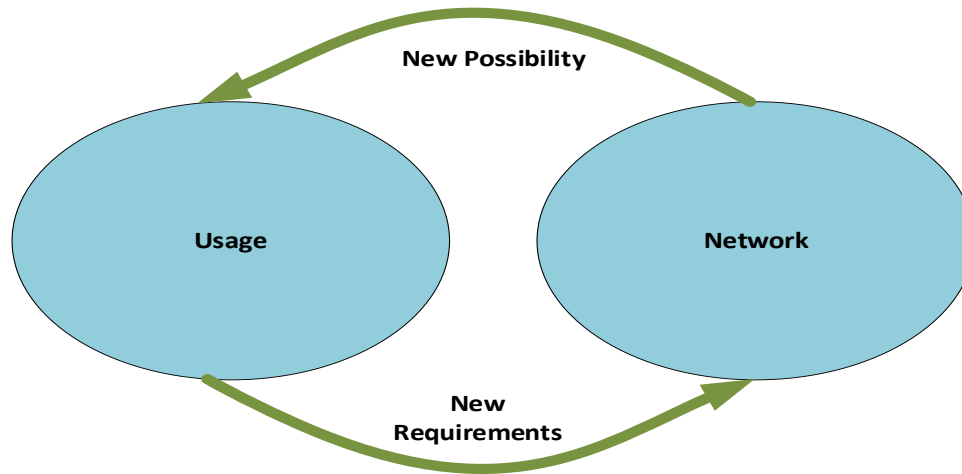
- 5-10 devices: Desktop, Laptop, **Mobile Phone, tablet, TV, printer,...**
- Home Network : **Wifi 5** , Ethernet switch, CPL, **Repeater**
- Average Bandwidth Capability : **500 Mbps**
- Usage: Web browsing, IPTV, **Streaming, Gaming, smartHome**

# the Need Evolution : Actual Network



- 10-20 devices: **Conneted Objects**
- Home Network : **Wifi Coverage, BW evolution**
- Average Bandwidth Capability : **500 Mbps -> ???**
- Usage: Webbrowsing, IPTV, **Live Contents, VideoConference, Cloud Gaming**

# Chicken/eggs paradox in Network



## New Usages:

- Cloud Gaming
- Massive Video Meeting
- Home Office
- Massive streaming
- IoT
- VR

## New Technologies Available:

- IA
- XG(S)PON
- Wifi6
- ...

# F5G Answers

## Enhanced Fixed Broadband (eFBB):

- increase BW Capability

## Full-Fiber Connection (FFC):

- Increase density

## Guaranteed Reliable Experience (GRE):

- Increase quality

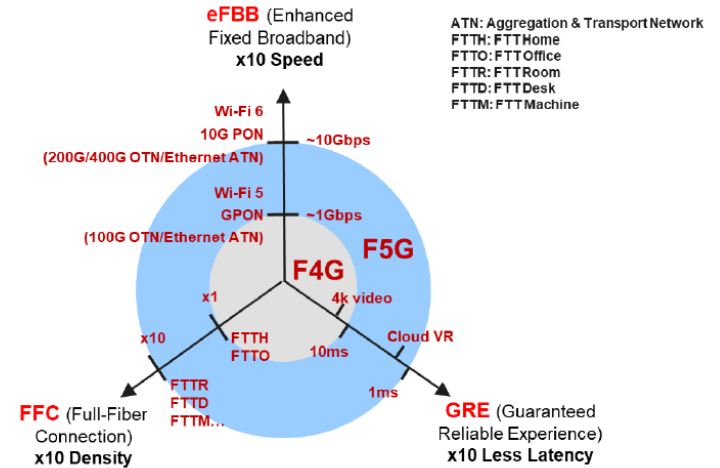
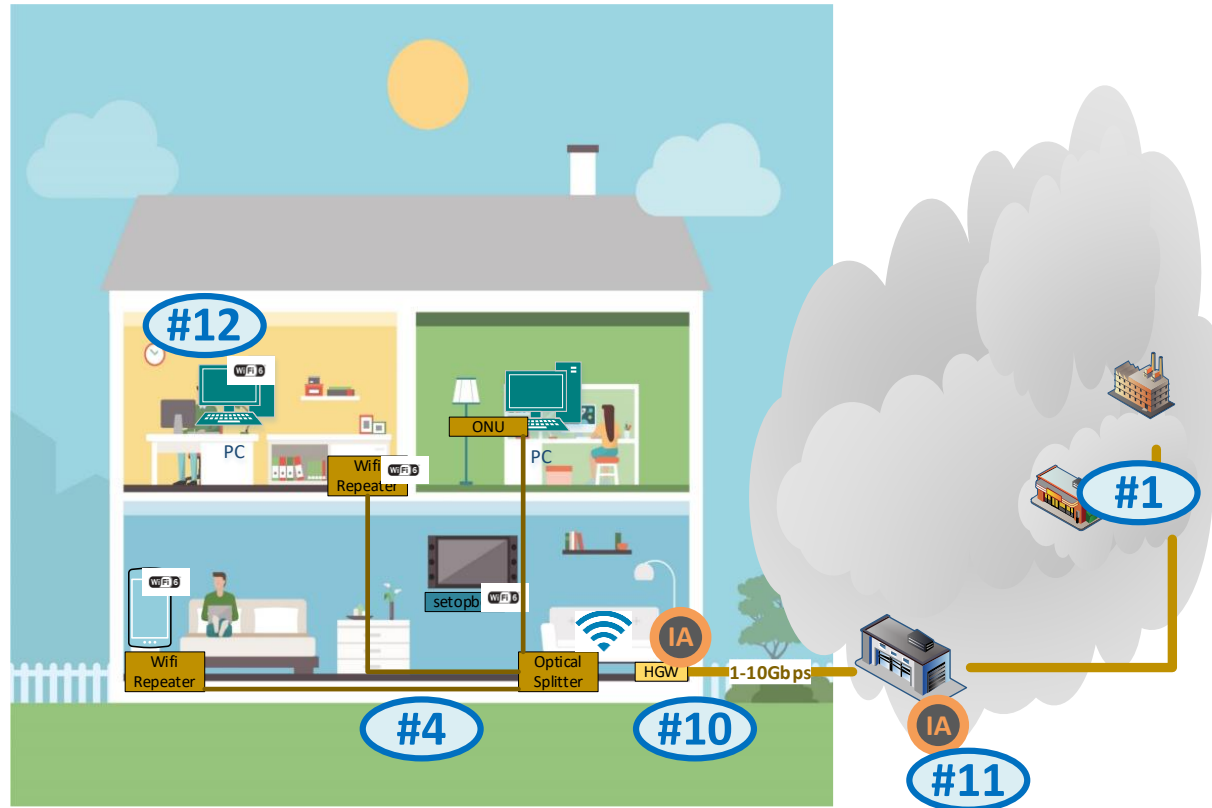


Figure 1: Features of F5G

[https://www.etsi.org/images/files/ETSIWhitePapers/etsi\\_wp\\_41\\_FSG\\_ed1.pdf](https://www.etsi.org/images/files/ETSIWhitePapers/etsi_wp_41_FSG_ed1.pdf)

# F5G in the house



**#1: Cloud Virtual Reality**

**#4: PON on-Promises**

**#10: Scenario based broadband**

**#11: Enhanced traffic monitoring and network control in Intelligent Access Network**

**#12: On Demand High Quality Transport for Real time applications**



# Conclusion

## **Release 1 of usecases :**

- F5G improved Residential Market
- F5G address also Business Segment
- F5G address also Operator Management
- ...

## **Straight Forward evolution for Operators**

# Thanks !!

**Join F5G adventure!!!**

**Don't hesitate for Question !!!**

