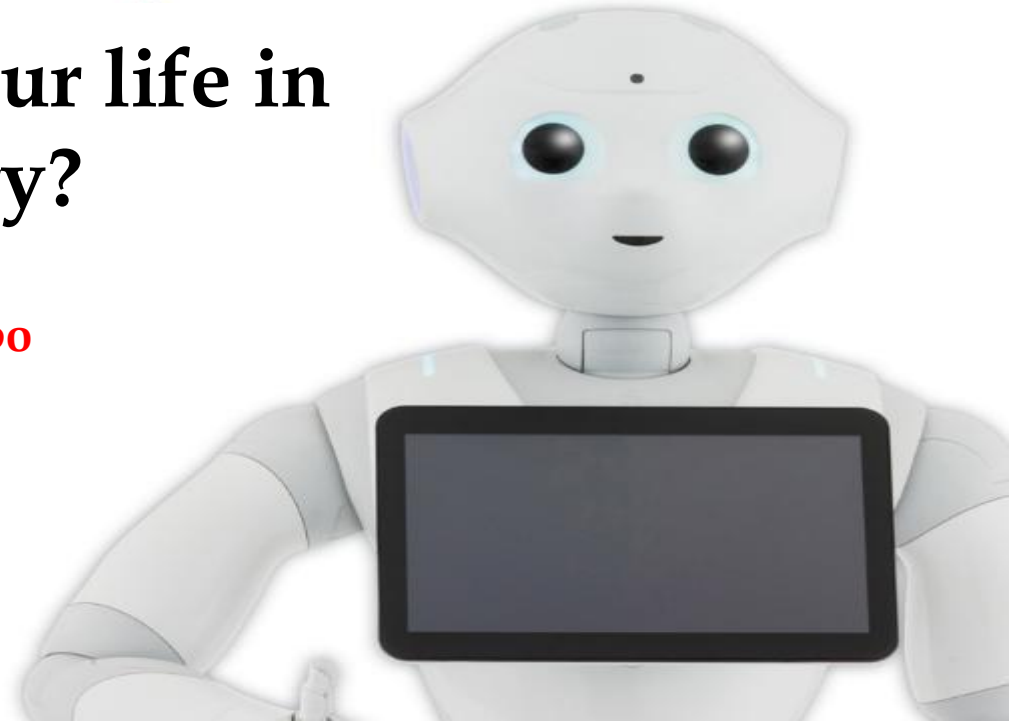# Will robots be part of our life in the ageing society?

Gerontech and Innovation Expo cum Summit (GIES)

The Hong Kong Council of Social Service
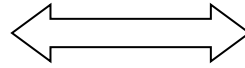
17 June, 2017

1. Teksbotics (Asia) Ltd.

Innovative Robotics & A.I. Companies	- Marketing & Sales - Implementation ⟸⟹ - Application Development 📭 After Sales Services	China B2B and B2C Market

Social Robot   Tele-presence Robot   Education Robot   Research Robot

Our Target Customers

Hospital

Education

Elderly Services

Hotels

Financial
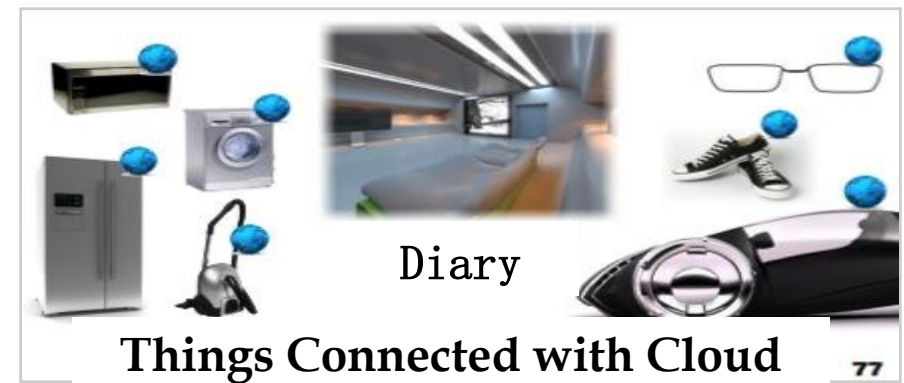
Super Market

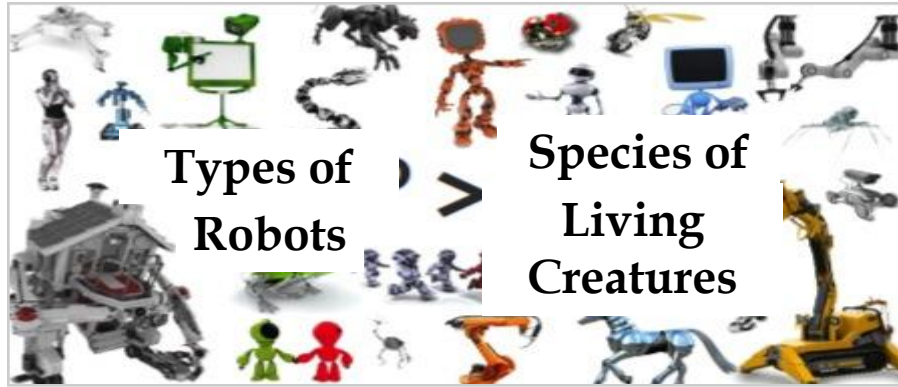Casino

Property Investment

Retail

Museums

Other Large Organization

2. Robots and Human

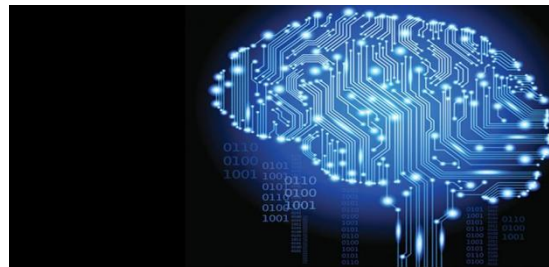**Will robots be part of our life in the ageing society?**

My Answer: Definitely Yes

20-30 Year Later in Our World

Types of Robots > **Species of Living Creatures**

Co-existence between Human & Robots

Disaster Relief

Nursery

Emergency

Diary

Things Connected with Cloud

Structure of Our Smart World

Artificial Intelligence

Intelligent Agents

Robots Computers Pads Phones

Environment

4. Robot Definition

Robot Everywhere under Different Forms

Physical Robots

Humanoid Robot

Non Humanoid Robot

- Education Robots
- Entertainment Robots
- Others

Industrial Robots

Service Robots

UAV

Submarine Robots

- Professional Robot
- Agriculture
- Medical
- Military
- Others

- Personal and Home Robots
- Eldery Service
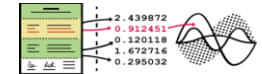- Health Care Robots
- Others
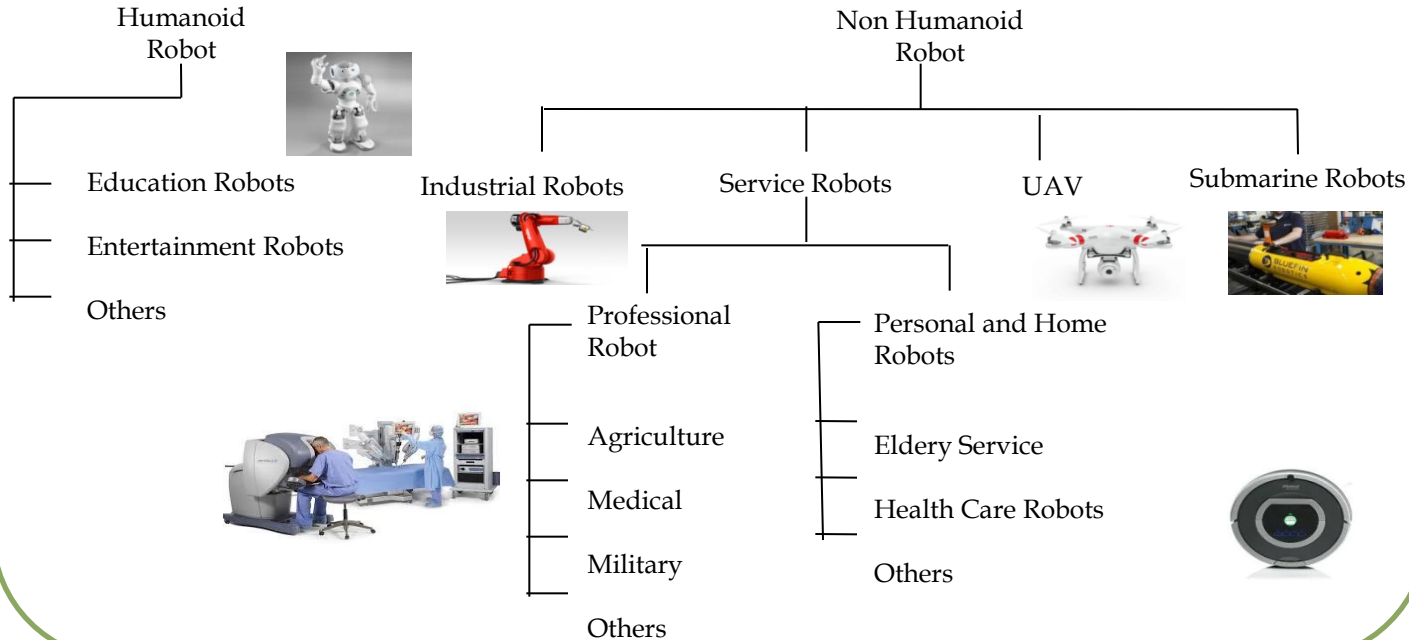
Virtual Robots

Chatbots

Robo Advisers

Legal Robots

Robot Analysts

Robot Agents -Call Center

Definition of Robots by IFR

A robot is an actuated mechanism programmable with a degree of autonomy, moving within its environment, to perform intended tasks, without human intervention.
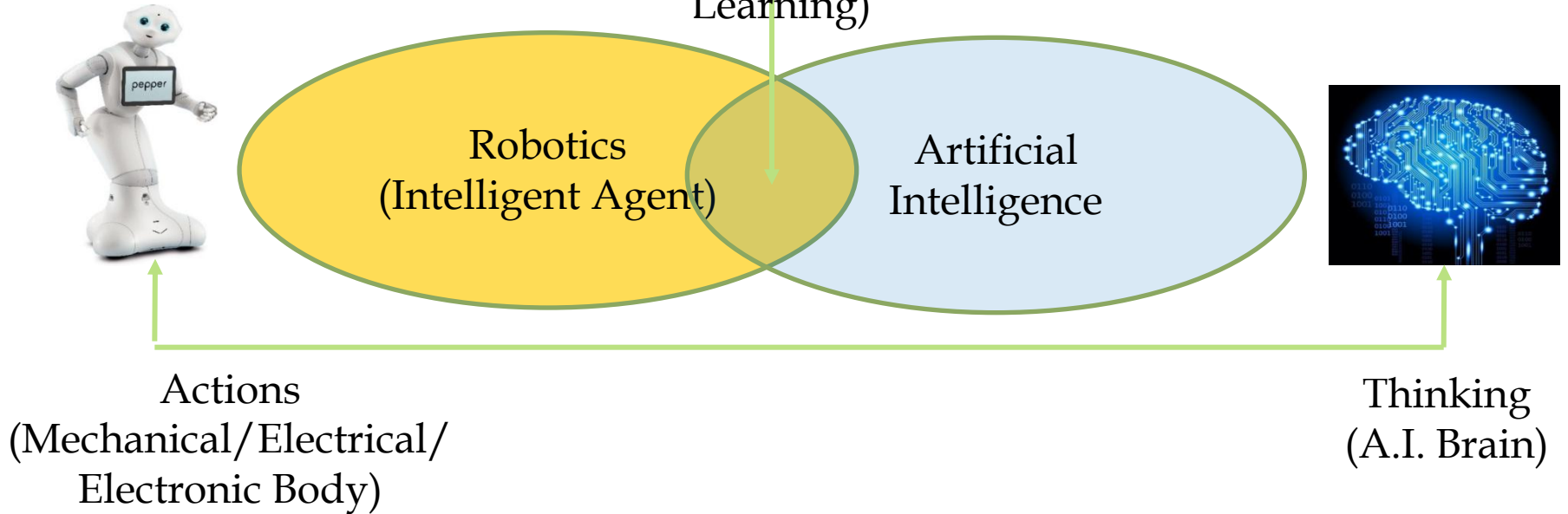
Types of robots include:

☐ Industrial Robots
☐ Service Robots
☐ Personal Service Robot
☐ Professional Service Robot

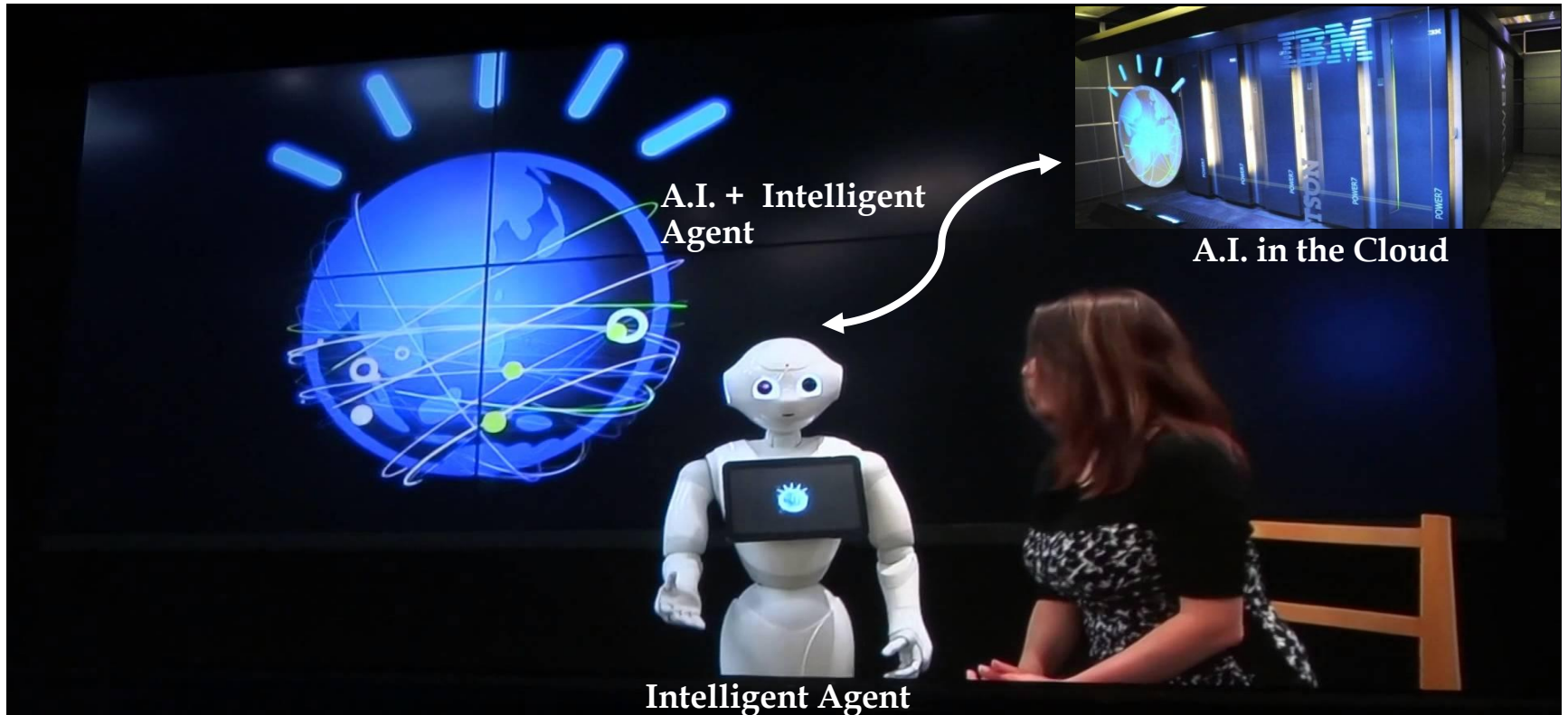Source: International Federation of Robotics

5. Robotics and Artificial Intelligence

A.I. Technologies Used in Robotics
(Machine Vision, Voice Recognition,
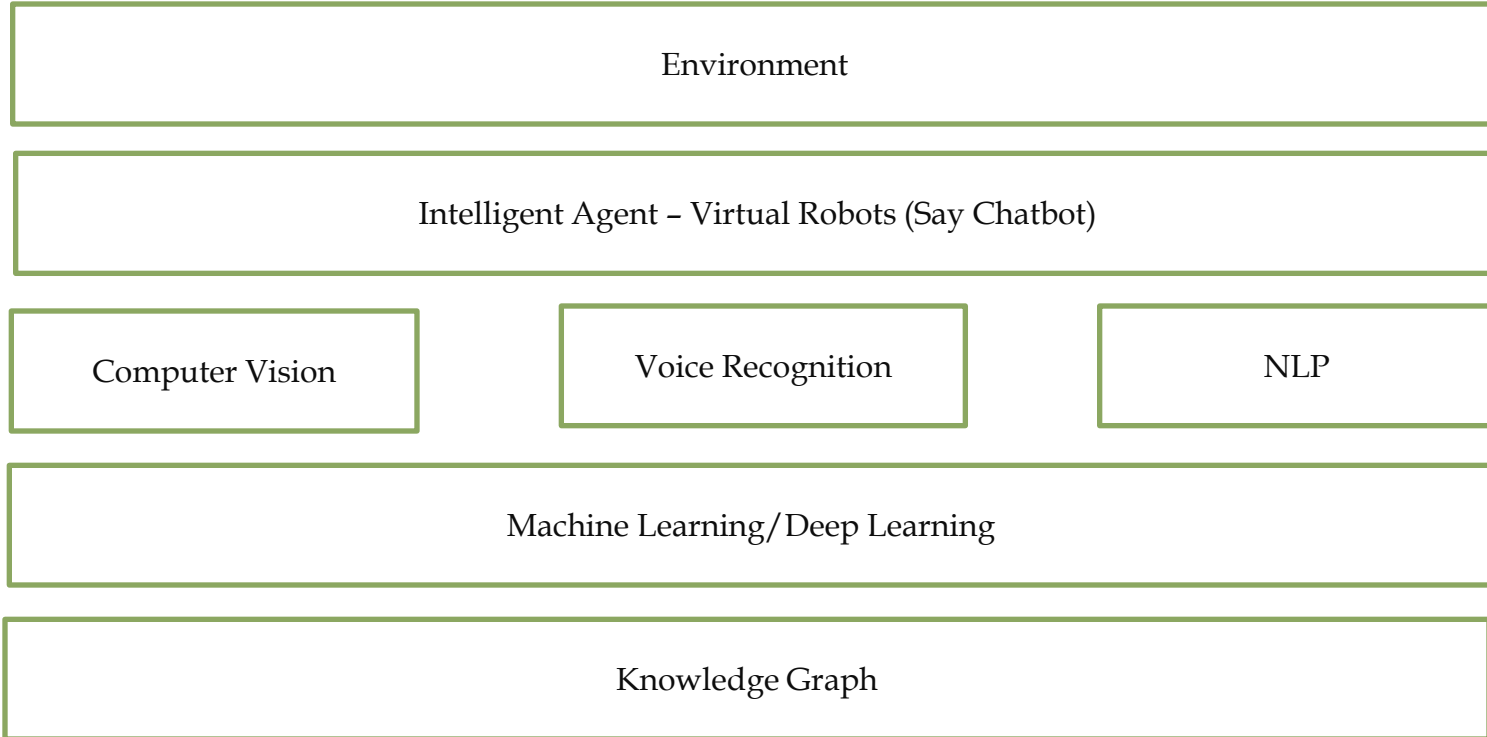Natural Language Processing, Machine
Learning)

Robotics
(Intelligent Agent)

Artificial
Intelligence

Actions
(Mechanical/Electrical/
Electronic Body)

Thinking
(A.I. Brain)

Artificial Intelligence + Human Agent

Artificial Intelligence + Robot (Intelligent Agent)

A.I. + Intelligent Agent

A.I. in the Cloud

Intelligent Agent

6. A.I. Technologies Footprint

Environment

Intelligent Agent – Virtual Robots (Say Chatbot)

Computer Vision	Voice Recognition	NLP

Machine Learning/Deep Learning

Knowledge Graph

7. Application Scenario of Robots in Elderly Care

Education & Entertainment

Security of persons & property, Elderly Care, Smart Home

Elderly Care

Smart Home

Companion, Daily Assistant, Smart Home and Telepresence

Notification to family members while elder falls
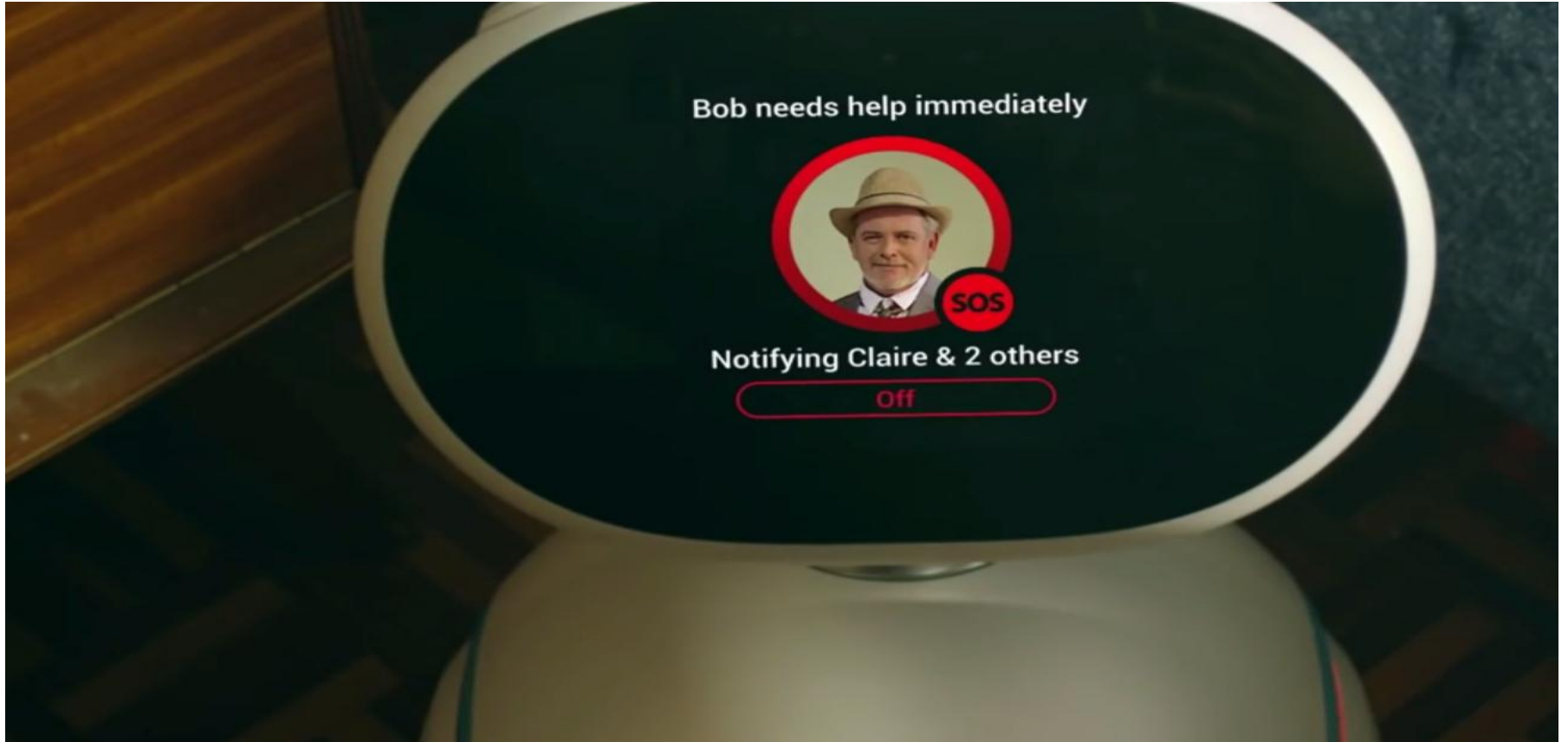
Exoskeleton for Elderly

Domestic Home Cleaning

Robots Working in an Elderly House

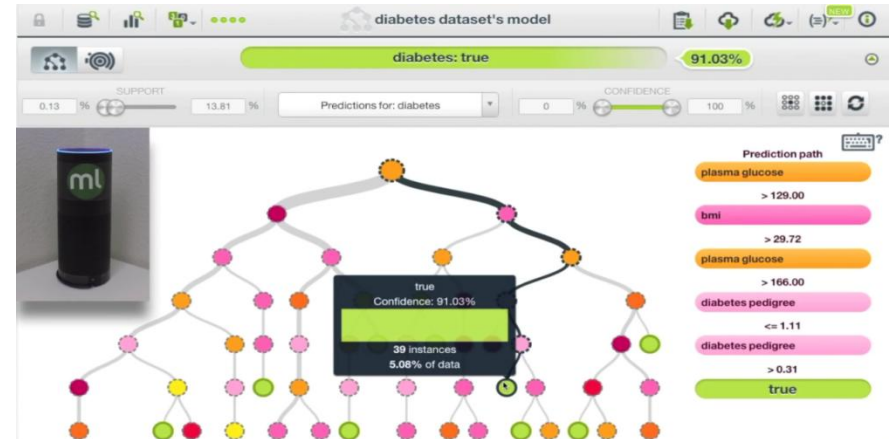# Robots Working in a Hospital

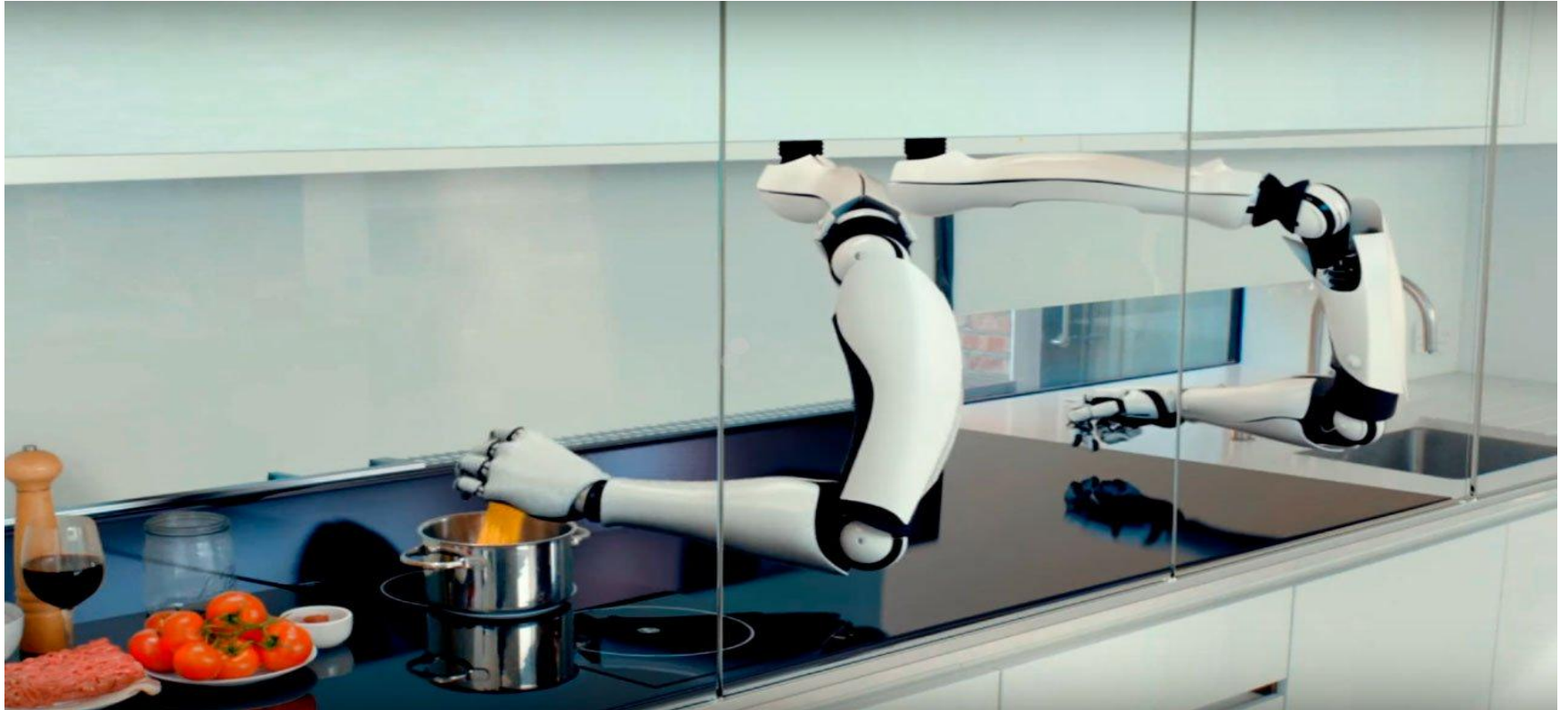# Da Vinci Surgical System in Hospital

Robot Working in a Pharmacy

Machine Learning for Elderly Health Care

Data will also help more efficiently develop medicines and better define which patients will most benefit.

Kitchen Robots (In the Future)

Domestic Robot Helpers (In the Future)

What Robots can Do?

Personal Service Robots

Personal Assistant	Companion	Health Assistant	Emergency Support

Professional Service Robots

Greetings	Reception & Information Services	Way Guidance	Elderly Home Ambassador
Visitor & Elderly Assistance	Elderly Care/ Interaction	Interviews / Analytic	Elderly Home Introduction
Connection between Elderly and their relatives	Entertainment/ Exercise Tutors	Chat and Idle Talks	Integration with other back-end IT System

Many Others........?

See them as our partners.
Ask them to help us living
better.

Further Information

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