The Italian national AI platform to enhance health experience and outcomes

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Politehnica University of Bucharest, Bucharest, Romania

#EHMA2024
Artificial Intelligence Platform
AGENAS as implementing subject of NRRP – 50 mln €

**Aims**

To facilitate the **diagnosis and treatment activities** of health professionals involved in primary care assistance and to encourage the **use of services** in community health houses by users.

Services and platform will be accessible to **both health professionals and patients**

**Tendering procedure**

Objective of the tender: **designing, realization, implementation and management** of the AI Platform.

- **Phase 1** Analysis, designing and implementation: detailed designing document
- **Phase 2** Pilot project: implementation of at least 3 use cases
- **Phase 3** Implementation and management: full implementation of the use cases, progressive increase of users, corrective and evolutive maintenance
AI Platform: use cases and pilot project
The Platform provides services to healthcare professionals and patients

**Use cases**

**Health professional**

- **Support** in basic diagnostic activities and subsequent indication of the most appropriate treatment path from a personalized medicine perspective
- **Support** for monitoring and re-evaluation of chronic patients
- **Support** in administrative-organizational routine tasks
- Production of a personalized and dynamic patient profile based on population stratification criteria

**Patient**

- Production of a personalized and dynamic patient’s card
- Detection of requests, symptoms and risk factors to establish a communication link with the healthcare professionals

**Pilot project**

Implementation of at least 3 use cases on a sample of healthcare professionals, measurement of KPIs to evaluate quality and efficiency and to enhance the functionalities. 12 months duration.

<table>
<thead>
<tr>
<th>Phase of the project</th>
<th>Primary care medical doctors</th>
<th>Family or community nurses</th>
<th>Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase 1 (Analysis, designing and implementation)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Phase 2 (Pilot project)</td>
<td>1.000-1.500</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>Phase 3 (Implementation and management)</td>
<td>15.000</td>
<td>7.500</td>
<td>22.500.000</td>
</tr>
<tr>
<td>Progressive increase of users</td>
<td>40.250</td>
<td>20.125</td>
<td>58.851.000</td>
</tr>
</tbody>
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Table. Estimation of users per phase of the project
<table>
<thead>
<tr>
<th>Challenges and opportunities</th>
<th>Governance and Regulation</th>
<th>Algorithm certification and validation</th>
<th>Support to healthcare professionals</th>
<th>Access to Health Services</th>
<th>Innovation and Technological Development</th>
<th>Education and Training</th>
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</thead>
</table>
| Ensuring centralised governance of AI technologies and processes | • Coordination between public and private entities to establish guidelines and regulations on the use of AI in healthcare  
• Establishing control and supervisory bodies to monitor the implementation and effectiveness of AI in healthcare services | • Define a process for certification and validation of algorithms to ensure the reliability and security of AI systems used in healthcare | • Develop AI systems to analyse clinical data and help healthcare professionals in diagnosis, prognosis and treatment planning for patients  
• Support services for the taking charge of the assisted population | • Implement AI systems to provide information and support users in accessing primary care services  
• Supporting daily clinical practice | • Invest in research and development to produce new AI applications and technologies that can improve the quality, accessibility and efficiency of health services  
• Integrating AI systems with existing healthcare infrastructure, ensuring interoperability and data compatibility to maximise the benefits of AI | • Provide education and training to healthcare professionals and users on the effective, ethical and transparent use of AI |
Thank you


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