TIS
TIS INTEC Group
Go Beyond

# Introduction to use scenes of bio-data and other field data in a Smart City.

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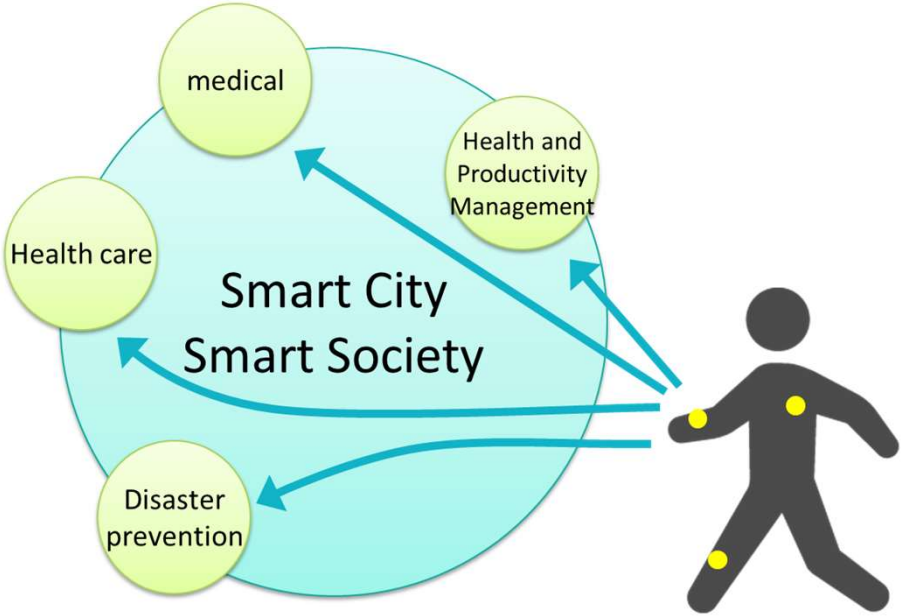
TIS Inc.

Yukari Urata & Aki Umetani

# Introduction

## Today's presentation outline.

- our efforts toward realizing a Smart City
- our efforts toward utilizing SmartBAN
- utilizing bio-data in a Smart City



# About Us

TIS is a systems integrator.

Our department is the R & D Department.

## Our Themes

Cross Reality

Robot Platform

Network

NLP

# Our efforts toward realizing a Smart City

# Our efforts toward realizing a Smart City

## Society 5.0

‘society5.0‘ is a future model, like ‘ industry 4.0 ‘ in Japan.

It is the super-smart society which is advocated by Japanese government.

## Our Joint researches with

### - Universities

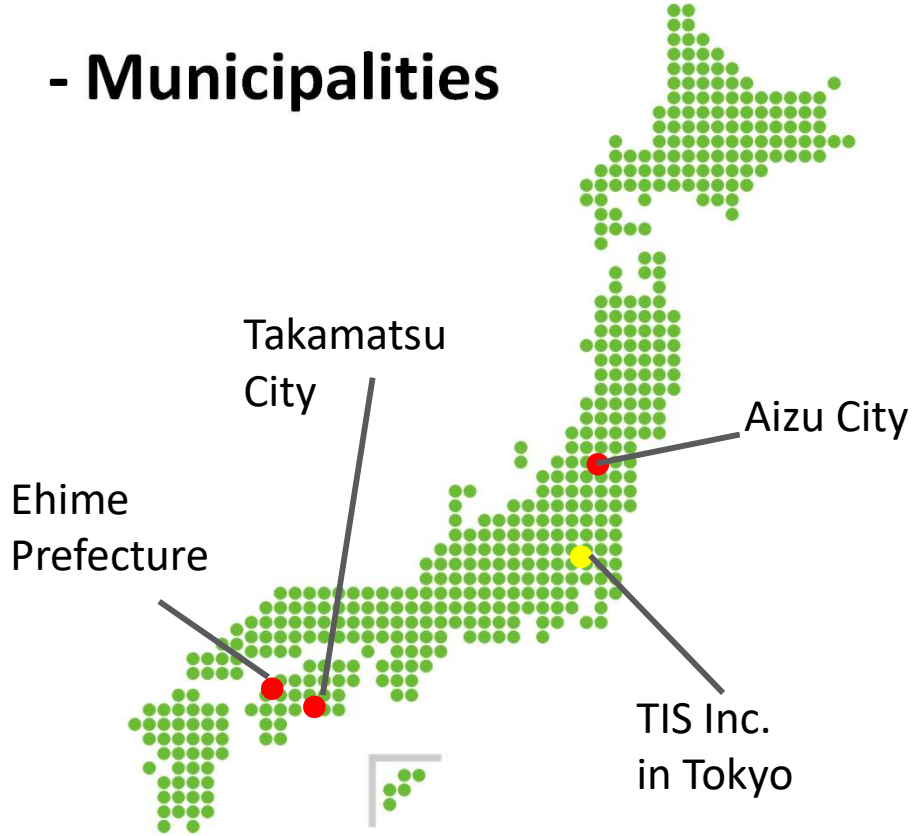
3つのひかり 未来をつくる
広島市立大学
Hiroshima City University

UEC TOKYO The University of Elcrto-Communications

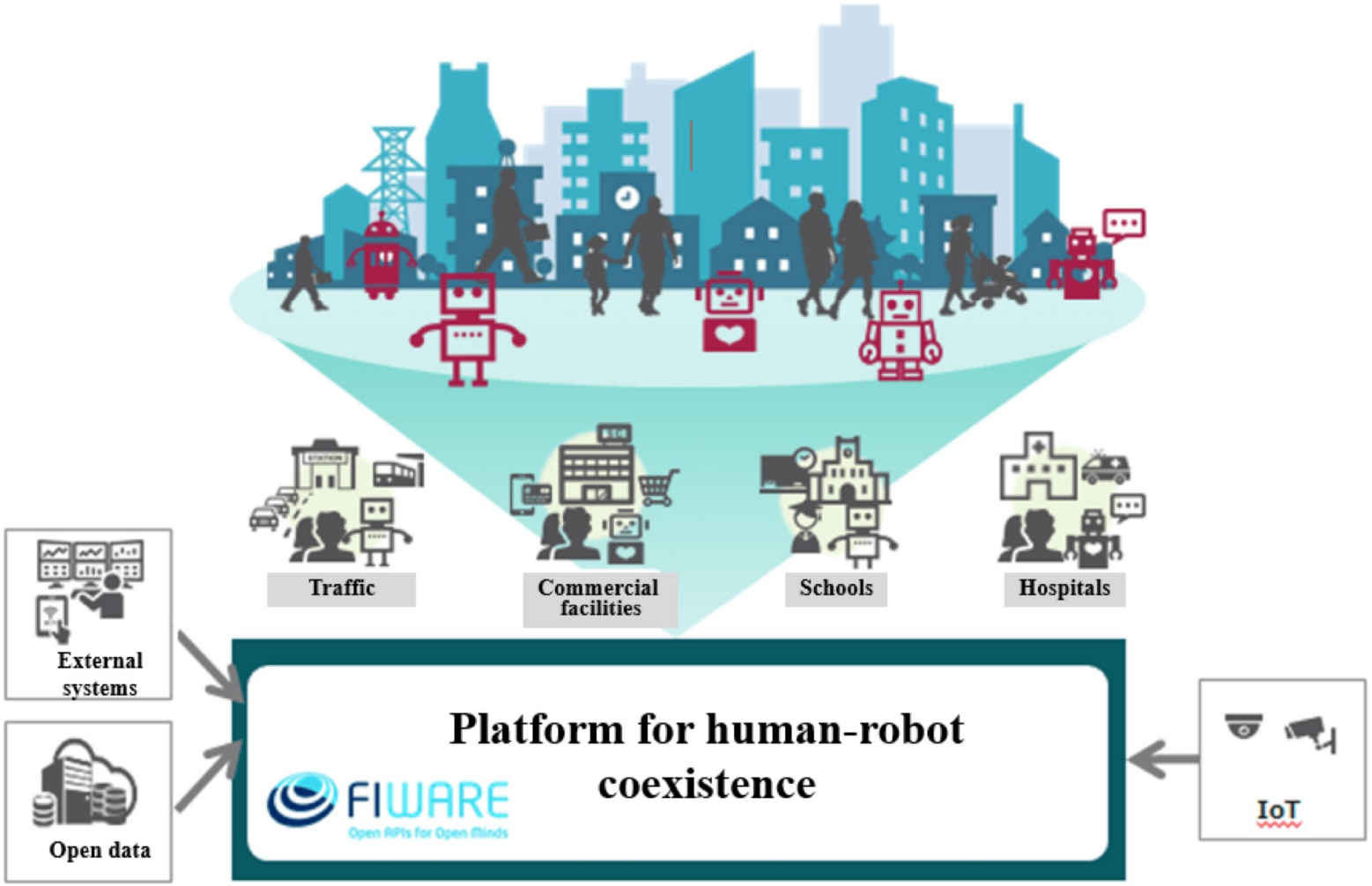
大阪大学 OSAKA UNIVERSITY

AIZU THE UNIVERSITY OF AIZU

### - Municipalities



# Our efforts toward realizing a Smart City



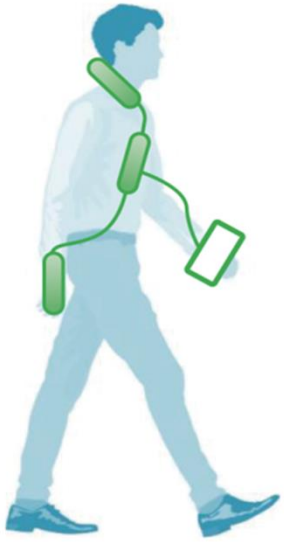
# Our efforts toward utilizing SmartBAN

# Why is SmartBAN good for us?

Conventional Connection 1

Asynchronous wireless connections

Conventional Connection 2



Synchronous wired connections

BAN

**Synchronous wireless** connections

**other advantage points**

Low Power consumption, Timely accessible mechanism, etc.

# Why biometric data is important in a Smart City?

## for living healthily and comfortably

Preventive medicine

healthcare

weaning off medication

Eldercare

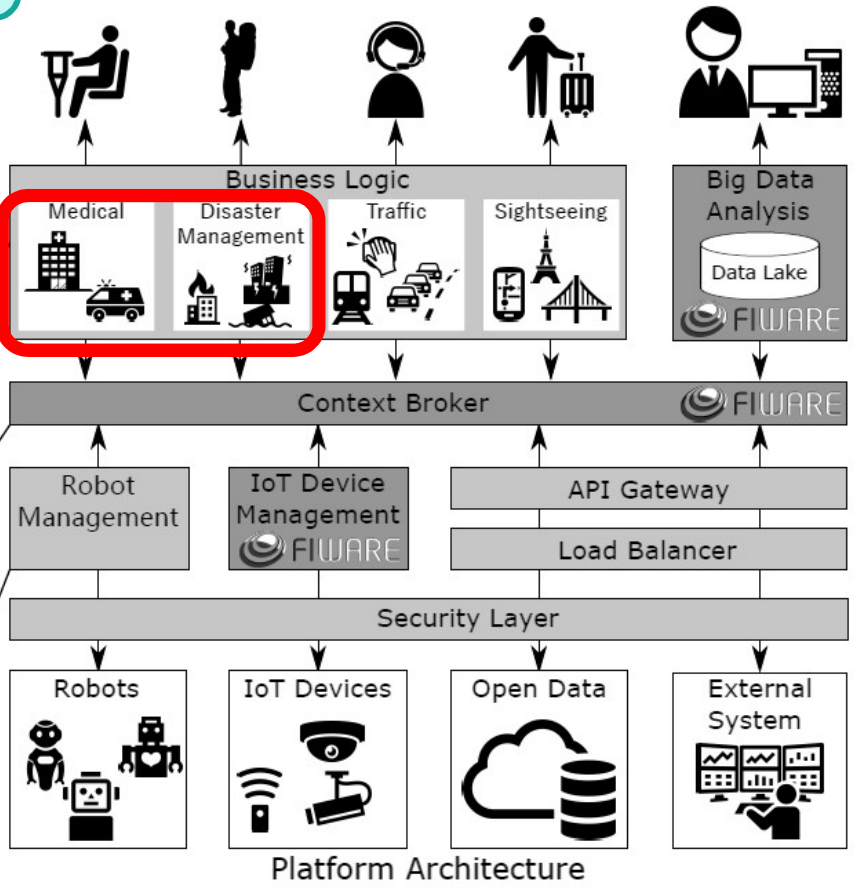
rehabilitation

Health and Productivity Management

**Business Logics**
You can develop and deploy your own business easily without any worries about the detail of robots, sensors and open data.

**Context Broker**
All of the context data is translated via Context Broker.

**Robot Management**
TIS creates function of robot management using existing robot middleware such as ROS/ROS2.




Platform Architecture

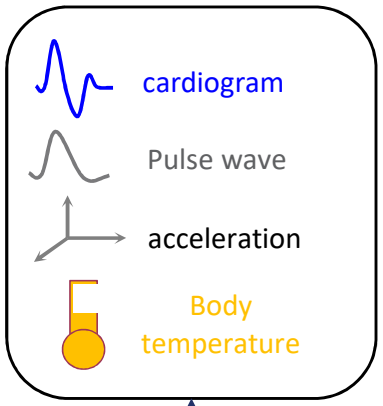
# How to use data collected through SmartBAN on Smart City platform

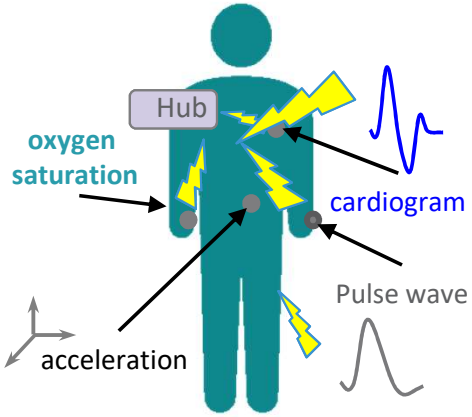
# Using smartban and IoT data to build healthcare services

Collect information → collection → Accumulation / processing → Utilization

Use Smart BAN

Acquisition of data → Data collection → Analysis of data → service

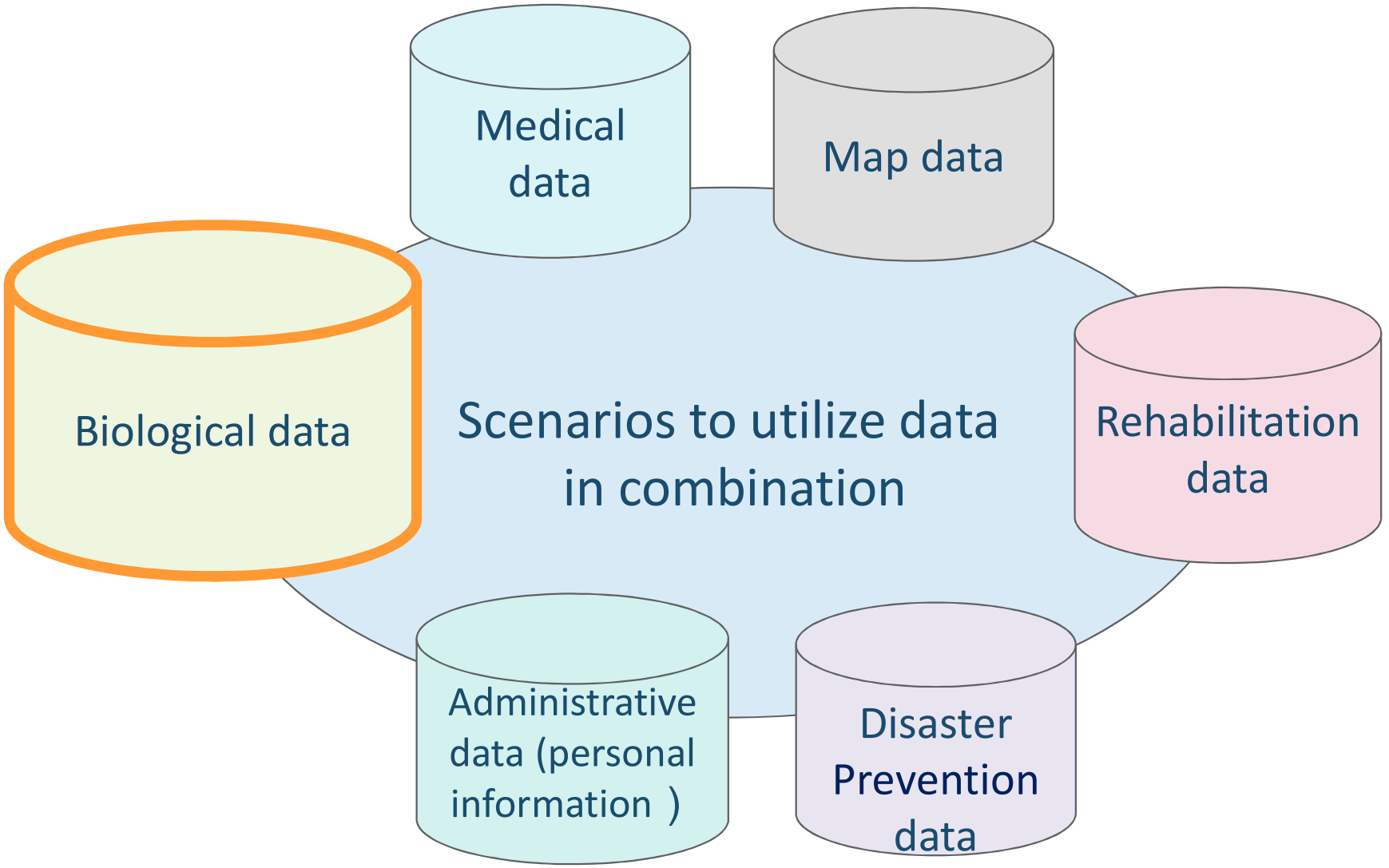




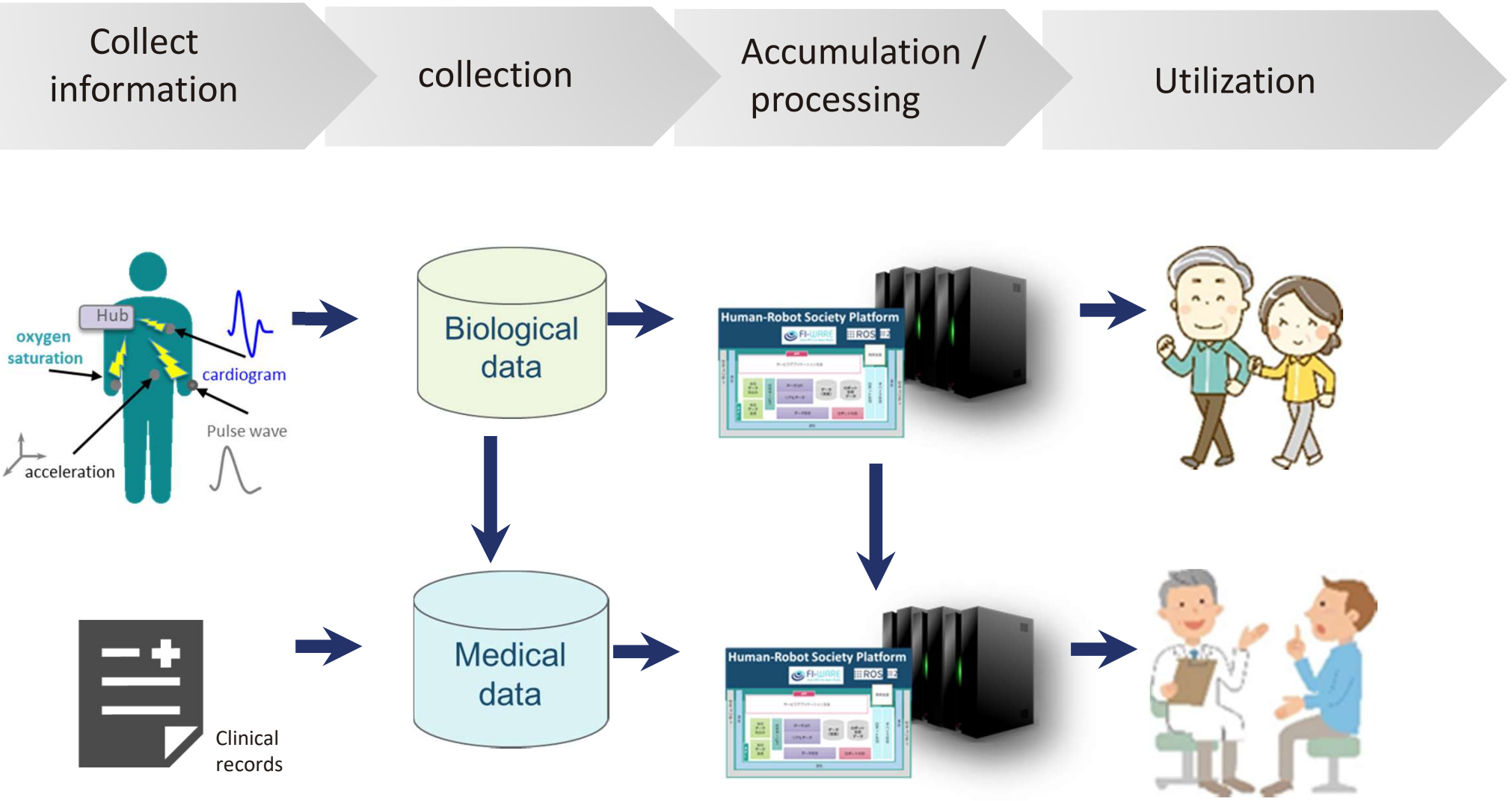
feedback

# Evolvement of biological data



# Case examples

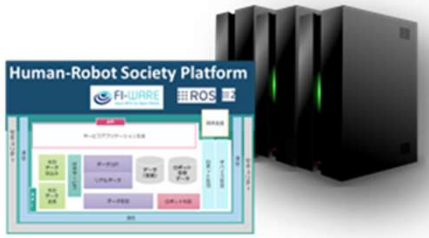
# Case example 1（From biological data to wellness）

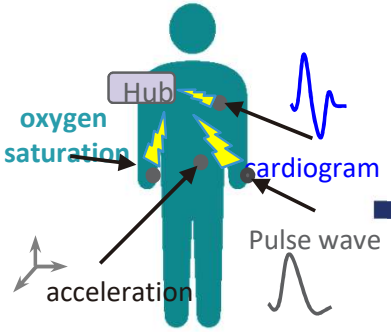


# Case example 2 （From medical data to disaster prevention）

Collect information → collection → Accumulation / processing → Utilization

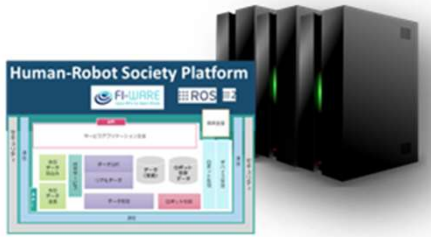
Disaster Prevention data




Medical data

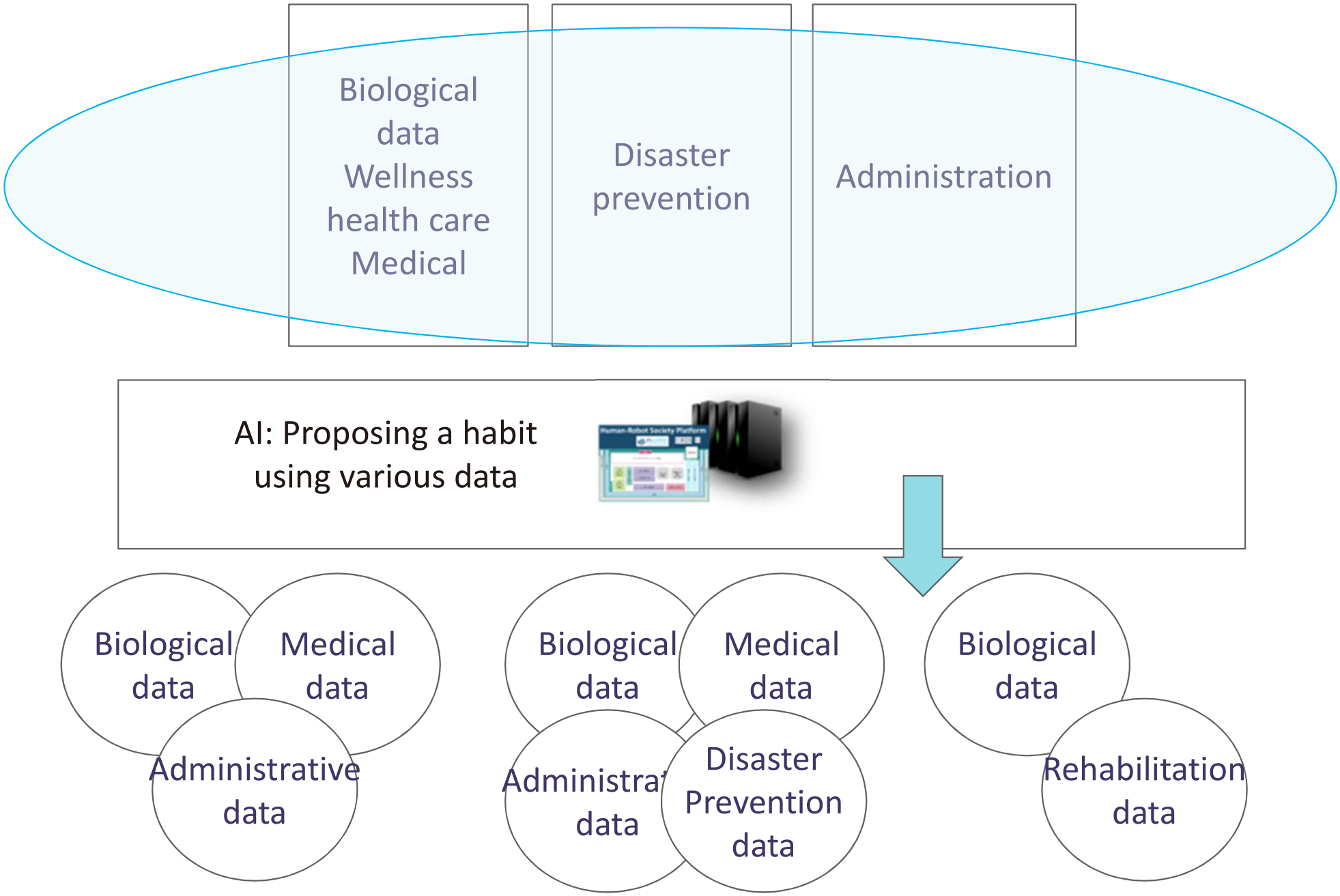
Biological data




Triage

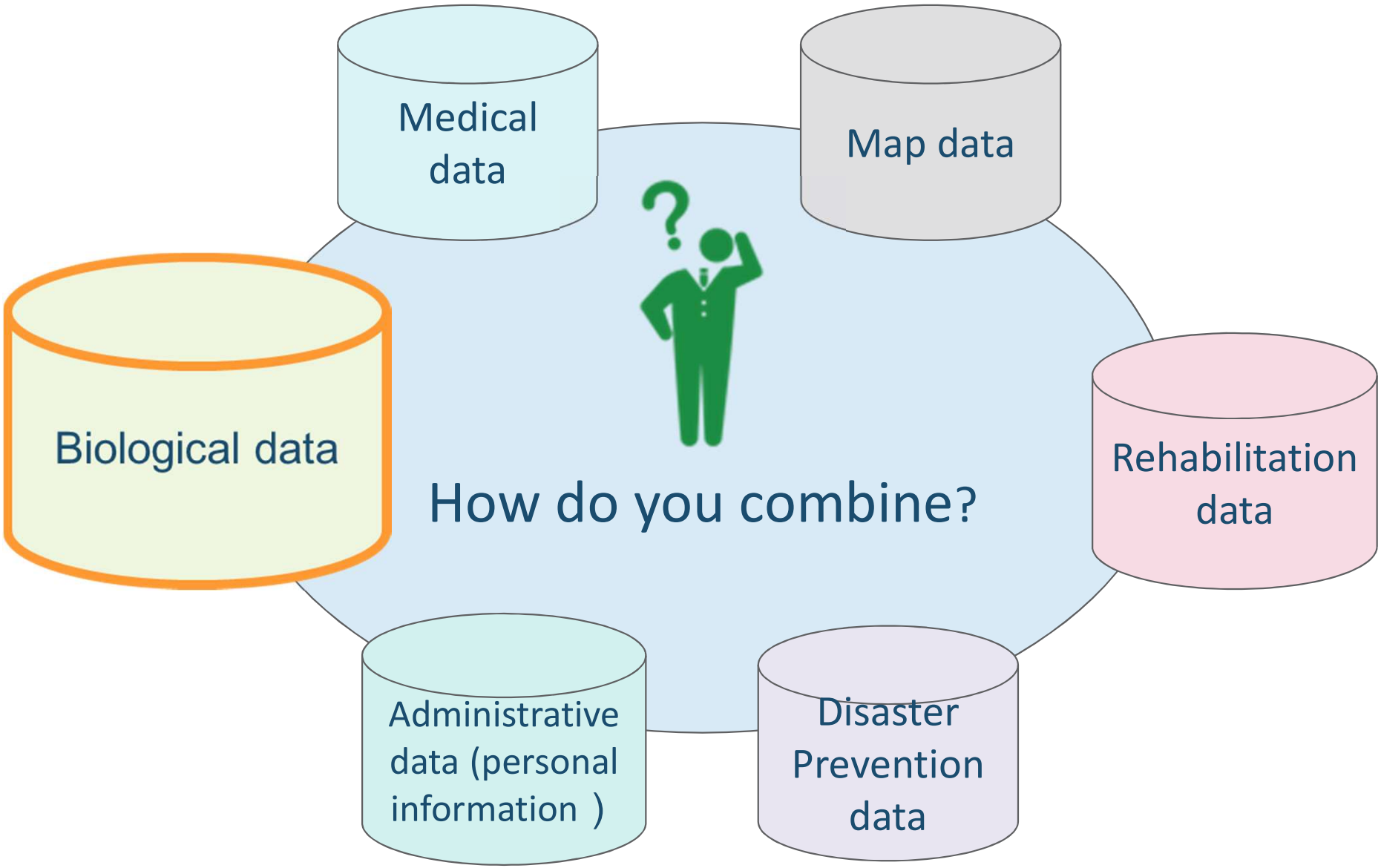
Clinical records

# use case to evolve across disciplines



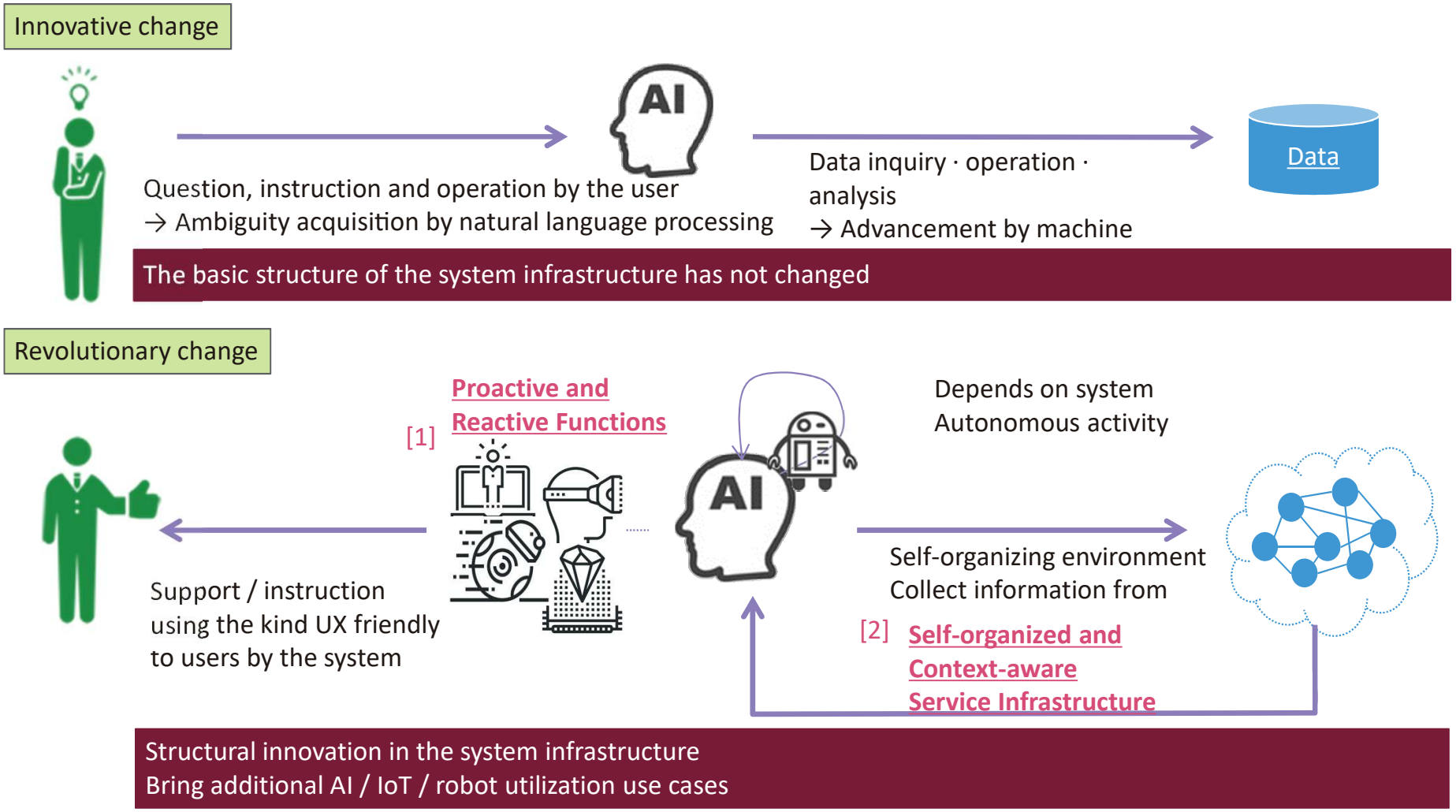
# Summary

# Issue



# Future Development

Now, we input data to AI or we do data analysis, and we thinks of best usage of the data to be applied.
However in future, AI autonomously does data analysis and present its right application.

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