

How Big Data could improve the performance of health care systems in Europe

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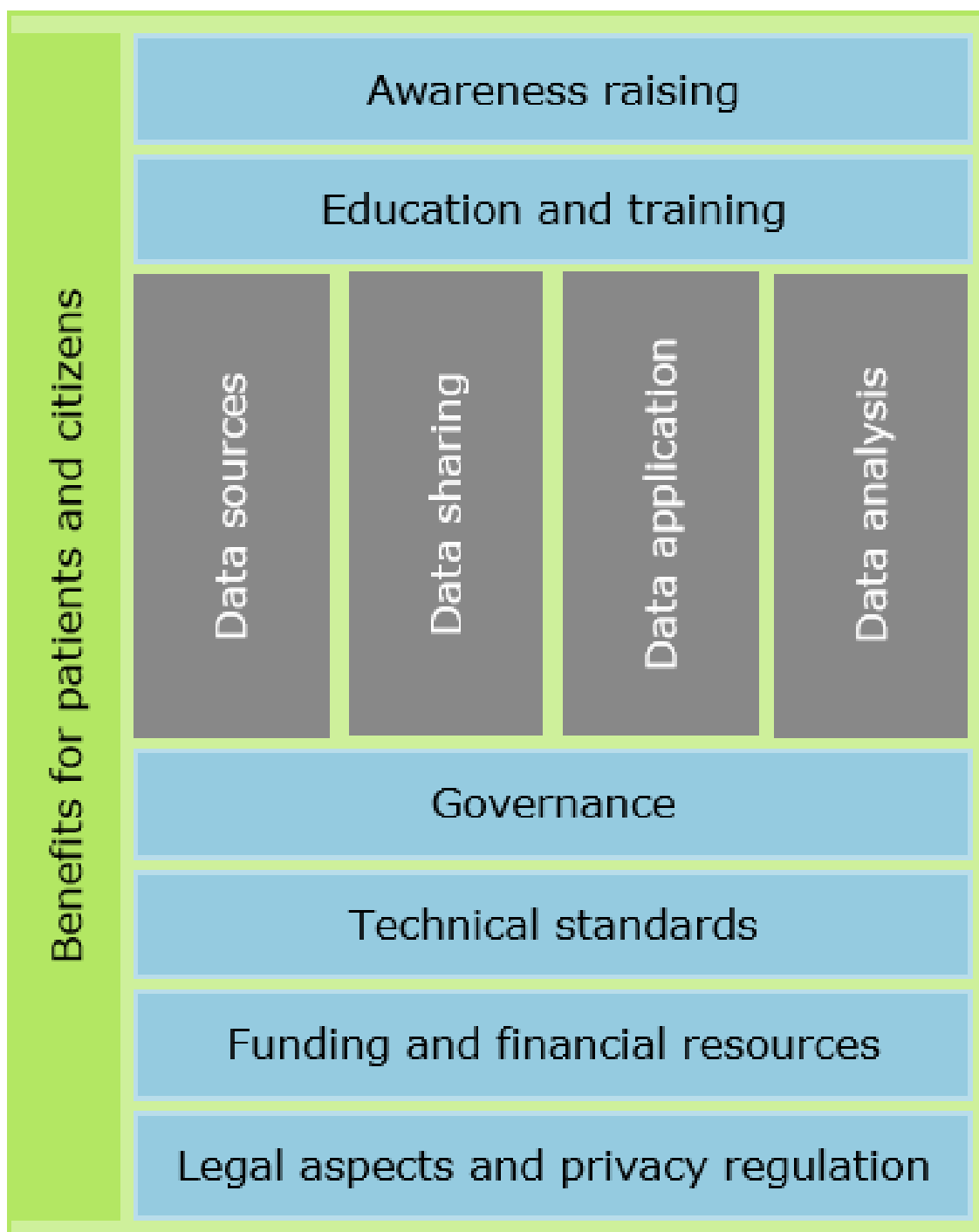
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Background

- » EU Member States are trying to better integrate e-Health and its functions into their national health systems, amongst others with the objective to improve the performance and sustainability of their systems.
- » One central aspect, besides the transferability of health data across borders of countries, is the access to health information by decision makers, health personal and citizens alike.
- » The eHealth Network with its work plan aims to cover the organizational, technical, semantic and legal interoperability of eHealth implementations.

Considerations

- » We think that Big Data in Health should be seen as a tool to reach certain purposes that benefit the patient or citizen and that can be utilised to improve the system performance.
- » Current ethical standards must be maintained and not be compromised for potential benefits of Big Data.
- » We see a growing tendency to "mistrust" the use of big data in many societal sectors.



Policy recommendations - Framework

Policy recommendations / 1

- » Awareness Raising - Show Benefits for European citizens and patients from the Public Health Perspective.
- » Strengthen human capital with respect to the increasing need for a workforce that can utilize the potential of Big Data in Health.
- » Expand existing and explore new sources of Big Data in Health and secure their quality and safety.

Policy recommendations / 2

- » Promote open use and sharing of Big Data in Health without compromising patients' rights to privacy and confidentiality.
- » Increase target-oriented application of Big Data analysis in health based on the needs and interests of stakeholders including patients
- » Identify the potentials of Big Data analysis, improve analytical methods and facilitate the use of new and innovative analytical methods

Policy recommendations / 3

- » Implement governance mechanisms to ensure secure and fair access and use of Big Data for research in health.
- » Ensure purposeful investment steered by the EC to warrant cost effectiveness and sustainability of systems.
- » Clarify and align existing legal and privacy regulation of Big Data in Health.

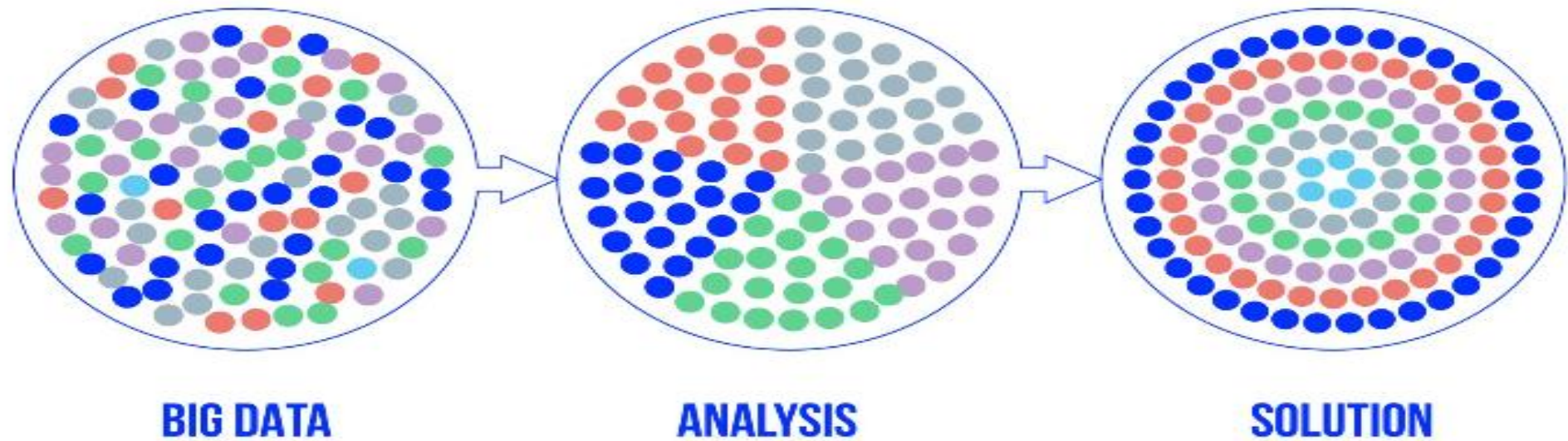
Potential Way Forward

Next steps to be taken by the eHealth Community and also Members States are:

- » The development and implementation of a communication strategy to increase the awareness of the added value of Big Data in Health
 - » To encourage a positive public mind set towards the field in Europe
- **WP 5 “Innovative Use of health Data” of the upcoming 3rd Joint Action eHAction, led by Hungary addresses these points**

Innovative use of health data

eHAction Priority



Inform the society of the **benefits from analysis of large volumes of data** generated across healthcare sector and others.

Main Sources

- » E-Health Multinannual Work Programme 2018-2021
- » JASeHN - Joint Action to Support the eHealth Network
- » Proposed Activities for the new 3rd Joint Action eHAction
- » EU Study Big Data in Public Health, Telemedicine and Healthcare, Brussels
https://ec.europa.eu/health/sites/health/files/ehealth/docs/bigdata_report_en.pdf

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