

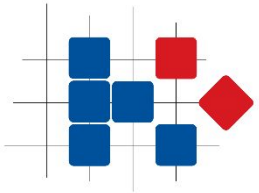
CROATIAN REGULATORY AUTHORITY
FOR NETWORK INDUSTRIES



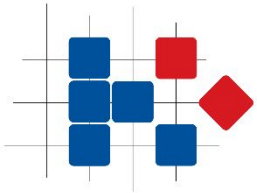
5G Toolbox Development and Implementation

An NRA view for the RIPE NCC Roundtable

Athens, 22 April 2024

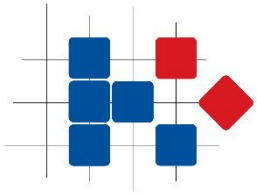


- Cooperation in developing secure 5G
- Internal HR team
- Done so far, new challenges
- Conclusions
- BEREC – recent activities



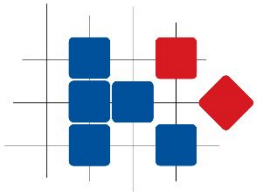
Decision on the joint approach

- 22 March 2019 European Council call for a concerted approach to the security of 5G
- 26 March 2019 EC – Recommendation 2019/534 on the cybersecurity of 5G networks
- 3 Dec 2019 – Council conclusions on the significance of 5G to the European Economy and the need to mitigate security risks linked to 5G



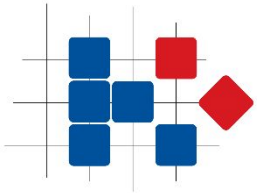
EU-wide risk assessment

- — EU MS national 5G risk assessment by 30 June 2019
- — 9 October EU-wide risk assessment



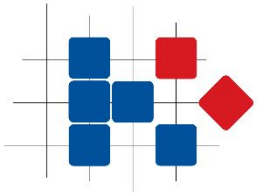
The 5G Toolbox

● — 29 January 2020 EU 5G Toolbox



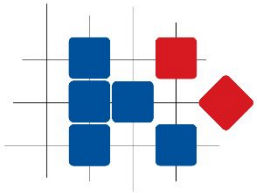
Toolbox implementation and further work

- 21 Nov 2019 ENISA Report on threats
- July 2020 – 1st report on the 5G Toolbox implementation
- December 2020 New EU cybersecurity strategy and report on 5G
- 2021 – continued implementation of the measures from the 5G Toolbox
- 11 May 2022 Report on Open RAN
- Exchange of information and work within the NIS CG 5G/5G and telecoms WG

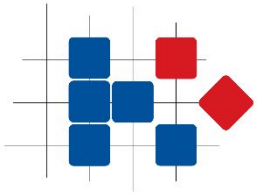


Toolbox implementation and further work

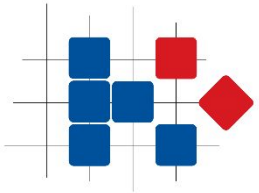
- 9 March 2022 Nevers Call – Call to formulate new recommendations
- First questionnaire on subsea infrastructure (internal)
- June 2023 2nd report on the 5G Toolbox implementation
- 21 Feb 2024 White paper
- NIS2 transposition
- CER transposition
- Cyber Solidarity Act



- National Cyber Security Council (NCSC)
<https://www.uvns.hr/hr/informacijska-sigurnost/kiberneticka-sigurnost>
- 5G Security WG within the NSSC, formed in May 2019, chaired by the NRA (5GS WG)
- Regular contact and exchange of information with the operators, vendors, academia
- International involvement – all members of the 5GS WG

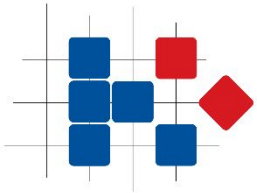


- NIS CG
<https://digital-strategy.ec.europa.eu/en/policies/nis-cooperation-group>
- BEREC 5G/CS WG
<https://bereg.europa.eu/>
- ENISA
<https://www.enisa.europa.eu/>
- Bi-lateral, tri-lateral co-ordinations, conferences, initiatives



HR – developing measures

- National risk assessment by 30 June 2019 – consultations with all stakeholders
 - Operators, industry (all major vendors), academia, CRO-IGF 2019
- New National Cyber security strategy – included 5G
- NIS CG
- BEREC
- ENISA and other

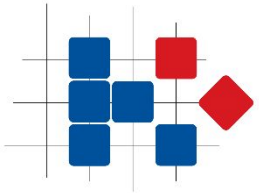


HR Toolbox implementation

- Consultations with vendors and operators on the 5G Toolbox measures
- BEREC questionnaires and cooperation (SM05, SM06, Open RAN, etc)
- 14 October 2021 NRA ordinance – implementing 5G Toolbox technical measures

<https://www.hakom.hr/hr/pravilnici-2042/2042>
- 12 July 2022 New Electronic Communications Law – implementing 5G Toolbox strategic measures

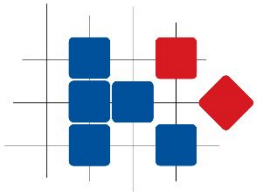
https://narodne-novine.nn.hr/clanci/sluzbeni/full/2022_07_76_1116.html
- 28 Feb 2024 - Public consultations on new Ordinance for strategic measure on HRV



Further steps



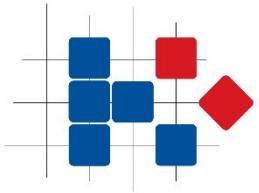
- Monitoring the technical measures implementation
- New ordinance with mechanism for strategic measures
- Monitoring the all measures implementation



Conclusions

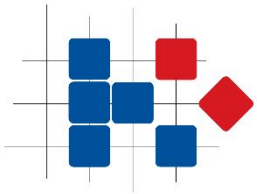


- Secure 5G networks and communications networks and services in general are of great importance for member states and the EU
- Cooperation and coordination is at the core of the European approach
- HR is committed to the common EU approach in implementing the 5G Toolbox and other measures



Recent BEREC work

- 2 Questionnaires by end of May 2023 for NRAs and operators
- October 2023, Report 1: Secure 5G Networks
- December 2023, Report 2: Current CS Challenges and Dependencies
- 2 Project Requirements Documents (PRDs) approved for 2024:
- Support in Reinforcing EU's CS Capabilities („Ad hoc”)
- Opportunities and Challenges for Network Resilience („WS in Q4/2024”)
 - On Friday 29 March launched a new survey (EU Survey tool)



THANK YOU



Zdravko Jukić