Lecture:
Legal and financial aspects of the Macedonian eHealth care system

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May2023

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Legal aspects of the Macedonian eHealth care system

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Methodology and goals

- Literature review
- Mapping of national legislation,
- Historical and comparative methods,
- Analyzing and synthesis of online reports, information, news and working documents released by WHO and EC

- Analyzing the transposition of the acquis communautaire in the field of digital health of the national legislation,
- The development, functioning and tendencies of the e-health system at national level
- The practices and their impact on the e-health system and legislation

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WHO Survey for EU Member States in the WHO European Region, 2016

- 84% of MS in the WHO European region have policies to support their progress in achieving universal health coverage
- 70 % of MS have a national eHealth policy or strategy
- 69% of MS have financial support available specifically for the implementation of their national eHealth strategy or policy
- 60% of MS report having a policy or strategy guiding the development of their national HIS
- 89% of MS offer education or training on how to use ICT and eHealth

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eHealth: Digital Health and Care

preparing for the future

- The Commission's Communication on the Transformation of Digital Health and Care of April 2018 aims to enhance the digitization of the health and care sectors. The Communication identifies 3 pillars around which activities will be based:

1. Secure data access and sharing;
2. Connecting and sharing health data for research, faster diagnosis and improved health;
3. Strengthening citizen empowerment and individual care through digital services.

European Commission, Consumers, Health, Agriculture and Food Executive Agency, *eHealth : digital health and care*, Publications Office, 2019, https://data.europa.eu/doi/10.2818/419902

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Infographics on digital Health care ,2018
https://ec.europa.eu/health/sites/health/files/ehealth/docs/2018_ehealth_infographic_en.pdf

Digital Health and Care

TRANSFORMATION OF HEALTH AND CARE IN THE DIGITAL SINGLE MARKET - Harnessing the potential of data to empower citizens and build a healthier society

European health challenges

- Ageing population and chronic diseases putting pressure on health budgets
- Unequal quality and access to healthcare services
- Shortage of health professionals

Potential of digital applications and data to improve health

- Efficient and integrated healthcare systems
- Personalised health research, diagnosis and treatment
- Prevention and citizen-centred health services

What EU citizens expect...

90% agree — To access their own health data (requiring interoperable and quality health data)

80% agree — To share their health data (if privacy and security are ensured)

80% agree — To provide feedback on quality of treatments

Support European Commission:

1 Secure access and exchange of health data

Ambition:

Citizens securely access their health data and health providers (doctors, pharmacies..) can exchange them across the EU.

Actions:

- eHealth Digital Service Infrastructure will deliver initial cross-border services (patient summaries and ePrescriptions) and cooperation between participating countries will be strengthened.
- Proposals to extend scope of eHealth cross-border services to additional cases, e.g. full electronic health records.
- Recommended exchange format for interoperability of existing electronic health records in Europe.

2 Health data pooled for research and personalised medicine

Ambition:

Shared health resources (data, infrastructure, expertise..) allowing targeted and faster research, diagnosis and treatment.

Actions:

- Voluntary collaboration mechanisms for health research and clinical practice (starting with "one million genomes by 2022" target).
- Specifications for secure access and exchange of health data.
- Pilot actions on rare diseases, infectious diseases and impact data.

3 Digital tools and data for citizen empowerment and person-centred healthcare

Ambition:

Citizens can monitor their health, adapt their lifestyle and interact with their doctors and carers (receiving and providing feedback).

Actions:

- Facilitate supply of innovative digital-based solutions for health, also by SMEs, with common principles and certification.
- Support demand uptake of innovative digital-based solutions for health, notably by healthcare authorities and providers, with exchange of practices and technical assistance.
- Mobilise more efficiently public funding for innovative digital-based solutions for health, including EU funding.

Following the EU eHealth Action plan 2012-2020 - Innovative healthcare for the 21st century

- The Action Plan commits Member States to collaborate to support and boost investment in eHealth.
- DigitalHealthEurope's main objective the **deployment of digital solutions** for person-centred integrated care
- Aims to create new job opportunities in the research, health, medicine and ICT sectors, education , trainings .

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Strategy for the Development of Macedonian Integrated Health Information System (IHIS)

- The idea presented in this strategy was to create integrated Information and Communication Technology (ICT) system for the whole health system, which, together with the electronic systems in the health care organizations, will enable communication, networking, and integration of the health care organizations
- The realization of this target also imposed the necessity for adoption of new laws, as well as harmonization of the existing laws and by-laws and development of new law for the regulation of the new IHIS

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In practice from 2013

- Ministry of health according to the Strategy for developing the Macedonian integration system" together with all stakeholders involved, the Health Insurance Fund and the Institute for public health an other close connected institutions (healthcare institutions and agency)

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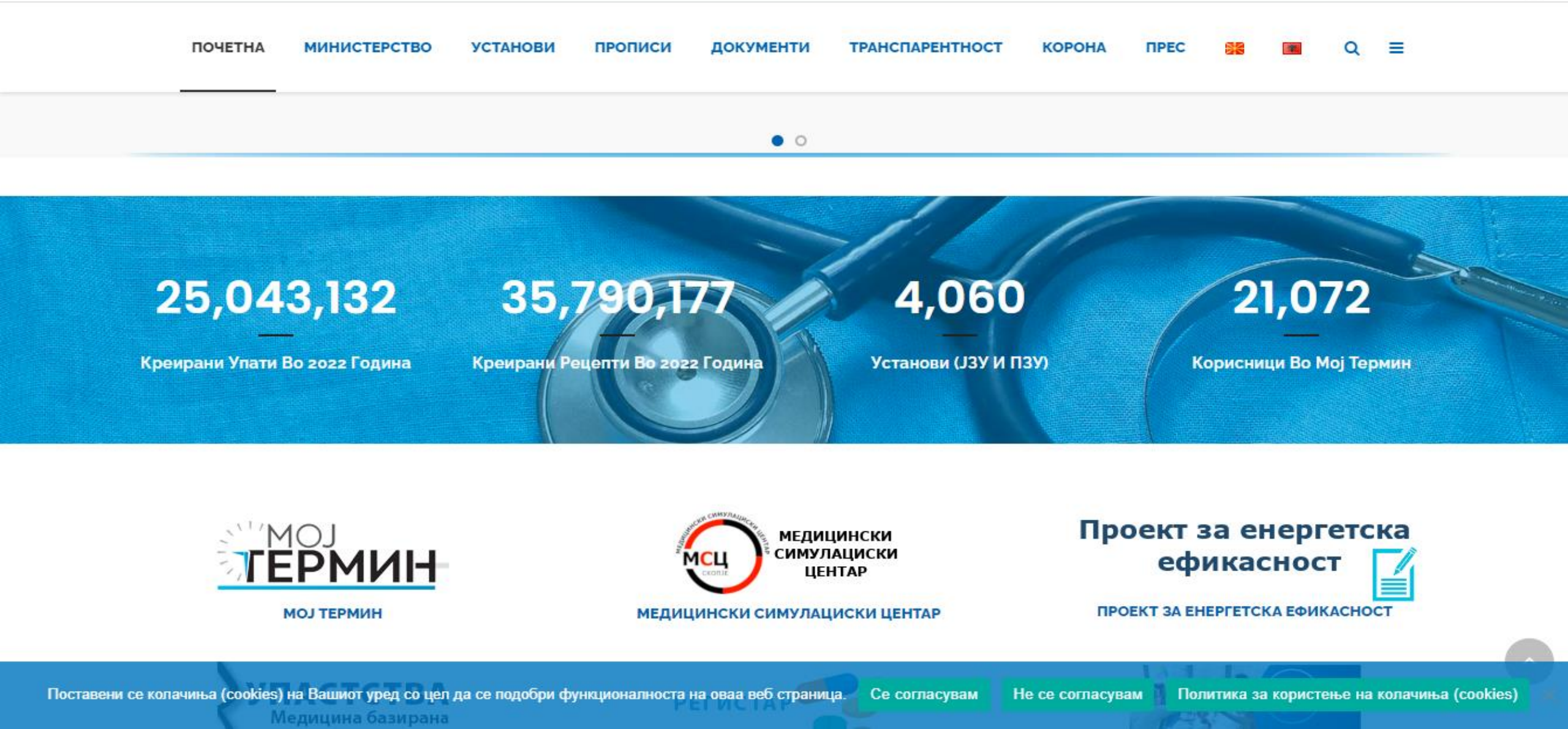
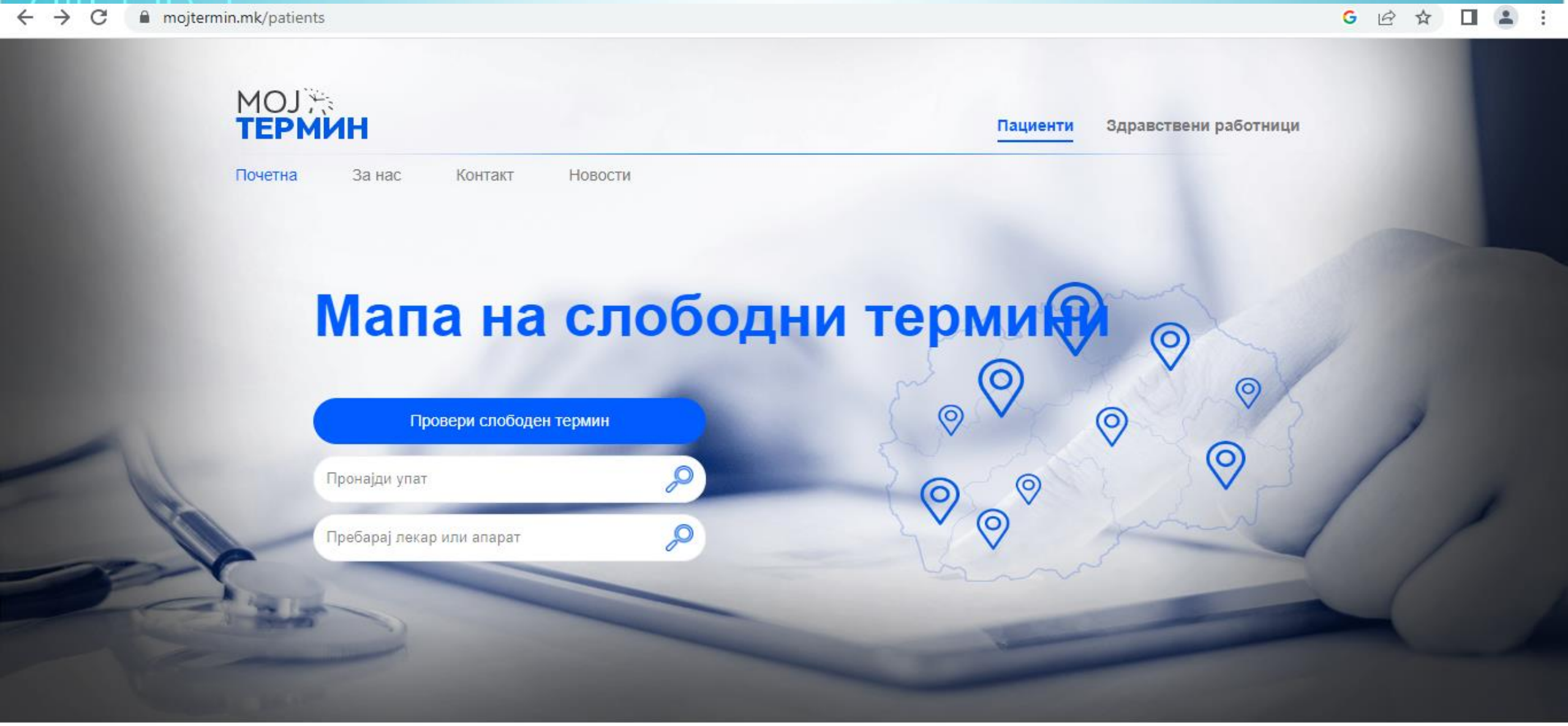
Web page of the Ministry of Health



“ My Appointment” (Moj термин)



Financing the Healthcare and eHealthcare Systems

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Defining public health financing

- *Health financing* refers to the "function of a health system concerned with the mobilization, accumulation and allocation of money to cover the health needs of the people, individually and collectively, in the health system… the purpose of health financing is to make funding available, as well as to set the right financial incentives to providers, to ensure that all individuals have access to effective public health and personal health care" (WHO 2000).

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The Basic principals for healthcare financing

- **Resource mobilization** (how the health system generate and collect revenues)
- **Pooling** (combining financial resource from multiple sources to share the financial risk of paying for healthcare)
- **Purchasing** (mechanism to pay healthcare providers for health services)

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Factors Influencing the Choice of Health Care Financing

- Economic
- Demographic
- Incomes
- Education (knowledge and experience)

Извор: Финансово право (2010) Пендовска, Максимовска –Велјановски, мангова Пољавиќ

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Which countries spend the most on health care?

- From the EU member states for 2019:
- - Germany (11.7% of GDP) France (11.1% of GDP)

- In the world 2019: USA

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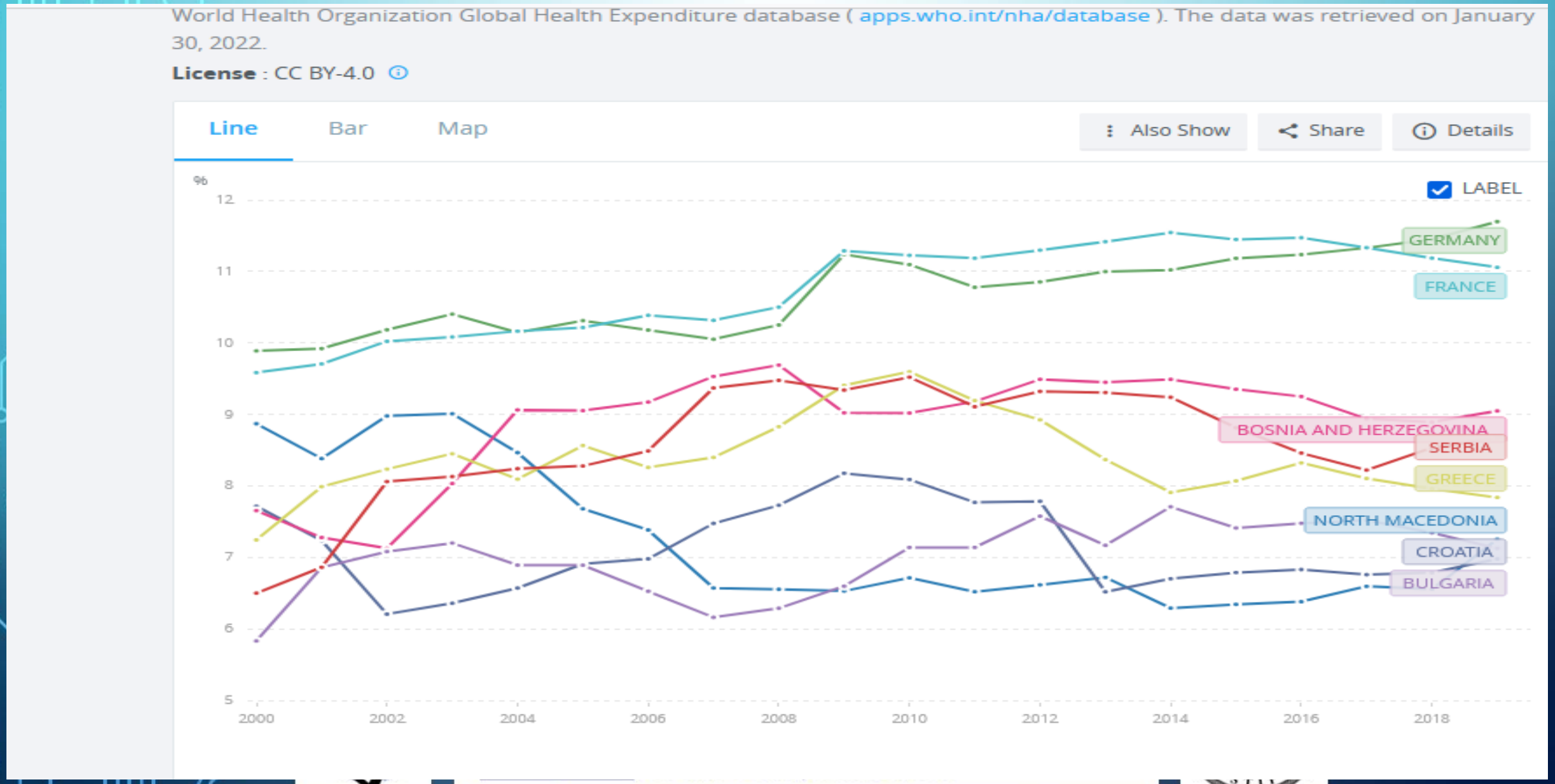
Health expenditure (% of GDP) - North Macedonia, Germany, Croatia, Bosnia and Herzegovina, France, Bulgaria, Greece, Serbia



Health expenditure per capita

- In 2019, health expenditure per capita for North Macedonia was 437 US dollars. Health expenditure per capita of North Macedonia increased from 164 US dollars in 2000 to 437 US dollars in 2019 growing at an average annual rate of 5.66%.*

* https://knoema.com/atlas/North-Macedonia/Health-expenditure-per-capita

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Classification of Healthcare Institutions

- Public
- Private

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Conclusions

- eHealth does not take any part of the general strategic goals of the Ministry of Health of North Macedonia in the period of 2016 till this day
- No specific legislation but existence/adoption of specific legal provisions or several provisions in the general healthcare legislation. This is the case with the Electronic health card regulation which legal framework has been set in the Law on Health Insurance, and the Integrated Health Information System which legal framework is set in the Law on Health Care.
- to be provided right training and knowledge,
- To invest and finance knowledge of adequate health workers

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Thank you

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Jean Monnet Coordinator (2020-2022)
EU E-Health and North Macedonia: From Current Practice to Implementation (EUEHL)
Project Reference: 621268-EPP-1-2020-1-MK-EPPJMO-PROJECT
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