Digital Transformation and Health Care Toward Sustainable Development

Presented By

Dr. Eman Ali Sheha
Assistant professor of Family and Community Health Nursing
Faculty of Nursing - Damietta University
Presentation Axes

01. Introduction

02. The Sustainable Development Goals in 2030 Agenda

03. Recommendation

04. Conclusions
INTRODUCTION
Digital transformation refers to moving from using old legacy systems to modern digital technology that are aimed at improving work efficiency and provide better patient care digitally no matter where they are.

Sustainable development is “a way for people to use resources without the resources running out”. It based on three interdependent dimensions; social, environmental and economic systems in which should be transformed and interlinked with each other to

- Ensure societal health
- Human well-being
- Limited the environmental impact
The Sustainable Development Goals in 2030 Agenda
The Sustainable Development Goals in 2030 Agenda

Sustainable development agenda consists of “17 SDGs including 169 targets and 304 indicators”

To encourage the widespread adoption

Facilitate progress

Accelerate the implementation of SDGs

A detailed science, technology and innovation roadmap should be built and implemented at both local and global levels

So, Technology must be made accessible, available and sufficiently attractive.
Digital Transformation
Digital Transformation

Is the use of digital technologies for the transformation of services and creating new forms of relationships.

This means that

Digital transformation changes the way of people life Through Reshaping work, behavior, leisure, education and governance which have

Positive impacts and contributes to expand access to services
Raise productivity
Lower production costs
Improve resource efficiencies
Support the circular economy

Raise productivity
Lower production costs
Improve resource efficiencies
Support the circular economy
Digital Transformation in Health Care

The medical staff are using technology to better meet the needs of patients in ways that improve patient outcomes, equity, access, efficiency and affordability. Which are completely Reshaping How

- We interact with health professionals
- Our data is shared among providers
- Decisions are made about our treatment plans and health outcomes
Benefits of Digital Transformation in Health Care

Benefits for patients:
- Excellent personalized services.
- Real-Time monitoring of health.
- Better communication with doctors.
- Easy access to personal records.
- Convenient appointment scheduling.

Benefits in health care organizations:
- Improved internal collaborations.
- Better time management.
- Improved healthcare services.

Benefits in health care industry:
- Reduced costs.
- Optimized workflow.
- Improved patient interaction.
- Medical records database with secure access.
Challenges of Digital Transformation in Health Care

- Patient data lack and security
- Budgetary Concerns
- Skill gab
- Resistance to Change
Digital Transformation Requirements to Success & Overcoming Challenges

### Strategy
- Clearly defined vision of strategy
- Outcome and goals associated with strategy
- How to get there
- Digital strategy

### Culture
- Build a culture that embraces change
- Develop collaborative work environments
- Continuous measure and improve

### Technology
- Continuous integration of digital technologies as analytics, mobile, cloud.
- Use of automation.
- Building a rich set of capabilities and data that are accessible through APIs.

Involves all stakeholders in the process.

Invest in training for both providers and patients.
How Digital Transformation Contributions to Sustainable Development Goals

Successful implementation of SDGs

Digital transformation is new technologies of collecting data and analyze it for evaluation, monitoring, real-time, cheap, save time

Relies on the collaboration between the private sector, governments, civil society, institutions, and agencies across various sectors

Requires data for achieving it

Help policy makers to monitor progress, establish the proper programs of development and dynamic improvement

Data revolution created a new age of information and statistics which are characterized with quality, comprehensiveness, comparability at all levels from global to local

A tool to create sustainability

Support decision making at different levels
03 Recommendation
Give more attention to the ICT industry, innovation, research and development.

Improve the digital infrastructure and infostructure to enhance the internet speed.

The digital illiteracy need more attention in an effort to increase the internet users rate and enhance the digital awareness.

Providing data bases for all sectors that helping them in the development strategy.

Activating the use of information technology and artificial intelligence in all sectors, to utilize them in data analyses and decrease costs.

Encouraging investments in information technology sector particularly in the SDGs related-areas.
Conclusions
We need to use effective digital transformation and generalize it in the health field to achieve Egypt's vision 2030.