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# Digital Transformation and Health Care Toward Sustainable Development

*Presented By*

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# INTRODUCTION



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**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

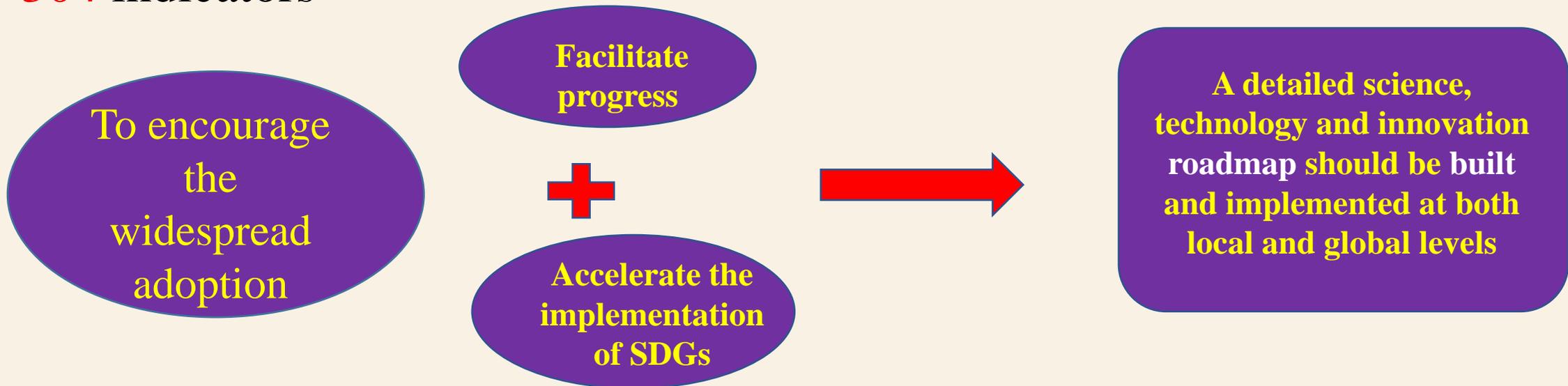


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# The Sustainable Development Goals in 2030 Agenda

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



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

A circular collage of medical and scientific images surrounding a central text. The collage includes: a surgeon in blue scrubs and a surgical cap; a microscope; a person in blue scrubs holding a tablet; a person in a white lab coat holding a globe; a person in a white lab coat holding a stethoscope; a person in a white lab coat holding a test tube; and a person in a white lab coat holding a stethoscope. The central text is "Digital Transformation".

# Digital Transformation



# Digital Transformation

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# 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



# 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.**

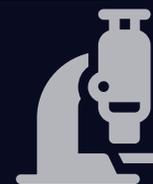


Which are completely **Reshaping How**

**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



- Improved internal collaborations.
- Better time management.
- Improved healthcare services.



**Benefits in health care industry**

**Benefits for patients**

**Benefits in health care organizations**

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

- 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 gap

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

Involve 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

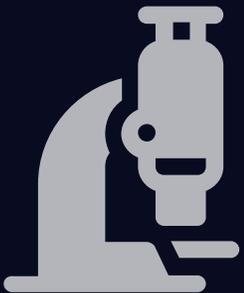
Requires **data** for achieving it

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





# Recommendation



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**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



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