

Events	Groups	Probable Changes in 1 Year (2026)	Possible Changes in 3 Years (2029)	Guesses For 10-year Changes (2036)
AI Events	1. AI Capability Breakthroughs	Models become real-time, multimodal by default (text, image, audio, video)	AI reaches near-expert performance across most knowledge fields	AI surpasses top-human performance across most intellectual tasks
		On-device AI is becoming standard for phones and laptops	Small models (<5B parameters) match today's frontier models through better training	Specialized models achieve "superhuman research acceleration" in key domains
	2. AI Agents + Autonomy	AI Assistants reliably execute simple multi-step tasks (book travel, manage emails, create documents)	Fully autonomous agents operate inside companies: running campaigns, writing/debugging code, handling procurement, or managing inventories	AI agents coordinate entire departments or systems
		Browser-based agents handle routine workflows	AI agents gain goal-based planning, not just tasks	Large-scale agent swarms manage logistics, scheduling, and optimization across industries
	3. AI in Business + Economy	20–40% of office tasks get partially automated	Entire job categories are restructured: analysts, support staff, QA, basic coding, content creation	Many organizations run with AI as the primary operational layer
		AI copilots become mandatory tools in most productivity suites	AI-driven startups scale with less than 10 human employees thanks to automated back-office operations	New economic models form around "AI-optimized companies"
	4. AI in Creative Industries	AI-generated content (videos, images, music) reaches commercial quality for ads and simple productions	AI produces full TV episodes, indie games, or animated films with minimal crews	Entire virtual worlds, movies, and simulations created instantly based on a prompt
		Interactive AI characters appear in games	Personalized entertainment emerges: everything generated for you	AI-driven interactive media dominates most entertainment
	5. AI + Society / Daily Life	AI becomes embedded in phones, cars, home devices, medical triage tools, and tutoring apps	AI companions become normal—social, emotional, and task-based	AI shapes physical infrastructure: traffic flows, energy grids, municipal systems
People rely on AI for decision scaffolding (summaries, recommendations, drafting)		Personal life management agents handle finances, planning, schedules, health monitoring	Personalized lifelong AI tutors and health guides are standard worldwide	
Technology Events	1. AI Systems	Real-time multimodal AI becomes standard (text, image, audio, video)	Autonomous AI agents reliably execute multi-step work tasks (coding, operations, research)	AI manages entire business systems, research cycles, and infrastructure operations
		On-device AI becomes a baseline for phones, PCs, and some IoT devices	AI copilots become mandatory enterprise tools	Specialized AI reaches superhuman performance in key scientific domains
	2. Robotics + Automation	Warehouse and manufacturing robots are getting cheaper and easier to deploy	General-purpose humanoid robots enter commercial use in logistics, retail, and hospitality	Multi-purpose household robots become common appliances
		Home robotics (cleaning, basic fetching, companionship features) begins early adoption	Robotic systems integrate directly with AI agents for dynamic task coordination	Fully automated factories, farms, and distribution centers operate with minimal humans
	3. Computing Hardware	AI-optimized chips (NPUs) become standard in consumer laptops and phones	Chiplet-based architectures and optical interconnects enter mainstream data centers	Photonic computing and neuromorphic architectures have become key for ultra-fast AI
		Early breakthroughs in energy-efficient inference reduce cloud costs	Quantum accelerators perform niche-but-valuable tasks (chemistry, materials modeling)	Quantum computing achieves practical breakthroughs in optimization and drug discovery
	4. Networking + Connectivity	5G mid-band coverage becomes widespread; early 6G prototypes begin testing	6G early deployments support real-time AR/VR and high-bandwidth AI applications	6G/7G-level connectivity supports persistent mixed-reality worlds and AI-driven devices
		Satellite internet networks become cheaper and more reliable	Earth-orbit networks provide global high-speed low-latency coverage	Global, ubiquitous coverage becomes normal: no "offline" environments
	5. Human–Technology Interaction	Voice/gesture interfaces become mainstream; AI listens constantly (opt-in)	Seamless AR user interfaces replace many phone-first use cases	Mixed reality becomes the dominant user interface, blending physical and digital spaces
First wave of mass-market AR glasses with lightweight overlays		Personalized AI companions become standard in everyday life and work	Neural-interface consumer devices (non-invasive) allow direct control of apps and robots	
Work-related Events	1. Task Automation	Routine tasks (summaries, scheduling, drafting, research, coding snippets) become heavily automated	AI agents run end-to-end workflows (monthly reporting, procurement, customer support queues, QA testing, etc)	Large parts of operational work (analysis, documentation, tracking, logistics) become "AI-first"
		Most office workers regularly use AI copilots in email, docs, spreadsheets, and CRM tools	Teams shrink because 1 person can now manage what used to require 3–5 people	Humans mainly review, guide, or set goals instead of performing the tasks
	2. Job Roles & Skills	Job descriptions start including "AI tool proficiency" as a requirement	Many roles blend together (ops/analysis, engineering/AI oversight, marketing/automation, etc)	Entire new job families emerge based on managing AI systems, agents, and autonomous operations
		Workers shift from producing content to supervising and refining AI output	Rapid growth in "AI operator" and "workflow architect" professions	Traditional roles shrink dramatically (support, analysis, content creation, basic coding)
	3. Team Structure & Productivity	Teams integrate AI copilots into daily processes; productivity jumps 20–40% in many functions	Micro-teams become the norm: 2–4 people supported by AI agents doing operational work	Organizations restructure around autonomous systems; many departments operate with very few humans

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Work-related Events	3. Team Structure & Productivity	Meetings shorten because AI generates summaries, decisions, and action items	AI becomes the “operational middle layer” of most companies	1 person with a network of AI agents can function like a small department
	4. Hiring & Talent Markets	Companies hire candidates who can work fluidly with AI tools	Hiring shifts toward “AI-augmented talent,” not raw skill—companies care more about how well someone amplifies with AI systems	Many workers function as “one-person AI-driven companies” contracting services
		High-value roles emphasize judgment, communication, and problem framing	Global talent markets expand as AI eliminates language and workflow barriers	Traditional hiring becomes less important as companies buy output, not headcount
	5. Leadership & Decision-Making	Leaders rely on AI dashboards for real-time business visibility and forecasting	AI conducts scenario modeling, risk analysis, budgeting, and market simulations for leadership	AI systems act as full decision-support engines, providing strategy, financial optimization, and predictive modeling that surpass human capability
		Early AI-assisted strategic planning tools emerge	Executives increasingly validate AI-proposed plans rather than constructing them manually	Leaders focus more on ethics, judgment, and long-term vision while AI handles detailed planning
Economy-related Events	1. Labor Market Shifts	AI automation reduces demand for junior roles: admin, basic analysis, support, content, etc	Many mid-skill jobs reshape or disappear; new “AI-augmented” roles emerge	Workforce becomes hybrid: humans and AI agents performing most economic tasks
		Productivity rises in knowledge sectors, but hiring slows in operational areas	Global remote talent markets expand as AI removes language and coordination barriers	A large portion of jobs shift from execution to oversight and strategy
		Freelance/contract work grows as companies become cautious on full-time headcount	Wage polarization increases: highly-skilled and AI-related workers earn more; low-skill work becomes more competitive	Governments confront structural unemployment in some sectors and re-skill at national scale
	2. Business Structure & Competition	Companies begin reorganizing workflows around AI to cut costs	Lean companies with heavy automation out compete traditional ones	Many businesses operate with minimal human staff supported by large AI agent networks
		Startups with less than 10 people can compete with 50–100 person companies from a few years ago	AI-driven operational efficiency becomes a primary competitive advantage	New mega-corporations form that scale almost purely on automated systems
		“AI-first” business models emerge across marketing, legal, and software development	Entire industries (customer service, back-office operations, logistics) see rapid consolidation	Competitive advantage shifts from talent acquisition to data, models, and autonomous infrastructure
	3. Capital Markets & Investment	Investors pour capital into AI infrastructure (chips, cloud, agents, automation)	AI-driven trading and forecasting systems gain dominance in financial markets	Markets become partially automated ecosystems where AI agents manage portfolios, risk, and asset discovery
		Traditional tech valuations rise due to AI-driven productivity expectations	Entire new asset classes form around automated businesses and AI-powered IP	Human-driven active management becomes niche
		Some volatility as markets adjust to rapid automation forecasts	Venture capital prioritizes “ultra-lean, AI-leveraged” startups	Economic cycles accelerate due to faster innovation and feedback loops
	4. Consumer Behavior & Demand	AI-generated content reduces costs; consumers expect personalization in media, shopping, and services	Hyper-personalized digital services become the norm: entertainment, learning, shopping, health insights	AI-created virtual worlds, products, and experiences become major sectors of the global economy
		Early AI tutors, assistants, and productivity tools enter households	Household expenditure shifts as more value is created programmatically (content, automation, virtual services)	Consumer expectations shift toward “instant, personalized everything”
		.	.	Physical consumption grows slower than digital consumption
	5. Government, Policy & Global Dynamics	Early regulatory frameworks appear around AI safety, data use, and enterprise automation	Countries race to build national AI-based infrastructure and sovereignty (chips, data centers, models)	Governments rely heavily on AI for economic planning, forecasting, and public administration
		Governments begin assessing national AI competitiveness	Tax policy shifts as automation reduces traditional labor income bases	New global power structures form around AI capability rather than traditional industrial capacity
		.	Major nations release coordinated AI economic strategies	Nations experiment with new economic safety nets in heavily automated societies
Business-related Events	1. Business Operations & Automation	Most companies adopt AI copilots for email, documents, customer support, and analysis	Autonomous AI systems run key business processes end-to-end (billing, QA, procurement, onboarding)	Businesses rely on large AI agent networks that manage nearly all internal processes
		Operational tasks (research, reporting, documentation) become partially automated	Companies reorganize around “AI in the middle,” reducing layers of management	Human teams focus on strategy, relationships, and oversight rather than operations
		Early agent-based workflows replace basic administrative work	Operational efficiency improves 30–70% in many sectors	Entire companies can run with very small staff due to automated infrastructure
	2. Customer Experience & Personalization	AI-driven personalization becomes expected in marketing, recommendations, and support	Fully personalized customer journeys: dynamic pricing, custom product bundles, and predictive support	Businesses deliver entirely individualized experiences across products, services, and content
		Chat-based AI customer interfaces handle most simple queries	AI becomes the primary interface between businesses and customers	“Segment of one” marketing dominates — everything is tailored to each customer in real time

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Business-related Events	3. Product Development & Innovation	Companies use generative AI for rapid prototyping, mockups, and concept testing	AI collaborates with engineers to design, test, and validate new products	Businesses use AI to generate thousands of product variations and instantly test them in virtual markets
		Faster iteration cycles for software, marketing assets, and physical product design	Product development timelines shrink by 50% or more in many industries	R&D becomes an increasingly AI-driven process, accelerating innovation across industries
	4. Business Models & Competition	AI-first startups disrupt markets with extremely small teams and low costs	Ultra-lean companies with heavy AI automation out compete traditional players	New business models emerge that rely on autonomous systems instead of labor
		Service businesses shift from hourly billing to output-based pricing powered by automation	Entire categories consolidate as businesses unable to adopt AI fall behind	Global competition becomes fierce as borders matter less, and AI productivity matters more
	5. Leadership, Strategy & Decision-Making	Executives use AI for forecasting, analysis, and scenario testing	AI generates strategic options, resource allocation plans, and risk simulations for leadership	AI becomes a central component of high-level decision-making across corporations
		Strategy becomes more data-driven with instant modeling	Leaders shift from constructing plans to evaluating AI-generated ones	Leaders focus on judgment, ethics, and long-term direction while AI handles complex modeling
Society Events	1. Daily Life & Personal Tech	AI assistants become a normal part of daily life (messages, tasks, reminders, summaries)	Personal AI companions emerge—helping with decisions, planning, learning, and wellness	AI becomes a continuous presence in everyday living—much like electricity or the internet
		Early AI-powered home devices spread (smart speakers, smart screens, basic home automation)	Households use AI for financial management, scheduling, and personalized recommendations	Homes operate autonomously: climate, security, planning, and basic domestic tasks
	2. Education & Learning	Students commonly use AI tutors for homework, explanations, and study plans	Personalized learning pathways become common—AI adapts lessons to each student	Education becomes deeply individualized: AI tutors guide lifelong learning
		Teachers begin integrating AI tools for grading, lesson planning, and personalized support	Many schools and universities adopt AI-first teaching models for efficiency	Traditional curricula shift to skills like problem framing, creativity, and AI collaboration
	3. Social Relationships & Culture	AI-generated content (music, images, short videos) becomes mainstream in social media	AI companions become socially and emotionally sophisticated, influencing relationships, social behavior, and mental health	Human–AI relationships (emotional, social, collaborative) become normalized and culturally embedded
		People start forming light emotional attachments to AI companions	Cultural norms shift as AI-generated media becomes dominant	Society experiences a major cultural transition as AI-generated content, communities, and worlds shape identity
	4. Work–Life Balance & Human Purpose	People begin outsourcing annoying or time-consuming tasks to AI	Work shifts toward creativity, oversight, and problem framing as AI handles execution	Society reevaluates the concept of “work” as AI performs much of the global productive labor
		Job insecurity rises as automation begins reshaping roles	Many individuals adopt multi-income or micro-business lifestyles supported by AI automation	Purpose, fulfillment, community, and identity become major personal priorities
	5. Governance, Trust & Public Institutions	Governments introduce early AI governance and transparency rules	Governments deploy AI for public services: healthcare triage, tax analysis, legal support, and planning	Governance becomes heavily AI-assisted, from forecasting to resource allocation
		Public debate increases around safety, misinformation, and economic impact	Trust struggles: people question what is human-made vs AI-made	Society grapples with new norms around truth, identity, autonomy, and digital citizenship
Medical and Health-related Events	1. Diagnosis & Clinical Decision Support	AI tools assist clinicians with imaging analysis (X-ray, CT, MRI), triage, and symptom analysis	AI systems act as full diagnostic copilots—supporting doctors across most specialties	
		Primary care uses AI for intake summaries, risk flags, and differential suggestions	Real-time decision support becomes standard in emergency medicine and radiology	Continuous AI diagnostic monitoring (via wearables & sensors) detects diseases before symptoms appear
		.	Diagnostics become faster and more accurate, especially in underserved areas	AI becomes central to early cancer detection, rare disease identification, and chronic condition management
	2. Personalized Medicine & Treatment	Treatment plans include AI-generated medication adjustments and lifestyle recommendations	Precision treatment becomes routine: AI matches therapies to genetics, biomarkers, and personal history	Personalized medicine becomes the default: therapies, nutrition, and preventative care are tailored to each person’s genome and their real-time data
		Personalized risk scoring (cardiac, metabolic, mental health) becomes common	Personalized drug dosing and dynamic care plans are updated daily by AI monitoring	AI-designed drugs become widely available
	3. Medical Research & Drug Discovery	AI accelerates molecule screening, protein modeling, and literature review	Dozens of AI-designed drugs enter clinical trials across oncology, neurology, and metabolic diseases	Fully automated research cycles: AI discovers, models, simulates, and optimizes new therapies
		Pharma pipelines shorten in early discovery stages	Research teams rely on AI for experiment design, data interpretation, and hypothesis generation	Drug development times shrink dramatically, unlocking treatments for previously “unsolvable” diseases
	4. Healthcare Delivery & Access	Tele-health merges with AI assistants for intake, follow-up, and basic care guidance	AI-enabled virtual clinics provide 24/7 low-cost healthcare globally	Global access to high-quality AI healthcare reduces disparities across countries
	Mental health apps provide structured AI-based support and monitoring	Hospitals integrate AI for operations—bed management, staffing, routing, infection monitoring	Most routine care becomes virtual and AI-driven, with in-person visits reserved for advanced procedures	

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Medical and Health-related Events	5. Wearables, Monitoring & Preventative Health	Wearables track heart rate, sleep, activity, stress levels—and integrate with AI apps for lifestyle advice	Advanced biosensors measure biomarkers, hydration, respiratory metrics, and early disease indicators	Non-invasive continuous monitoring becomes universal (blood chemistry, hormones, cardiac status)
		Continuous glucose monitoring expands among non-diabetic users	AI interprets signals and alerts users and clinicians to early health risks	AI predicts and prevents many chronic diseases years before onset
Environmental Events	1. Climate Monitoring & Prediction	AI-enhanced climate models improve short-term extreme weather forecasting	Hyperlocal climate prediction becomes standard, allowing cities to plan days or weeks ahead for extreme events	Global climate modeling becomes nearly continuous, enabling early warnings months in advance
		Better wildfire, flood, and heatwave prediction systems adopted by governments	AI systems integrate satellite and sensor data for real-time environmental risk dashboards	Nations coordinate with AI-driven climate response systems for disaster management
	2. Energy Production & Efficiency	Rapid growth in solar, wind, and battery deployments driven by lower costs and AI optimization	Cities adopt AI-managed energy distribution that drastically reduces outages and inefficiency	AI-managed national grids coordinate renewable energy, storage, and consumption in real time
		Smart grids begin using AI to stabilize demand and reduce waste	Many industries implement autonomous energy-saving systems in factories, buildings, and fleets	Clean energy has become the dominant source in many regions; fossil use falls sharply
	3. Pollution Reduction & Waste Management	AI tools help cities track air quality and emissions more accurately	Large facilities adopt robotic and AI sorting for plastics, metals, and electronic waste	Autonomous waste systems become standard, drastically reducing landfills
		Early autonomous waste-sorting systems appear in major recycling centers	Pollution-monitoring networks expand, influencing city policy and industrial regulation	Pollution tracking becomes continuous and hyper-precise, enabling real-time mitigation
	4. Agriculture & Food Systems	AI systems optimize irrigation, fertilizer use, and crop monitoring for large farms	Autonomous farming (drones, sensors, robots) becomes common, increasing yield while reducing water and chemical use	Highly automated, resilient food systems stabilize supply despite climate volatility
		Vertical farming grows as automation reduces costs	AI predicts seasonal crop risks and advises farmers globally	Synthetic and AI-optimized food production reduces land and water use dramatically
	5. Conservation & Natural Resource Management	AI uses unmanned drones to monitor wildlife, forest health, and illegal logging more effectively	Large-scale ecosystem monitoring systems guide protection of oceans, forests, and biodiversity hotspots	Global natural resource planning becomes AI-optimized, balancing conservation with human needs
		Early restoration projects use AI to select optimal planting and soil strategies	AI helps governments enforce environmental laws more consistently	Restoration at planetary scale: AI-guided reforestation, ocean cleanup, and habitat rebuilding
Environment-related Events	1. Climate Monitoring & Extreme Weather Prediction	AI-enhanced climate models improve short-term forecasting of floods, heatwaves, hurricanes, and wildfire spread	Hyperlocal climate prediction (city-block resolution) becomes widely used for planning	Global continuous climate modeling becomes standard, enabling multi-month forecasting of extreme events
		Governments begin adopting real-time early-warning dashboards	Integrated satellite and sensor networks enable near-instant detection of environmental hazards	Countries coordinate climate-response systems guided by AI and autonomous sensing networks
	2. Clean Energy Transition & Emission Reduction	Solar, wind, and storage deployment grows sharply; grid decarbonization accelerates	Clean energy becomes cheaper than fossil fuels in most regions	Majority of global power generation comes from low-carbon sources
		Corporations adopt emission-tracking tools tied to ESG requirements	Cities implement low-emission zones and electrify public transit fleets	Large-scale decarbonization in manufacturing, buildings, and transport drastically cuts global emissions
	3. Pollution Tracking & Waste Reduction	Cities deploy expanded air-quality monitoring networks using IoT and satellite data	Continuous pollution tracking becomes the basis for real-time regulation	Near-autonomous waste systems dramatically reduce global landfill use
		Early autonomous waste-sorting systems appear in major recycling centers	Automated, robotic recycling reduces landfill volume significantly	Precision air/water monitoring allows immediate detection and mitigation of pollution
	4. Agriculture, Food Production & Land Use	AI manages irrigation and fertilization to reduce water usage	Autonomous agriculture (robots, drones, sensors) becomes mainstream	Highly automated, climate-resilient food systems stabilize global output
		Vertical farms scale rapidly in dense cities	Climate-adaptive crop systems reduce volatility in food supply	Lab-grown proteins and synthetic foods dramatically reduce land and water demands
	5. Conservation, Biodiversity & Natural Resource Management	AI uses unmanned drones to monitor wildlife, forest health, and illegal logging more effectively	Large-scale ecosystems—forests, coral reefs, oceans—are continuously monitored by autonomous systems	Planet-scale ecological management emerges: coordinated reforestation, ocean cleanup, and habitat restoration
	Early ecological restoration projects use AI-guided planting strategies	Governments use AI-guided enforcement to protect biodiversity hotspots	Resource extraction and conservation policies are optimized globally in real time	
Outer Space-related Events	1. Launch Technology & Space Access	Reusable rockets continue to reduce cost per launch	Rapid-reuse rockets achieve launch turnaround times under 24 hours	Fully reusable super-heavy rockets cut launch costs by 5–10×
		Heavy-lift rockets complete milestone tests for near-Earth and lunar missions	Commercial heavy-lift rocket vehicles fly routinely, enabling large deep-space probes and modules	Weekly or near-daily launch cadence becomes normal for major providers
	2. Lunar Missions & Infrastructure	Multiple agencies send robotic landers and rovers to scout lunar resources	First sustained human presence on the Moon emerges through rotating crew missions	Permanent lunar bases operate with local resource utilization (water extraction, power generation)

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Outer Space-related Events	2. Lunar Missions & Infrastructure	Early experiments in lunar communications and navigation systems begin	Construction begins on lunar-based surface power systems and science outposts	The Moon becomes a hub for science, manufacturing experiments, and deep-space staging
	3. Space Stations & Orbital Habitats	Planning accelerates for commercial space stations to replace the ISS	Multiple commercial stations are under construction or partially operational	A network of commercial and national space stations forms a permanent orbital economy
		Early private modules undergo testing and design validation	Orbital habitats support continuous research, tourism, and manufacturing	In-orbit manufacturing (pharmaceuticals, alloys, semiconductors) becomes economically significant
	4. Planetary Exploration & Deep-Space Science	New Mars, Venus, and outer-planet missions launch or achieve critical milestones	Advanced probes explore icy moons (such as Europa, Enceladus, etc) for signs of habitability	Large flagship missions deploy to the outer solar system and interstellar boundary
		Asteroid sample return missions deliver unprecedented material samples	Lunar and Martian surface labs analyze samples robotically with high autonomy	Autonomous deep-space craft conduct long-duration exploration with minimal human oversight
	5. Satellite Networks, Surveillance & Space Infrastructure	Megaconstellations expand global broadband and Earth-observation capabilities	Global satellite internet coverage becomes near-universal	A mature in-orbit servicing industry repairs, upgrades, and refuels satellites at scale
		Satellite collision-avoidance systems improve with AI integration	In-space servicing, refueling, and debris-removal demonstration missions become routine	Active debris-removal dramatically reduces collision risk and stabilizes low-Earth orbit
Global Political Events	1. Shifts in Global Power Balance	Major powers (US, China, EU and India) sharpen competition in trade, technology, and strategic regions	Multipolarity becomes the dominant geopolitical structure: no single nation leads global governance	A fully multipolar world emerges with 4–6 major power centers shaping global policy
		Regional blocs strengthen due to supply chain vulnerabilities and war-driven realignments	Asia’s political influence increases due to economic and technological power shifts	New alliances replace traditional Cold War–era alignments, reshaping global institutions
	2. Conflicts, Security, & Defense Strategy	Cybersecurity becomes a top priority for governments as cyberattacks increase	Defense strategies shift heavily toward autonomous systems, drones, and AI-enabled decision support	Conflict deterrence relies heavily on AI, autonomous defense networks, and space-based assets
		Armed conflicts create pressure on regional and global stability	Cyber-conflict becomes routine, forcing new norms and treaties	Traditional military confrontations decrease, replaced by cyber, economic, and information battles
	3. Democratic Governance & Political Systems	Democracies experience polarization, misinformation challenges, and election integrity disputes	Digital governance tools (online voting, digital identity, AI fact-checking) gain traction	“Digital democracies” emerge, blending technology with governance to increase participation
		Some countries strengthen political reform to rebuild trust	Citizens demand stronger transparency and anti-corruption systems	Political systems evolve to incorporate AI-driven policy modeling and public consultation
	4. Global Cooperation on Climate, Health & Technology	Nations push harder for climate agreements, pandemic-preparedness frameworks, and tech regulation	Large coalitions form around climate adaptation, AI governance, and global health surveillance	New global compacts govern AI, biotechnology, and climate engineering
		Cross-border environmental efforts intensify due to extreme-weather pressures	International institutions adapt to manage new technological risks	Multinational frameworks coordinate planetary-scale problems like migration, water scarcity, and energy transition
	5. Trade, Supply Chains & Economic Alliances	Nations diversify supply chains to reduce dependency on single-country manufacturing hubs	Regional economic blocs strengthen (Americas, Europe/Africa, Asia-Pacific)	Supply chains become highly automated and distributed across multiple continents
	Tariffs, export controls, and technology restrictions remain politically central	“Secure supply chains” become a global political priority, supported by strategic manufacturing policies	Long-term trade alliances reshape the global economy, reducing vulnerability to geopolitical shocks	
Robotic-related Events	1. Humanoid & General-Purpose Robots	Early commercial humanoid robots roll out to warehouses and manufacturing pilots	Humanoids become reliable enough for wide adoption in logistics, retail restocking, and light assembly	General-purpose humanoid robots have become common in homes, hospitals, and businesses
		Robots perform simple, repetitive tasks (moving boxes, basic inspection)	Robots handle multi-step tasks and navigate complex environments	Robots perform advanced cognitive and physical tasks, including caregiving and service operations
	2. Industrial Automation & Autonomous Manufacturing	Factories expand collaborative robot (cobot) use to handle labor gaps	“Lights-out” manufacturing lines (minimal humans) become viable for certain products	End-to-end autonomous factories become widespread, with robots designing, producing, and inspecting products
		Process automation increases in electronics, automotive, and consumer goods assembly	High-mix, low-volume production becomes fully automated with flexible robotics	Manufacturing becomes ultra-efficient, reducing human involvement to oversight roles
	3. Service & Domestic Robots	Cleaning AI robots, security patrol AI bots, and basic food-service AI robots expand in hotels, airports, hospitals	Multi-function home robots handle cooking assistance, laundry handling, and elderly support	A majority of households in developed countries have at least one general domestic robot
		Early home robots for simple chores gain traction	Commercial service AI robots become dependable for 24/7 operation in hospitality and retail	Robots handle most repetitive household chores and basic caregiving
	4. Mobility & Delivery Robots	Sidewalk delivery robots operate in more cities and campuses	Autonomous delivery robots and drones become common for last-mile delivery	Robotic logistics ecosystems dominate warehouses, factories, and last-mile transport
	Warehouse and fulfillment robots (AMRs, AGVs) have become nearly standard	Urban infrastructure adapts to robotic traffic lanes and docking zones	Autonomous drones handle heavy payloads, and robots manage full supply-chain workflows	

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Robotic-related Events	5. Medical & Surgical Robotics	Surgical robots assist in minimally invasive procedures more consistently	Autonomous surgical assistance expands, guided by AI precision and imaging systems	Fully robotic surgery emerges for a wide range of procedures, with surgeons supervising remotely
		Care robots support routine tasks like monitoring vitals and moving supplies	Rehabilitation robots become mainstream in clinics and homes	Medical robots provide continuous in-home monitoring and preventive care
Daily Life Events	1. Personal Technology & Digital Assistants	AI assistants manage schedules, emails, and reminders more proactively	AI becomes a real-time life companion: negotiating bills, handling errands, summarizing your day	AI becomes an ultra-personalized life manager present across home, work, and travel
		Smart devices (phones, wearables, speakers) begin offering personalized wellness suggestions	Digital assistants coordinate with home robots, vehicles, and appliances	Assistants autonomously complete many tasks (shopping, booking, budgeting) with minimal input
	2. Home Automation & Smart Living	Smart thermostats, lights, and cameras become more integrated and easier to automate	Homes self-regulate energy, air quality, security, and cleaning through unified systems	Fully autonomous homes adjust climate, security, maintenance, and supplies without human effort
		Energy-saving routines activate automatically based on occupancy	Appliances communicate with each other and plan optimal times to run	Common household chores become almost entirely automated
	3. Shopping, Food, and Daily Errands	Grocery delivery and curbside pickup become faster and more predictable	Autonomous delivery robots and drones handle most small local deliveries	Errands disappear for many people: automated shopping and delivery are default
		Personalized shopping recommendations integrate more deeply with diets and budgets	Smart kitchens auto-reorder supplies and suggest meal plans based on health goals	Kitchens prepare meals with robotic assistance and connected appliances
	4. Transportation & Mobility	Ride-hailing becomes increasingly automated in select cities	Autonomous shuttles and robotaxis have become widely used for commuting and errands	Personal driving declines significantly as autonomous mobility becomes dominant
		EV charging becomes faster and more available	Many households reduce car ownership due to on-demand mobility	Commuting is spent engaging in work, relaxation, or entertainment hands-free
	5. Work, Communication & Social Interaction	Remote collaboration tools integrate AI to summarize meetings and draft communications	Virtual presence (holographic avatars, spatial computing) becomes normal for meetings and social events	Daily work is heavily augmented by AI teammates handling much of the routine workload
	People increasingly outsource repetitive work tasks to digital agents	Personalized AI tutors and coaches assist with learning and professional development	Socializing, learning, and collaboration take place in immersive mixed-reality environments	
Scientific Events	Group:	Near-Term Scientific Shifts	Meaningfully Transformational Scientific Changes	Radical Scientific Transformation
	1.	AI-Accelerated Discovery Becomes Standard	AI-Designed Materials Hit the Market	Fully Autonomous Scientific Discovery Pipelines
		> AI models begin routinely designing molecules, materials, proteins, and simulations in mainstream labs	Commercial breakthroughs in AI-generated items...	> "Self-driving labs" with AI formulation, simulation, experiment execution, and interpretation
		> Major journals start requiring "AI reproducibility statements"	> Ultra-light structural materials	> Scientific cycle time drops by 10–100x
			> High-efficiency catalysts	
			> Novel superconducting candidates	
	2.	Breakthroughs in Small-Scale Nuclear & Fusion Prototypes	Fusion Achieves Multiple Reproducible Net Gains	Practical Fusion Power Plants Begin Operation
		> Several compact fusion or advanced fission reactors achieve milestone performance (Q1 demonstrations or stable continuous operation for minutes)	> Several labs demonstrate net energy gain (Q>1–reproducibly)	> First commercial fusion plants come online (5–20 MW demonstration facilities)
		> Regulatory frameworks begin defining pathways for deployment	> Private fusion companies begin preparing first-generation commercial plant designs	> Massive shift in scientific research funding and energy physics priorities
	3.	Rapid Expansion of Gene-Editing Therapies	First Organoid-Based "Living Computers"	Mature Human Digital Twins
> Several (10+) new CRISPR-based therapies enter Phase II/III trials		> Brain-based organoid computing research matures	Scientists routinely test...	
> First commercial base-editing therapy is approved		> Systems achieve superior energy efficiency vs silicon for pattern recognition tasks	> drug efficacy	
			> toxicity	
			> metabolic responses	
			> immune interactions	
			> on accurate full-body digital twins before human trials	

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Scientific Events	Group:	Near-Term Scientific Shifts	Meaningfully Transformational Scientific Changes	Radical Scientific Transformation	
		4.	Multimodal Digital Twins for Biology & Chemistry > Biological digital twins are used for predicting individual immune responses, drug interactions, and cellular behavior	Personalized “Lab-on-a-Chip” Medical Science > Chips that analyze your blood, immune profile, and metabolism in real time become standard for clinical trials and research cohorts > Enables extremely rapid scientific experimentation on human biology	Engineering Biology at Ecosystem Scale Advanced control of gene drives, species editing, and microbial ecosystem engineering Used for... > carbon capture > controlling vector-borne diseases > ecosystem restoration > synthetic ecological designs
	5.	Quantum Computational Advantage Claims Rise > 2–3 new papers claim domain-specific quantum advantage (optimization, chemistry, or cryptography) Not fully practical yet, but measurable	Breakthrough in Quantum Error Correction > Stable logical qubits become practical > Moves quantum computing from experimental to early commercial scientific applications (materials science, cryptography research)	New Fundamental Physics Insights Possible breakthroughs from... > dark matter detection > gravitational wave astronomy > muon anomaly resolution > quantum gravity models Each are a realistic chance of a new particle or interaction discovery that shifts the Standard Model	
	Transportation-related Events	Group:	Short-Term Transportation Changes	Meaningfully Transformational Transportation Changes	Radical Transportation Transformation
			1.	Autonomous Vehicle Expansion to New Cities > Robotaxi providers enter 5–15 additional cities worldwide > Limited-operation trucking corridors appear in the US, Europe, and China	Level 4 Autonomous Vehicles Operate Broadly & Reliably > Robotaxi services become normalized in dozens of cities with minimal safety drivers > Autonomous trucking on major freight corridors begins 24/7 operation
		2.	Electric Aircraft Prototypes Achieve Long-Range Milestones > Several regional eVTOL and hybrid-electric aircraft complete certification flights > First commercial short-hop electric passenger routes begin	Regional Electric Air Travel Becomes Commercial > 15 to 30 passenger hybrid-electric or fully electric regional aircraft enter service > Ticket prices drop on short routes due to lower fuel/maintenance costs	Major Shift to Electric & Hybrid-Hydrogen Aircraft > 20–40% of regional flights (<500 miles) become electric or hybrid-electric > Operating costs fall dramatically, altering airline economics
			3.	AI-Based Traffic Management Gets Widely Adopted > Cities deploy real-time adaptive signal systems using AI to reduce congestion > Early measurable results: 10–20% reduction in peak-hour delays	Ultra-Fast EV Charging Hits Mass Deployment > 800–1200V charging networks reduce recharge times to <10 minutes for most new EVs > Equipment becomes standardized across countries
4.		Battery Swapping Networks Scale Up > China, India, and at least one Western country expand large-scale EV battery-swapping networks for taxis and fleets		Hydrogen Transportation Expands > Hydrogen-powered heavy trucks and rail corridors become commercially viable > Airport hydrogen infrastructure begins deployment	Hyperconnected Transportation Ecosystems > AI directs cars, drones, planes, trains, delivery bots—all sharing real-time data > Dynamic pricing regulates congestion automatically
		5.	Rapid Growth of Micro-Mobility Integration > Unified mobility apps combine public transit, scooters, bikes, and rideshare into a single payment and routing system in major cities	Freight Logistics Become Fully AI-Optimized > Automated port operations with AI scheduling reduce shipping delays by 20–40% > Predictive routing dynamically adjusts supply chains in real time	High-Speed Ground Transport Revolution A mix of... > next-gen high-speed rail (350–600 mph) > semi-vacuum tube systems > megacity-to-megacity autonomous shuttle highways These each reshape commuting patterns and regional economic maps

Events	Groups	Probable Changes in 1 Year (2026)	Possible Changes in 3 Years (2029)	Guesses For 10-year Changes (2036)
Energy-related Events	Group:	Near-Term Energy Shifts	Meaningful Energy System Transformation	Fundamental Energy Landscape Overhaul
	1.	Rapid Growth of Solar, Wind & Battery Deployment	Renewable Energy Becomes the Cheapest Source in Most Regions	Renewables Dominate Global Power Generation
		> Global solar and wind capacity hits new records	> Solar and battery systems beat fossil fuels on cost nearly everywhere	> 60–80% of world electricity from solar/wind and storage
		> Battery storage installations double in several major markets	> Wind becomes dominant in coastal regions	> Fossil fuel plants retire rapidly or convert to cleaner fuels
	2.	Breakthroughs in Grid-Scale Energy Storage	Long-Duration Commercial Storage Goes Mainstream	Large-Scale, Long-Duration Storage Stabilizes Entire Grids
		> Early commercial demonstrations of long-duration systems (iron-air, flow batteries)	> 12–100 hour storage technologies see multi-GW deployment	> Multi-day and seasonal storage becomes routine in major countries
		> Utilities begin integrating multi-hour storage for peak shaving	> Seasonal storage pilots (e.g., hydrogen, compressed air, thermal) mature	> Blackouts become rare due to AI-controlled grid balancing
	3.	AI & Automation for Grid Optimization	AI-Managed Smart Grids Become Common	AI Optimizes Entire National Energy Systems
		> AI-based forecasting improves demand management	> Predictive maintenance and automated demand response reduce outages	> Real-time energy markets adjust second-by-second
		> Utilities deploy digital twins for grid maintenance and planning	> Local energy “microgrids” operate autonomously during disruptions	> Household and industrial devices automatically adjust usage for grid stability
	4.	Expansion of EV Charging Infrastructure	EVs Become Major Grid Assets	Near-Universal Electrification of Transport & Buildings
		> Accelerated rollout of high-speed charging networks along major highways	> Vehicle-to-grid (V2G) integration stabilizes local grids	> Most new cars, trucks, and buses are electric or hydrogen-electric
		> Fleet electrification (delivery vans, buses) becomes mainstream	> Charging becomes mostly automated and ultra-fast, requiring 10 minutes or less	> Residential and commercial heating shifts from gas ? electric heat pumps globally
	5.	Hydrogen Prototypes Enter Pilot Use	Industrial Hydrogen Adoption Accelerates	Hydrogen & Synthetic Fuels Transform Heavy Industry
		> First hydrogen fueling stations for trucks and buses open in new regions	> Steel, fertilizer, and chemical industries integrate green hydrogen	> Large-scale hydrogen networks connect industrial zones
	> Commercial-scale electrolyzers begin operation	> Shipping and long-haul trucking begin hydrogen-fleet scaling	> Aviation and shipping widely adopt synthetic e-fuels made from captured CO2	