

The Human Advantage in an Automated Age

Introduction: Automation and the “Meaning Economy”

Waves of **AI and robotics** are automating tasks across industries, yet many jobs will likely remain in human hands – not due to technical impossibility, but because of human **preference**. Even when machines become cheaper, safer, or more efficient, people often value the *human touch* for reasons beyond raw productivity. Economists and futurists have begun describing a coming “**Meaning Economy**” – an era when, as AI fulfills more material needs, human work shifts toward providing meaning, empathy, creativity, and connection ¹ ². In this framework, human labor isn’t eliminated; it is *elevated* to roles where authenticity, emotional nuance, and social trust are paramount. This report examines which jobs are likely to remain human-driven across three horizons – today’s trends, the next decade, and 20+ years out – through a demand-side lens: **Where do people actively prefer a human, even if a robot or AI could do the job?** We draw on empirical data, cultural comparisons, historical analogues, and forward-looking analysis to explore this “sentimental economy” of work.

Why Humans Sometimes Prefer Humans

Not every task is judged on efficiency alone. Often, **humans actively seek human interaction** even when automation exists, due to several key factors:

- **Emotional Intelligence and Empathy:** People facing illness, stress, or major decisions often want the **emotional support** and understanding of a human. For example, a medical patient may feel that *“an element of human touch or compassion... can never be replicated by a robot”* ³. Jobs like therapy, counseling, and nursing rely on empathy that users are reluctant to surrender to machines. A 2023 Pew survey found 79% of Americans would *not* want an AI chatbot as their mental health counselor ⁴ – a strong vote for human empathy over AI logic.
- **Trust and Accountability:** In high-stakes situations, people tend to trust human judgment and **accountability**. We want a person at the helm when safety is on the line – for instance, knowing a **pilot** or **surgeon** is ultimately responsible, even if autopilot or AI assistance is available. Surveys confirm this trust gap. In healthcare, *60% of Americans would feel uncomfortable* if their own provider heavily relied on AI for diagnosis or treatment ⁵. Likewise, given a hypothetical choice, people **prefer a human doctor** over an AI system alone – and even prefer a human doctor *augmented* by AI over an AI-only approach ⁶. This suggests that while people appreciate AI’s accuracy, they still want a human in the loop for accountability and trust.
- **Creativity and Authenticity:** In fields of art, performance, and creativity, the **human element** often carries a premium. Audiences often ascribe special value to creations forged by human hands or voices, seeing them as expressions of genuine experience. A painting, song, or piece of writing can feel more meaningful when one knows *a real person* created it, with intent and soul. This dynamic persists even when technology could substitute. For example, live concerts not only survived the

invention of the phonograph – they thrived. (As early as 1906, John Philip Sousa warned that the phonograph would “*end amateur singing... and put professional musicians out of work*”, lamenting that “*something is irretrievably lost when we are no longer in the presence of bodies making music*” ⁷ . In reality, people continued to crave live performance; global live music revenues reached **\$33 billion in 2023**, a 25% surge as in-person concerts roared back despite ubiquitous recorded music ⁸ .) The ongoing appeal of theatre in the age of film, or vinyl records in the age of digital streaming, likewise shows that *authentic, human-performed experiences* can resist and even flourish alongside automation.

- **Social Connection and Symbolism:** Many roles carry **social or symbolic significance** that people are loath to relinquish to machines. We often prefer human **faces and personalities** to identify with – whether electing a leader, cheering an athlete, or following an influencer. For instance, voters expect their **politicians** to be flesh-and-blood humans who can understand constituents’ lived experiences (even if we joke about robotic speeches). Sports fans idolize human athletes, not hypothetical robots with superior skills – the very *fallibility* and **struggle** of human players is central to sports’ drama. In spiritual life, congregants seek guidance from human clergy (priests, rabbis, imams) who can share in their joys and sorrows. A “robot priest” might recite liturgy correctly, but as one observer quipped, it would be a “*device without a soul.*” (In fact, when China’s state news agency debuted an AI news anchor, Chinese netizens derided it as “*a news-reading device without a soul*”, showing how a human presenter’s perceived authenticity still matters in media ⁹ .)
- **Unpredictability and Personalization:** Humans excel at handling novel situations, nuanced context, and “**reading the room.**” In customer-facing roles, a human can interpret tone, adapt on the fly, or break the rules tactfully to solve a problem – qualities that scripted bots struggle with. Many customers know this from frustrating encounters with automated phone systems or chatbots. (The *No.1 complaint* in customer service surveys is the difficulty of reaching a real person ¹⁰ .) A 2024 study found **75% of consumers prefer talking to a human** for customer support, with widespread distrust of AI responses ¹¹ ¹² . In essence, people value the **flexibility and common sense** that human workers bring, especially when needs don’t fit a standard script.

These factors create a “*sentimental economy*” for human-provided services – a marketplace where **meaning, trust, and experience** are the selling points that automation can’t easily replicate. Below, we explore how this plays out in different time horizons, and which jobs are likely to remain in human hands for these reasons.

Historical Parallels: Technology vs. Human Experience

History offers analogies for the balance between **automation and human preference**. Over a century ago, the spread of recorded music and player pianos prompted fears that live musicians would become obsolete ⁷ . It’s true that technology transformed the music industry – people listen to recordings far more than attending concerts regularly. But rather than disappearing, **live performance evolved and even expanded** in new forms. Large-scale concerts, music festivals, and touring industries blossomed in the 20th and 21st centuries. Even as digital music became ubiquitous, fans showed willingness to pay for the *experience* of seeing a favorite artist in person. Live music became a cornerstone of artist income as record sales fell, and by 2023 global live event revenues hit record highs ⁸ . The enduring draw is the unique atmosphere and connection of a live show – as Sousa noted, “*the nightingale’s song is delightful because the nightingale herself gives it forth.*” ⁷

Similarly, the advent of cinema did not kill **theatre or stage acting**. Movies offered convenience and spectacle, yet live theatre retained a distinct appeal – intimate, unedited, and interactive. Today, Broadway and other theatre scenes thrive as premium experiences. Photography did not extinguish **painting**; instead, painting shifted toward new expressive purposes (since cameras handled literal portraits). And when automobiles replaced horses for transportation, **horses** weren't rendered entirely valueless – they found new life in recreation, sport, and luxury contexts. These analogues suggest that when a technology makes one aspect of a human skill obsolete, human labor often migrates to **higher-end or experience-focused versions** of that skill. We can expect many jobs to follow this pattern: *routine functions automated, but human-delivered versions continuing as value-added, meaningful experiences* – perhaps even at a premium.

Current Trends (2025): Jobs Still Dominated by Humans – and Why

As of today, automation and AI have made inroads in many areas, yet **numerous occupations remain fundamentally human-driven**. Importantly, many such roles persist not simply due to technical lags, but because **customers, patients, or society demand human involvement**. Below are key domains where human labor is still the norm and widely preferred:

Healthcare and Personal Care

Healthcare illustrates the high value placed on human judgment and compassion. While AI algorithms now assist in reading medical images or suggesting diagnoses, **patients still overwhelmingly want a human in charge of their care**. A recent Pew survey (2022) found *60% of Americans would be uncomfortable* with their healthcare provider relying heavily on AI for their own treatment ⁵. Trust in human doctors remains higher – a 2024 experiment in German-speaking countries showed people prefer a *human doctor* over an AI-only system by a wide margin ⁶. Even in fields like psychiatry, where chatbots have made surprising strides, people tend to feel that a human therapist's empathy is irreplaceable. In fact, about **79%** of U.S. adults say they *wouldn't* want an AI chatbot as their mental health counselor ⁴, and nearly half believe such tools should be tightly limited or not used at all without a human therapist involved ¹³.

These attitudes align with labor market trends. **Jobs requiring direct human care and social interaction are among the fastest-growing**. For example, the U.S. Bureau of Labor Statistics projects **21% growth** this decade in home health *and* personal care aide positions ¹⁴. Demand for nurses, nursing assistants, and elder caregivers is rising due to aging populations – and despite efforts to develop robotic caregivers, families and patients often prefer human aides for their **compassion and personal attention**. (In one U.S. survey, 59% said they *would not* want a robot caregiver for an elderly family member, with the majority citing loss of human “*touch or compassion*” as the reason ³.)

This is not merely a U.S. phenomenon. Countries like Japan – at the forefront of both aging demographics and robotics – have invested heavily in care robots for elders. Yet even there, adoption has been slow. The Japanese government estimates an additional **250,000 human caregivers** will be needed by 2026 to meet elder care needs ¹⁵ ¹⁶. Robotic assistants (from humanoid “nurse” robots to pet-like therapy bots) are being trialed, but many highly touted care robots have *failed commercially* because they couldn't adequately meet patients' needs or gain social acceptance ¹⁷. Studies confirm that older adults' **acceptance of care robots remains low** in practice ¹⁸. In the meantime, human home-care workers, hospice staff, and personal nurses continue to be in high demand – because their **human empathy, adaptability, and trustworthiness** are essential for vulnerable patients.

Education and Coaching

Education is another sector where technology has arrived – online learning platforms, AI tutoring programs, and robo-graders – yet **human teachers and coaches** remain central. The pandemic-era experiment of all-digital schooling reinforced for many parents and students the value of in-person human educators. Teachers do far more than convey information; they inspire, mentor, and respond to the emotional and social needs of students. While an AI tutor can drill math problems efficiently, it takes a human teacher to notice if a child is anxious or to mediate a class discussion on a sensitive topic. Thus, despite the growth of EdTech, surveys indicate both students and parents still prefer a **human teacher's guidance** for most learning, especially in younger grades (where childcare and social development are intertwined with instruction). In higher education and professional training, AI can augment learning (e.g. language practice chatbots or personalized study plans), but **human coaches, tutors, and mentors** are sought for their ability to give nuanced feedback and encouragement that feels genuine.

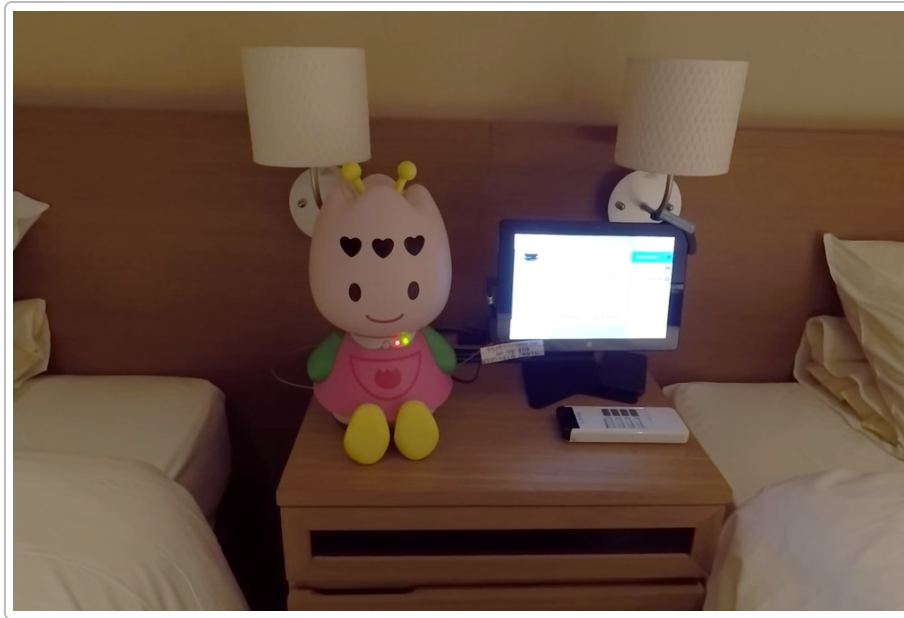
The same logic applies to **life coaching, personal training, and similar roles**. One can download a fitness app or even an AI-driven workout coach – yet many people pay for human personal trainers or sports coaches. The human coach provides not just a generic regimen, but *accountability*, morale boosts, and a sense that someone genuinely cares about your progress. Those motivational and relational aspects help explain why these roles are not vanishing. In mental health and life coaching, **blended models** are emerging (for example, an AI chatbot as a supplemental tool between sessions with a human therapist). But most clients still see the **human expert** as the cornerstone of the process, with AI as a supplement. In a 2024 YouGov poll, only **34% of Americans** said they'd feel comfortable sharing mental health concerns with an AI instead of a human therapist, and comfort skews strongly by age – a majority of young adults were open to it, but **73% of seniors (65+) were uncomfortable** with that idea ¹⁹ ²⁰. For now, the *trusted human counselor* remains the default.

Hospitality, Service, and Sales

Everyday service interactions – from restaurants and hotels to retail sales – reveal a mix of automation and enduring human roles. Self-checkout kiosks and automated ticket machines have become common, yet **customer service agents, cashiers, and salespeople** are still widely employed. One reason is that customers often prefer dealing with a person when they have a problem or a special request. **Automated phone menus** and chatbots are notorious pain points; in a recent customer experience survey, 56% of consumers said AI chatbots often *frustrate* them, and nearly half *don't trust the information* such bots provide ¹². By contrast, **speaking with a human agent** – even if it takes longer – yields higher satisfaction for complex issues. Another survey found roughly 70–75% of consumers overall prefer a human customer service representative over AI ¹¹. Companies have noticed: some advertise “*real humans*” answering their support lines as a selling point in an AI-filled world.

In **hospitality**, experiments with automation have had mixed results. Hotels have tested robot concierges and receptionists; restaurants have toyed with robot servers. These can handle routine tasks (delivering towels, or shuttling food from kitchen to table), but the *personalized touch* of human workers often proves important for guest comfort. A famous case is Japan's “Henn-na Hotel,” which opened with an almost all-robot staff as a showcase of the future. Within a few years, the hotel had to “**fire**” over half its **243 robots** and rehire human staff because the robots kept failing to meet guest needs and created more work for the remaining people ²¹ ²². The cute robot room assistant couldn't answer basic questions, automated luggage carriers got stuck, and a dinosaur-shaped check-in robot still needed humans to photocopy

passports ²³ ²² . The hotel concluded that *fully* automated hospitality was actually less efficient and less pleasant – as one report noted, “*we’re still a little ways off from a completely automated hotel.*” ²⁴ Guests missed the nuance and problem-solving that human workers provide.



Robot room assistant “Churi” at Japan’s Henn-na Hotel. The hotel found that many such robots created more problems than they solved, leading management to reinstate human staff for better service ²¹ ²² .

Likewise, airlines have introduced automated kiosks and even experimented with robotic gate agents, but **human flight attendants and gate staff** are still considered essential. Beyond their safety roles, flight attendants provide empathy and reassurance – calming anxious flyers, handling medical events, or just greeting passengers with a smile. Those human elements shape the customer experience in ways a robot (or an AI voice) would struggle to replicate. In retail, self-service checkouts work fine for simple purchases, but when a customer is confused or a transaction errors out, a human floor assistant is invaluable. Human sales associates also add value through personalized advice, building rapport, and conveying brand culture – things a vending machine can’t do. All of this explains why, even as automation spreads, **service-sector employment remains robust** in roles that engage directly with customers. Cashiers and counter workers are still among the largest occupations in many countries, and while their job descriptions evolve (more use of tablets, etc.), the fundamental **human-to-human interaction** is still often what customers want, especially for high-consideration purchases or hospitality experiences.

Arts, Entertainment and Content Creation

Automation in creative fields has made headlines – AI algorithms can now compose music, write news articles, or generate artwork on the fly. Yet the **cultural weight and audience demand for human creators** remains strong in many areas. Consider **actors and performers**: digital avatars and CGI can simulate humans on screen, but moviegoers still flock to see *particular stars* for their charisma and craft. Deepfake technology can resurrect the image of a long-dead actor, but studios have encountered public backlash at the idea of “cast members” who aren’t actually alive – it feels disrespectful and inauthentic to many viewers. Live theatre and concerts highlight the unique value of a *live human performance*, where each

show is one-of-a-kind and the performer's own energy and risk make it special. Even in cinema, fans often follow the off-screen lives and personalities of actors, suggesting they value them as **real people**, not interchangeable simulations.

In music, AI-generated songs can mimic styles of famous artists. These might be curiosities or even hits in the background music realm, but **music fans often seek a human connection** to the artist. That's why live concerts, meet-and-greets, and social media interactions with real musicians are so popular. Listeners frequently report that knowing a song was written from someone's real life experiences gives it deeper meaning than a mathematically perfect AI composition. We may see a bifurcation: plenty of generic content (jingles, filler instrumentals, formulaic pop) could be AI-made, but a *premium on human-authored content* for those who crave authenticity. This is already evident in trends like the resurgence of handmade crafts, analog photography, and other "authentic" arts in niche markets – a reaction against the uniformity of mass production.

Even new phenomena like **social media influencers** reflect the demand for human personality. Interestingly, there are now *virtual influencers* – entirely AI or animated personas with sizable followings. Some younger consumers do follow these virtual figures for entertainment. However, surveys show that many people still prize **authenticity** in influencers: they want to know there's a real person behind the camera living that life or sharing those opinions. (A 2022 study found that while over half of U.S. social media users had seen or followed a virtual influencer, many raised questions about authenticity and trust ²⁵ ²⁶.) Human influencers offer relatability – they can interact in spontaneous ways, admit mistakes, and build *parasocial relationships* with followers that feel genuine. Brands, too, often prefer human spokespeople because a real person can forge a more credible emotional bond with an audience. Thus, while virtual/AI influencers are rising, it's likely that **human influencers and creators will continue to thrive**, especially in segments where their personal story and engagement are the selling point.

Leadership and High-Trust Public Roles

Roles that carry public trust, moral authority, or community representation have so far remained exclusively human. We do not (yet) elect **AI politicians** or appoint robot judges. Society expects that those who make and interpret laws have lived as humans and can empathize with the human condition. There's also accountability – a politician can be praised or blamed, a judge can justify a ruling in moral terms, in ways that we cannot ascribe to an algorithm without raising legitimacy issues. Even if an AI could, in theory, make "more rational" policy decisions or unbiased legal judgments, **citizens may resist ceding such power to a machine**. Part of this is symbolic: we want leaders to *symbolize our collective human will*. Indeed, much of a political leader's job is performative and communicative – connecting with people, earning trust, giving voice to hopes and fears. Those fundamentally human skills would be hard to automate in a satisfying way. It's telling that when people are asked about automation, many imagine *administrative or technical tasks* being handed to AI, but few would be comfortable with, say, an AI president or an AI religious leader. In one study of religion and AI, most congregants were "*not ready to hear sermons from robot preachers*" and prefer human clergy for spiritual counseling ²⁷. Religious roles especially carry a need for human presence; faith communities often see the **act of human-to-human care** as sacred in itself (a robot priest might be viewed as a mere appliance, lacking the *imago dei* or spiritual authority bestowed by human ordination).

All of these current trends point to a common theme: **when jobs involve human connection, trust, and understanding, people still default to humans**. Automation is making strides in background tasks (e.g. data analysis, logistics routing) and even some front-line routine service (kiosks, etc.), but *the core roles that*

revolve around interpersonal skills remain largely human. As a result, many of the fastest-growing or most resilient occupations today are those that leverage uniquely human strengths – from **nurses, caregivers, and therapists** to **teachers, social workers, hairstylists, and hospitality staff**. These are roles where the “product” is not just a service, but a **human experience**.

Near-Term Horizon (~10 Years): What Will Change by 2035?

Looking a decade ahead, AI and robotics will undoubtedly become more capable and prevalent. By 2035, we can expect self-driving vehicles to be far more common, AI assistants to be deeply integrated in workplaces, and robots to perform more physical tasks in warehouses, hospitals, and homes. However, the **demand-side preferences for human interaction** described above are likely to **persist in many domains – albeit with some evolution**.

In the near term, a key factor will be **generational change**. Younger people who grow up with AI may be more comfortable interacting with bots and automated services. We already see this: in the therapy example, 18–29 year-olds were *twice as likely* as seniors to feel comfortable with an AI mental health chatbot ¹⁹ ²⁰. By 2035, the digitally native generations will be middle-aged; they may be more willing to try AI-driven offerings in banking, education, entertainment, etc. For instance, we might see broader acceptance of **AI content generation** – younger consumers might not mind if a news article or a video game narrative was authored by AI, whereas older folks often still assume a human author. **Cultural norms** can shift too: in East Asia, people have shown relatively higher comfort with robotic receptionists or pet-like companion robots, so by 2035 in Japan or South Korea it might be quite normal to have a robot assistant greet you at a store or help care for grandma. In contrast, Western cultures might still lean toward human service in those scenarios (though necessity could change that if caregiver shortages worsen).

That said, even tech-open younger generations have limits. Surveys of Gen Z and Millennials still show that while they use chatbots more readily, they also value **authentic human experiences** – e.g. the resurgence of live events and in-person travel among youth post-pandemic suggests a reaction against all-digital life. So in 10 years, we might see a *greater split*: routine transactions and basic support handled by very good AI (with less friction than today’s clunky bots), but **premium tiers of service emphasizing human personal touch**. For example, by 2035, many fast-food restaurants or pharmacies might be mostly automated for speed and cost efficiency, which younger customers tolerate. However, there may be a niche for “human serviced” versions – think of artisanal coffee shops where part of the appeal is chatting with the barista, or boutiques highlighting knowledgeable human staff. **Human service could become a luxury feature** in some markets, consciously marketed as such.

In areas like **transportation**, within 10 years technology might force changes in preference. If self-driving cars and trucks prove significantly safer than human drivers, we may begin to *prefer* the automated option for safety’s sake – or at least accept it. Right now, many people swear they wouldn’t trust a driverless car. But imagine by 2035 there are statistics that autonomous vehicles have, say, a 90% lower accident rate. Public opinion could shift, especially among those who didn’t grow up equating driving with freedom. We might see human driving become more of a hobby (like horse riding after the car) or relegated to certain contexts (e.g. recreational driving on closed tracks), while day-to-day transport is automated. **Commercial aviation** might similarly evolve: perhaps planes will technically be able to fly without pilots, but airlines may still keep a human “pilot” on board for passenger peace of mind and oversight. The role might become more about customer reassurance and monitoring the AI systems (much as elevators kept human

operators long after automation was possible, until society finally adjusted to rider-only elevators decades later).

In **healthcare**, by 2035 AI will likely be deeply embedded as a diagnostic tool and maybe as a **co-pilot for surgeons**. We might routinely see AI suggesting treatment plans or monitoring patients in the background. However, it's very likely that patients will still want a *human doctor or nurse* delivering the news, making the final call, and providing the compassionate counsel. The doctor's role may shift – less about memorizing medical facts (since AI can do that) and more about **high-level decision-making, ethical judgment, and patient communication**. In other words, the human stays in the loop, focusing on the human-centric tasks. The jobs in healthcare could change accordingly (e.g. more patient liaison roles, growth in nursing and palliative care which emphasize bedside manner). One possible new role might be an **“AI medic”** – a human professional who oversees AI-driven analyses and translates them to patients in empathetic ways, ensuring that technology is used but the patient still feels cared for by a person.

Education in 10 years could feature AI tutors for drill and practice, adaptive learning apps, and even AI teaching assistants helping to grade or answer common questions. But human teachers will still lead classrooms, especially for younger students, because schooling is as much about *socialization* and mentorship as about content delivery. Teachers might spend less time lecturing (since students can watch AI-generated videos at home, for instance) and more time coaching critical thinking, facilitating discussions, and providing emotional support – the *“human”* parts of teaching. Roles like **college professors** might pivot to being more like discussion moderators and project mentors, guiding students in how to use AI tools thoughtfully rather than competing with those tools.

In creative fields by 2035, we'll likely have a glut of AI-generated content. The novelty of AI art or music may wear off; what remains valuable is *curation* and *human storytelling*. Human artists might differentiate by emphasizing their **personal story and live interactions**. For example, an author might involve fans in the writing process through interactive storytelling (something an AI can't “authentically” do as a person), or musicians might focus on live concerts and merch that highlight their humanity. We may also see a revival of the idea of **authenticity labels** – perhaps some media will proudly label “100% human-created” as a mark of quality, similar to organic food labeling. There could be legal or cultural pushes for transparency: e.g. requiring disclosure if a piece of journalism or art was AI-generated, giving consumers the choice. If a segment of consumers actively *prefers* human-made art (analogous to how some prefer handmade crafts or farm-to-table food), that creates a market sustaining those human creators.

Culturally, the **East-West divide** in comfort with robots might persist or even widen in the near term. Japan already employs robots in some hotels, banks, and elder care settings out of necessity. As mentioned, the success has been mixed, but the general public in parts of East Asia seems slightly more accepting of humanoid robots among them (perhaps influenced by cultural attitudes that objects can have spirit – e.g. Shinto beliefs – making robots seem less alien) ²⁸. In contrast, Western media often portrays robots as sinister or prone to rebellion, which may color Western consumers' views. By 2035, we might see, for example, **Korea or Japan normalizing robot aides** in homes or nursing facilities to a greater extent, while **Europe or the U.S. uses them more sparingly**, preferring to augment human caregivers instead. However, if labor shortages hit crisis levels in elder care or other areas, Western societies could quickly overcome discomfort due to sheer need. Economic pressure can change minds: if there simply aren't enough young people to care for the old, families might accept robotic help despite prior qualms, especially if the technology demonstrates reliability and improves. But even then, one can imagine robots doing the heavy

lifting (literally and figuratively) while **human caregivers focus on emotional support** – sitting and talking with the elder, something the family knows a machine can't replace.

In summary, the **next 10 years** will likely see **more human-AI collaboration** rather than outright replacement in jobs that hinge on human contact. We'll have more AI copilots, assistants, and tools in every field – and some roles might be partially automated. But for most customer-facing or interpersonal jobs, expect humans to remain in charge or at least visibly present. Humans may shift to the **“relationship layer”** of work, while AI handles the technical layer. Jobs that do get nearly fully automated will tend to be those where consumers place minimal importance on the human aspect (e.g. perhaps toll booth operators, basic checkout, simple information dispensing). Yet even there, companies must be cautious: a backlash can occur if they remove humans and the customer experience suffers. The near-term will involve feeling out those boundaries – where do people truly not mind a robot, and where do they balk? It's likely that **high-trust, high-empathy roles will still be done by humans in 2035**, whereas low-emotion, transactional roles will see much more automation.

Long-Term Horizon (20+ Years): The Sentimental Economy in 2045 and Beyond

Looking two decades or more into the future, speculation becomes more uncertain – technology and social norms could change in unpredictable ways. However, if current patterns hold, by the mid-2040s we will be living in a world where **AI and robotics handle the lion's share of technical work**, and what's left for human employment is disproportionately in the realm of **meaning, creativity, care, and interpersonal connection**. In other words, the “Meaning Economy” that futurists talk about may be in full swing, where human work is centered on providing experiences, relationships, and interpretations that automated systems cannot ¹ ² .

It's possible that by 2045, society will have undergone a bit of a **“trust revolution”** with AI – similar to how, over decades, people eventually came to trust elevators without operators or autopilot systems on planes. If AI systems demonstrate decades of safe, reliable performance, public resistance to them in certain roles might diminish. For example, perhaps by then **fully autonomous vehicles and aircraft** are not only common but preferred, having proven far safer than human-operated ones. In that scenario, jobs like **truck drivers, taxi drivers, and even airline pilots** might largely vanish or be very different (pilots might be remote supervisors monitoring many flights at once, rather than in-cockpit aviators). Society might treat human driving on public roads the way we treat riding a horse on a highway today – an eccentric, potentially dangerous activity allowed only in special cases or locations. This would mark a significant shift in preference, since today most people say they prefer human drivers. It underscores that **preferences are not static**: they can flip when automation becomes demonstrably superior and new generations lose the sentimental attachment to the old ways.

However, even in such a scenario, there will remain fields where humans *insist on humans*. By 2045, anything that involves **complex human emotions or ethical dilemmas** will likely still have human overseers. For instance, consider **judicial roles**. We may use AI to assist judges – perhaps AIs will evaluate case law or even recommend sentences based on precedent. But having an AI *completely replace* a judge or jury is hard to imagine in liberal democracies, because the justice system's legitimacy is built on the notion of a *jury of your peers* or a judge who can weigh mercy and context in a humanistic way. An algorithm might be more consistent, but the moral authority of a judgement might be questioned if no human conscience was

involved. Therefore, we might foresee **human judges and juries persisting** well into the future, possibly with AI advisors. The job of a judge might shift more toward being a moral interpreter and public reconciler, with AI doing rote legal analysis.

Political leadership in 20+ years is similarly likely to remain human. While AI could manage many aspects of governance (budget optimization, traffic flow, even drafting legislation), people will still want human *figureheads* and decision-makers at the top, if only to have someone to hold accountable or rally behind. Even if, say, city management is largely automated, having a human mayor might serve a psychological and symbolic need – a **focal point for communal identity**. One could imagine more direct democracy aided by AI (people voting on many issues via AI-curated info), but behind the scenes there would be humans ensuring the system is fair and addressing voters' emotional concerns. **Religious leaders** almost certainly will remain human in major faiths; if anything, the more AI permeates life, the more appealing a *human spiritual guide* might become as a counterbalance.

In **care and companionship**, by 2045 robots will be much more advanced at social interaction – perhaps genuinely able to hold conversations that feel natural, recognize emotions, and respond with simulated empathy. Some people – especially those who grew up comfortable talking to Siri/Alexa – may find robotic companions or caregivers acceptable. We might see **household robot companions** for the elderly living alone, providing 24/7 assistance and some level of conversation. These could alleviate loneliness to an extent and help with monitoring health. But will they replace human touch completely? Likely not. Humans will probably still prefer a **mix of robot and human care**: the robot for routine tasks and presence, and regular visits from human nurses or family for the deeper emotional fulfillment. The term “robot-assisted living” may become common, where the baseline care is automated but humans augment it. If anything, human caregivers in 20 years might focus even more on the **emotional labor** – talking, listening, providing companionship – since the robot can cook, clean, or remind about meds.

It's also possible by 2045 that entirely new job categories focused on human connection will emerge. For instance, as material production is automated, people might spend more time and income on experiences – fueling jobs in entertainment, leisure, and personal development. We might see roles like **“experience guides”** or professional friends, who design meaningful experiences for others or provide human connection on-demand. (Even today there are services in some countries to rent a friend or hire someone to cuddle for therapy – indicating a market for human connection that could grow in an AI-dominated world.) **“Trip sitters”** for psychedelic therapy (a role the user specifically mentioned) could be a good example: if psychedelic-assisted treatments for mental health become mainstream, it's very likely that a *trained human guide* will be considered essential for the patient's safety and psychological comfort during the session, even if AI might handle some preparatory or follow-up tasks. The symbolic and emotional weight of that journey calls for human empathy and presence.

Another sector likely to endure is the **creative arts – but reframed as a luxury or artisan domain**. By 2045, AI might churn out passable novels, music, and art tailored to one's tastes. In response, truly original human creators might become like artisans, valued for their distinct perspective. Audiences might ascribe special worth to, say, a painting that they know was crafted by a human hand over many hours, or a live concert where the risk of human error makes it thrilling. Human-created art could occupy a higher-end niche (possibly with higher cost or smaller scale, akin to how hand-tailored clothes exist alongside mass-produced fast fashion). Some foresee a **“post-automation craft economy”** where human labor is analogous to art – done for passion and consumed for its emotional value, while machines handle utilitarian production.

We should also consider an *opposing possibility*: perhaps by 2045 AI becomes so adept at mimicking human empathy that for some people, the distinction blurs. Already, experiments show some patients found AI-generated counseling responses *more empathetic* than human therapists' notes ²⁹ ³⁰ . If future AI companions perfectly remember everything about you, never tire of listening, and respond with programmed warmth, some individuals might actually *prefer* that to messy human relationships. We see early signs: certain users of AI friend apps (like Replika) report feeling very attached to their chatbot, sometimes more than to humans, because the AI is nonjudgmental and always available ³¹ . By 2045, it's conceivable that a subset of society might entrust even intimate needs to AI – whether that's friendship, sexual companionship (via advanced robots), or therapy – arguing that *automation has proven superior* in attentiveness or consistency. This could create a social divide: those who embrace AI for emotional needs vs. those who insist on human contact. Cultural variations will play a role too – perhaps in some high-tech, individualistic societies, having an AI best friend or an AI clergy might be normalized, whereas in others it's taboo.

Nevertheless, it's hard to imagine certain **symbolic roles** ever being given over fully to AI. For example, would people attend a wedding officiated entirely by a robot? Maybe for a novelty, but the gravitas of a life event usually calls for a respected human officiant whose presence signifies communal witness. Or consider national leaders: even if an AI could conceivably run a country's logistics better, citizens probably wouldn't *feel* led or represented by an AI in the same way. The performative aspect – a leader speaking at a funeral, comforting the nation after a tragedy – requires a perceived **human sincerity** that would be hard for an AI to credibly supply.

So, in the **long run (20+ years)**, the jobs “left” for humans might cluster in what we could term the **“Economy of Meaning and Emotion.”** These would include: - **Care and Companionship Roles:** nurses, therapists, social workers, elder caregivers, child care workers – focusing on emotional support and human connection (even if robots assist with logistics). - **Creative and Cultural Roles:** writers, artists, musicians, filmmakers, game designers – not all such content will be human-made, but human creators will differentiate themselves with unique styles and the ability to inject genuine human themes that resonate. Think of it as *“boutique”* creativity. - **Experience Providers:** from tour guides to event planners to hospitality hosts, people who craft and lead experiences in person. For instance, travel might split between automated, efficient transport vs. human-guided adventure tourism where the guide's personality and knowledge are the value. - **Leadership and Advocacy:** politicians, community leaders, activists, diplomats – roles that involve persuasion, moral judgment, and human-to-human negotiation. Even if data analysis is automated, the art of **building trust and consensus** will remain human. - **Education and Personal Development:** teachers, mentors, coaches (life coaches, sports coaches, career coaches). Their job will be more *mentor/psychologist* than lecturer, guiding people through growth and change – something humans generally want a fellow human for. - **Emergency response and “human in the loop” oversight:** in fields like policing, firefighting, or military, drones and robots will do a lot, but we'll still put humans in charge of decisions that have moral weight (e.g. a police robot might apprehend someone, but a human officer decides on use of force in ambiguous situations). The public will demand human accountability in these life-and-death decisions for a long time, to avoid a dystopian lack of responsibility.

There is also a likelihood of entirely new **hybrid professions** by 2045 that we can only vaguely foresee – jobs where being human is a feature, not a bug. For example, one could be a **“professional human companion”** to AI – perhaps AI systems will need training or oversight in real-world settings and a person provides the social context. Or a **“chief meaning officer”** in companies – ensuring that automated processes don't alienate human customers or employees, essentially a human sensibility consultant. These

sound fanciful, but they underscore an important point: as AI does more of the heavy lifting, **the human role shifts to interfacing, empathizing, and injecting meaning** wherever it's needed.

Cultural and Generational Variations in Human Preference

It's important to note that preferences for human vs. automated services are not monolithic; they vary by culture, region, and generation. As touched on earlier, **younger generations** globally tend to be more open to AI and robotics in new places. Having grown up with digital assistants and automation, they may find it less "creepy" to have an AI therapist or a robot waiter. For example, in the 2024 YouGov poll, **55% of Americans aged 18–29** said they'd be comfortable talking to an AI chatbot about mental health ¹⁹ – a level of openness far above that of older adults. Young people also consume AI-generated media (like TikTok filters, virtual pop stars, etc.) with fewer qualms about authenticity. This suggests that over time, **consumer resistance to some automated services might diminish** simply due to new generations taking them for granted. A teenager in 2025 who happily chats with an AI friend for advice might, by 2045, have no issue sending her elderly parent a robot companion, whereas today's 40-year-olds might consider that neglectful.

However, generation isn't everything – **cultural context** plays a huge role. Studies have found that attitudes toward robots differ across countries. Japan is often cited for its comparatively **robot-friendly culture**, with Shinto traditions encouraging the idea that even objects/robots can have a kind of spirit, making people less averse to interacting with them. Research comparing Japanese and Western samples has sometimes shown Japanese participants reporting *warmer feelings toward robots and more experience* with them ³². For instance, Japanese companies have introduced robotic receptionists in banks and robotic pets for the elderly with enthusiastic media coverage. South Korea and some European countries (like Denmark or the Netherlands) also have generally positive attitudes toward assistive robots, perhaps due to high tech exposure and trust in institutions deploying them. On the other hand, surveys in the US and parts of Europe often reveal more **skepticism or fear** of robots, influenced by pop culture tropes of rogue AI and a stronger cultural emphasis on individual human agency. A cross-cultural survey noted that Americans frequently mention loss of human touch and distrust as reasons to avoid robot caregivers ³, whereas in Japan the narrative is more about robots helping in a friendly way (though note: even in Japan, actual **social acceptance issues remain** when it comes to real deployments in elder care ³³).

Eastern cultures that prioritize collective harmony might also be more willing to accept an AI if it's seen as for the greater good (for example, using AI in public roles like cleaning robots or information kiosks). Western cultures that prioritize individual choice may demand opt-outs and human alternatives longer. **Geography and infrastructure** matter too – countries facing acute labor shortages (Japan with elderly care, or rural areas in China with doctor shortages) may embrace automated solutions faster out of necessity. In contrast, countries with higher unemployment or surplus labor might resist automation to preserve jobs and the social fabric of work.

By 2045, these cultural differences could either converge (if one approach clearly succeeds and is emulated) or become even more pronounced subcultures. We might travel from one country to another and notice: in country A, robot baristas and AI teachers are normal, while in country B, those roles are proudly filled by humans as a matter of principle or tradition. **Regulation and policy** will also influence this. If a society decides to protect certain professions as "heritage" or critical for human dignity (for example, some European nations might ban fully automated eldercare without human oversight, on ethical grounds), that will keep humans in those jobs. Alternatively, a society might mandate automation where it proves safer –

e.g. outlawing human long-haul truck driving if self-driving trucks drastically cut accidents. Policy will mediate between what's technically possible and what's socially desirable.

The Friction When Automation Excels – and How It Might Resolve

It's worth exploring the **opposing view**: cases where people *claim* to prefer humans, but find themselves won over by automation that delivers objectively better results. History has some examples. In the early days of elevators, riders were anxious about automated elevators with no operator – they preferred a human operator for safety. Over time, trust built up and now nobody thinks twice about an elevator with just buttons. We may see similar trajectories in other fields. One emerging example is **medical diagnosis**: if AI systems consistently diagnose certain illnesses more accurately than doctors, patients might initially be wary, but outcomes will speak loudly. There are already studies where AI outperformed doctors in some tasks (like detecting skin cancers or analyzing retinal scans). If in 10–20 years a visit to an AI-powered diagnostic booth is proven to catch problems that human doctors often miss, patients may shift from “I insist on a human doctor” to “I want the best screening – give me the AI (but a human will explain the results).” Indeed, a recent survey found **64% of patients said they would trust an AI's diagnostic output as much or more than a human doctor's** under certain conditions ³⁴ ³⁵. This suggests that *when automation proves its mettle*, many people are pragmatic enough to accept it, at least as a component of their care.

Another area of potential friction is **transportation safety**. As mentioned, humans currently overestimate their driving abilities and underestimate AI, often saying “I'd never trust a self-driving car.” But if by the late 2030s, highway fatalities have plummeted in regions with autonomous vehicles, public opinion could flip. It may even become seen as irresponsible for a human to drive if a safer automated option exists – just as today we'd consider it irresponsible not to use seatbelts or to drive drunk. The friction here is psychological: fear of new tech vs. fear of accidents. Once people personally experience the convenience and safety (imagine being able to sleep or work during your commute without worry), their *revealed preference* might change. A similar story could play out with **automated aircraft**. Initially, airlines might have to discount tickets on pilotless flights because people are nervous, but if those flights develop a perfect safety record and cost less, market forces and generational turnover could normalize them. The likely scenario is hybrid: cargo flights go pilotless first (fewer human lives at stake), then perhaps short-hop passenger flights with remote human supervisors, and only much later full-size jets – and even then, a human crew member might be present for customer comfort even if not actively flying the plane.

We also see friction in **creative industries**. Many readers say they prefer human-written books, yet if an AI can generate a personalized novel exactly to one's taste, some might covertly enjoy it more. There's an analogy in music: people idealize the authenticity of human musicians, but most daily music consumption happens via highly produced, computer-perfected tracks on Spotify with heavy algorithmic recommendation. It doesn't bother us that music is digitally enhanced or that drum machines replaced human drummers on many recordings – as long as the song is good. Likewise, in 20 years, if someone reads a great story, they might not care whether a human or AI wrote it, unless they deliberately choose to. The friction here is between *stated preference* (“I value human art”) and *actual behavior* (“I just want a good, cheap, instantly available story or video”). As AI content gets better and more normalized, large swaths of entertainment might become machine-generated without much fanfare. Humans might still create the initial worlds or characters (like a Marvel universe), but AI could then spin endless tales in those worlds that fans consume. The question is whether fans feel something is missing. It's possible a certain hollow monotony might set in, leading to a counter-trend valuing indie human creators for freshness. We already

see this dynamic with big blockbuster movies (formulaic but popular) vs. arthouse films (less audience, more prestige). In the future, “human-made” could be a prestige category in itself, while AI-made is mainstream mass content.

One explicit friction point is when automation enters fields *where people’s self-identity is tied to human excellence*. A clear example: **sports and competition**. If robots could play soccer better than Messi or run a 100m sprint faster than any Olympian, would spectators switch to watching robot leagues? So far, the answer seems to be no – robot competitions exist (like robotic soccer cups, BattleBots, etc.) but they’re niche entertainment. Humans value watching other *humans* push limits of ability; a robot world record is not emotionally compelling because there’s no relatable struggle or narrative of triumph over limitations. This suggests that for leisure and sports, even if robots outperform, the human version will remain the real attraction. People might come to see robots more as tools to *enhance* human sports (better refereeing through AI, performance analytics, etc.) rather than as the athletes. However, friction could arise if, say, **enhanced humans** (with AI implants or cyborg abilities) challenge our definition of fair competition. That’s another domain where preference might swing – maybe by 2045 audiences are fine with a “cyborg Olympics” where technology-human hybrids compete, or maybe they insist on a purely unaugmented human league for authenticity. The outcome will depend on cultural values about what is **meaningful competition**.

Contentious transitions can occur in the workplace too. Imagine a company where customers *say* they want human customer service, but the AI system becomes so good that it resolves issues in seconds 24/7 with a friendliness indistinguishable from a person. The company might push customers to the AI by default and over time, customers might stop trying to reach humans because the AI is actually solving their problems quickly. The initial *belief* that “I prefer a human” might fade when experience shows the AI is faster and just as effective. We can think of ATMs vs. bank tellers: in the 1970s, people were skeptical of cash machines and preferred teller windows. Banks eased the transition by keeping some human staff and slowly habituating customers to ATMs for convenience. Now, many under-40 customers have probably never spoken to a bank teller for routine cash withdrawal – they’d find that slower and less convenient. Similarly, by 2045 a lot of routine customer service (like resetting passwords, checking on orders) will likely be handled so smoothly by AI that the idea of waiting on hold for a human agent will seem unnecessary except for special cases. The **friction evolves** by humans reserving their involvement for the complicated, high-level issues.

One more angle: **economics and inequality**. If human-provided service becomes a luxury, there may be class-based preferences. Wealthier individuals might insist on human chefs, human tutors for their kids, human personal shoppers – as a status symbol that they can afford the “bespoke” human touch. Meanwhile, lower-income consumers might have no choice but to interact mostly with automated systems (since those are cheaper). This could create a social divide where the *preference* for human interaction is there universally, but only some can attain it consistently. If that happens, it might provoke a political reaction to ensure everyone gets some baseline human services (e.g. requiring that elder care facilities provide a minimum ratio of human staff, not just robots, regardless of cost). Society will have to negotiate these outcomes – possibly through policy that sets boundaries on automation in certain sensitive domains, to protect dignity and equity.

In essence, by the long-term future, we expect a world where **automation is deeply integrated** but **strategic human roles are preserved** both by choice and by necessity. Those human roles concentrate where they add distinctive value: emotional intelligence, ethical judgment, creativity born of lived

experience, and the ability to generate trust or meaning among other humans. Many jobs will have morphed rather than disappeared – a nurse might operate diagnostic AIs and robotic lifts, but her core contribution is still the **healing presence** she provides to a patient. A teacher might have AI lesson plans and grading, but his value is in inspiring students and coaching them through difficulties. An entertainer might leverage AI special effects, but her **personal charisma and story** keep fans engaged.

Meanwhile, people will continually assess their own preferences. Some initially non-negotiable demands for humans might soften as technology proves itself. Other lines may harden, with society saying “this role must stay human.” For example, if there were a push for fully AI judges, there would likely be a strong counterargument about the nature of justice requiring human empathy – a line in the sand against automation. These debates (AI in policing, AI in warfare, AI in parenting even) will become more prominent as technology encroaches further.

Ultimately, the shape of the economy in 2045+ could be quite different: fewer people in manual or routine cognitive jobs, more people in jobs that resemble **social facilitators, artists, caregivers, and visionaries**. Some have dubbed this the “**sentimental economy**” – where the emotional and experiential value is the core commodity. The historical analogues suggest that even when technology takes over production, humans find new **meaningful activities** to pursue and often turn them into professions (think of how the entertainment industry exploded in the 20th century as manufacturing automated – people started essentially monetizing play, stories, and leisure). We may see a further expansion of industries centered on human experiences: wellness, entertainment, travel, education, creative arts, community building, etc.

Conclusion: Embracing a Human-Centered Future

We stand on the brink of incredible technological upheaval, yet the **human element is far from obsolete**. If anything, as automation becomes ubiquitous, what is *irreplaceably human* stands out more sharply – like the figure in a painting that remains in focus while the background blurs. Across current, near-term, and long-term horizons, certain job roles will endure because they fulfill deep-seated human needs: the need for empathy, for trust, for understanding, for meaning. These are qualities we seek from fellow humans, sometimes even *in spite* of efficiency or cost.

The evidence is clear that today people often prefer human professionals in roles of care, teaching, service, and creativity – and they are willing to pay for it. Surveys show strong majorities wanting the **human touch in healthcare, customer service, and personal counseling**, even when AI options exist ⁴ ¹¹. History shows that new technology can change how tasks are done, but it doesn't necessarily extinguish the *desire* for genuine human experience – whether attending a live concert in the age of Spotify or enjoying a handcrafted item in the era of factory clones.

Looking ahead, we can anticipate that many jobs will be redefined rather than eliminated. Humans will collaborate with AI, letting machines handle the drudgery or precision tasks while we concentrate on the **interpersonal and creative dimensions**. Some jobs will indeed disappear or shrink – but new ones centered on providing human connection and meaning will likely grow. An aging world with more free time (thanks to automation) could spark a boom in demand for storytellers, entertainers, guides, and caretakers. We may also see a renaissance of **small-scale entrepreneurship** where individuals sell personalized services or crafts, leveraging global networks to find those who value a human connection.

That said, this transition will come with **friction and debate**. Not everyone will agree on where to draw the line between convenience and humanity. We will likely navigate controversies whenever an automated system challenges a role that was seen as quintessentially human. Some experiments will fail – as we saw with the all-robot hotel that had to rehire humans ²⁴ – teaching us that **“just because we can automate it, doesn’t mean people will like it.”** Other experiments will succeed beyond expectation and change our minds about what we prefer. Society will need to remain adaptable and put human well-being at the center of decisions about automation.

In conclusion, the jobs most likely to remain in human hands are those that reside in the **realm of heart, mind, and society**: where a **handshake, a kind word, a creative spark, or a moral compass** make the difference. These are the roles in which, even 20+ years from now, being human *is* the competitive advantage. We may call it the Meaning Economy or Sentimental Economy, but it still runs on an ancient principle – **people need other people**. As advanced as AI becomes, our distinctly human needs for understanding, trust, and meaning will ensure that *humans serving humans* remains a cornerstone of our economy and our lives.

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