



National Robotics Programme's New Initiatives Aim to Step Up Translation of Robotics Capabilities in Singapore

The global robotics market is projected to see substantial growth in revenue, reaching an estimated value of US\$38.24 billion (S\$51.37 billion) in 2024 and US\$45.09 billion (S\$60.58 billion) by 2028⁽¹⁾.

To seize this opportunity, the National Robotics Programme (NRP) will receive a new tranche of about \$60 million in funding, with a focus on stepping up the translation of Singapore's robotics capabilities in sectors such as manufacturing and logistics, facilities management and healthcare.

NRP, as the national platform for robotics, will build on successful ecosystem research outcomes and embark on new initiatives to develop solutions for industry. The aim is to support business transformation through robotics and strengthen Singapore's position as a global hub for businesses, innovation, investors and talent.

A key part of this effort is the new RoboCluster initiative.

What is the RoboCluster initiative?

RoboClusters are robotics innovation clusters aligned with prioritised R&D focus areas and industry sectors – namely manufacturing, logistics, facilities management and healthcare. Through the RoboClusters, NRP will bring together public research and development (R&D) institutions such as A*STAR and Institutes of Higher Learning (IHLs), end-users, robotics & automation companies, trade associations and agency stakeholders to align and synergise robotics R&D capability-building with industry needs, foster collaborations as well as catalyse greater translation within the clusters.

New initiatives and events will be rolled out to bring together key players in the local robotics ecosystem, to identify new use cases for collaborative R&D projects, translate, and commercialise novel robotics solutions. These include accelerating adoption roadmaps, design thinking workshops, curated R&D projects and deployment opportunities, for more successful business matching and fruitful collaborations within the ecosystem on robotics R&D projects.

<https://www.statista.com/outlook/tmo/robotics/worldwide#:~:text=The%20Robotics%20market%2C%20worldwide%2C%20is,bn%20in%20the%20same%20year>

How does NRP help drive industry-focused robotics solutions?

NRP was established in 2016 to identify and develop differentiating technologies and research capabilities, applying them to address Singapore's national challenges and to transform its industries.

The first phase of NRP focused on the end-to-end development of robotics technology, and piloting robotics technology applications across various industries.

About the National Robotics Programme (NRP)

The National Robotics Programme (NRP) is a multi-agency national platform hosted by the Agency for Science, Technology and Research (A*STAR), that oversees the research, development and translation of robotics enablers and solutions in Singapore. Established in 2016 as part of the RIE (Research,