CLASSIFYING CAPABILITIES: ROBOTICS AND ARTIFICIAL INTELLIGENCE



Repeated Action Without Human Control

Reprogrammable system performs a pre-defined series of actions

Auto-pilot and Waypoint Navigation

Navigates a pre-programmed route and responds to changes in environment without direct human control



ABB Industrial Robot IRB 6650S Image from ABB



Heightened Situational Awareness and Autonomous Response

Processes extensive range of inputs simultaneously and reacts appropriately to scenarios not previously encountered

Operator-Free Response to Altered Environment

Senses changes in environment, calculates potential responses and acts without human operator confirmation



'Iron Dome' Missile Defence System Image produced by Grafxbox Rethink Robotics 'Baxter' Industrial Robot Image from Rethink Robotics



Autonomous Learning and Robot Evolution

Assesses past performance in completing a pre-defined taskı identifies areas of weakness and modifies behaviour to increase effectiveness

