COCIR 60th Anniversary
Thursday 14 November 2019 Brussels, Belgium

Digital Health and Artificial Intelligence

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Chair of COCIR Digital Health Committee, Chair of COCIR Artificial Intelligence in Health Task Force and Senior Vice President for Patient Care Management at Digital Health, Siemens Healthineers
Advancements in Digital Health to improve Health Outcomes

Key Advancements has already happened and will happen in multiple Dimensions:

<table>
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<tr>
<th>Patient</th>
<th>Technology</th>
<th>Payer</th>
<th>Policy</th>
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| Characteristics of the “Patient in the Future”*  
  • transparent  
  • customized  
  • personalized  
  • to happen@ home  
  • human contact | Artificial Intelligence  
  • Radiology – main driver  
  • speed up workflows: exam/day  
  • raise precision  
  • not replacing clinicians  
  • Mobile Engagement | Taking a more active role e.g. managing Patients with chronic conditions  
  • Paying for high/penalty for low performance of care | Supporting not only R&I (Horizon 2020) but Scaling Up (Digital Europe)  
  • Addressing new technologies (e.g. Blockchain)  
  • Driving data consolidation, AI and Patient Outcome (Health Data Space) |

*Stephen Klasko, CEO Thomas Jefferson University
5 Challenges bringing Digital Health into daily practice

- Unleashing existing Data Treasures on a Healthcare Provider, Regional & National Level
  - From routine EMR data to anonymous Research Data Lakes driving AI

- Not adding complexity by platforms but integrating into and automating existing workflows
  - From “We have an App” to “...more automated tasks driven by platforms”

- Healthcare delivery demanded by Patients has to happen via Smart-Phones
  - Patient Engagement Strategy will be key

- Bridging GDPR (Patient Health Data) and Mobile Apps World (User Data)
  - Bridging regulated GDPR & Patient Health Data and Mobile Apps World and User Data

- Comply with Cyber Security Readiness Technologies and Standards
  - Many reasons exist why Healthcare Provider lacking Cyber Security Technology and Standards
Where it needs continuous focus to execute Digital Transformation in Health and Care

• **AI will play a major role to improve Healthcare Outcomes**
  - Need for Educational Programs to foster new jobs (Data Scientists/Data Engineers) in Europe

• **Access to Healthcare Data is key to drive AI and related Patient Outcomes**
  - Further need for “Health Data Spaces” with clear Governance for all Stakeholders incl. Industry

• **Drive Interoperability and Cybersecurity Technology and Standards**
  - where Member States are lacking
  - Link potential funding for Scaling-Up with Compliance to Interoperability and Cybersecurity Technologies and Standards