**ITU**Events

# ITU Regional Cybersecurity Forum for Europe and CIS

27-28 February 2020 Sofia, Bulgaria

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ITU Regional Initiative for Europe on enhancing trust and confidence in the use of ICTs

ITU Regional Initiative for CIS on the development and regulation of infocommunication infrastructure to make cities and human settlements inclusive, safe, and resilient

POLICIES & STRATEGIES

CERTIFICATION FRAMEWORKS

DATA PROTECTION

SECURITY CHALLENGES 5G, eSIM loT, Al









State e-Government Agency

REPUBLIC OF BULGARIA Ministry of Transport, Information Technology and Communications





## 5G: Tackling the security challenge - Croatia

ITU Regional Cybersecurity Forum, Sofia, Bulgaria 25. February 2020.

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While 3G made mobile internet possible and 4G allowed mobile broadband, 5G is expected to become the connectivity infrastructure that will pave the way for new products and services and affect all sectors of society. Benefits will include:



#### E-HEALTH

- Remote monitoring of health, patients' records and smart diagnosis
- Utilising robots to help surgeons and improve medical outcomes



#### **SMART ENERGY GRIDS**

- Highly efficient power lines and fewer outages on a smaller scale
- Easier deployments with lower environmental impact



#### FACTORIES OF THE FUTURE

- Better control over time-sensitive internal processes
- Remote control access to warehouse machinery



#### MEDIA & ENTERTAINMENT

- An amplified viewing experience such as virtual reality
- Ultra fast high-bandwidth applications such as video streaming



#### MOBILITY

- Enabling Connected and Automated Mobility with the goal of zero accidents
- Enabling connectivity in all modes of transport

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#### **TIMELINE**

#### **Timeline**

















30 June

2020



12 March 2019

Report by the European Parliament. 22 March 2019

Conclusions by the European Council. 26 March 2019

The Commission published a Recommendation for Member States to take concrete actions to assess cybersecurity risks of 5G networks and to strengthen risk mitigation measures.

9 October 2019

The Member
States
finalised
the EU
coordinated
risk
assessment
of 5G
networks
security.

21 November 2019

> ENISA, the EU Agency for Cybersecurity published an extensive report on threats relating to 5G networks.

29 January 2020

Publication of the toolbox of mitigation measures by Member States. The Commission Communication on the implementation of the EU toolbox.

30 April 2020

The Commission The Commission calls on calls on Member States Member States to take to prepare first concrete, a report on measurable implementation of key steps to implement key measures by Member States. measures.

By October 2020

Review
of the
Commission
Recommendation
adopted
26 March 2019

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#### **CYBERSECURITY**

- MS report national risk assessment for 5G to EK and ENISA-until 15. July 2019.
- HAKOM made huge effort: MNO, other authorities, vendors, Ministries, ....
- № 29. January 2020. Toolbox
- **Before Toolbox:** 
  - EU coordinated risk assessment of the cybersecurity of 5G networks, NIS Coorporation Group
  - ENISA THREAT LANDSCAPE FOR 5G NETWORKS
- **Toolbox:**

Risk scenarios: R1 -R9

Strategic measures: SM01 -SM08 Technical measures: TM01 - TM10 Supporting actions: SA01 - SA10

Commission has called on Member States to take steps to implement the set of measures recommended in the 5G toolbox conclusions by **30 April 2020** and to prepare a joint report on the implementation in each Member State by **30 June 2020** 

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### **QUESTIONS?**

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