Things We Should be Doing to Build a Better Future

A List of 101 Things We Could Be Doing Right Now

(But Aren’t Because There is a Shortage of Bold Leadership)

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1. Moving agriculture to 24-hour operations using robotics and autonomous technology.

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2. Implementing digital twin technology in construction to accelerate design and management.

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3. Building multi-story vertical farms for urban crop production.

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4. Utilizing AI for driverless tractors and weed-zapping robots in farming.

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5. Implementing bio-connectivity for virtual hospitals and remote patient monitoring.

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6. Recognizing that every industry is becoming a software industry driven by technology.

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7. Shifting construction to offsite manufacturing and rapid onsite assembly.

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8. Applying 3D printing and new material science in construction.

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9. Adopting mass customization and build-to-demand in manufacturing.

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10. Utilizing intelligent robotics in manufacturing.

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11. Investing in drone tech, robotics, and advanced last-mile logistics for retail delivery.

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12. Transitioning automotive fleets to electric vehicles.

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13. Developing vehicles as connected, computer-like devices.

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14. Building distributed, connected energy hyper grids with renewables.

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15. Applying genomic medicine and pharmacogenetics to prevent illness.

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16. Using molecular cancer diagnostics for early identification.

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17. Implementing autonomy in vehicles and machinery across industries.

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18. Developing AI co-pilots specifically for accelerating complex scientific research and engineering design tasks.

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19. Investigating new materials science for breakthrough products.

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20. Developing bio-inspired and neuromorphic robotic systems for complex and dynamic environments.

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21. Engineering and deploying quantum sensor networks for breakthroughs in medical diagnostics, resource discovery, and fundamental physics research.

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22. Embedding chips and connectivity for hyperconnectivity in everything.

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23. Applying Manufacturing 2.0 principles for maximum agility and flexibility.

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24. Implementing contact-less payment technology in retail and other sectors.

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25. Building 5-star Green Star (or equivalent high-standard sustainable) buildings as costs become neutral.

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26. Adopting Additive/3D manufacturing.

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27. Preparing the workforce for roles controlling robots and using advanced technology.

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28. Utilizing sophisticated robotic technology for tasks like gentle harvesting.

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29. Implementing drone aerial technology for crop monitoring.

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30. Implementing AI-driven generative design and robotic fabrication for highly customized and resource-efficient construction.

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31. Developing local community hyper-grids based on renewables.

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32. Utilizing connected fleets for predictive maintenance and zero downtime.

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33. Implementing IoT for connected devices everywhere.

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34. Exploring neighborhood-level swarm intelligence for energy management.

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35. Developing real estate strategies that include urban vertical farms.

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36. Utilizing bio-connectivity for remote monitoring of senior patients at home.

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37. Integrating sophisticated technology (UI, compute, connectivity) into manufactured products.

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38. Accelerating education and training for robotics and advanced manufacturing.

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39. Researching acceleration of brain science and regenerative medicine.

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40. Exploring cellular agriculture for sustainable food production.

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41. Developing AI-based real-time food planning.

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42. Accelerating discovery in healthcare science.

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43. Underwriting insurance based on real-time analytics.

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44. Implementing AI for strategic purposes like streamlining workflow or fraud detection.

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45. Adopting robotics in industry for efficiency, safety, and AI opportunities.

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46. Implementing Augmented Reality applications in jobs and careers.

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47. Mapping the entire ocean floor with high-resolution technology.

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48. Developing sustainable deep-sea mining practices with minimal environmental impact.

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49. Expanding ocean observation systems for better understanding of climate change impacts and marine ecosystems.

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50. Investing in advanced desalination and water purification technologies powered by renewable energy.

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51. Scaling up production of sustainable and biodegradable plastics from renewable sources.

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52. Developing smart materials that can sense, respond, and adapt to their environment.

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53. Mainstreaming the use of nanotechnology for creating materials with novel properties (e.g., super strength, self-repair).

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54. Building fully autonomous, "lights-out" smart factories driven by AI and robotics.

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55. Accelerating research and deployment of viable fusion energy technologies.

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56. Developing and implementing large-scale carbon capture, utilization, and storage (CCUS) technologies.

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57. Creating advanced geothermal energy systems for baseload power generation.

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58. Building smart grids that integrate diverse energy sources and enable dynamic energy management.

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59. Investing in green hydrogen production and infrastructure as a clean energy carrier.

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60. Developing atmospheric water generation technologies for arid regions.

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61. Advancing gene editing technologies (like CRISPR) for curing genetic diseases.

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62. Developing personalized cancer vaccines based on individual tumor genomics.

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63. Creating brain-computer interfaces for medical rehabilitation and augmenting human capabilities.

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64. Engineering synthetic organs and tissues for transplantation.

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65. Utilizing AI for rapid discovery and development of new pharmaceuticals.

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66. Expanding research into the microbiome and its impact on health and disease.

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67. Implementing personalized nutrition plans based on genetic and biomarker data.

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68. Developing explainable AI (XAI) to ensure transparency and trust in AI decision-making.

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69. Investing in the development of Artificial General Intelligence (AGI) with robust safety protocols.

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70. Building practical and scalable quantum computers for solving complex problems.

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71. Creating neuromorphic computing architectures inspired by the human brain for efficiency.

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72. Implementing AI-driven predictive models for pandemic prevention and response.

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73. Developing advanced cybersecurity measures to protect against AI-driven threats.

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74. Establishing global frameworks for the ethical development and deployment of AI and other advanced technologies.

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75. Transitioning towards a circular economy model that minimizes waste and maximizes resource reuse.

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76. Developing fully autonomous public transportation systems in smart cities.

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77. Creating personalized and adaptive learning platforms powered by AI for lifelong education.

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78. Implementing digital identity systems that are secure, private, and user-controlled.

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79. Fostering the development of decentralized autonomous organizations (DAOs) for new forms of governance and collaboration.

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80. Building resilient and adaptive infrastructure to withstand climate change impacts.

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81. Using AI and big data to optimize urban planning and resource management in cities.

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82. Promoting digital literacy and critical thinking skills to navigate an increasingly complex information environment.

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83. Investing in mental health support systems leveraging technology for accessibility and personalization.

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84. Developing precision fermentation techniques for producing proteins and other food ingredients.

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85. Expanding regenerative agriculture practices to improve soil health and sequester carbon.

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86. Creating AI-powered systems for global food supply chain optimization and waste reduction.

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87. Researching and developing technologies for direct air capture of carbon dioxide.

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88. Exploring the potential of synthetic biology for environmental remediation (e.g., cleaning up pollution).

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89. Creating global seed banks with comprehensive genetic diversity for all plant species.

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90. Developing advanced weather modification technologies for drought mitigation and rainfall enhancement, with careful environmental consideration.

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91. Investing in citizen science platforms to democratize research and accelerate discovery.

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92. Creating immersive, shared virtual environments (the Metaverse) for work, education, and social interaction with robust ethical guidelines.

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93. Developing global early warning systems for natural disasters, powered by AI and comprehensive sensor networks.

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94. Fostering artistic and creative expression using AI as a collaborative tool.

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95. Implementing advanced urban sensor networks for real-time environmental monitoring (air, water, noise, biodiversity).

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96. Scaling up advanced wastewater treatment and recycling systems for industrial and municipal water reuse.

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97. Developing and deploying blockchain or distributed ledger technology for transparent and ethical global supply chains.

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98. Creating integrated smart home and assistive technology ecosystems to enhance independent living for aging populations and individuals with disabilities.

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99. Piloting and constructing underground logistics and delivery systems in dense urban centers.

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100. Developing and utilizing mycelium-based materials for sustainable packaging, construction, and textiles.

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101. Investing in technologies for efficient recycling and sustainable domestic sourcing of critical minerals and rare earth elements.

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