

## Moonshot: Concept and Intentions

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### **Modalities of Research and Development**

### Moonshot

"We chose to go to the Moon"



### **Focused Area**

**Comprehensive understanding** 



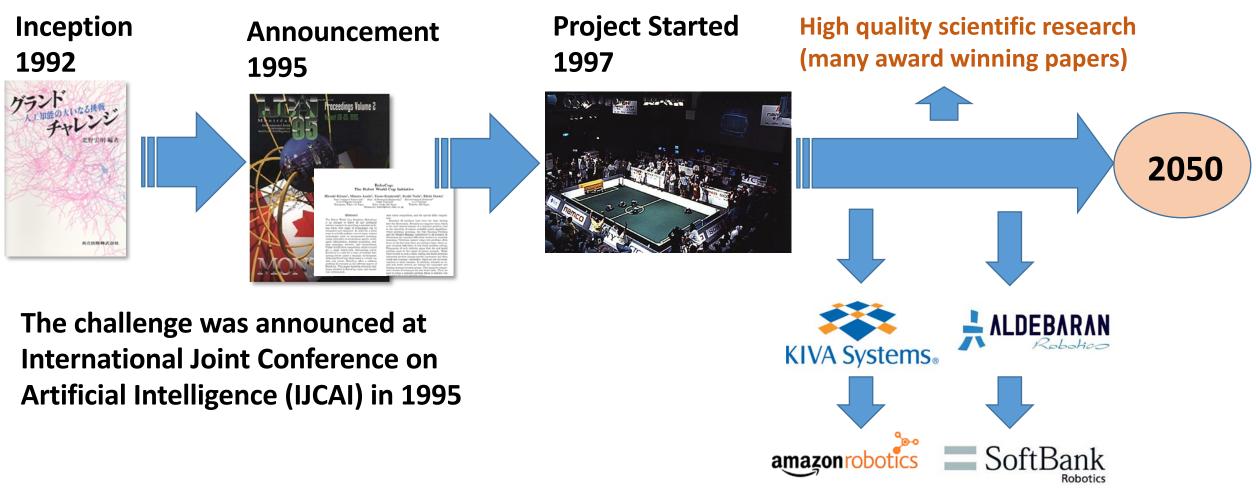
### **Exploratory Research**

**Curiosity-driven basic research** 



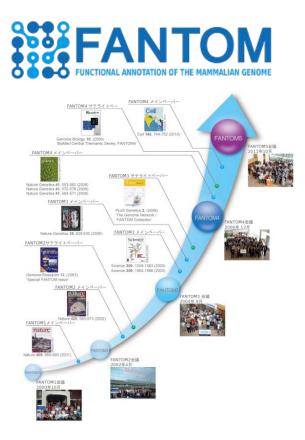
Images from NASA

## Case Study: RoboCup By 2050, develop a fully autonomous humanoid team to win FIFA World Cup champion in Soccer

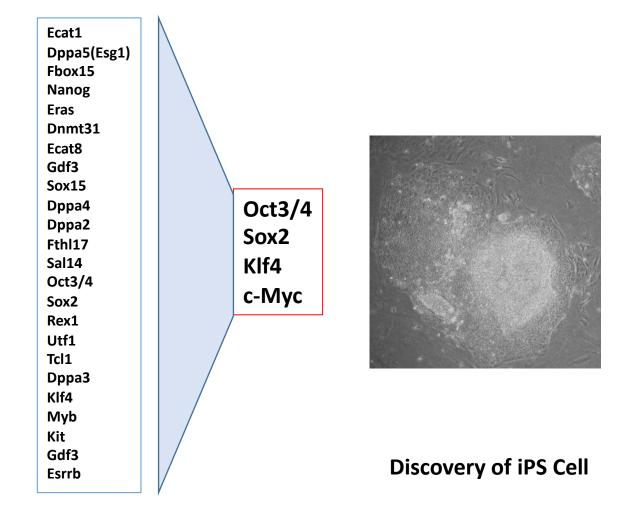


High impact start ups

## Case Study – FANTOM and iPS: A large-scale project and enabled BlueSky research



A comprehensive annotation of mammalian genome



## Japanese Moonshot Mission Areas

1. Leveraging the Aging Society

Solving issues Japan is facing, and leverage them to transform Japan

2. Save the Earth and our Civilization

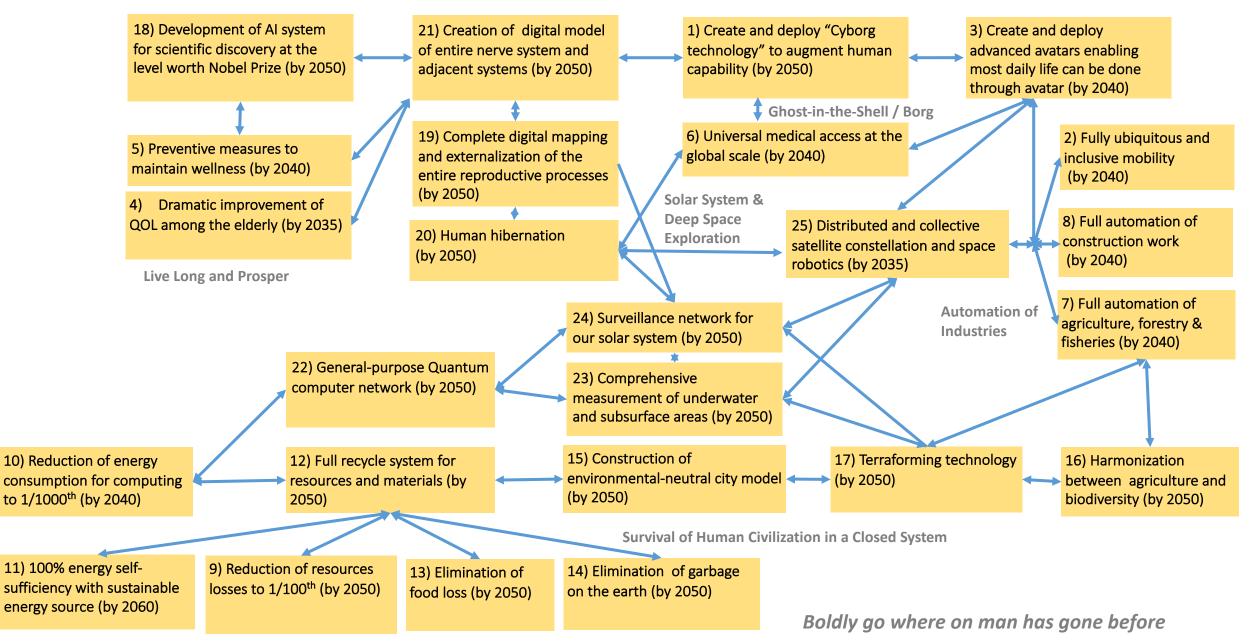
Solving global agenda issues affecting the future of civilization

3. Exploring frontiers with science and technology

Making wildest imaginations in to Reality

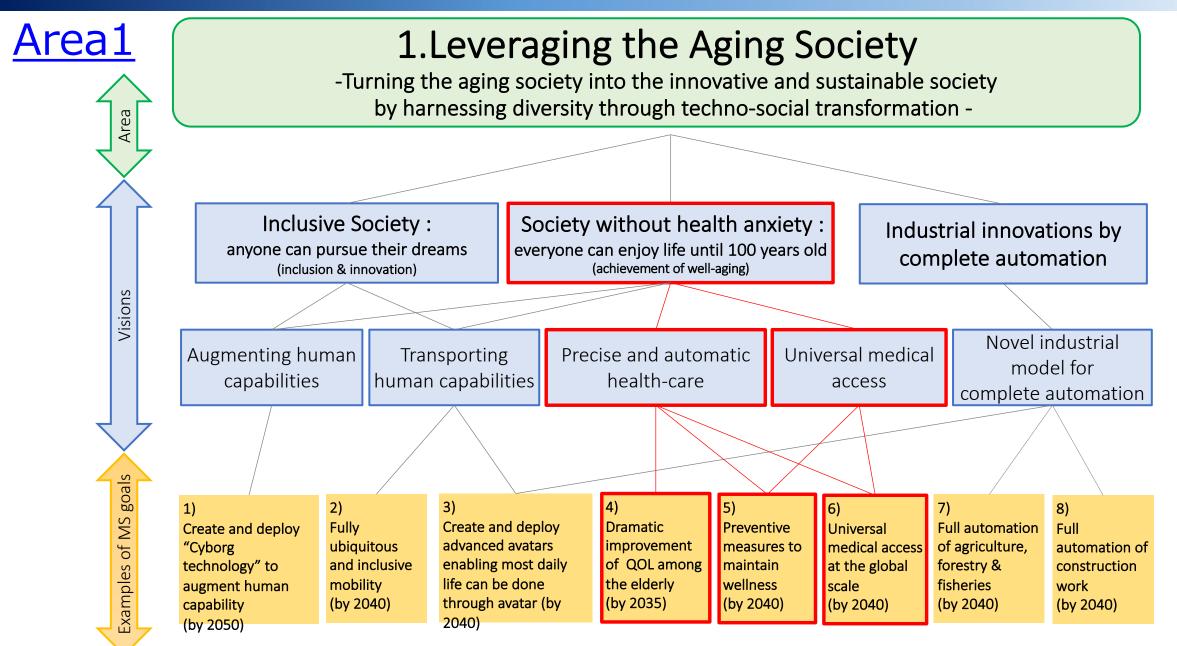
### An Interactive Network of 25 Moonshot Goals





#### **Proposed Moonshot Goals**





### Prevention and Preemption

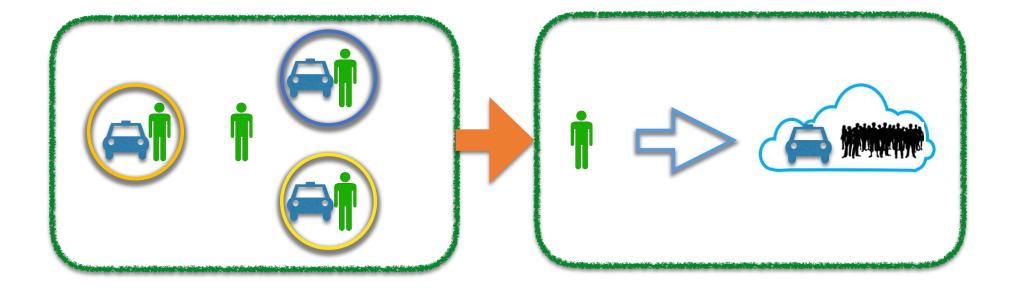
### Universal Medical Access

## General QOL Improvement

## Universal Medical Access Challenge

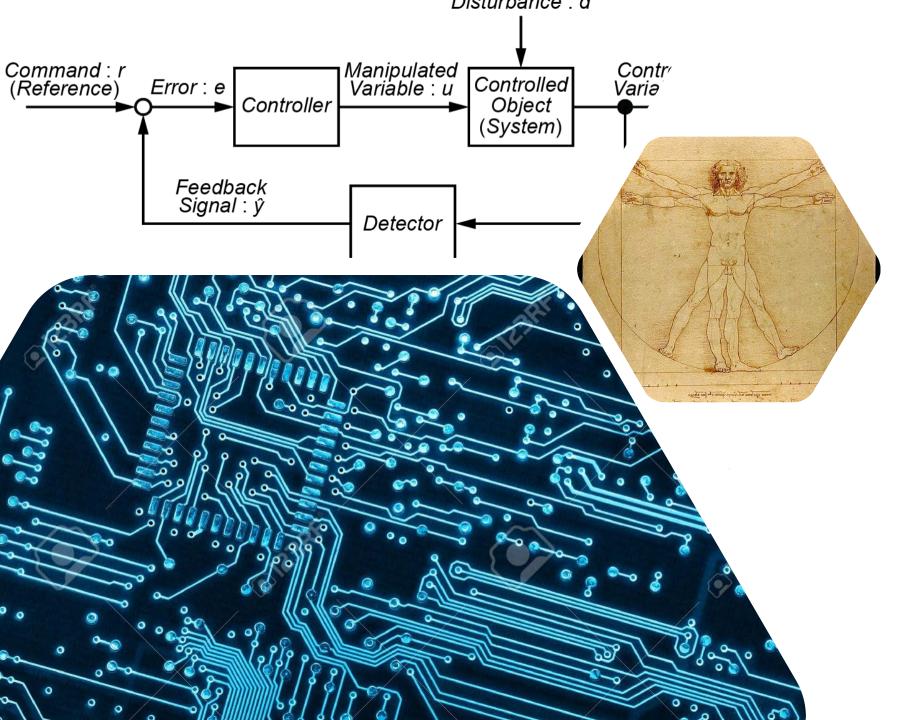
- Access to quality medical practice at anywhere and anytime
  - Anywhere in Japan, and anywhere in the world
  - Anytime 24/7, and even in cases of major disaster
  - Preemptive, Preventive, Personalized medicine
- Politico-social aspect: Policy agenda, social structure, legal framework, etc.
- Technological solution: Tele-medicine, devices (next AED or da Vinci, monitoring, AI assistance, early warning systems, etc.
- Goal: Technologies to provide Universal Medical Access for all

## **Commoditized Ability**



## General QoL Challenge

- Improved QoL for everybody
  - Preventive and Preemptive Medicine & Wellness
  - QoL for sick person
  - QoL for elderly, handicapped, and person with other issues
    - Some non-life-threatening issues also undermine QoL (back pain, ringing ears, etc)
- Possible solutions
  - Longevity research (Controlling life span: inflammation control, Sirtuins, etc)
  - Medical and Technical innovations (neural interventions, etc.)
- Goal: Technologies to control our body to improve QoL



#### Moonshot International Symposium

Technology to control our body

# Science and Technology Challenge to Reshape the Future