

# COGNITIVE COMPUTING

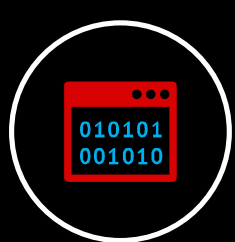
MAJOR PRODUCTIVITY GAINS WILL BE UNLOCKED BY THE WAVE OF AUTONOMOUS COMPUTATIONAL SYSTEMS. THESE SYSTEMS WILL RESPOND TO THE ENVIRONMENT BY THEMSELVES, WITHOUT PRE-PROGRAMMING.

THESE ARE SYSTEMS THAT CAN **SENSE, LEARN, INFER AND INTERACT.**



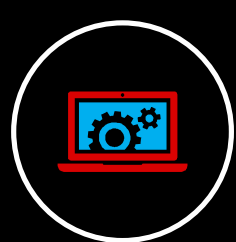
## SENSE

SENSE AND RESPOND – NETWORKS OF SMART MACHINES AND DEVICES THAT TALK TO EACH OTHER



## LEARN

LEVERAGE HISTORICAL DATA AND DRAW INFERENCES FROM PAST EXPERIENCE



## INFER/THINK

MIMIC THE BRAIN'S ABILITIES OF PERCEPTION, ACTION AND COGNITION, AND GENERATE EVIDENCE-BASED HYPOTHESIS



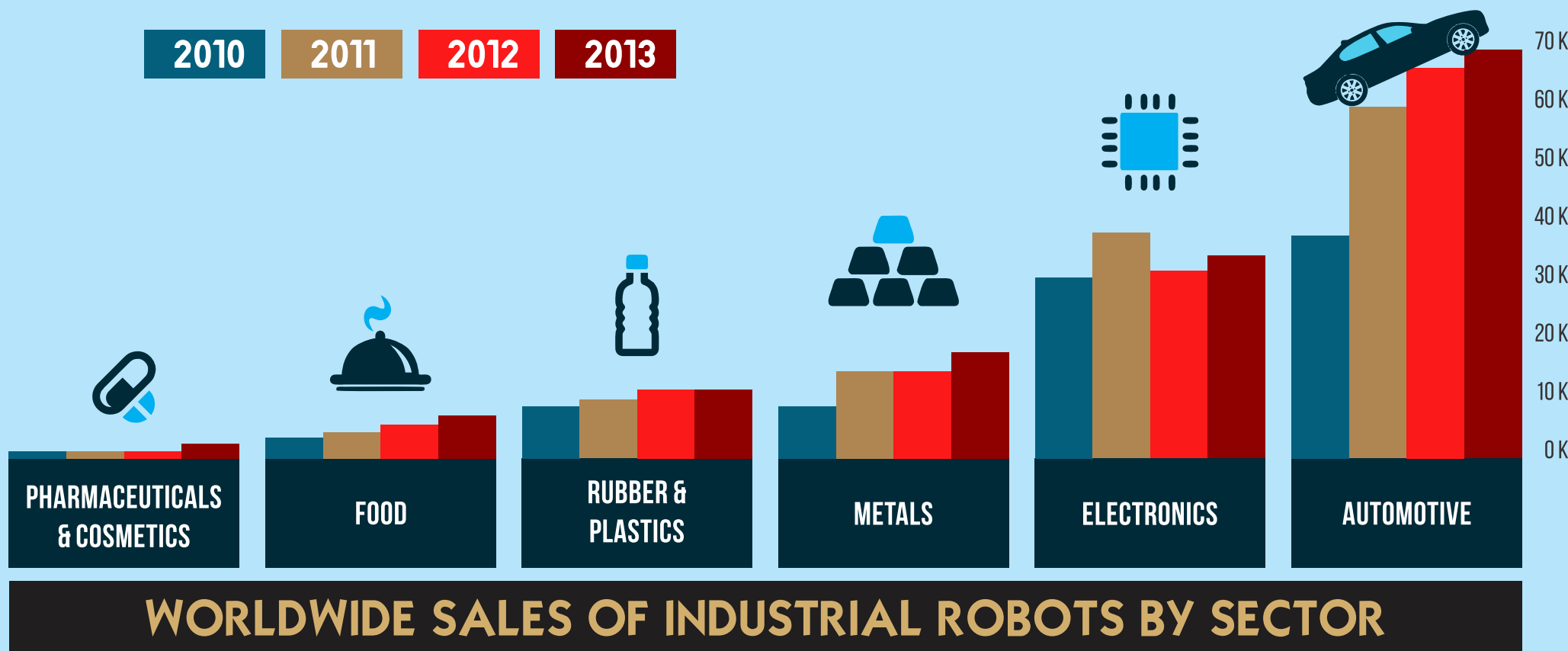
## INTERACT

SYSTEMS THAT HAVE DIALOGUE-ORIENTED NATURAL LANGUAGE INTERFACES

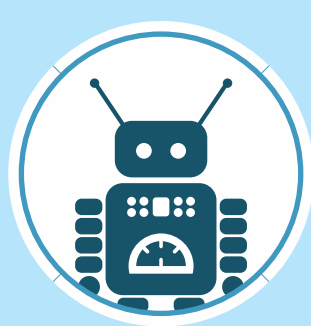
## AI ON THE RISE

RECENT BREAKTHROUGHS HAVE UNLEASHED AI TODAY

**Inexpensive, Parallel Computation, Big Data & Better Algorithms**



WORLDWIDE SALES OF INDUSTRIAL ROBOTS BY SECTOR



**1.2 million to 1.5 million**  
TOTAL WORLDWIDE STOCK OF OPERATIONAL INDUSTRIAL ROBOTS

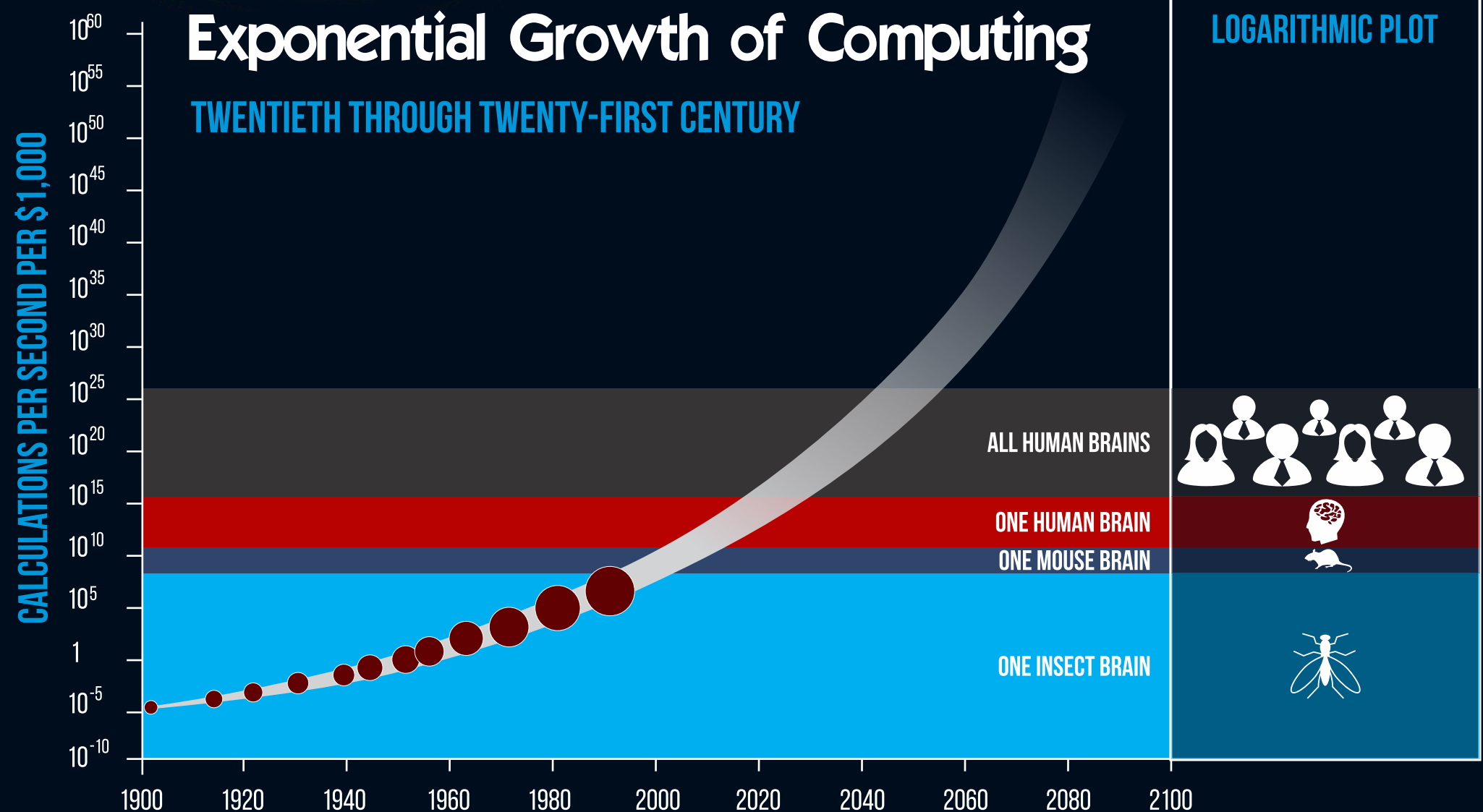
**\$26 billion**  
WORLDWIDE MARKET VALUE FOR ROBOTIC SYSTEMS

## THE FUTURE HOLDS MUCH PROMISE

AI HAS ATTRACTED MORE THAN **\$17 BILLION** IN INVESTMENTS SINCE 2009



PRIVATE INVESTMENT IN THE AI SECTOR HAS BEEN **EXPANDING 62 PERCENT** A YEAR ON AVERAGE FOR THE PAST FOUR YEARS, AND IS EXPECTED TO CONTINUE



ARTIFICIAL INTELLIGENCE WILL REACH HUMAN LEVEL AROUND THE YEAR 2029!

~Ray Kurzweil - Author, Inventor, Futurist

SOURCES: MIT Technology Review, Wired and WaitbutWhy

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