SESSION 3:ARTIFICIAL INTELLIGENCE - NPHIS ROLE IN UTILIZING THE OPPORTUNITIES AND ADDRESSING THE RISKS

Moderated by Dr. Trygve Ottersen, Executive Director, Norwegian Institute of Public Health (FHI), Norway, and Chair, IANPHI Europe Network

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HOSTED BY

Dr. Trygve Ottersen, Executive Director, Norwegian Institute of Public Health (FHI), Norway, and Chair, IANPHI Europe Network

INTRODUCTORY SPEECH

Dr. Yiannos S. Tolias, Legal Lead AI and AI Liability in Healthcare, European Health Data Space (EHDS) Team, European Commission (EC)

EU'S REGULATORY FRAMEWORKS ON AI AND ITS IMPLICATIONS FOR PUBLIC HEALTH

Dr. Trygve Ottersen, Executive Director, Norwegian Institute of Public Health (FHI), Norway, and Chair, IANPHI Europe Network

With thanks to Kishan Chudasama!

PRESENTATION OF THE SURVEY AND OF THE OUTLINE FOR A FRAMEWORK FOR HOW NPHIS CAN APPROACH ARTIFICIAL INTELLIGENCE

THE SURVEY

Survey

- Follows IANPHI Europe webinar last year and session at the IANPHI annual meeting in Kigali

- Survey sent out to member institutes of the European network. 16 institutes responded.

- Four questions, related to
    - Current applications
    - Experiences so far
    - Planned measures
    - Support from IANPHI

Applications

- Some institutes have not yet adopted AI, while others reports multiple applications.*

- Several report variable use within the institute, e.g. "pockets of adoption"

- The primary areas of application vary considerably

- Applications included: **summarizing and reformatting text**; translation; transcribing and summarizing meetings; **search information in document or database**; coding; creating visuals; **literature review**; **surveillance of infectious diseases; disease forecasting**; analysis of transmission dynamics; vaccine efficacy assessment and development; image recognition; diagnosis and prediction of diseases from medical datasets; text mining; symptom extraction; social listening; prediction of nitrate concentration in groundwater; drug analysis; psychological resilience in social crisis; **research**

Challenges

- Data protection and privacy
- Competence
- Bias and discrimination
- Inaccuracy
- Transparency and explainability
- Governance, incl. legislative clarity
- Infrastructure
- General understanding in public
- Data availability and quality
- External collaboration
- Change in culture and organization
- Workers' worries and mental health
- Ecological impact

Planned measures

- Guidelines

- Mapping of activities

- Mapping of risks and opportunities

- Training and awareness

- External collaboration

- Recruitment

- Develop strategy

- Development of evaluation frameworks

- Establishment of new internal entities

- Monitor developments

- Secure funding

- Research

Internally, but for some also externally

Support from IANPHI

- Organize webinars, workshops, training

- Facilitate sharing of experiences and plans

- Joint evaluation of tools

- Memorandum of common understanding / guidelines / framework

- Monitoring and sharing information

- Standardization of data acquisition and storage

- Help avoid bias in training data sets

- Facilitate data sharing, access to infrastructure, access to funding

- Facilitate joint applications and projects

Summary

- Diverse application

- Shared challenges

- Menu of immediate actions

- IANPHI may support

THE FRAMEWORK

Discussion note

- The purpose of the note

- What is meant by a framework

- Why a framework may be useful

- Tentative structure of the framework

- Next steps

Tentative structure of the framework

Assess: NPHIs may consider to carefully assess the situation and thereafter do regular updates. The assessment may include:
- Current AI-related activities at the institute
- Opportunities and risks for public health and the institute's work (in short, medium and long term)
- Current competence, current and forthcoming competence needs, and the resulting gaps
- Key external actors and processes nationally and internationally

Develop and implement: NPHIs may consider to develop the following and thereafter implement as needed:
- Guidelines for how employees should and should not use AI (regular updates may be needed)
- Overall strategy for the institutes approach to AI
- A set of concrete flagship AI-projects that received special attention and support
- A broad range of competence-building activities

LET'S DISCUSS!
20 + 20