

CIRCLE8 ROBOTICS / THE OUTLOOK

Robots at home and at work: the next five years.

A six-chapter feature on where robots already work and where they go next, followed by the schematics behind it.

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Issue 01

THE FEATURE
Six chapters,
pages 02 to 09

SCHEMATICS
Six pages of charts
and diagrams, 10 to 15

EVIDENCE
Sourced in the text,
listed on page 16

THE FEATURE

Where robots go next, and how quickly.

Factories have spent a decade filling up with robots. Between now and 2031 the same machines, and a newer kind built in the shape of a person, will move into warehouses, hospitals, shops and homes. This is an account of where things stand, what the evidence supports, and what households and businesses can sensibly do about it.

CIRCLE8 ROBOTICS / NOVEMBER 2026 / A FIFTEEN-MINUTE READ



Illustration. Mobile robots carrying tote racks along a warehouse aisle at night.

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Feature first, schematics after

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HOW THIS ISSUE IS PUT TOGETHER

The chapters tell the story in prose and cite their sources as they go. The schematics on pages 10 to 15 set out the same numbers as charts and diagrams, for readers who want to check them. Our own views are labelled as ours, and the photographs are illustrations made for this issue.



Illustration. Robot arms welding car bodies on an assembly line.

I

THE FACTORY FLOOR

Factories set a record in 2025, and almost nobody outside them noticed.

Factories around the world installed more than 600,000 industrial robots in 2025, the International Federation of Robotics reported in September 2026, the first year above that mark. The number in service passed five million. In 2024 the figure had been 542,000, which the IFR noted was more than double the level of ten years earlier.

Most of these machines do one job, behind guarding, for years at a time. They weld car bodies, paint panels, tend machine tools and stack boxes at the end of the line. They rarely make the news, because when they work nobody has a reason to mention them.

The map has shifted

China installed 354,000 robots in 2025, 59 per cent of the world total, and Chinese suppliers now sell more than half of the robots bought there. The United States grew 12 per cent to almost 38,500 units and moved into second place, ahead of Japan, which fell 19 per cent to 36,219. Germany, still the largest market in Europe, installed fewer than 25,000.

Europe as a whole installed 85,000 robots in 2024, down 8 per cent, and Germany fell again in 2025. Employers there still report shortages of people, so we read the dip as demand that has been delayed. We do not see a region that has finished automating.

Why it matters outside the factory

All that volume has brought down the price of the parts every robot needs: motors, gearboxes, sensors and controllers. The supply chain that builds industrial arms is the same one now building mobile robots and humanoids, which goes a long way to explaining why the newer machines are getting cheaper faster than the arms did.

The hardware for most factory jobs already exists. What limits adoption is integration: making a robot work with the line, the safety system and the people around it. That is local work, done site by site, and it is where most projects succeed or stall.

The IFR expects 655,000 installations in 2026 and 806,000 a year by 2029 (Schematic 1, page 10).

INSTALLED IN 2025

603k

Industrial robots, a record. IFR, September 2026.

IN SERVICE

5m

Operational stock, up 9 per cent on the year.

CHINA'S SHARE

59%

354,000 of the 2025 installations.

FORECAST FOR 2029

806k

Annual installations, IFR outlook.

The hardware for most factory jobs already exists. What limits adoption is getting it to work with the line, the safety system and the people around it.

CHAPTER I

II

THE QUIET MAJORITY

Most robots at work never go near a production line.

SERVICE ROBOTS, 2025

250k

Professional service robots shipped, up 24 per cent. IFR.

MOVING GOODS

117k

Transport and logistics robots sold in 2025. IFR.

ONE OPERATOR

1m

Robots in Amazon's network, July 2025, by Amazon's count.

RENTED, NOT BOUGHT

+42%

Growth in robot-as-a-service sales in 2024. IFR.



Illustration. A delivery robot on a hospital ward corridor at night.



Illustration. A legged inspection robot on a plant-room walkway.

Walk into a large distribution centre today and the robots are low and flat. They slide under shelving and carry it to the people who pick the orders. In July 2025 Amazon said it had deployed its one millionth robot, at a fulfilment centre in Japan, across a network of more than 300 sites. It also introduced DeepFleet, an AI model it says cuts its robots' travel time by 10 per cent. That figure is Amazon's own.

Amazon is unusual in scale, but the pattern is common. The IFR counted almost 250,000 professional service robots shipped in 2025, up 24 per cent, and about 117,000 of them were for transport and logistics. These robots move goods inside buildings, and the people buying them now ask about payback before anything else.

Cleaning, inspection and the hospital corridor

Professional cleaning robots grew 34 per cent in 2024 to more than 25,000 units. Medical robots, a category that includes surgical systems as well as hospital logistics, rose 91 per cent to close to 16,700. In hospitals the case comes down to staff time. A robot that carries linen, meals or samples between wards saves a nurse or a porter the walk.

Inspection is a smaller market and a growing one. Legged and tracked robots walk the rounds in plant rooms and substations, reading gauges and taking thermal images in places where people should not spend long.

Renting instead of buying

Robot-as-a-service sales grew 42 per cent in 2024, the IFR reported, though outright purchase is still the main route. A monthly fee that includes maintenance suits operators without an engineering team, and the same model has carried over to the first home humanoids.

The IFR's service figures come from a survey of 238 suppliers and are not projected to the whole industry, so the real totals are higher.

III

THE HUMANOID QUESTION

Forecasts for humanoids have moved faster than the evidence behind them.

Forecasts are steep and real deployments are few. Most of the evidence so far comes from the makers themselves.



Illustration. A humanoid robot carrying glassware through a restaurant kitchen.

About 7,000 humanoid robots were sold in 2025, according to the IFR, which counted them as a market of their own for the first time. In September 2026 Goldman Sachs raised its forecast for annual shipments in 2030 to 890,000 units, from 256,000, and put 2035 at about 6.5 million, according to coverage of its Physical AI research. The bank calls these figures a high-growth scenario.

Two things moved the outlook. AI models now let one robot learn many tasks from demonstration, where older robots needed every movement programmed by hand. And Chinese manufacturers began building humanoids in the thousands, which brought the hardware cost down.

What one plant showed

The most detailed public deployment so far ran at BMW's plant in Spartanburg, South Carolina. Figure AI's Figure 02 robots worked there for eleven months on ten-hour shifts, loading sheet-metal parts for the X3. Figure reports more than 90,000 parts loaded and a contribution to more than 30,000 vehicles. Assembly Magazine pointed out that cycle time, accuracy and intervention data were not released.

That is a fair summary of where humanoids stand: real work, in a real plant, reported mainly by the company that built the robot. The steeper forecasts will hold if fleet operators start publishing uptime and intervention data, and if prices for Western buyers come down.

Where they go first

Our view is that humanoids spread first in logistics and car plants. Those buildings were designed for people, and tasks such as moving totes and loading parts repeat all day. Retail and hospitality back-of-house come next, then homes. Care settings come last, because the bar for safety and trust is highest there. Schematics 2A and 2B, on pages 11 and 12, set out the forecast and this order.

Real work, in a real plant, reported mainly by the company that built the robot.

CHAPTER III

7,000 HUMANOIDS SOLD, 2025	**890k** FORECAST FOR 2030	**6.5m** FORECAST FOR 2035	**90k+** PARTS LOADED AT BMW

SOURCES: IFR; GOLDMAN SACHS, SEPTEMBER 2026, AS REPORTED BY HUMANOID GUIDE; FIGURE AI; ASSEMBLY MAGAZINE

DRAFT QUOTE, AWAITING APPROVAL

Circle8 was built on matching the right person to the right job. Robots make that question bigger. Someone still has to understand the work, choose the machine that fits and keep it running for years, and that is what Circle8 Robotics is for.

Guus Franke
Founder and CEO, Axiom Partners



Illustration. A field engineer calibrating a humanoid robot in a service workshop.

IV

COMING HOME

The first home humanoid costs about as much as a small car.

A home assessment before buying saves more money than any discount.

CHAPTER IV

PRICE OF NEO

$20k

Or $499 a month. 1X, October 2025.

AGED 60+, 2030

1.4bn

One person in six. WHO, October 2025.

The robotics company 1X opened orders for NEO, a humanoid designed for households, in October 2025, at $20,000 or $499 a month on subscription. It weighs about 30 kilograms. US deliveries are due in 2026, with other markets from 2027. For chores NEO has not yet learned, owners can book a remote operator from 1X to guide it, which means a person can see inside the home through the robot's cameras for that session.

That arrangement says a lot about where home robots are. The hardware can move safely around a house. The software is still learning the small judgements a household is made of, from where the colander lives to how to fold a fitted sheet. Remote operation fills the gap, and teaches the robot as it goes.

Why demand will hold

The World Health Organization expects 1.4 billion people to be aged 60 or over by 2030, one in six of the world's population, and 2.1 billion by 2050. Most older people want to stay in their own homes for as long as they can. Care is already short of people: Sixth Tone reported that China had about 320,000 carers for 8.1 million care-home residents.

A robot that fetches, carries and checks in will not replace a carer. It can take some of the routine off them, and that is where a good share of a carer's day goes.

What a household should ask

Which rooms can the robot enter, what can it record, when can a remote operator connect, and where is the data kept. Stairs, thick rugs, narrow halls and pets all change what a robot can do, so a home assessment before buying saves more money than any discount. Early on, a subscription that includes servicing moves the risk of a fast-ageing model to the supplier.



Illustration. A humanoid robot folding laundry at a kitchen island.



Illustration. A humanoid robot bringing tea to an older man at home.

V

A SCENARIO

An ordinary day in 2031.

Every role in this day is already being trialled or sold in 2026. What we expect to change by 2031 is how common they are.



Illustration. A humanoid robot bringing tea to an older man at home.

06:40 In a family kitchen, a household humanoid has emptied the dishwasher and put the laundry away overnight. It asks before it goes into the children's rooms, because that is how the family set it up.

08:15 On a hospital ward, a delivery robot takes blood samples to the lab and comes back with clean linen. The porter who used to make those trips now helps move patients.

10:30 In a distribution centre, mobile robots bring shelving to the pickers and two humanoids load totes onto the outbound line. The site runs robots from several makers through one control system.

11:30 At a car plant, humanoids load panels into fixtures between the welding cells. The line was built for people, and nobody had to rebuild it for the robots.

13:00 A legged robot walks the midday round in a district heating plant, reading gauges and taking thermal images. The engineer reviews the results from the office.

17:45 In a supermarket, a shelf-scanning robot flags gaps and pricing errors before the evening rush. Staff restock. A humanoid in the stockroom breaks down the delivery.

19:30 Across town, a robot reminds an 84-year-old woman to take her evening tablets, carries her tea through and sends her daughter a message to say all is well. A carer still visits twice a day.

22:00 Cleaning robots work the floors of an empty office block. One building manager supervises three sites from a laptop.

WHAT THE SCENARIO ASSUMES

That prices keep falling, that safety rules for robots working near people are settled, that remote operation gives way to real autonomy for routine tasks, and that service networks exist to keep robots running. Chapter VI takes each of those in turn.

VI

WHAT HAS TO GO RIGHT

Seven conditions decide the pace, and buyers can check every one.

None of the conditions that matter most is a technology breakthrough. They are rules, trust, service and money, and a buyer can ask about each of them before signing anything.

Rules

The EU Machinery Regulation applies from 20 January 2027. It replaces the 2006 Machinery Directive and brings autonomous mobile machines and AI-driven behaviour inside its scope. Standards for humanoids working beside people are still being written, so buyers in Europe should ask how equipment bought now will be treated under the new rules.

Privacy and security

Early home humanoids rely on remote operators who can see into the home, and workplace robots record video of staff and premises. A robot with cameras and a network connection also has to be secured like any other connected device. Written rules on rooms, recording, retention and access should come before the robot is switched on.

Reliability and cost

Public data on uptime and intervention rates is scarce, and the longest humanoid deployment so far did not publish its cycle-time results. Forecast volumes also assume steep price falls. Subscriptions spread the cost, but they can tie a buyer to one maker's fleet.

People and acceptance

Every robot needs someone to install, train and repair it, and engineers who can do that are scarce. Research on home-care robots reported by ScienceDaily found acceptance is still a barrier, especially among older people.

What to do now

Households should write down the jobs they want help with, have the home assessed and agree remote-access rules in writing. Businesses should map the process before looking at any robot, trial on their own floor with their own parts, budget for integration, and choose software that can run more than one maker. Most buyers do not need to be first. They need to understand the job, run a fair trial and keep their options open while prices fall.

That is the work Circle8 Robotics was set up to do: assess the job, compare the whole market, install and configure the robot that fits, and support it for as long as it runs.

THE SEVEN CONDITIONS

- R1 Safety rules near people
- R2 Privacy and remote operation
- R3 Reliability in real conditions
- R4 Cost and the business model
- R5 People to install and maintain
- R6 Public acceptance
- R7 Security of connected machines

EU Machinery Regulation applies from 20 January 2027. Ten supplier questions are listed in Schematic 4C on page 15.



Illustration. A collaborative robot arm lifting a machined part in a production cell.

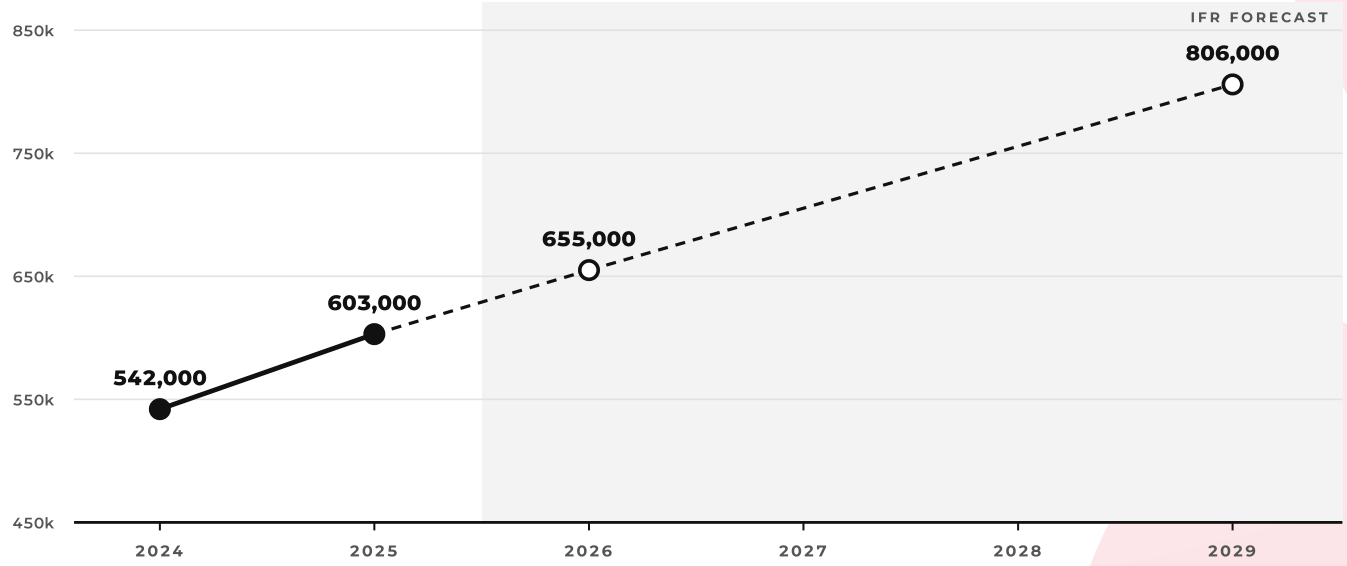
SCHEMATICS

The numbers behind the feature.

Six pages of charts and diagrams. Under each one, **What it shows** states the facts and **What it means** gives our reading of them.

SCHEMATIC 1A Industrial robots installed worldwide, per year

Filled: reported. Open: IFR forecast



WHERE THE 2024 INSTALLATIONS WENT. IFR WORLD ROBOTICS 2025



74% Asia **16%** Europe **9%** Americas

WHAT IT SHOWS

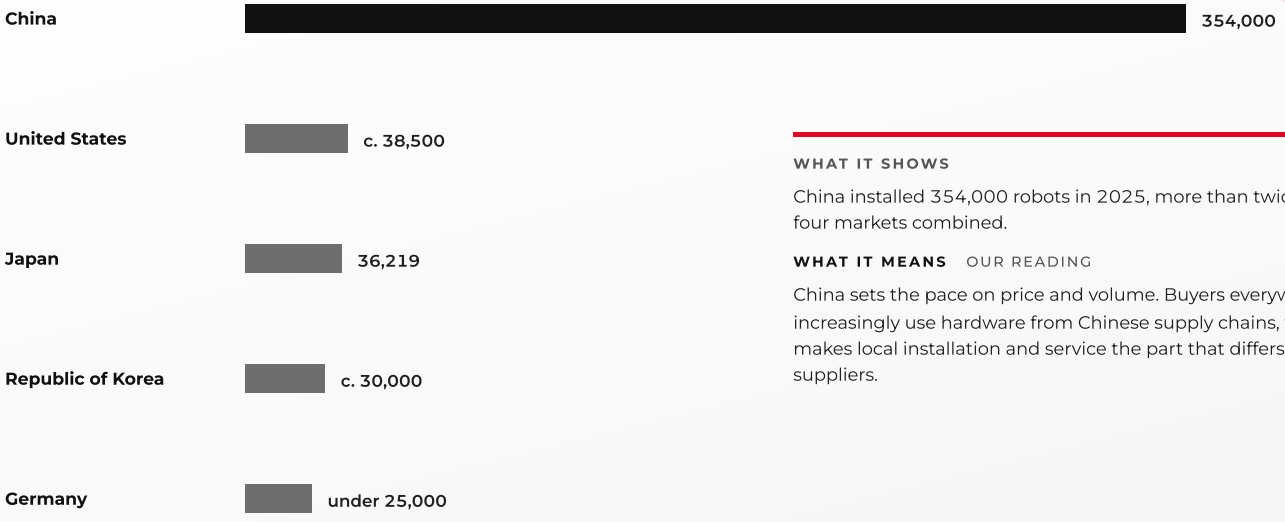
Installations rose from 542,000 in 2024 to 603,000 in 2025, and the IFR expects more than 800,000 a year by 2029.

WHAT IT MEANS OUR READING

Factory automation is still growing at around 9 to 11 per cent a year. That volume keeps bringing down the cost of the parts every robot uses, at home as well as at work.

SCHEMATIC 1B Installations by country, 2025

China took 59 per cent of the world total



WHAT IT SHOWS

China installed 354,000 robots in 2025, more than twice the next four markets combined.

WHAT IT MEANS OUR READING

China sets the pace on price and volume. Buyers everywhere will increasingly use hardware from Chinese supply chains, which makes local installation and service the part that differs between suppliers.

SOURCE: IFR WORLD ROBOTICS 2025 AND 2026. 2026 AND 2029 ARE IFR FORECASTS

SCHEMATIC 1C Professional service robots sold

IFR survey of 238 suppliers, not projected to the whole industry

All professional service robots



Transport and logistics



What it shows. Professional service robot sales grew about 24 per cent in a year. Transport and logistics makes up close to half of them. **Our reading.** Moving goods inside buildings is the most proven job for robots outside the factory, and the lowest-risk place for an organisation to start.

SCHEMATIC 1D Europe in 2024: installations by market

IFR World Robotics 2025

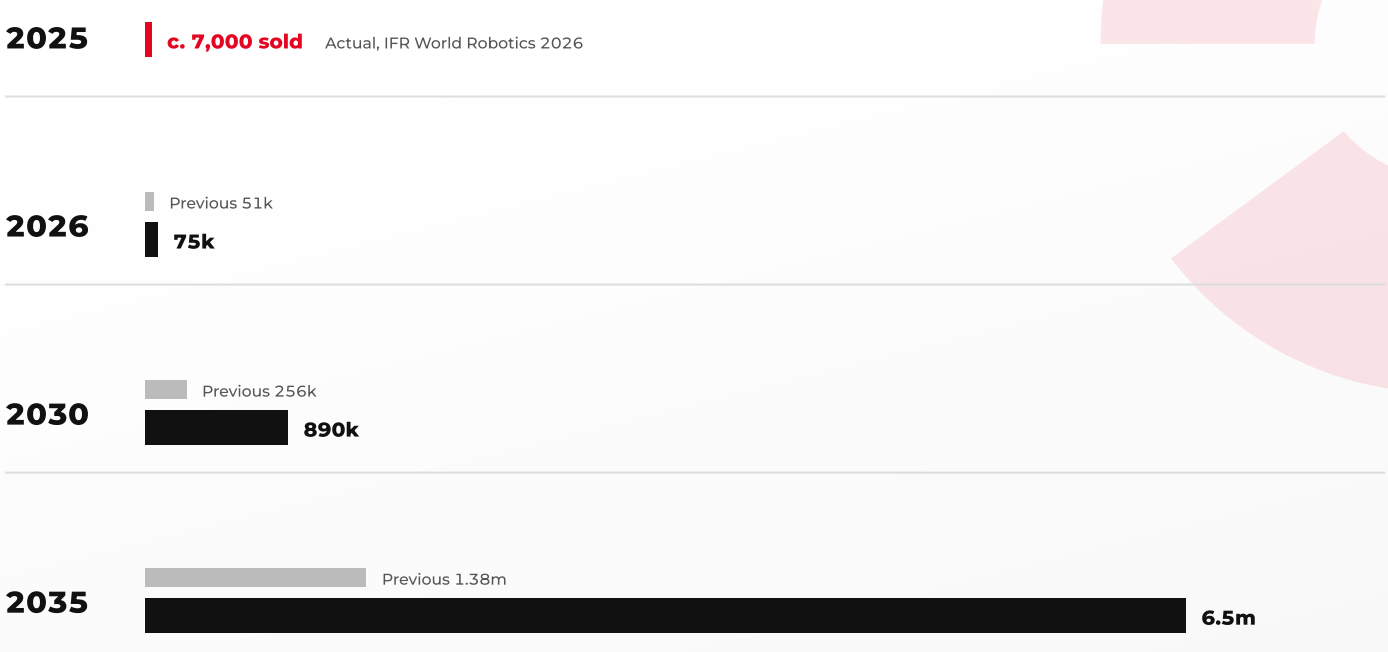
EUROPEAN UNION	GERMANY	ITALY	SPAIN	FRANCE	UNITED KINGDOM
67,800	26,982	8,783	5,100	4,900	2,500

Europe as a whole installed 85,000 robots in 2024, down 8 per cent: 16 per cent of the world total, against 74 per cent for Asia and 9 per cent for the Americas.

What it shows. Germany accounts for about four in ten EU installations. France and the UK installed far fewer robots than their size would suggest. **Our reading.** Much of Europe is under-automated for the labour shortages it reports. Growth there should follow as costs fall and the 2027 EU rules settle.

SCHEMATIC 2A Humanoid shipments forecast by Goldman Sachs, units a year

Previous and revised estimates, as reported



For scale: the IFR counted about 7,000 humanoids sold in 2025. Goldman Sachs puts the 2035 market at about $138 billion and calls the figures a high-growth scenario. We have not seen the full report.

WHAT IT SHOWS

Goldman Sachs more than tripled its 2030 forecast and raised 2035 almost fivefold. Actual sales in 2025 were about 7,000 units.

WHAT IT MEANS OUR READING

Treat forecasts as scenarios. It is reasonable to plan for humanoids at work within the decade, but buying decisions should rest on a trial in your own building.

SCHEMATIC 2B Where humanoids go first

Circle8 Robotics view, not a forecast

SOONER → LATER

1. **Logistics and car plants** — Totes, kitting and part loading
2. **Retail and hospitality** — Back-of-house carrying and restocking
3. **Inspection and security** — Rounds where wheels cannot go
4. **Homes** — Narrow chores, sold on subscription
5. **Care settings** — Highest bar for safety and trust

WHAT IT SHOWS

The order in which we expect humanoids to be adopted, from logistics and car plants through to care settings.

WHAT IT MEANS OUR READING

Warehouses and plants can start humanoid trials now. Homes and care settings should plan for later, and start with narrow, well-defined tasks.

SCHEMATIC 2C Signals that would confirm the steeper forecast

Circle8 Robotics

SIGNAL	WHAT WE WOULD WANT TO SEE
Published reliability data	Uptime and intervention rates from fleets of 50 or more humanoids, released by the operator.
The IFR humanoid count for 2026	A clear step up from about 7,000 units, due in the World Robotics 2027 edition.
Prices outside China	Full-size humanoids offered to Western buyers with service included at well under today's levels.
Remote help falling away	Home robots completing everyday chores without a remote operator for most of the week.

What it shows. Four public signals that would show the steeper forecasts are coming true. **Our reading.** These are more useful to watch than announcements. Each one can be checked against a published source.

SCHEMATIC 2D The BMW deployment in four figures

Figure AI; Assembly Magazine

DEPLOYMENT

11 mo

Figure 02 at BMW Spartanburg, on ten-hour shifts.

PARTS LOADED

90k+

Sheet-metal parts for the X3.

VEHICLES

30k+

That the robots contributed to, by Figure's account.

PUBLISHED

None

Cycle time, accuracy and intervention data, per Assembly Magazine.

WHAT IT SHOWS

The longest public humanoid deployment in four figures, including the data that was not released.

WHAT IT MEANS OUR READING

Ask any supplier for uptime and intervention data from a real site. Its absence here is the gap the market still has to close.

SCHEMATIC 2E What moved the humanoid forecasts

Drawn from Chapter III

AI models that learn from demonstration

One robot can now pick up many tasks from examples. Older robots needed every movement programmed by hand, one task at a time.

Production in the thousands

Makers in China began building humanoids in volume, using the same motors, gearboxes and sensors as industrial robots. That brought the hardware cost down.

Price and capability moving together

When a robot gets cheaper and more capable in the same year, more jobs pass the payback test at once. That is what makes the forecast curves steepen.

WHAT IT SHOWS

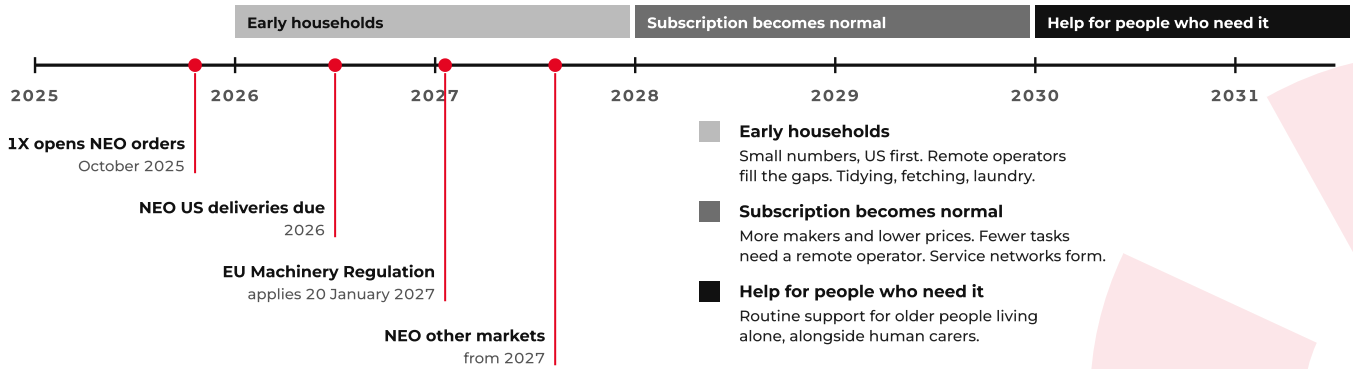
The three changes behind the higher humanoid forecasts, as set out in Chapter III.

WHAT IT MEANS OUR READING

None of the three is guaranteed to continue at the same pace. If one stalls, expect the forecasts to be revised down as quickly as they went up.

SCHEMATIC 3A How home robots arrive, 2026 to 2031

Dated events: sourced. Phases: Circle8 Robotics view



What it shows. The dated events behind the first home humanoids, and the three phases we expect to follow. **Our reading.** 2026 and 2027 are for early adopters. Most households will be better served by waiting for subscriptions and local service networks, around 2028 to 2029.

SCHEMATIC 3B Household tasks: our expectation of readiness

Circle8 Robotics view, November 2026

	2026	2028	2031	WHAT HAS TO IMPROVE
Fetching and carrying	●	●	●	Stairs, clutter and pets
Tidying and putting away	◑	●	●	Knowing where things belong in each home
Laundry and folding	◑	●	●	Speed, and unfamiliar fabrics
Loading the dishwasher	◑	●	●	Grip on wet and fragile items
Check-ins for someone living alone	◑	●	●	Fall detection and clear escalation to people
Cooking	○	◑	●	Heat, knives and food safety
Personal care	○	○	◑	Safety certification and trust

○ Not yet ◑ With remote help ● Mostly unaided ● Routine

WHAT IT SHOWS

Our view of when common household tasks become routine for a home robot, and what has to improve first.

WHAT IT MEANS OUR READING

Buy for tasks that are close to routine. Anything still marked not yet should play no part in a purchase decision today.

SCHEMATIC 3D The first home humanoid at a glance

1X via The Robot Report

NEO PRICE

$20k

Early access, with priority 2026 delivery.

SUBSCRIPTION

$499

A month, as an alternative to buying outright.

FIRST DELIVERIES

2026

United States first, buyers before subscribers.

OTHER MARKETS

2027

As announced by 1X in October 2025.

WHAT IT SHOWS

The first home humanoid on sale: its price, the subscription alternative and when it arrives.

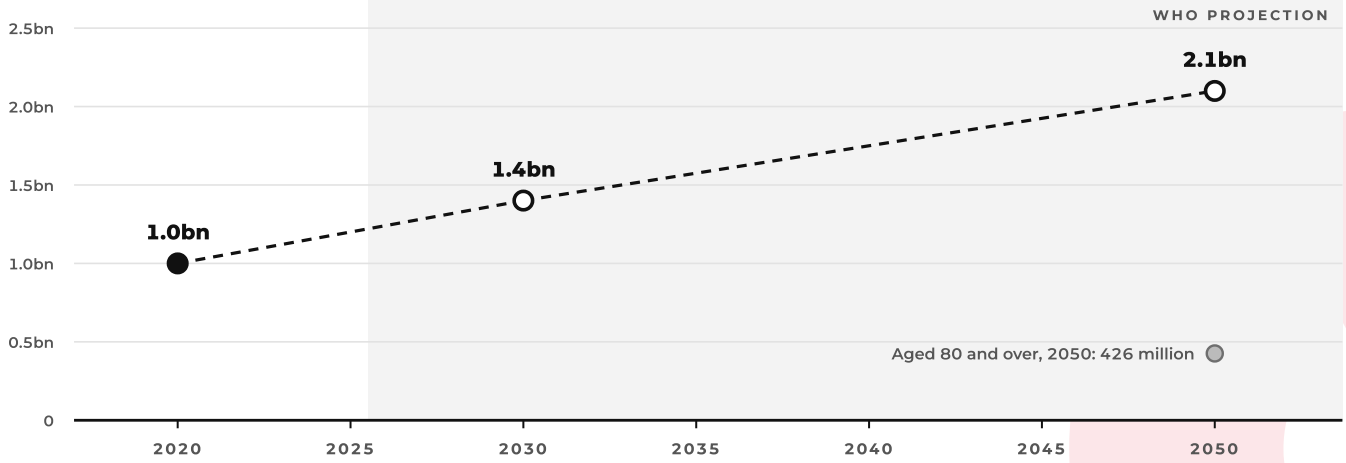
WHAT IT MEANS OUR READING

With models improving quickly, a subscription that includes servicing is the sensible route for most households.

SCHEMATIC 3C

People aged 60 and over, worldwide

World Health Organization, October 2025. Open points are projections



WHAT IT SHOWS

The number of people aged 60 and over rises by about 400 million between 2020 and 2030, and more than doubles by 2050.

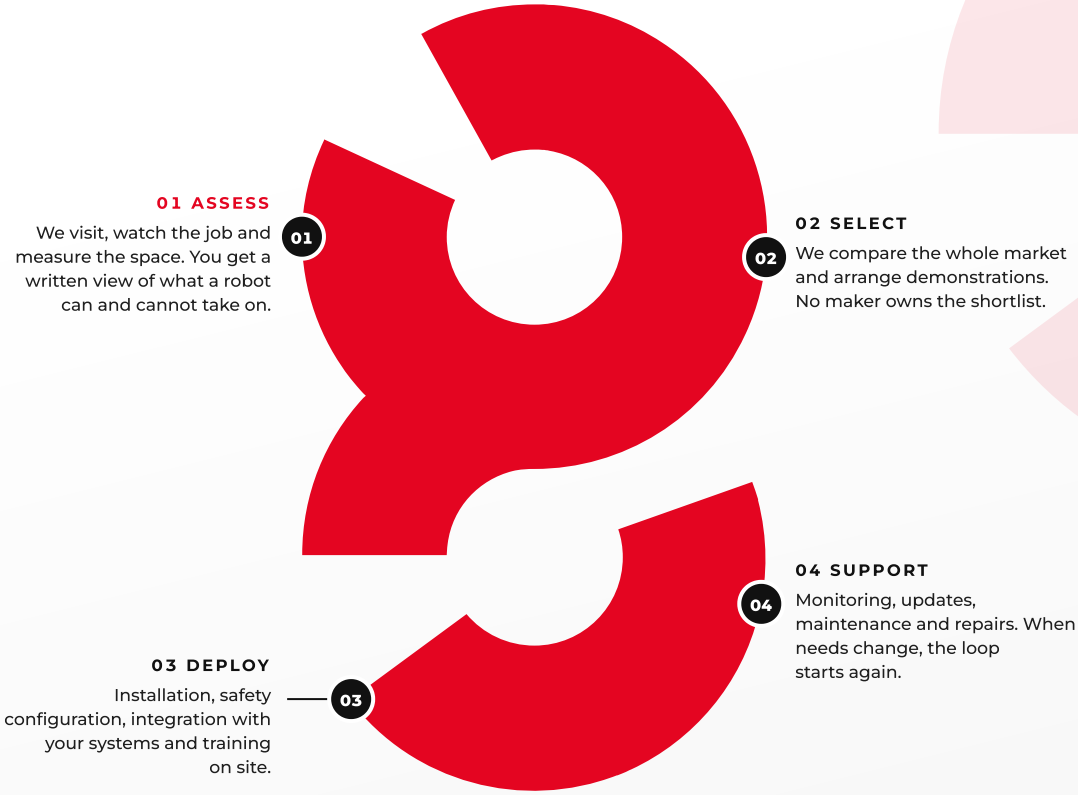
WHAT IT MEANS OUR READING

Demand for help at home grows steadily whatever happens to technology cycles. That is why we treat home robotics as a long-term market.

SCHEMATIC 4A

The service loop

How Circle8 Robotics works, for homes and for businesses



WHAT IT SHOWS

How Circle8 Robotics works: one loop of four stages, repeated as needs change.

WHAT IT MEANS OUR READING

The robot is one part of the decision. The assessment before it and the support after it matter as much.

SCHEMATIC 4F The loop in practice

Circle8 Robotics

For a household

ASSESS	A home visit: rooms, stairs, storage and the jobs you want help with.
SELECT	Two or three suitable humanoids, with what each does well and where it falls short.
DEPLOY	Delivery, mapping the home, privacy rules agreed, and a walk-through for everyone.
SUPPORT	Updates, remote checks and repairs, with one number to call.

For a business

ASSESS	A site survey: the process, cycle times, space and safety case.
SELECT	A shortlist across makers, then a trial on your own floor.
DEPLOY	Integration with your systems, safety sign-off and operator training.
SUPPORT	Monitoring, maintenance and repairs to an agreed service level.

SCHEMATIC 4B The seven conditions from Chapter VI, by when we expect them to be settled

Circle8 Robotics view

LIKELY SETTLED BY 2028

R1 Safety rules near people
EU Machinery Regulation applies from January 2027.

R2 Privacy and remote operation
Written rules on rooms, recording and access.

R7 Security of connected machines
Updates and access control, as for any device.

LIKELY SETTLED BY 2031

R3 Reliability in real conditions
Needs uptime data from large fleets.

R4 Cost and the business model
Needs prices to keep falling outside China.

STILL OPEN IN 2031

R5 People to install and maintain
Engineers who integrate and repair are scarce.

R6 Public acceptance
Trust, above all among older people.

What it shows. When we expect each of the seven conditions from Chapter VI to be settled. **Our reading.** Rules and privacy settle first. Reliability and cost need data from real fleets. People and public trust take longest.

SCHEMATIC 4C Ten questions for any robot supplier

- Which of my tasks has this robot done before, and where?
- What happens when it fails mid-task, and who is told?
- How often will a remote operator connect, and what can they see?
- What uptime will you commit to in the contract?
- Who holds the access keys, and how are updates delivered?
- Where is the nearest engineer, and how fast can they reach us?
- How is this equipment treated under the EU rules from 2027?
- What does it cost over five years, including service?
- How do we leave the contract, and what happens to our data?
- Can we see results from a customer who has run it for a year?

WHAT IT MEANS OUR READING

Use these in any purchase or tender conversation. A supplier who cannot answer them is a risk in itself.

SCHEMATIC 4D What a home subscription should include

- A home visit before delivery, and setup by a person
- Software updates for the life of the contract
- Repairs, and a replacement if the robot is off for days
- Written rules on remote access, recording and data
- A clear exit, and what happens to your data
- An honest list of tasks that still need remote help

WHAT IT MEANS OUR READING

If a subscription leaves any of these out, ask why before signing.

SCHEMATIC 4E When to act

Circle8 Robotics view

NOW

Businesses with a clear repetitive task: trial cobots and mobile robots, which are proven. Households: assess the home and the jobs.

2027 TO 2028

Humanoid trials at work under the new EU rules. Early home subscriptions for households comfortable with remote help.

2029 TO 2031

Fleets of humanoids where trials paid back. Home robots for wider use, including support for older relatives.

SOURCES AND METHOD

Where every figure comes from.

We used primary publications wherever we could reach them. Where a figure comes from a report we have not read in full, the text says so and names the coverage.

	PUBLISHER	WHAT WE USED	WHERE
01	International Federation of Robotics	World Robotics 2025 press release, 25 September 2025: 2024 installations, stock, regional and country figures.	ifr.org
02	International Federation of Robotics	Five Million Robots now Operate in Factories Globally, 24 September 2026: 2025 installations, country figures, forecast to 2029.	ifr.org
03	International Federation of Robotics	Service robot releases, October 2025 and 30 September 2026: service, logistics, cleaning, medical, robot-as-a-service, humanoids.	ifr.org
04	Humanoid Guide	Goldman raises 2035 humanoid robot forecast to 6.5 million, September 2026: previous and revised estimates, market value.	humanoid.guide
05	World Health Organization	Ageing and health fact sheet, 1 October 2025: population aged 60 and over in 2020, 2030 and 2050.	who.int
06	The Robot Report	1X announces pre-order launch of NEO humanoid robot, 30 October 2025: price, subscription, delivery, teleoperation, weight.	therobotreport.com
07	Figure AI	F.02 contributed to the production of 30,000 cars at BMW: deployment length, shifts, parts loaded.	figure.ai
08	Assembly Magazine	Humanoid robots complete trial project at BMW assembly plant: note on unpublished performance data.	assemblymag.com
09	AI Business	Amazon launches new AI model, deploys 1 millionth robot, July 2025: fleet size, sites, travel-time claim, as announced by Amazon.	aibusiness.com
10	EU-OSHA	Regulation (EU) 2023/1230 on machinery: date of application, scope including autonomous mobile machinery and AI.	osha.europa.eu
11	Sixth Tone	China's solution for a growing senior care crisis: carers and care-home residents.	sixthtone.com
12	ScienceDaily	Empowering older adults with home-care robots, December 2024: acceptance as a barrier.	sciencedaily.com

METHOD

How to read this issue

EDITIONS	The IFR advises against joining figures from different editions into one series. We show them side by side and say which is which.
FORECASTS	Forecasts are other organisations' scenarios. We quote them and do not add our own numbers.
OUR VIEWS	The adoption order, phases, task readiness, conditions map and the 2031 scenario are Circle8 Robotics judgement, labelled on the page.
THE QUOTE	The Guus Franke quote on page 06 is a draft prepared for his approval. It is marked as such and will not be published until he confirms it.
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CORRECTIONS	If you find an error, tell us through the contact page on our website and we will correct the next edition.



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The right robot, kept running.

We source, install and look after humanoid and industrial robots for homes and businesses, from any manufacturer, with one team from the first conversation to every service visit after it.

ASSESS

We look at how the job is done today before recommending anything.

SELECT

We compare the whole market. No maker owns our shortlist.

DEPLOY

Installation, safety set-up, integration and training on site.

SUPPORT

Updates, maintenance and repairs for as long as the robot runs.

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