

# Select list of science and technology policies

United States, Japan, South Korea, Taiwan, Australia, Singapore and India

(Compiled under direction of the authors by Nachiket Javali, Asia Society Policy Institute)

**Criteria #1:** Only the following types of policies have been included: 1) Legislations passed by parliament 2) Policy announced by the national government 3) Blueprints published by national governments (e.g. Roadmap, Strategy, Framework, Vision)

**Criteria #2:** Only policies published by the following ministries have been included: 1) Foreign Affairs/External Affairs 2) Commerce, Trade or Industry 4) Home Affairs/Internal Affairs 5) Science, Technology, Innovation, Electronics, Information Technology 6) President/Prime Minister/Cabinet Office

**Criteria #3:** Only the United States and the following Asian countries have been included: 1) Japan 2) South Korea 3) Taiwan 4) Australia 5) Singapore 6) India

**Criteria #4:** Only policies announced after January 1, 2020.

**Criteria #5:** Only policies related to the following domains of science and technology have been included 1) Cybersecurity 2) Data, 3) Quantum 4) Biotechnology 5) Artificial Intelligence 6) Digital Economy/Trade 7) Electronics 6) Internet 7) Telecommunications 8) Supercomputing 9) Space/Geospatial 10) Robotics 11) Green, Climate, Sustainable, Energy

## United States of America

S.No.	Policy	Document	Year	Concerned Public Office
1.	IoT Cybersecurity Improvement <a href="#">Act</a> of 2020	<a href="#">Legislation</a>	<a href="#">2020</a>	<a href="#">National Institute of Standards and Technology</a> , Department of Commerce
2.	K-12 Cybersecurity <a href="#">Act</a> of 2021	<a href="#">Legislation</a>	<a href="#">2021</a>	<a href="#">Cybersecurity and Infrastructure Security Agency</a> , Department of Homeland Security
3.	Enterprise Data <a href="#">Strategy</a>	Strategy	2021	Department of State
4.	Geospatial Data <a href="#">Strategy</a>	Strategy	2021	Department of State
5.	National Cybersecurity Preparedness Consortium <a href="#">Act</a> of 2021	<a href="#">Legislation</a>	<a href="#">2022</a>	Department of Homeland Security
6.	State and Local Government Cybersecurity <a href="#">Act</a> of 2021	<a href="#">Legislation</a>	<a href="#">2022</a>	<a href="#">National Cybersecurity and Communications Integration Center</a> , Department of Homeland Security
7.	Chips and Science <a href="#">Act</a>	<a href="#">Legislation</a>	<a href="#">2022</a>	Department of <a href="#">Commerce</a>
8.	Commerce Data Ethics Framework	Framework	2022	Department of <a href="#">Commerce</a>
9.	AI Risk Management <a href="#">Framework</a>	Policy	2023	National Institute of Standards and Technology, Department of Commerce
10.	Enterprise AI <a href="#">Strategy</a>	Policy	2023	US Department of State
11.	United States International Cyberspace and Digital Policy <a href="#">Strategy</a>	Policy	2024	US Department of State
12.	<a href="#">Promoting the Use of Trustworthy Artificial Intelligence in the Federal Government</a>	Executive Order	2020	Executive Office of the President
13.	<a href="#">Ensuring Safe and Lawful E-Commerce for United States Consumers, Businesses, Government Supply Chains, and Intellectual Property Rights Holders</a>	Executive Order	2020	Executive Office of the President

14.	<a href="#">United States Space Priorities Framework</a>	Strategy		Executive Office of the President
15.	<a href="#">Executive Order on Improving the Nation's Cybersecurity</a>	Executive Order	2021	Executive Office of the President
16.	<a href="#">Executive Order on America's Supply Chains</a>	Executive Order	2021	Executive Office of the President
17.	<a href="#">Executive Order on Ensuring Responsible Development of Digital Assets</a>	Executive Order	2022	Executive Office of the President
18.	<a href="#">Executive Order on Advancing Biotechnology and Biomanufacturing Innovation for a Sustainable, Safe, and Secure American Bioeconomy</a>	Policy	2022	Executive Office of the President
19.	Blueprint for an AI Bill of <a href="#">Rights</a>	Strategy	2022	Office of Science and Technology Policy, Executive Office of the President
20.	National <a href="#">Cybersecurity</a> Strategy	Strategy	2023	Executive Office Of The President
21.	<a href="#">National Cyber Workforce &amp; Education Strategy</a>	Strategy	2023	Office Of The National Cyber Director, Executive Office Of The President
22.	<a href="#">Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence</a>	Executive Order	2023	Executive Office of the President

## JAPAN

<u>S.No.</u>	<u>Policy</u>	<u>Document</u>	<u>Year</u>	<u>Concerned Public Office</u>
23.	IoT Security Safety <a href="#">Framework</a> Ver1.0	Policy	N/A	Ministry of Economy, Trade and Industry
24.	Act on Improving Transparency and Fairness of Digital <a href="#">Platforms</a>	Legislation	2020	Ministry of <a href="#">Economy</a> , Trade and Industry
25.	<a href="#">Act on the Establishment of the Digital Agency</a>	Legislation	2021	Digital Agency, Ministry of Digital <a href="#">Transformation</a>
26.	<a href="#">Basic Act on the Formation of a Digital Society</a> *	Legislation	2021	Prime Minister's Office
27.	Data <a href="#">Management</a> Framework for Collaborative Data Utilization – A New Approach toward an Establishment of Trust in a Data-Driven Value Creation	Framework	2022	Ministry of Economy, Trade and Industry
28.	<a href="#">Act on Making Payments That Become Part of the National Revenue by the Method Using Information and Communications Technology</a>	Legislation	2022	Digital Agency, Ministry of Digital <a href="#">Transformation</a>

## SOUTH KOREA

<u>S. No.</u>	<u>Policy</u>	<u>Document</u>	<u>Year</u>	<u>Concerned Public Office</u>
29.	<a href="#">Enforcement</a> Decree Of The Framework Act On National Informatization	Legislation	2020	Ministry of Science and ICT
30.	<a href="#">Mobile Device Distribution Improvement Act</a>	Legislation	2020	Ministry of Science and ICT
31.	<a href="#">Framework Act On Intelligent Informatization</a>	Legislation	2020	Ministry of Science and ICT
32.	<a href="#">Korea Advanced Institute Of Science And Technology Act</a>	Legislation	2020	Ministry of Science and ICT
33.	<a href="#">National Research Foundation Of Korea Act</a>	Legislation	2021	Ministry of Science and ICT
34.	<a href="#">Framework Act On Electronic Documents And Transactions</a>	Legislation	2021	Ministry of Science and ICT
35.	<a href="#">Framework Act On Promotion Of Data Industry And Data Utilation</a>	Legislation	2021	Ministry of Science and ICT
36.	<a href="#">Special Act On Establishment Of And Support For International Science And Business Belt</a>	Legislation	2021	Ministry of Science and ICT

37.	<a href="#">Biotechnology Support Act</a>	Legislation	2021	Ministry of Science and ICT
38.	<a href="#">Special Act On The Promotion Of High-Tech Medical Complexes</a>	Legislation	2021	Ministry of Science and ICT
39.	<a href="#">Act On The Promotion And Management Of Non-Destructive Testing Technology</a>	Legislation	2021	Ministry of Science and ICT
40.	<a href="#">Radio Waves Act</a>	Legislation	2022	Ministry of Science and ICT
41.	<a href="#">Internet Multimedia Broadcasting Business Act</a>	Legislation	2022	Ministry of Science and ICT
42.	<a href="#">Framework Act On Intellectual Property</a>	Legislation	2022	Ministry of Science and ICT
43.	Basic <a href="#">Research</a> Promotion And Technology Development Support Act	Legislation	2022	Ministry of Science and ICT
44.	<a href="#">Internet Address Resources Act</a>	Legislation	2022	Ministry of Science and ICT
45.	<a href="#">Act On Promotion Of Technology Development For Coping With Climate Change</a>	Legislation	2022	Ministry of Science and ICT
46.	<a href="#">Act On The Protection Of Information And Communications Infrastructure</a>	Legislation	2022	Ministry of Science and ICT
47.	<a href="#">Act On Utilization And Fostering Of National Super-Computers</a>	Legislation	2022	Ministry of Science and ICT
48.	Special Act On The Fostering Of National Strategic Technology	Policy	<a href="#">2023</a>	Ministry of Science and ICT
49.	Strategic Roadmap For Artificial Intelligence And Advanced Biotechnology	Policy	<a href="#">2023</a>	Ministry of Science and ICT
50.	Framework Act On Science And Technology	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
51.	<a href="#">Three-Dimensional Printing Industry Promotion Act</a>	Legislation	2023	Ministry of Science and ICT
52.	<a href="#">Act On The Establishment, Operation And Fostering Of Government-Funded Science And Technology Research Institutes</a>	Legislation	2023	Ministry of Science and ICT
53.	Act On The Establishment, Operation And Fostering Of Government-Funded Science And Technology Research Institutes	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
54.	<a href="#">Act On The Establishment Of Safe Laboratory Environment</a>	Legislation	2023	Ministry of Science and ICT
55.	Brain Research Promotion Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
56.	Software Promotion Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
57.	Space Development Promotion Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
58.	National Research And Development Innovation Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
59.	Ulsan National Institute Of Science And Technology Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
60.	Nuclear Energy Promotion Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
61.	<a href="#">Digital Signature Act</a>	Legislation	2021	Ministry of Science and ICT
62.	<a href="#">Presidential Advisory Council On Science And Technology Act</a>	Legislation	2021	Ministry of Science and ICT
63.	Act On The Promotion Of Information Security Industry	Legislation	<a href="#">2023</a>	Ministry of Science and ICT

64.	Special Act On Promotion Of Information And Communications Technology And Vitalization Of Convergence Thereof	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
65.	Information And Communications Technology Industry Promotion Act	Legislation	<a href="#">2023</a>	Ministry of Science and ICT
66.	<a href="#">Act On The Development Of Cloud Computing And Protection Of Its Users</a>	Legislation	2022	Ministry of Science and ICT
67.	National <a href="#">Research</a> And Development Innovation Act	Legislation	2023	Ministry of Science and ICT
68.	Korea's National Quantum <a href="#">Strategy</a>	Policy	2023	Ministry of Science and ICT
69.	Ethical Principles For The <a href="#">Metaverse</a>	Policy	2023	Ministry of Science and ICT
70.	Digital Bill Of <a href="#">Rights</a>	Policy	2024	Ministry of Science and ICT
71.	<a href="#">Daegu Gyeongbuk Institute Of Science And Technology Act</a>	Legislation	2024	Ministry of Science and ICT
72.	National Strategic Technology Development Basic Plan	Policy	<a href="#">2024</a>	Ministry of Science and ICT
73.	<a href="#">Act On Promotion Of Information And Communications Network Utilization And Information Protection</a>	Legislation	2024	Ministry of Science and ICT
74.	Gwangju Institute Of Science And Technology Act	Legislation	<a href="#">2024</a>	Ministry of Science and ICT

## TAIWAN

S. No.	Policy	Document	Year	Concerned Public Office
75.	<a href="#">Organization</a> Act of the Administration for Cyber Security, Ministry of Digital Affairs	Legislation	2022	Ministry of Digital Affairs
76.	<a href="#">Act</a> for the Establishment of the National Institute of Cyber Security	Legislation	2022	Ministry of Digital Affairs
77.	<a href="#">Organization</a> Act of the Ministry of Digital Affairs	Legislation	2022	Ministry of Digital Affairs
78.	<a href="#">Organization Act of the Administration for Digital Industries, Ministry of Digital Affairs</a>	Legislation	2022	Ministry of Digital Affairs
79.	<a href="#">Electronic Signatures Act</a>	Legislation	2024	Ministry of Digital Affairs

## AUSTRALIA

S. No.	Policy	Document	Year	Concerned Public Office
80.	Australia's Cyber Security <a href="#">Strategy</a>	Strategy	2020	Department of Home Affairs
81.	Australian Security Intelligence Organization Amendment <a href="#">Act</a> 2020	Legislation	2020	Department of Home Affairs
82.	Technology Strategy <a href="#">2020</a>	Strategy	2020	Formerly Department of Immigration and Border Protection, now merged with Department of Home <a href="#">Affairs</a>
83.	Data <a href="#">Strategy</a> 2021-2024	Strategy	2021	Department of Industry, Science and Resources
84.	Industry Research and Development <a href="#">Amendment</a> (Industry Innovation and Science Australia) Act 2021	Legislation	2021	Department of Industry, Science and Resources
85.	Australia's International Cyber and Critical Technology Engagement <a href="#">Strategy</a> , 2021	Strategy	2021	Department of Foreign Affairs and Trade
86.	Security Legislation <a href="#">Amendment</a> (Critical Infrastructure) Act 2021	Legislation	2021	Department of Home Affairs

87.	Ransomware Action <a href="#">Plan</a>	Policy	2021	Department of Home Affairs
88.	Digital Trade <a href="#">Strategy</a>	Strategy	2022	Department of Foreign Affairs and Trade
89.	Security Legislation <a href="#">Amendment</a> (Critical Infrastructure Protection) Act 2022	Legislation	2022	Department of Home Affairs
90.	Critical Technologies <a href="#">Statement</a>	Policy	2023	Department of Industry, Science and Resources
91.	National Quantum <a href="#">Strategy</a>	Policy	<a href="#">2023</a>	Department of Industry, Science and Resources
92.	2023-2030 Australian Cyber Security <a href="#">Strategy</a>	Policy	2023	Department of Home Affairs
93.	National Robotics <a href="#">Strategy</a>	Strategy	2024	Department of Industry, Science and Resources
94.	National Battery <a href="#">Strategy</a>	Strategy	2024	Department of Industry, Science and Resources

## SINGAPORE

<u>S.No.</u>	<u>Policy</u>	<u>Document</u>	<u>Year</u>	<u>Concerned Public Office</u>
95.	Digital Government <a href="#">Blueprint</a>	Policy	2020	Ministry of Digital Development and Information
96.	An Act to amend the Personal Data <a href="#">Protection</a> Act 2012	Legislation	2020	Ministry of Digital Development and Information
97.	Singapore's Safer Cyberspace <a href="#">Masterplan</a> 2020	Policy	2020	<a href="#">Cybersecurity</a> Agency of Singapore, Ministry of Digital Development and Information
98.	Singapore Cybersecurity <a href="#">Strategy</a>	Policy	2021	<a href="#">Smart</a> Nation Singapore, Ministry of Digital Development and Information
99.	Online Criminal Harms <a href="#">Bill</a>	Legislation	2023	Ministry of Home Affairs
100.	Singapore's Digital Connectivity <a href="#">Blueprint</a>	Policy	2023	Ministry of <a href="#">Digital</a> Development and Information
101.	Digital Enterprise <a href="#">Blueprint</a> 2024	Policy	2024	Ministry of Digital Development and Information
102.	Singapore's National AI <a href="#">Strategy</a>	Strategy	2023	Ministry of Digital Development and Information (formerly Ministry of Communication and Information)

## INDIA

<u>S.No.</u>	<u>Policy</u>	<u>Document</u>	<u>Year</u>	<u>Concerned Public Office</u>
103.	National Geospatial <a href="#">Policy</a>	Policy	2022	Ministry of Science and Technology
104.	The Digital Personal Data Protection Act, <a href="#">2023</a>	Legislation	2023	Ministry of Electronics and Information Technology
105.	The Anusandhan National Research Foundation Act, <a href="#">2023</a>	Legislation	2023	Ministry of Science and Technology
106.	India AI <a href="#">Mission</a>	Policy	2024	Ministry of Electronics and Information Technology
107.	National Strategy on <a href="#">Blockchain</a>	Strategy	2021	Ministry Of Electronics & Information Technology
108.	National <a href="#">Data</a> Governance Framework Policy	Policy	2022	Ministry of Electronics and Information Technology

109.	National Deep Tech Startup <a href="#">Policy</a> (NDTSP)	Policy	2023	<a href="#">Office</a> of the Principal Scientific Adviser, Prime Minister's Office  Ministry of Electronics and Information Technology  Department of Biotechnology, Ministry of Science and Technology
110.	National Quantum <a href="#">Mission</a>	Policy	2023	Ministry of <a href="#">Science</a> and <a href="#">Technology</a>  Office of the Principal Scientific <a href="#">Adviser</a> , Prime Minister's Office
111.	E-Mobility R&D <a href="#">Roadmap</a>	Policy	2024	Office of the Principal Scientific Adviser, Prime Minister's Office