

THE USE OF AUTONOMOUS CLEANING TECHNOLOGY AT IROBOT ROOMBA



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THE USE OF AUTONOMOUS CLEANING TECHNOLOGY AT IROBOT ROOMBA

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INTRODUCTION

BACKGROUND OF THE ORGANIZATION

Challenges Before Introducing The Autonomous Cleaning Technology at iRobot Roomba

Small

Cable free

Light



Challenges Before Introducing The Autonomous Cleaning Technology at iRobot Roomba

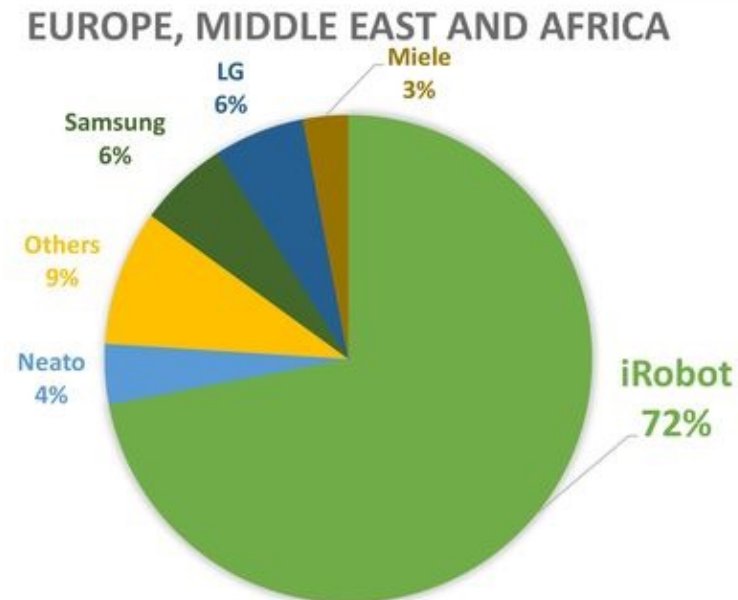
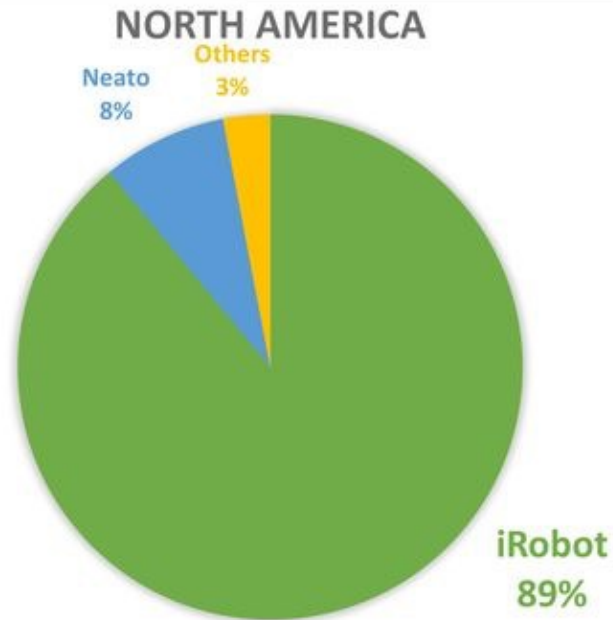
✓ SMART

✓ To live up to
people's expectation

(Boyd, 2017)



Market Share of Robotic Vacuums



iRobot®

INSIGHTS OF THE MODERN TECHNOLOGY INTRODUCED

Roomba used **iRobot's
AWARE(tm) Robotic
Intelligence System** in the
past to make many decisions for
itself, so minimal human input is
required.

(Julia 2005)





The latest models are introduced with the most advance navigation technology from IRobot called iAdapt® 3.0 and Imprint. With the help of the new technology the user is introduced with Smart Mapping

Smart Mapping provides the user with fully autonomous experience which means that these robots clean, learn, and adapt to your environment. They utilize a camera to identify landmarks and create a map that can be referenced for future cleaning jobs

To make the experience completely autonomous Imprint™ Smart Maps can be customized to indicate where specific rooms are, and robots that utilize Imprint™ Smart Map technology can map the location of the Home Base® or Clean Base™ Automatic Dirt Disposal Unit.

The Home Base® sucks the rubbish out of the robot so it can continue cleaning without need of human interference unit can hold the dirt of approximately 30 days.



(iRobot 2022)

The difference between the two technologies can be clearly observed in their cleaning patterns.

AWARE(t
m)

iAdapt®



(iRobot 2021)



IMPACTS OF AUTONOMOUS CLEANING TECHNOLOGY BY IROBOT ROOMBA

ROOMBA **CHANGED** how
people kept their homes to be
clean

Helpful IROBOT
ROOMBA **CHANGED** Family Life

The ROOMBA **CHANGED** styles
of cleaning

The AUTONOMOUS CLEANING TECHNOLOGY
BY IROBOT ROOMBA **CHANGED** who do the
cleaning

How much the Autonomous Cleaning
Technology **CHANGED** the way that people do
cleaning



(Spice 2007)

IMPACTS OF AUTONOMOUS CLEANING TECHNOLOGY BY IROBOT ROOMBA

POSITIVE IMPACTS:

❖ Hand free cleaning

❖ Schedule to clean

❖ It is maintenance free

❖ It helps people with problem

❖ It does not need a lot of attention



❖ Reduces the allergens in the air

IMPACTS OF AUTONOMOUS CLEANING TECHNOLOGY BY IROBOT ROOMBA

NEGATIVE IMPACTS:

- ❖ It cannot provide jobs
- ❖ It is very pricy ranging
- ❖ It can make people lazy



(Otugo 2015)

LESSONS DRAWN

Differences between traditional and modern technology

➤ Holding by hand with long cable

➤ Much accessories for cleaning

➤ Noisy and heavy

➤ Cord-free and automated robotic

➤ Don't involve much effort from the user

➤ Both vacuum and mop





MODERN TECHNOLOGY IS IMPORTANT FOR THE ORGANIZATION

- Spend more time with the family ,friends and pets
 - Relax at home or go out to drink coffee
 - Enough time for shopping mall or shopping food
 - Reading a book or work from home



LESSONS DRAWN



Consequences of not using modern technology

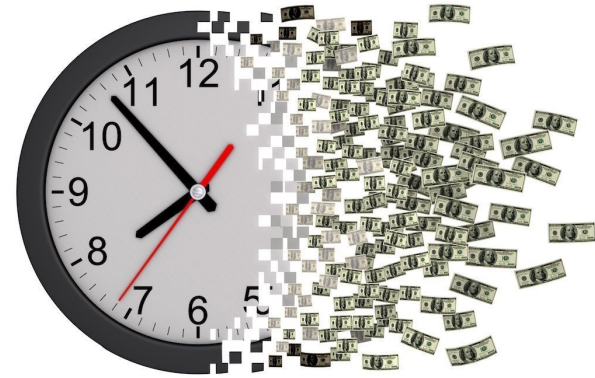
LESSONS DRAWN

- More time for cleaning and not enough rest
 - More busy everyday and a loss of energy
- Much tiredness and sleepy
 - Less focused at work



CONCLUSION

- Simple to use. The flexibility of operation of a robot vacuum cleaner may be its greatest advantage
- Amazingly effective and helps save time of the user
- Works on a Variety of Surfaces
- Identifies All Dirt Levels also humans and pets hair
- Little, compact, and simple to store
- Accelerates the cleaning process



(Stevenson A. 2022)

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