

# Robotics: Changing The Way You Live At Home Table of Contents

By Barbara Kraus, Director of Research, and Brad Russell, Researcher

#### **Synopsis Robotics Forecast** Many futurists expect **Robotic Vacuum Cleaner Adoption Forecast** home robots will one day **U.S. Broadband Households** be as ubiquitous as TVs 12% with use cases ranging from housekeeping to home maintenance to hazard detection to specialized medical and assisted living tasks. This 6% report covers the current status of robotics, identifies leading players in consumer robotics development, discusses applications for the connected home, and 2014 2016 2018 2020 includes a five-year forecast for robotic floor © Parks Associates cleaners.

Publish Date: 2Q 15

"Home robotics is an industry with great potential but a lengthy timeline. Most home robots are very much in the early vision and developmental stages," said Barbara Kraus, Director of Research. "Home robots can improve human lives in ways ranging from small conveniences to life-changing benefits. The changes will come gradually and in small steps as technologies improve and people learn how to optimize robotic resources. For the near term, most robots will be able to perform single tasks and are likely to look like smart home devices or appliances."

#### **Contents**

### Dashboard

### 1.0 Report Summary

- 1.1 Purpose of Report
- 1.2 Scope of Report
- 1.3 Research Approach/Sources

#### 2.0 The Home Robotics Landscape

#### 3.0 Innovation in Commercial Robotics

- 3.1 Commercial and Industrial Use Cases and Technologies
- 3.2 Economic Implications for Commercial Robotics

#### 4.0 The Challenges of Home Robotics

- 4.1 Static Versus Dynamic Environments
- 4.2 Mimicking Human Motion
- 4.3 Understanding the Environment
- 4.4 Learning versus Programming
- 4.5 Privacy and Security
- 4.6 Consumer Acceptance



## Robotics: Changing The Way You Live At Home *Table of Contents*

By Barbara Kraus, Director of Research, and Brad Russell, Researcher

### 5.0 Home Robotics Use Cases

- 5.1 Floor Cleaning
  - 5.1.1 iRobot
  - 5.1.2 Neato
  - 5.1.3 Ecovacs Robotics
  - 5.1.4 Techko Maid
  - 5.1.5 Mass Market Brands
- 5.2 Lawn Care
- 5.3 Education
  - 5.3.1 Evollve, Inc.
- 5.4 Toys and Entertainment
- 5.5 Personal Assistants
  - 5.5.1 Jibo
  - 5.5.2 Five Elements Robotics
  - 5.5.3 Robotbase
- 5.6 Humanoids
  - 5.6.1 Honda Robotics
  - 5.6.2 Softbank / Aldebaran
- 5.7 Assisted Living

#### 6.0 Economic Implications for In-Home Robots

#### 7.0 Forecast

- 7.1 Forecast Methodology
- 7.2 Forecast

## 8.0 Implications and Recommendations

- 8.1 Implications
- 8.2 Recommendations

#### 9.0 Appendix

- 9.1 Glossary
- 9.2 Company Index

	•			
-	ig	ш	7	36
	ш.		ш	-

Estimated Worldwide Annual Shipments of Industrial Robots

**Smart Home Privacy Concerns** 

Consumer Acceptance of Privacy Solutions

Robotic Vacuum Cleaner Ownership by Education Level

Robotic Vacuum Cleaner Ownership by Income Level

Disposable Income Distribution in China

**Examples of Robotic Floor Cleaners** 

**Example of Robotic Lawn Mowers** 

Impact of Home Robotics Functionality on Sales and Unit Prices

Forecast Methodology Robotic Vacuum Cleaners

Adoption Forecast for Robotic Vacuum Cleaners

Sales Forecast for Robotic Vacuum Cleaners

Revenue Forecast for Robotic Vacuum Cleaners



## Robotics: Changing The Way You Live At Home *Table of Contents*

By Barbara Kraus, Director of Research, and Brad Russell, Researcher

	- 6					
-	OT.		100	<b>n</b> a	mı	$\alpha c$
 	v.	Co		· / ·		

Aethon International Federation of Robotics

Amazon InTouch Health

Artec iRobot
Best Buy Jibo
Blue River Technology John Deere
Bosch Lego
Boston Dynamics LG

Bot & Dolly Meka Robotics

Brain Corporation MIT
China Robotics Industry Association Ozobot
Dyson Panasonic

Ecovacs Robotics Redwood Robotics
Evollve, Inc. Revolve Robotics
Five Elements Robotics Robotbase

Friendly Robotics

Google

Holomni

Honda

Honda Robotics

Husqvarna

Samsung

Softbank

Sony

Techko Maid

Wowwee

#### **Attributes**

Parks Associates 15950 N. Dallas Pkwy Suite 575 Dallas TX 75248

800.727.5711 toll free 972.490.1113 phone 972.490.1133 fax

parksassociates.com sales@ parksassociates.com Authored by Barbara Kraus and Brad Russell

Executive Editor: Jennifer Kent Published by Parks Associates

© April 2015 Parks Associates

Dallas, Texas 75248

All rights reserved. No part of this book may be reproduced, in any form or by any means, without permission in writing from the publisher.

Printed in the United States of America.

### Disclaimer

Parks Associates has made every reasonable effort to ensure that all information in this report is correct. We assume no responsibility for any inadvertent errors.