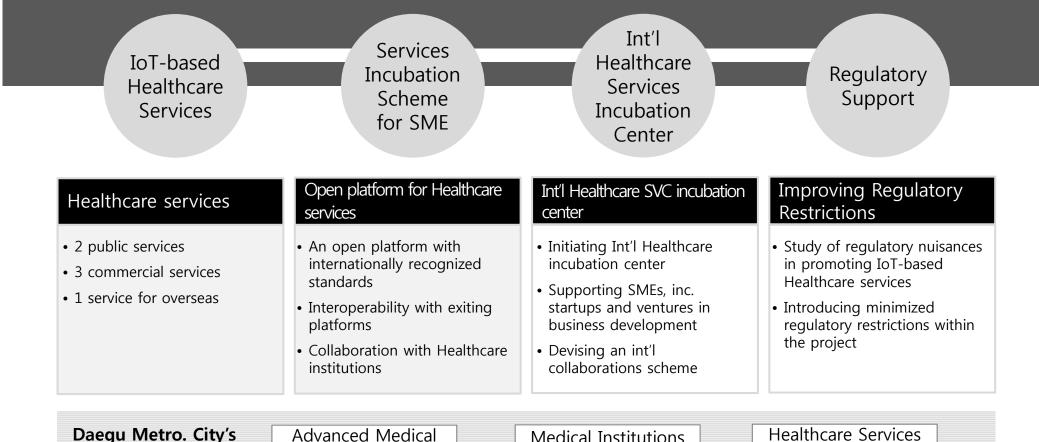
ITU Young ICT Leaders Forum 2015

IoT-based Healthcare Services and Incubation Project



I. Project Scope

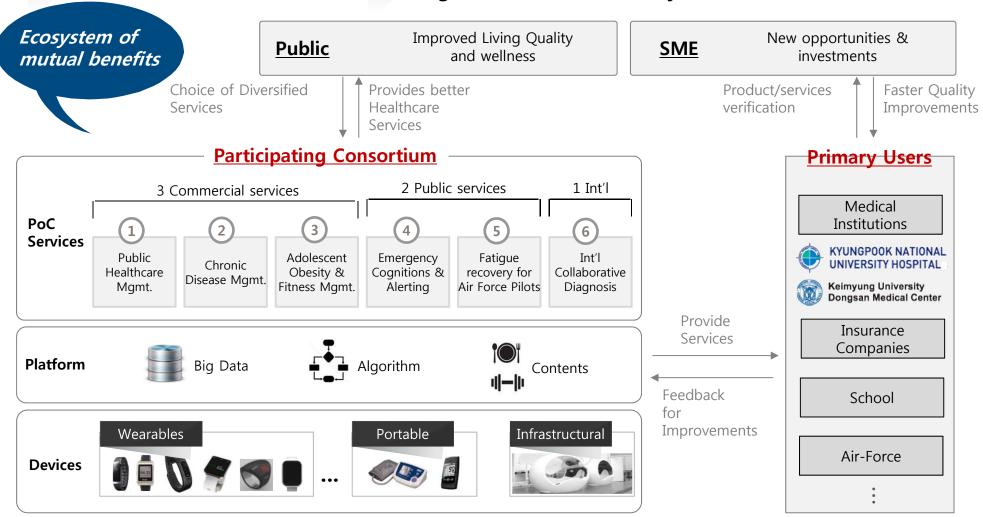
The objective of project is to improve quality of life of people through IoT-based Healthcare services and to support business incubation scheme with better regulatory support



Daegu Metro. City'sAdvanced MedicalMedical InstitutionsHealthcare SetHealthcare ResourcesIndustry Cluster(e.g. Hospitals)Vendors

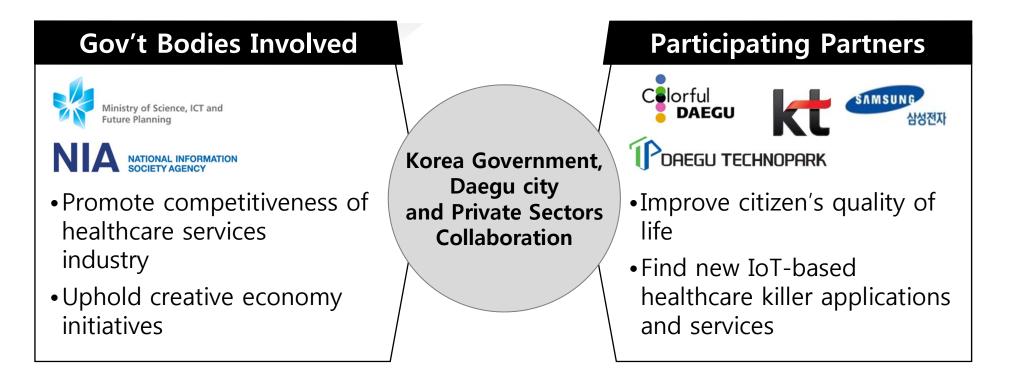
II. Project Focus

Developing 6 services in accordance with demands identified from various primary users and trial will be given until the end of year



III. Project Approach

Korea Gov't has initiated this project to promote IoT-based healthcare services industry that has strong growth rate in terms of volume of revenue and future job creation



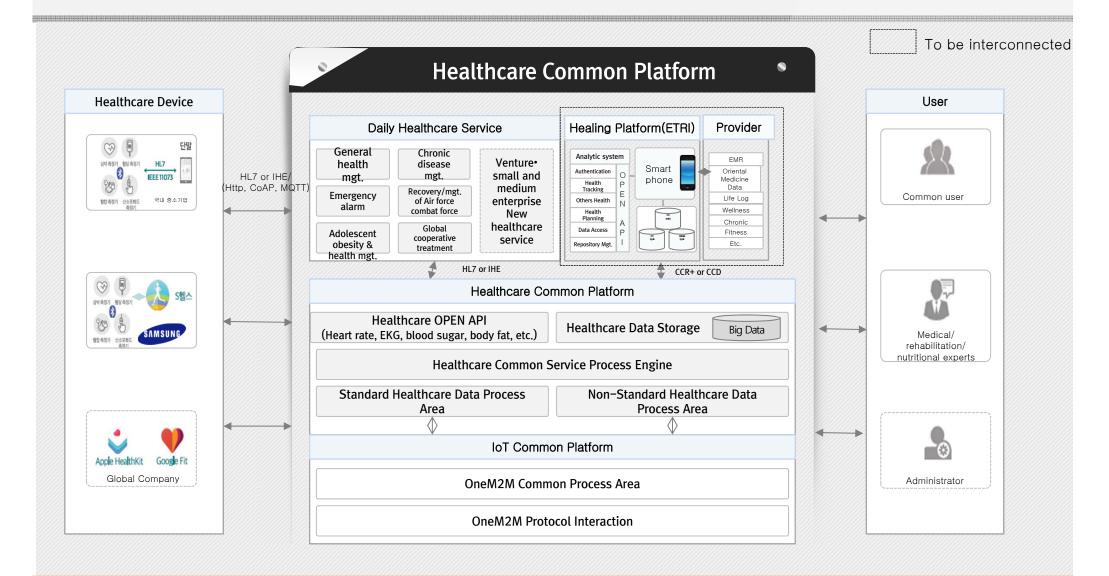
IV. Standards and Interoperability

1. Role and Benefits of Platform

The Healthcare platform will be based on Common-IoT-Platform that uses OneM2M standard, with commercial features developed from KT's own IoT Services Platform. Provide Open-API to all Service development and participating SMB and startups commercialization guide SME supports portal (From 2016) **Healthcare Services Development Support** Open Healthcare Platform Standardization of IoT device developments OneM2M standard **Compliant w/ Int'l Standards** compliancy provide a better 5 interoperability & cost savings ISO/IEEE 11073 & HL7 for the growth of industry **Reliable IT** Environments Tried and tested platform through trials

• Support projects by Daegu Techno. Park

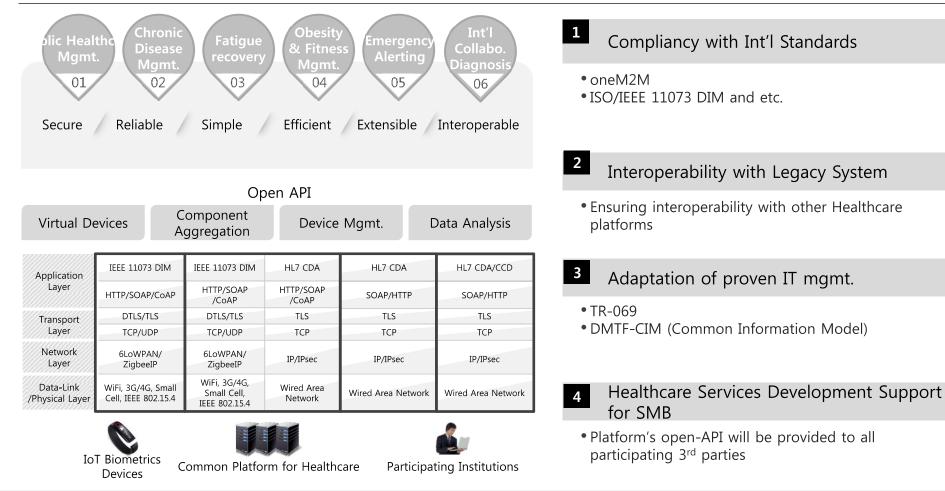
IV. Standards and Interoperability: Open Platform Architecture



IV. Standards and Interoperability

The Healthcare platform is complying not only with OneM2M but also, compliant with Healthcare related standards, such as ISO/IEEE 11073 and HL7.

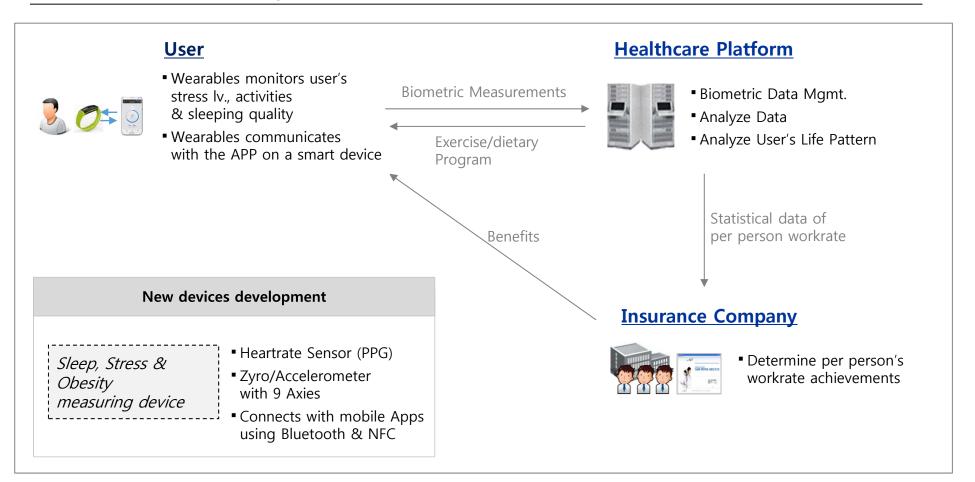
Healthcare Platform Standards



V. Demonstration: Public Healthcare Management Service

This service provides personalized exercise/dietary plan to users, monitors/measures how they follow such program and rewards users for their accomplishment.

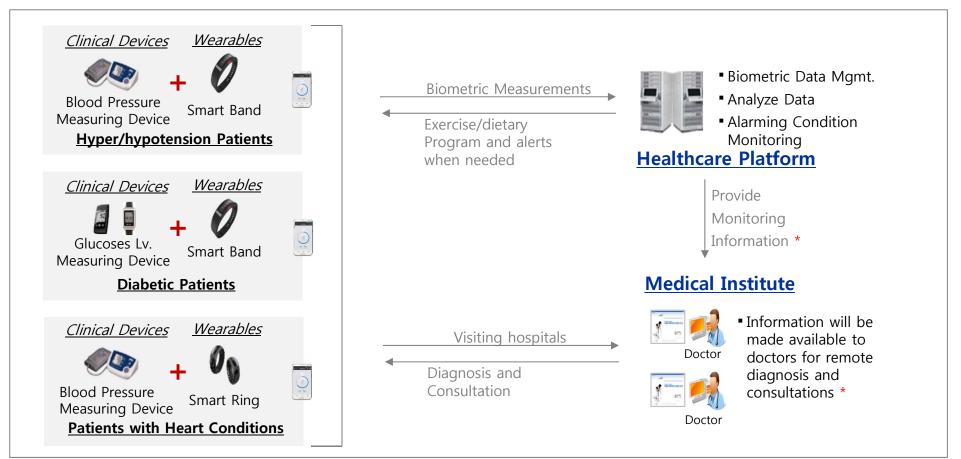
Public Healthcare Management Service



V. Demonstration: Chronic Disease Management Service

This service provides simpler means to measure user's biometric condition as well as suggesting personalized exercise/dietary plan based on measurements taken.

Chronic Disease Management Service

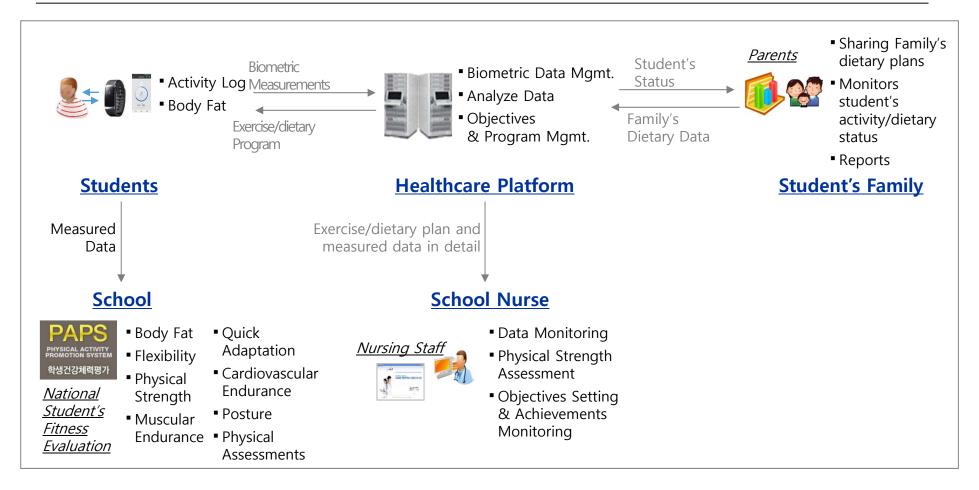


* Due to KFDA approval process, services will be available during year 2016

V. Demonstration: Adolescent Obesity and Fitness Management Service

This service provides exercise/dietary plan based on student's national fitness evaluation result and using a wearable device, it monitors how one carry out the program.

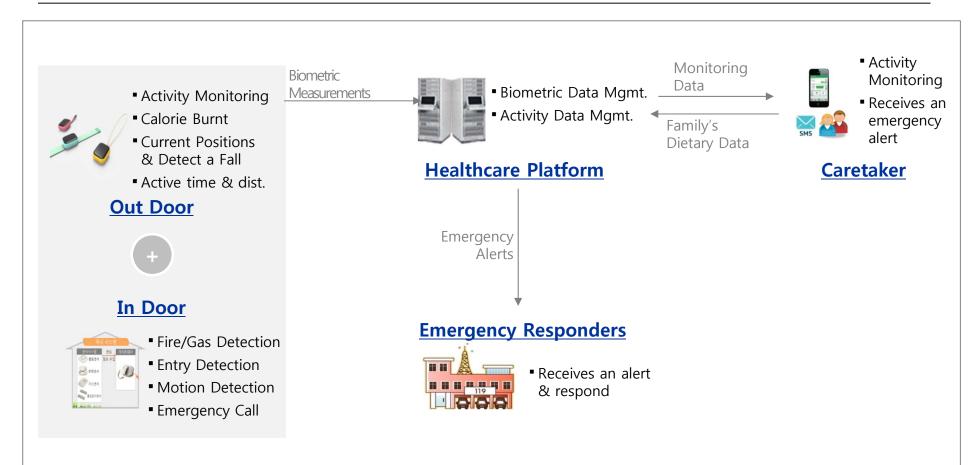
Adolescent Obesity and Fitness Management Service



V. Demonstration: Emergency Cognition and Alerting Service

This service monitors for emergency situation of elderly person and alerts relatives and/or emergency services, if doubtable situation occurs.

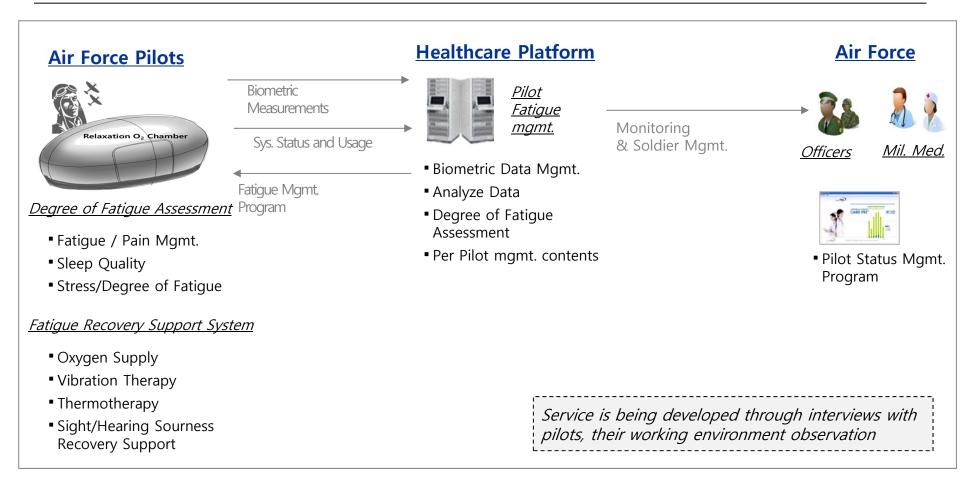
Emergency Cognition and Alerting Service



V. Demonstration: Fatigue Recovery Support Services for Air Force Pilots

This is a specialized services for Air Force pilots by developing a CHAMBER, to evaluate fatigue level of a pilot as well as to provide soothing environment while in a CHAMBER.

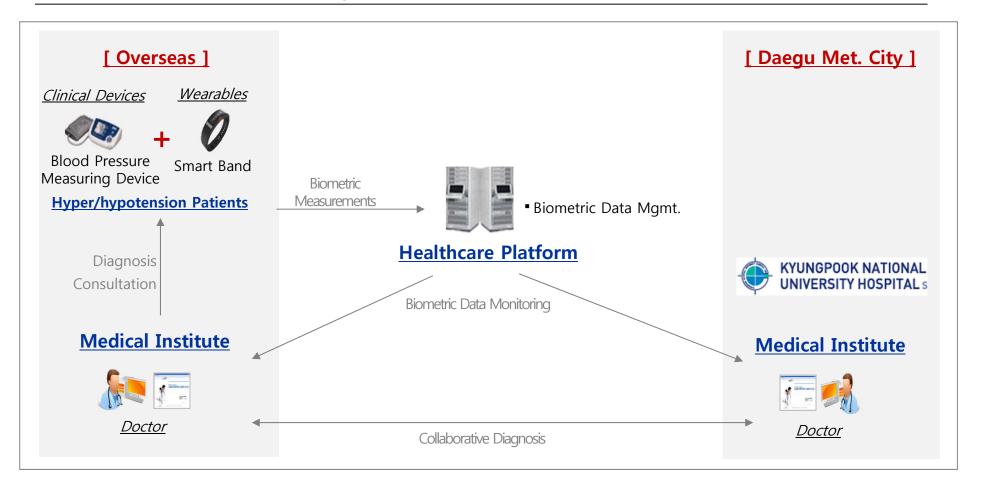
Fatigue Recovery Support Services for Air Force Pilots



V. Demonstration: International Collaborative Diagnosis Service

This services provides means to share blood pressure records and activity log of patients in Vietnam, between hospitals in Korean and Vietnam for collaborative diagnosis.

International Collaborative Diagnosis Service



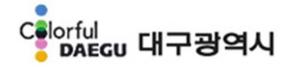
VI. Deployment Plan

During the 1st year, focus is on service/platform development and during 2nd & 3rd year, focus is on incubation of SMB's services while service/platform upgrade continues.

2015 (1 st Year)	2016 (2 nd Year)	2017 (3 rd Year)
	Services/Platform Upgrade & build a foundation for SMB supports	Release Full-time Services
		 Lead clinical/medical/biometric measuring devices development
Service Development	 1st year's services being upgraded based on the trials outcome Develop further services Build a foundation for SMB supports Build an ecosystem of wearable devices, contents and services 	 Using big data analysis, improve algorithms' reliability
 6 services and trials App/Web & Contents/Algorithms Development 		 Bespoke contents provisioning
 Validating services in terms of business and effectiveness 		

VII. Participants

Team Leader: Daegu Metropolitan City, South Korea



Partners: total 33 including SMEs



Thank you !