

In The Name of God, The Compassionate, The Merciful



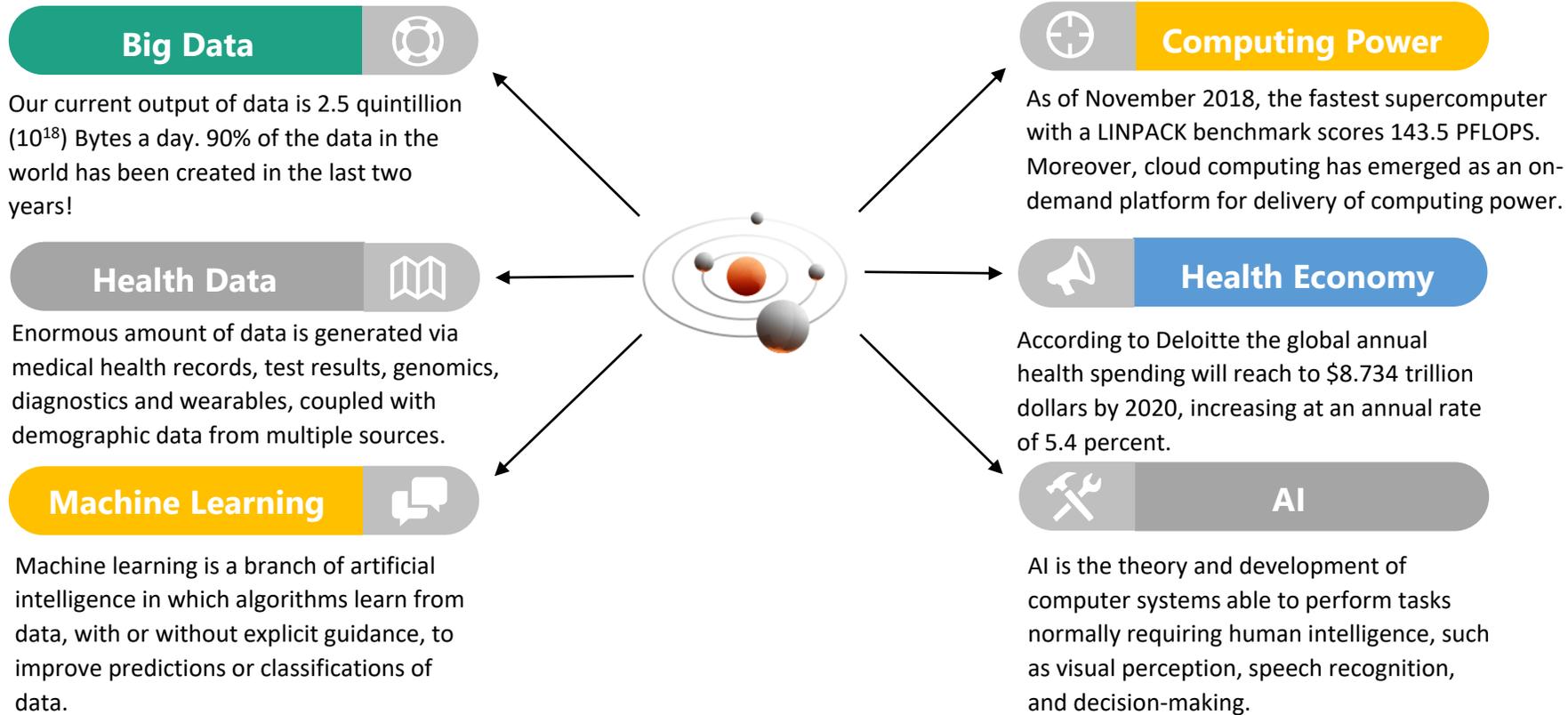
# Machine Learning and AI to Improve Health

WHS 2019 - Regional Meetings - Kish Island

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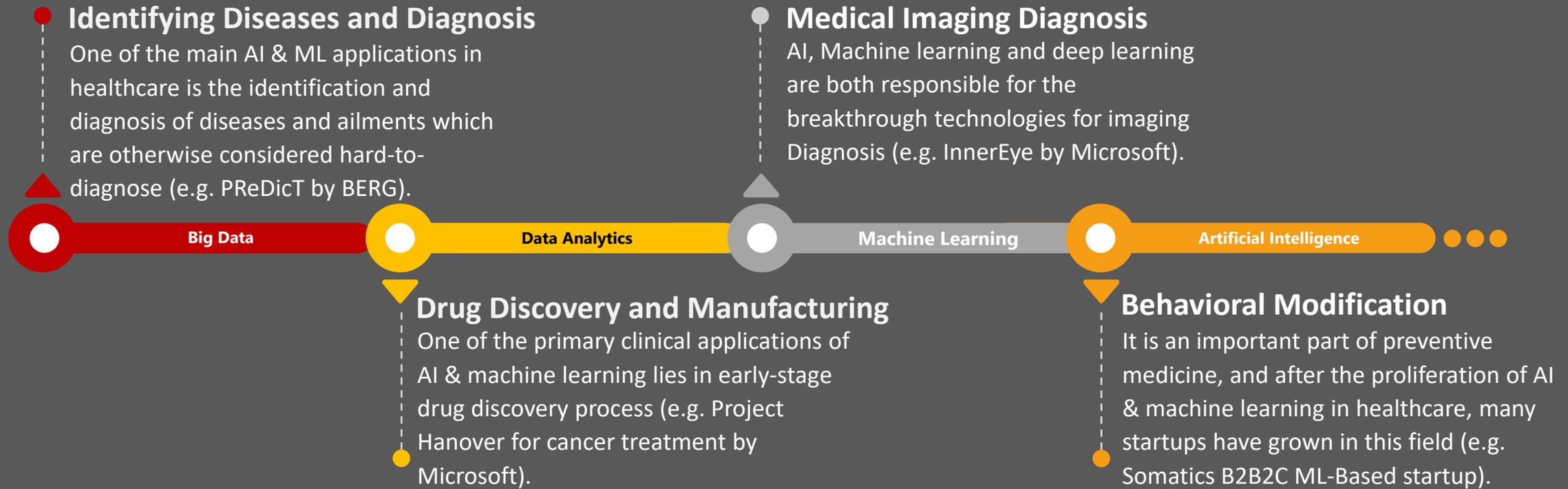
# Machine Learning & AI to Improve Health

## Basic Facts



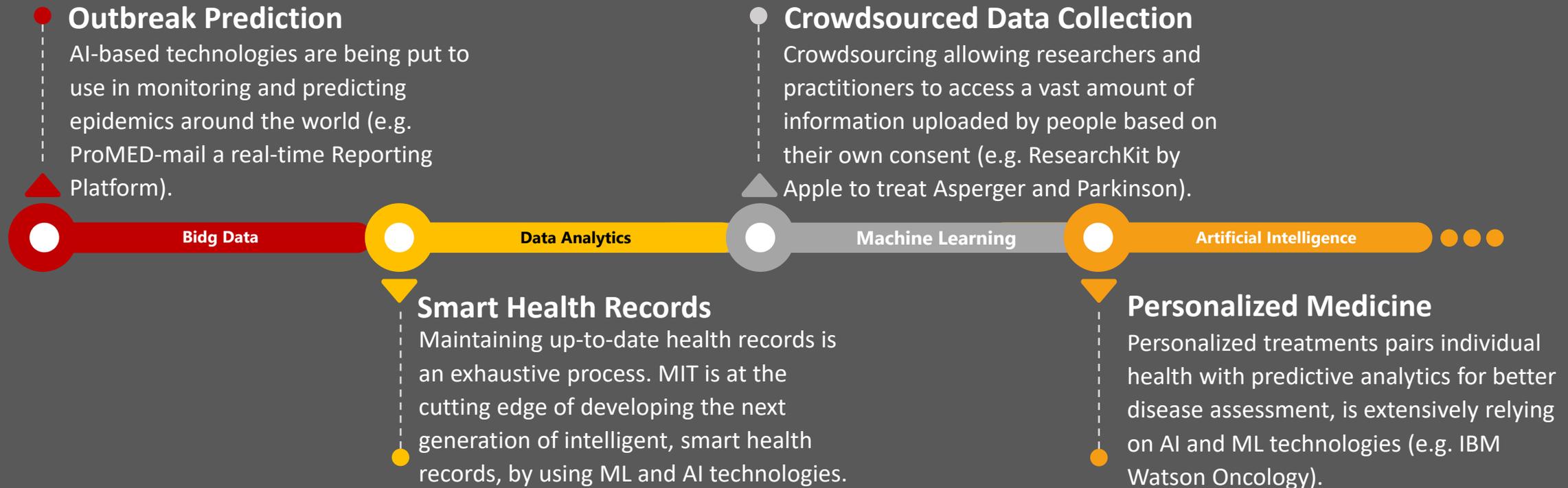
# Applications of AI and Machine Learning in Healthcare

Artificial intelligence, machine learning, and advances in data science are described as transformative technologies for the health care sector. They could potentially affect many aspects of health care.



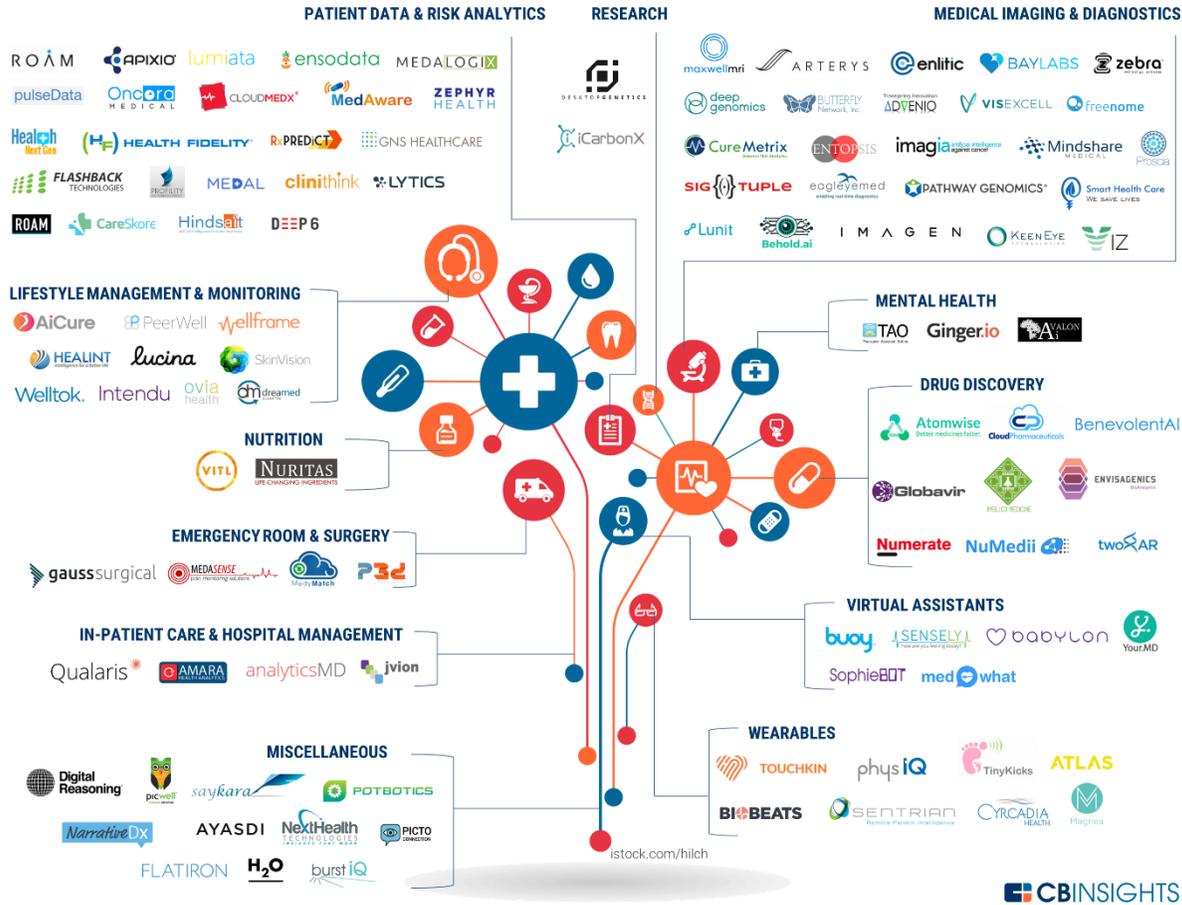
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# AI-Based Health Care Startups are Growing Globally

## 106 STARTUPS TRANSFORMING HEALTHCARE WITH AI



CBINSIGHTS



# BCB HealthCloud PHR System Focus

## Sharif University of Technology

AI, Machine Learning, and Big Data Analytics enhances the quality of health services in the HealthCloud eco-system.

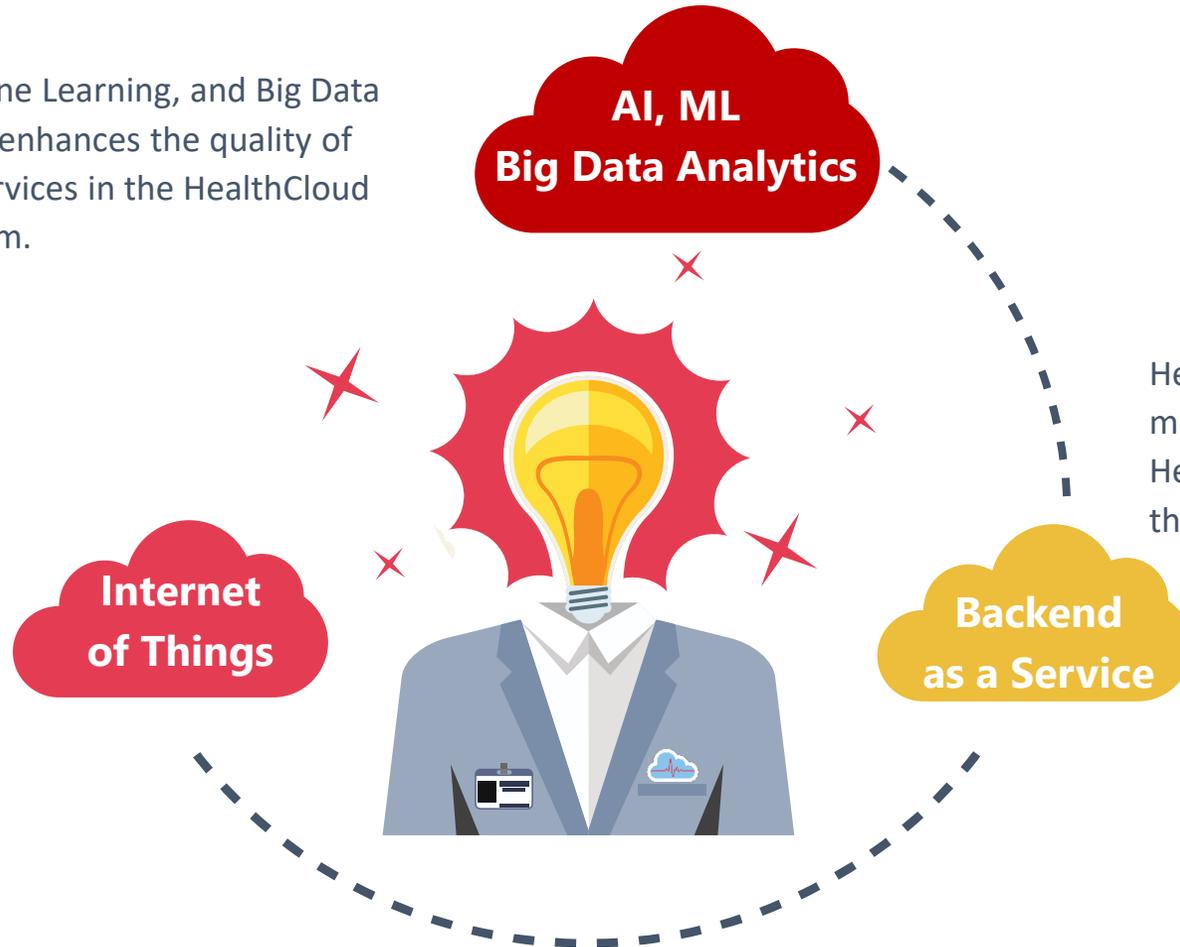
AI, ML  
Big Data Analytics

HealthCloud has all the required modules to become the 1st Health Backend as a Service in the Iranian market.

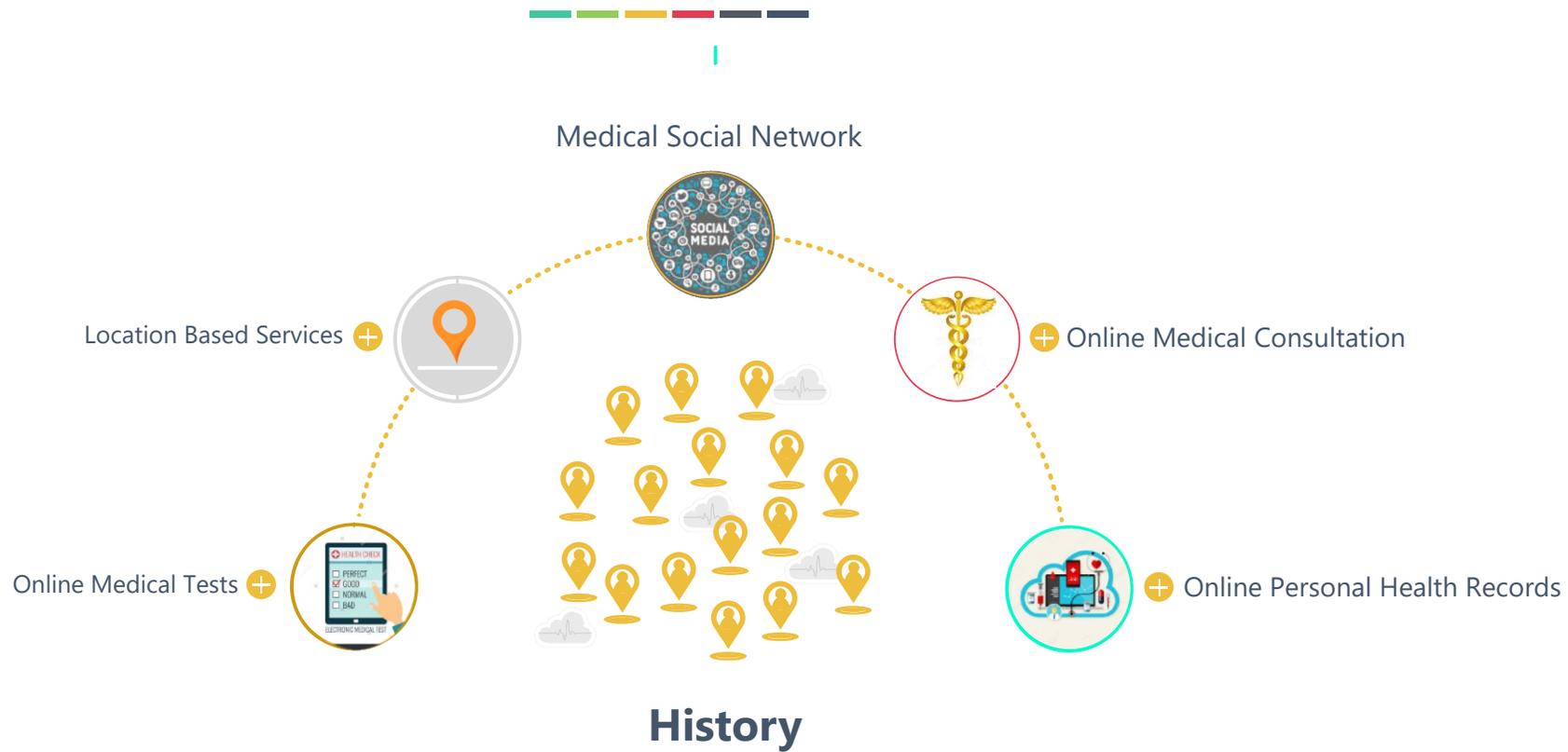
IoT plays a critical role in mass data acquisition, and creating a comprehensive smart monitoring and management of health services.

Internet  
of Things

Backend  
as a Service



# BCB AI-Based HealthCloud PHR System



- **HealthCloud** is an spin-off from the Value Added Service Laboratory at Sharif University of Technology.
- During the first six months of operation, **HealthCloud** attracted more than 8 million users on 2.XG text-based services, who receive daily health tips on their favorite topics.
- Following this successful experience we decided to develop a comprehensive AI-Based PHR system, called **HealthCloud**, as an OTT over the 3G and 4G Networks.



# BCB HealthCloud PHR System Features



## Health Measurement Exams

Users can participate in different measurement exams created by practitioners to check their overall health Status.



## Continuous Health monitoring System

Systematic analysis of multiple health factors and providing tailored information help users to keep track of their major health measures.



## Health-related Document Management

Users can manage their health documents such as prescriptions and test reports in their account, securely.



## Online Consultation with a Network of Certified Practitioners

Users can ask questions and seek consultation on more than 75 branches of medical science, while protecting their privacy. HealthCloud guarantees providing a reliable answer within 24 hours.



## Family Health Management System

The entire family can have a single account for efficient management of their health services while receiving services according to their own profile.



## Location-Based Services

Using crowdsourcing technics, HealthCloud has built the most comprehensive geo-location database of health-related centers in Iran which users can access through a Mobile app.



## Health Newsletter

The users will receive high quality newsletters with contents from the credited experts in various health fields.



## Smart Content Delivery

The users will receive content based on their profiles and health record histories or based on their favorites.



# Some Key Ideas to Promote Use of AI & ML in Healthcare



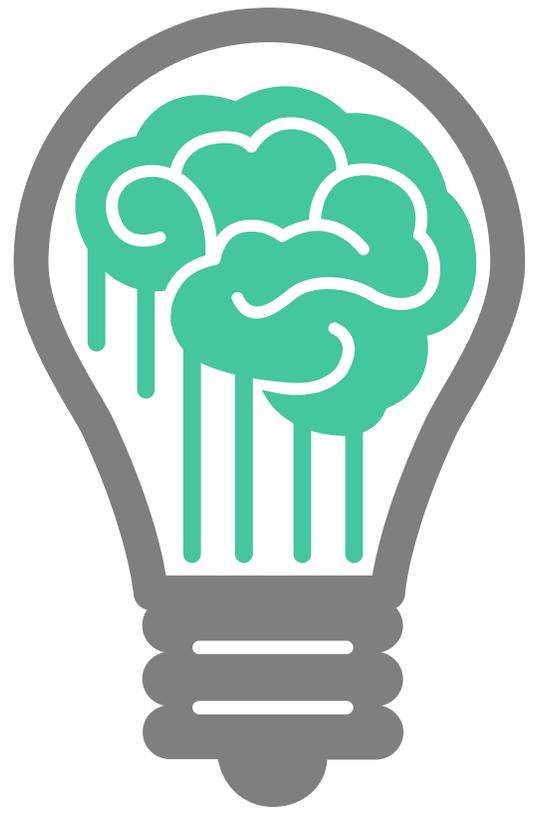
## Dedicated On-Line WHS Social Media

To train, share knowledge and best practices, globally.



## Develop Open Platforms

To promote global cooperation on deployment of AI-Based e-health services



## Develop Standards

To make the data shareable across different platforms



## Promote Startups

Foster Innovative Ideas to Improve Healthcare with AI

Thank you for your Time and consideration.

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