



# „5G FOR POLAND” STRATEGY

**DOMINIK KOPERA**

Acting Deputy Director  
Department of Telecommunications  
Ministry of Digital Affairs  
Poland

# COMMUNICATING THE BENEFITS

1

By 2020, EU member states are to invest around 56.6 billion euros in 5G, which in 2025 will bring annual revenues in the main sectors of the economy amounting to 113.1 billion euros

2

Due to the implementation and popularisation of the 5G network it is estimated that across the EU almost 2.4 million jobs will be created

3

In Poland, the implementation of 5G technology will generate by 2025 additional revenue of EUR 13 billion and will create around 570,000 new jobs.

# WHAT DOES THE NEW TECHNOLOGY BRING?

- SMART cities
- CAD vehicles
- fast transfers in the network
- greater network capacity
- 1000-fold increase in the volume of data per unit geographical area
- possibility of servicing several thousand simultaneous wireless sensor connections
- industry 4.0
- intelligent transport
- M2M communication

# MAIN CHALLENGES BY 2025

- Align roadmaps and priorities for a coordinated 5G deployment across all EU Member states, targeting early network introduction by 2018, and moving towards commercial large scale introduction by the end of 2020 at the latest.
- Make provisional spectrum bands available for 5G ahead of the 2019 World Radio Communication Conference (WRC-19), to be complemented by additional bands as quickly as possible, and work towards a recommended approach for the authorisation of the specific 5G spectrum bands above 6GHz.
- Promote early deployment in major urban areas and along major transport paths.
- Promote pan-European multi-stakeholder trials as catalysts to turn technological innovation into full business solutions.
- Facilitate the implementation of an industry-led venture fund in support of 5G-based innovation.
- Unite leading actors in working towards the promotion of global standards.



# WHAT IS STRATEGY „5G FOR POLAND”?

- It is a tool that will enable the effective implementation of the 5G network in Poland, and will provide citizens with access to new technologies and will provide undertakings operating on our market effective with competitive advantage.
- Its goal is also to implement the initiative of the European Commission regarding the creation of an action plan in the process of implementing and launching the 5G network within the European Union.

5G



# MAIN OBJECTIVES:

- **TO SUPPORT TIMELY IMPLEMENTATION OF THE 5G NETWORK IN POLAND IN ACCORDANCE WITH THE INTERNATIONAL DEVELOPMENT OF THIS TECHNOLOGY THROUGH:**
  - speeding and improving of the investment process;
  - reducing the infrastructure maintenance costs;
  - timely ensuring availability of the radio spectrum;
  - actively participating in the international implementation of the 5G network;
  - ensuring network security;
  - reviewing existing regulatory solutions in the field of telecommunications in order to ensure that they are adapted to the upcoming needs related to the development of mobile technologies.

# PARTICIPANTS INCLUDE:



The Minister of Digital Affairs



President of the Office of Electronic Communications



Aliance (Agreement) for the Strategy "5G for Poland"



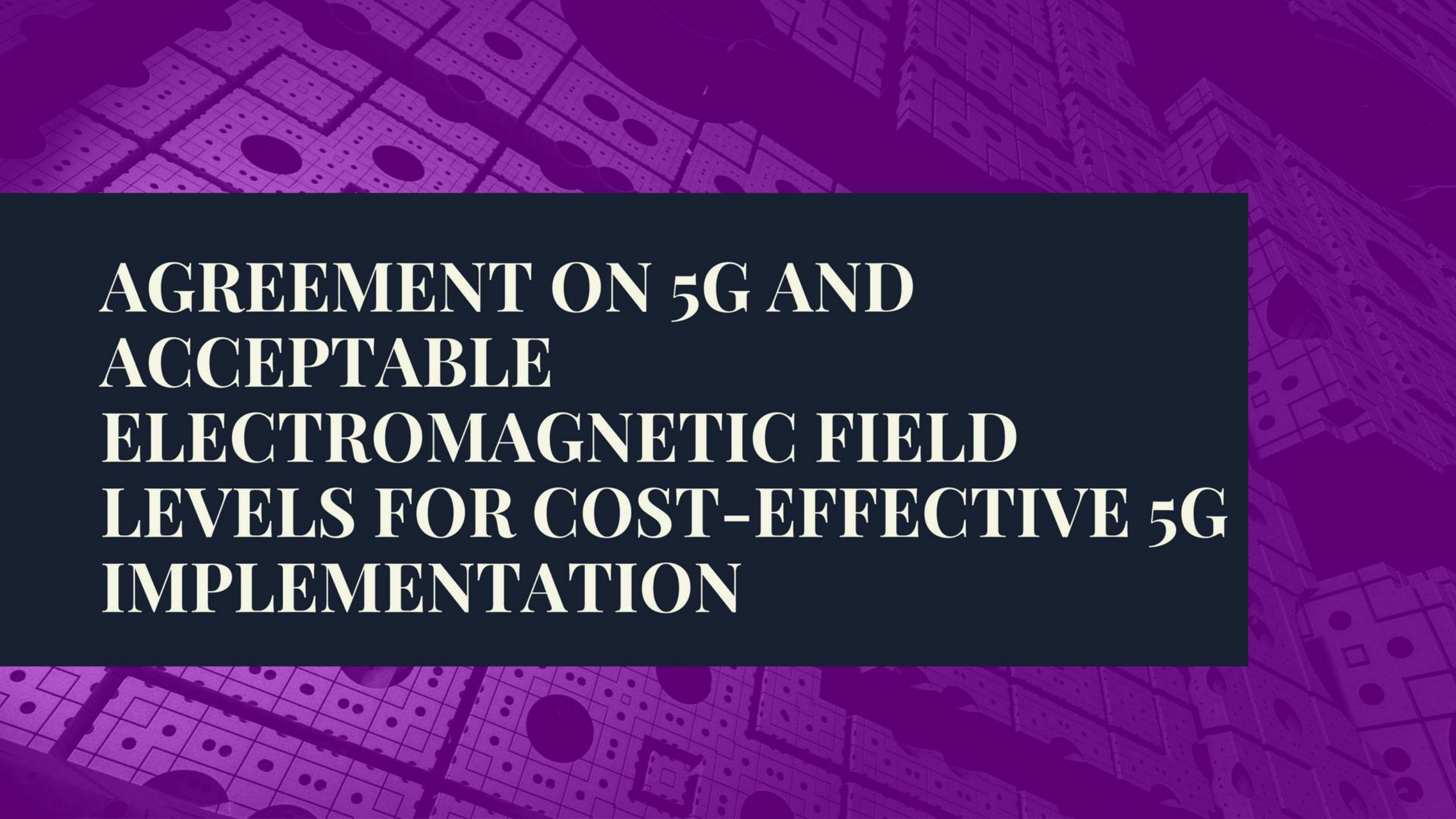
Common Commission of the Government and Local Government



Institute of Communications - National Research Institute







**AGREEMENT ON 5G AND  
ACCEPTABLE  
ELECTROMAGNETIC FIELD  
LEVELS FOR COST-EFFECTIVE 5G  
IMPLEMENTATION**

In order to enable efficient introduction of the **5G network** in Poland,  
an agreement was signed.

The agreement was signed by: the Minister of Digital Affairs, the President of the Office of Electronic Communications and the President of the Institute of Communications, as well as Signatories, ie representatives of operators, infrastructure providers, equipment and solutions in the field of telecommunications, research and development institutions, chambers of commerce and technical universities.

The agreement for the Strategy "**5G for Poland**" is open to new members.

And so „**The Alliance**” was formed



# THE AGREEMENT / AKA THE ALIANCE

- Open forum for cooperation between government administration, telecommunications operators, chambers of commerce, service providers, telecommunications equipment and solutions, research and development institutions, technical universities and Polish start-ups.
- The main objective of the Agreement is cooperation between the interested parties to carry out activities leading to creation and implementation of the "5G Strategy for Poland".
- Realization of the provisions of the "5G Strategy for Poland" - as a result implementation of the 5G network in Poland.

# THE AGREEMENT / AKA THE ALIANCE

## THE AGREEMENT

Many barriers related to the development of telecommunications remain relevant. In addition, there are risks of new barriers to the development of existing networks and the introduction of new systems, including fifth generation systems.

## OBJECTIVES AND SCOPE OF EACH TEAM

- 5G Network Standards and Architecture Team
- Radio Spectrum Team
- Test and trials Team
- Regulatory and cooperation Team
- 5G network security Team
- 5G network promotion Team

# MILESTONES:

## 2018:

- adopting The Strategy
- commencement of legislative work dedicated to 5G networks
- adopting and implementing the National Action Plan for the reallocation of the 700 MHz band

## 2019:

- evaluating The Strategy
- conducting legislative work dedicated to 5G networks
- allocating of state funds for tests and pilotages of the 5g network with a special emphasis on potential applications
- commencement of works on permanent monitoring of the electromagnetic field originating from telecommunications installations

# MILESTONES:

## 2020:

- launching the commercial availability of the 5G network in one of main cities
- fully implementing the European Electronic Communications Code
- fully implementing the EMF information system

## 2021:

- second evaluation of the Strategy

## 2025:

- the final launch of the 5G network in the main cities and transport routes

# THANK YOU!

DOMINIK KOPERA



Ministry  
of Digital Affairs