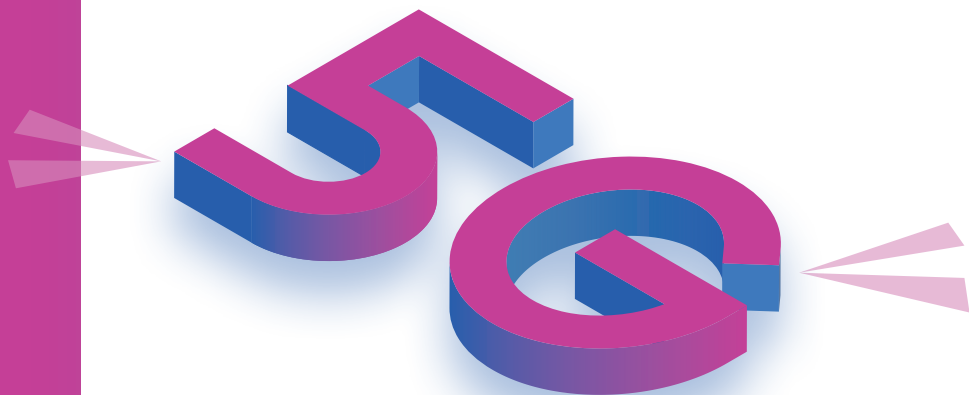


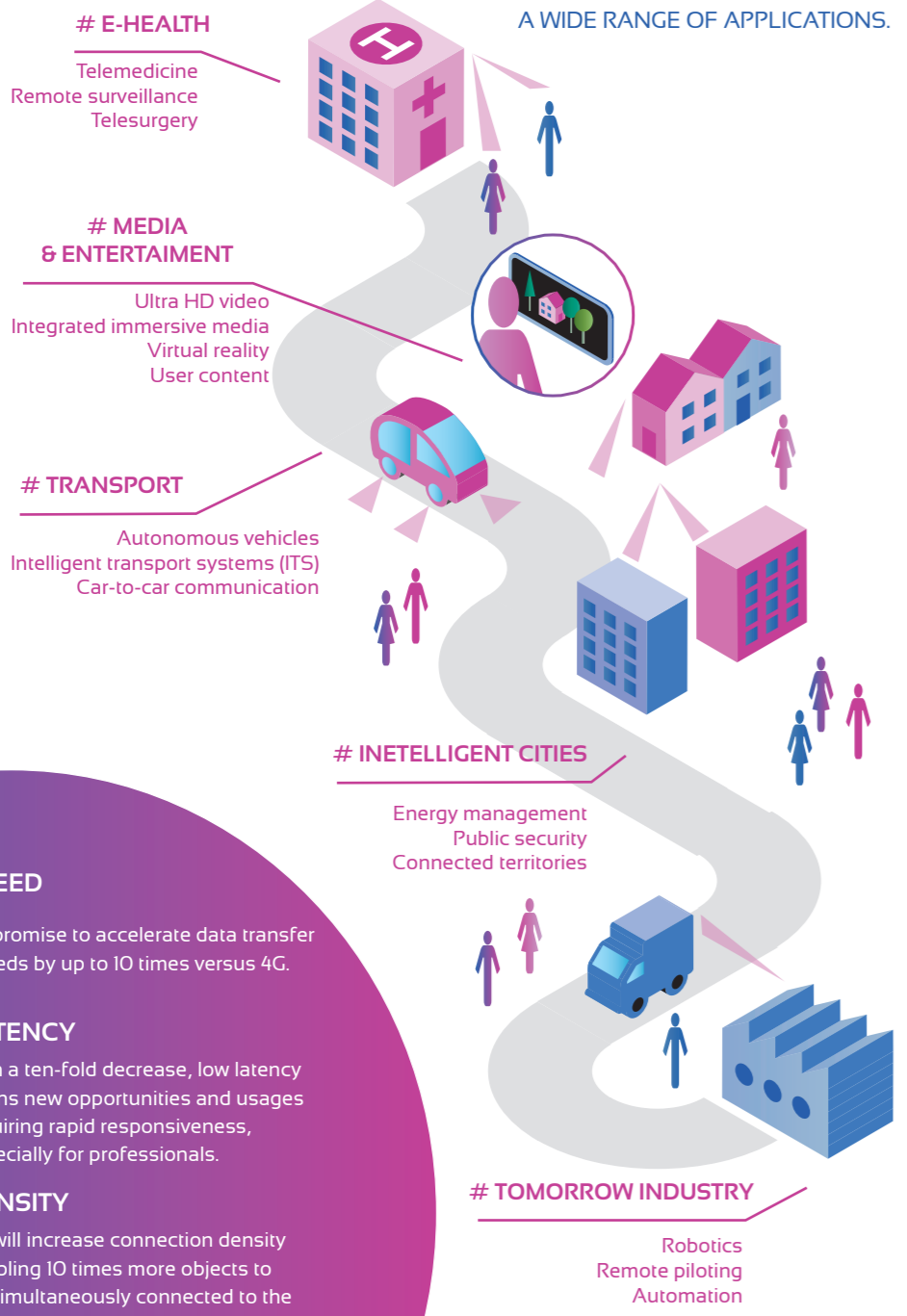
# GET READY FOR 5G



- ▶ WHAT NEW APPLICATIONS WILL **5G** ENABLE?
- ▶ WHAT TECHNOLOGICAL EVOLUTIONS WILL HELP MEET GROWING DATA NEEDS?
- ▶ HOW CAN WE RECONCILE PROVIDING OBJECTIVE INFORMATION AND FAST **5G** DEPLOYMENT?
- ▶ WHEN WILL 5G BECOME AVAILABLE?

## NEW APPLICATIONS

5G IS PRESENTED AS THE NEW GENERATION OF MOBILE NETWORK INFRASTRUCTURE ENABLING A GIANT LEAP IN PERFORMANCE AND A WIDE RANGE OF APPLICATIONS.



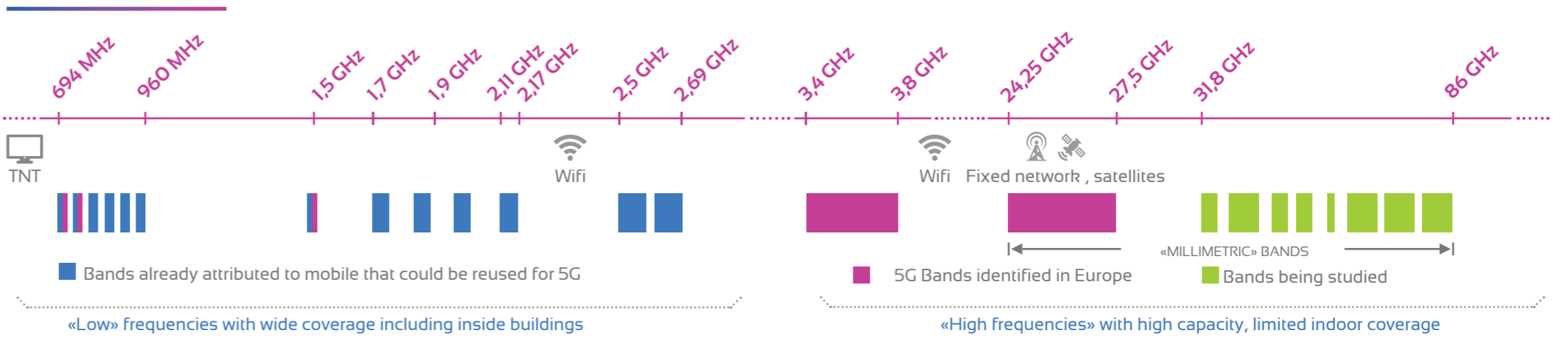
**SPEED**  
5G promise to accelerate data transfer speeds by up to 10 times versus 4G.

**LATENCY**  
With a ten-fold decrease, low latency opens new opportunities and usages requiring rapid responsiveness, especially for professionals.

**DENSITY**  
5G will increase connection density enabling 10 times more objects to be simultaneously connected to the network.

## TECHNOLOGICAL CHANGES WITH 5G

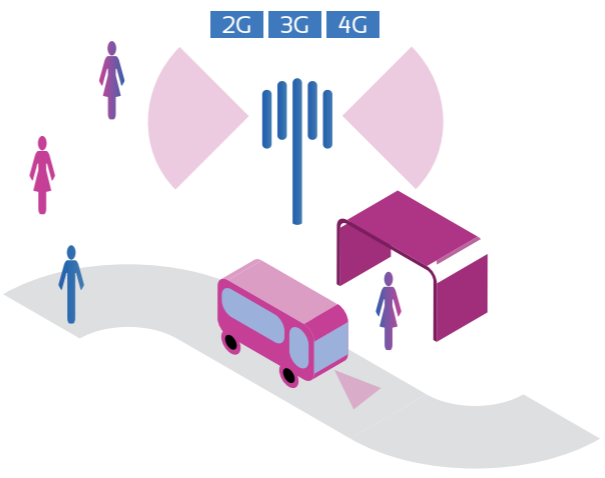
### NEW FREQUENCY BANDS



THE ANFR REPRESENTS FRENCH CONCERNS AND PRIORITIES DURING EUROPEAN AND INTERNATIONAL NEGOTIATIONS TO IDENTIFY AND HARMONISE 5G FREQUENCY BANDS.

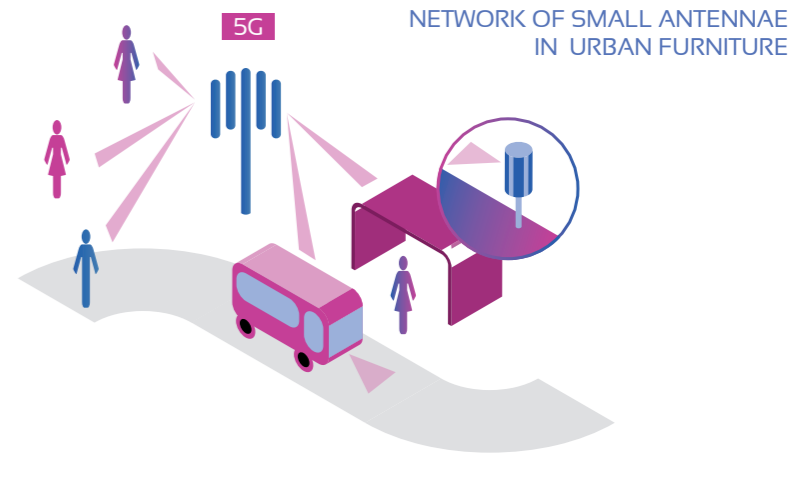
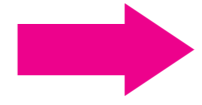
IN EUROPE, TWO NEW BANDS HAVE ALREADY BE CHOSEN FOR 5G.

### TRANSFORMING INFRASTRUCTURE



**CURRENT INFRASTRUCTURE**  
Current mobile networks use antennae that constantly transmit signal in all directions.

5G will be deployed using existing operator infrastructure, as well as intelligent and small antennae installed in urban furniture or inside buildings.



**INTELLIGENT ANTENNAE**  
A new generation of antennae directs signals towards the devices that need them. Combined with high frequency bands, these antennae will significantly increase transfer speeds.

# PUBLIC TRUST AND DEPLOYING 5G NETWORKS



## MONITOR

The ANFR oversees a national programme to monitor and measure public exposure to high-frequency waves, ensuring that the limits are respected. Present on the ground, the organisation also supports different frequency users in coexisting harmoniously and mediates any disputes.

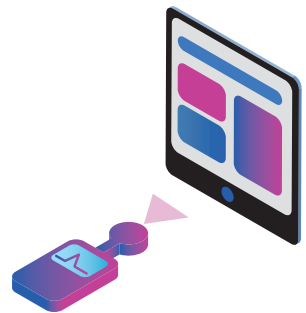
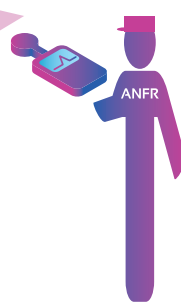


## DIALOGUE

The ANFR's Comité national de dialogue (National Dialogue Committee) is a dedicated arena for different players to exchange and share information to increase public confidence. At a local level, the ANFR accompanies authorities in deploying 5G and managing public exposure to waves.

## INFORME

The deployment of new technologies needs to be accompanied by objective information that answers the public's questions and avoids the spread of false ideas. It is therefore essential to explain, clearly and transparently as possible, what 5G is, its impact on our health and the steps taken to guarantee the network is secure with no interference.



## COMMUNICATE

The "5G pilots" enable the organisation to carry out on-the-ground studies and measure levels of exposure to high-frequency waves. The results are available at [www.anfr.fr](http://www.anfr.fr)

## 5G CALENDAR

2018

### STANDARDISE

- IMPLEMENT FIRST STEPS TOWARDS 5G STANDARDISATION (JUNE)
- PUBLISH NATIONAL ROAD MAP

2019

### TEST

- IMPLEMENT «5G PILOTS» IN FRANCE
- LAUNCH FIRST DEVICES ON THE MARKET

2020

### LAUNCH

- ATTRIBUTION DE FRÉQUENCES DANS LA BANDE 3,5 GHz
- ATTRIBUTION AT LEAST 1GHz IN THE 26 GHz BANDE
- FIRST COMMERCIAL LAUNCHES

2025

### EUROPEAN OBJECTIVE

- ALL EUROPEAN COUNTRIES: 5G COVERAGE IN LARGE CITIES AND TRANSPORT AXES

## NATIONAL ROAD MAP FOR LA 5G

To support and facilitate private investment, the French government and Arcep (National Electronic Communications and Postal Regulatory Authority) have set 3 key targets:

1. launch pilot studies in different regions and lead international 5G testing for industrial applications
2. attribute new 5G frequencies and deploy 5G commercially in at least one large city by 2020
3. open the main transport axes to 5G by 2025

### FOR KEY PROJECT TON ENSURE 5G IS SUCCESSFUL

France has launched several wide-reaching projects:

1. free up and attribute frequencies to 5G
2. encourage development of new industrial applications
3. accompany the deployment of new industrial applications
4. ensure maximum transparency and dialogue in relation to 5G deployment and public exposure to radiowaves

Access the 5G road map:



<https://urlz.fr/8iFl>