

# National Robotics Program

## Our Vision

We envision a vibrant and innovative robotics ecosystem capable of providing solutions to fuel the Smart Nation initiative and to establish Singapore as a global centre of excellence for the study, research, development, making and application of robotics solutions.



# Objectives of National Robotics Programme



Develop a **globally competitive** robotics industry;



Promote pervasive adoption of robotics technologies to **enhance the productivity and competitiveness** of our economic sectors; and

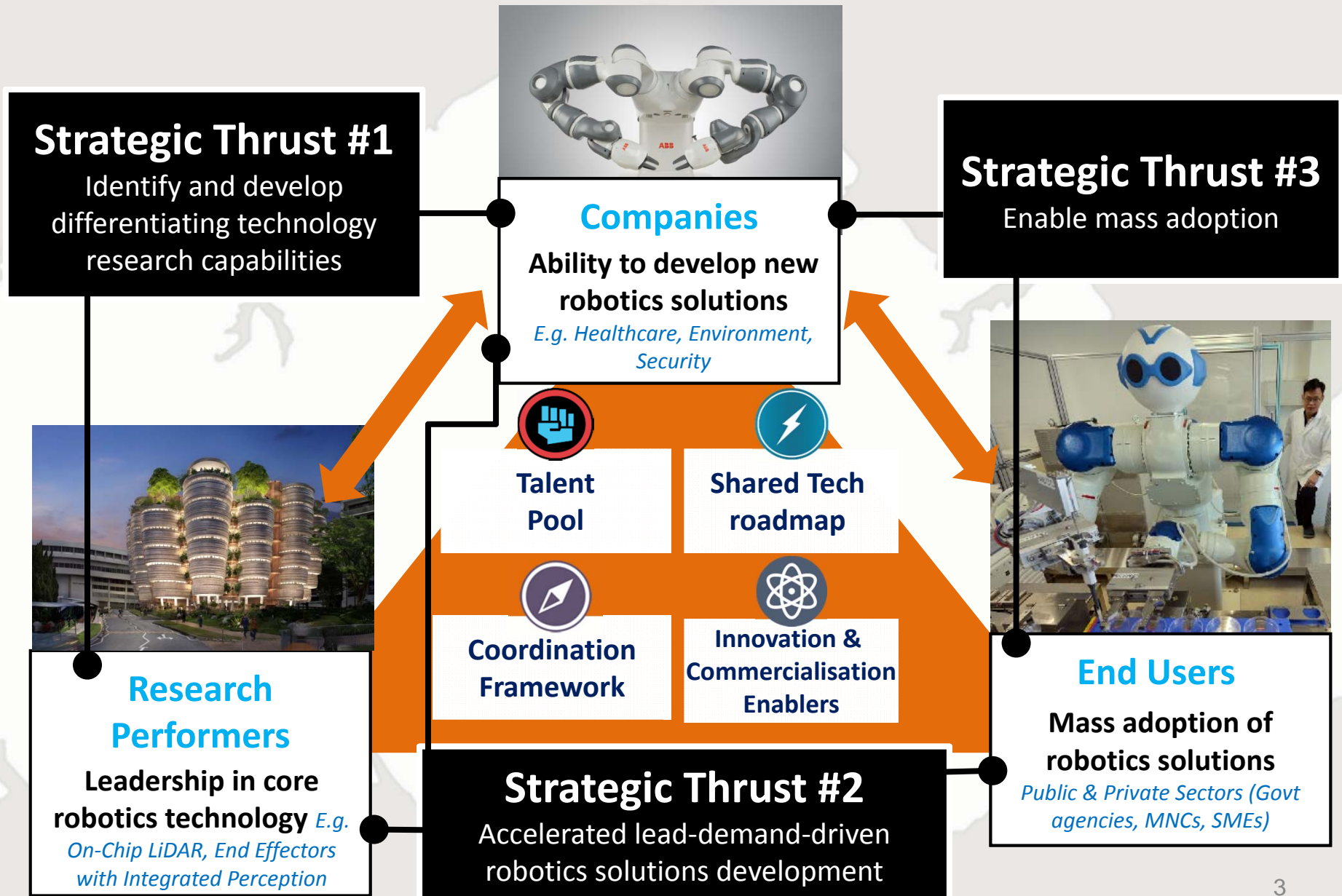


**Support** public sector agencies in **adoption of robotics** to address their imperatives.

**Whole-of-government**

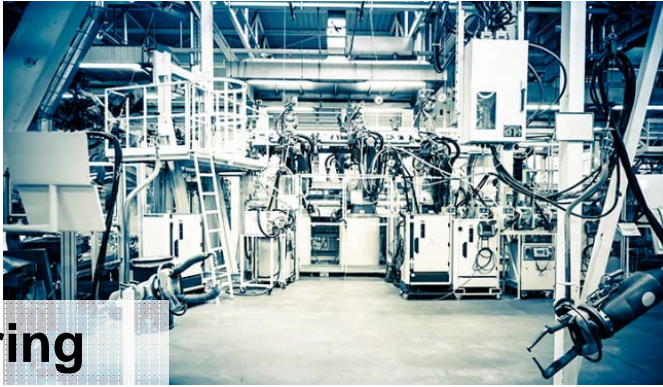
The image displays a collection of logos for various Singaporean government agencies and organizations, arranged in a grid-like fashion. The logos include: Agency for Science, Technology and Research (A\*STAR); EDB (Enterprise Development Board); National Research Foundation; SPRING Singapore (Enabling Enterprise); Ministry of Health Singapore; Ministry of Transport (MOT); Ministry of Home Affairs; and National Environment Agency (Safeguard • Nurture • Cherish).

# Our robotics strategy: **A winning ecosystem**





# Focus Sectors



**Manufacturing**



**Supply Chain**



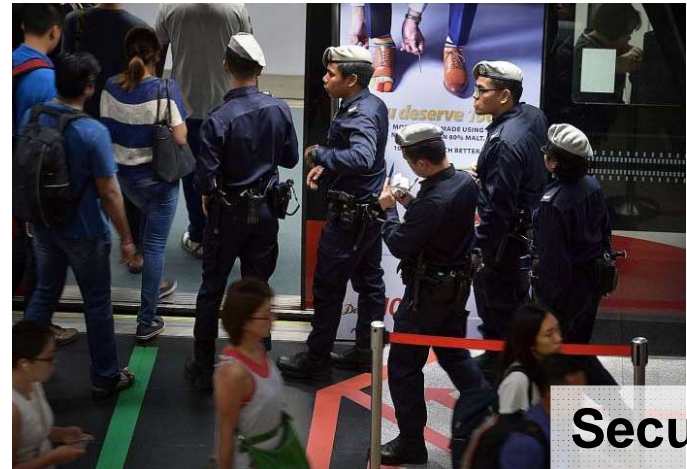
**Healthcare**



**Transportation**



**Environment**



**Security**



# *Summary*

- Continued effort to utilize modern methods in control and use of reconfigurable heterogeneous sensors (sensor fusion) to deliver more flexible robot systems.
- Access to flexible gripping mechanism and robust manipulation for delivery using mobility platforms.
- Improve productivity through Robotics usage, streamline data collection (IT), apply Data Analytics (DA), implement Artificial Intelligence (AI).
- Major new research on Human Robot Interaction (HRI) methods.