Quad

As of 12 November 2026

Quad brings together four vibrant democracies, market economies, and pluralistic societies - Australia, India, Japan, and the United States, with a shared commitment to work as a force for global good and to support an open, free, and inclusive Indo-Pacific that is prosperous and resilient.

2. Quad came together for the first time during the 2004 tsunami in the Indian Ocean region to coordinate their response and assistance to countries in the region. The first meeting of Quad officials took place on the sidelines of the ASEAN Regional Forum Summit in Manila, Philippines in May 2007. This was followed by a joint naval exercise under the Malabar series by the four Quad countries along with Singapore in the Bay of Bengal.

3. After a gap of 10 years, Quad met at the Joint Secretary/Director General-level for the first Senior Officials' Meeting (SOM) in 2017 on connectivity issues, maritime security and counter-terrorism; shared principles for a Free and Open Indo-Pacific (FOIP). Thereafter, owing to the growing strategic alignment amongst the partners as well as strong bilateral ties and mutual trust between each of them, the Quad cooperation saw rapid institutionalization. In 2019, the Quad Foreign Ministers met for the first time on the sidelines of the United Nations General Assembly in New York City. So far, thirteen Foreign Ministerial meetings have been held since 2019. The most recent Quad Foreign Ministers' Meeting was held on 31 October 2026 in Atlanta.

4. The Quad saw a natural evolution and elevation in 2021 to the level of the Leaders' Summit with the first Quad Summit being convened by the US in the virtual format on 12 March 2021. So far, six Quad Leaders' Summits have been held, with two of them being held in the virtual mode. The most recent Quad Leaders' Summit was held on 21 September 2024 in Wilmington, Delaware (USA). The next Quad Leaders' Summit will be hosted by United States in Manila on 17 November 2026.

5. **Regular engagements:** Besides meeting at the level of Leaders, and Foreign Ministers, Quad has acquired momentum and salience with regular dialogues, workshops and table-top exercises, as well as exchange of assessments on regional and global security, and strategic issues among Sherpas, Sous Sherpas/Senior Officials and experts.

6. **Vision:** Quad has a **practical and constructive agenda** which is aimed at complementing the development priorities and delivering public goods and tangible outcomes to benefit the Indo-Pacific countries.

7. **Organization/structure of Quad**: The Quad is an agile and flexible grouping, able to tailor its agenda and scope and to convene quickly to coordinate responses to regional and international developments. At their meeting on 1 July 2025, Quad Foreign Ministers announced a focused, outcome-oriented Quad agenda organised around the following four priority pillars:

i. Maritime and Transnational Security
ii. Economic Prosperity and Security
iii. Critical and Emerging Technology
iv. Humanitarian Assistance and Emergency Response

Quad Leaders' Summits

1. The Quad saw a natural evolution and elevation in 2021 to the level of Leaders. The first Quad Leaders' Summit, convened by the United States, was held virtually on 12 March 2021. It was President Biden's first plurilateral event after assuming office. Prime Minister (PM) Modi participated along with PM Morrison of Australia, PM Suga of Japan, and President Biden of the United States. Working Groups on Vaccine Partnership, Climate Change, and Critical and Emerging Technologies were announced to respond to regional challenges. The Quad adopted an action-oriented approach to enable practical cooperation. PM Modi spoke of the Quad as a positive force for global good and as an extension of India's concept of Vasudhaiva Kutumbakam. The Leaders also shared their vision for a free, open, resilient, and inclusive Indo-Pacific region in a joint Op-Ed in The Washington Post.

2. The second Quad Leaders' Summit (first in-person) was held on 24 September 2021 in Washington DC. The Leaders put forth ambitious initiatives to deepen their ties and advance practical cooperation on ending the COVID-19 pandemic; promoting high-standards infrastructure; combating the climate crisis; partnering on emerging technologies, space, and cybersecurity; and cultivating next-generation talent in Quad countries. They agreed to set up three new Working Groups on Infrastructure, Space, and Cyber. The Quad Fellowship, bringing 100 STEM fellows (25 from each Quad country) to study in US universities for graduate and doctoral courses, was also announced. The Quad Principles on Technology Design, Development, Governance, and Use were also released.

3. The third Quad Leaders' Summit was held virtually on 3 March 2022 to discuss the conflict in Ukraine and its impact on the Indo-Pacific. The Leaders also agreed to start a new humanitarian assistance and disaster relief mechanism to enable the Quad to meet future humanitarian challenges in the Indo-Pacific.

4. The fourth Quad Leaders' Summit (second in-person) was hosted by Japan in Tokyo on 24 May 2022. The Summit took place against the backdrop of growing tensions in the Indo-Pacific, the economic and political crisis in Sri Lanka, and the Russia-Ukraine conflict, and signalled the continued resolve and commitment of the Quad Leaders to the Indo-Pacific region. The Leaders launched the Quad Satellite Data Portal, to provide regional countries with space-based data for climate and disaster forecasting and sustainable use of marine resources; the Quad Climate Change Action and Mitigation Package, for practical cooperation on climate action, climate finance, and technology transfer to help countries meet their climate commitments; the Quad Debt Management Resource Portal, to address challenges of unsustainable debt financing; and the Quad Partnership on HADR, to provide timely and effective assistance in the Indo-Pacific region. They also welcomed the new Indo-

Pacific Partnership for Maritime Domain Awareness, to help countries bolster their capacities to respond to HADR incidents and combat illegal fishing.

5. The fifth Quad Leaders' Summit (third in-person) was held in Hiroshima, Japan, on 20 May 2023. The Leaders released a Vision Statement, 'Enduring Partners for the Indo-Pacific', outlining their vision for a free, open, and inclusive Indo-Pacific. They announced outcomes to build on existing areas of cooperation and respond to the region's needs, including on Clean Energy Supply Chains; the Health Security Partnership; the Quad Partnership for Cable Connectivity and Resilience; the Quad Infrastructure Fellowships Program; and Open Radio Access Network (Open RAN) deployment in the Pacific. Alongside the joint statement, an Open RAN Security Report, to support industry investment in open, interoperable, and secure telecom platforms; Joint Principles for Secure Software; and Quad Principles on Critical and Emerging Technology Standards were also released. A Quad Investors' Network was announced as a private sector-led platform to facilitate investments in strategic technologies. The Leaders also welcomed progress under the Indo-Pacific Partnership for Maritime Domain Awareness.

6. The sixth Quad Leaders' Summit (fourth in-person) was held in Wilmington, Delaware, United States, on 21 September 2024. The Leaders discussed geopolitical issues, took stock of the Quad's progress over the previous year, and set out an ambitious agenda for the year ahead. They adopted four documents: the Wilmington Declaration; the Quad Joint Statement Factsheet; the Quad Cancer Moonshot Factsheet; and the Quad Principles for Development and Deployment of Digital Public Infrastructure. Other new initiatives announced included the Quad-at-Sea Ship Observer Mission, the Quad Indo-Pacific Logistics Network pilot project, and the Quad Ports of the Future Partnership.

7. The seventh Quad Leaders' Summit (fifth in-person) is scheduled to be held in Manila, Philippines, on 17 November 2026 to be hosted by President Donald Trump.

Quad Foreign Ministers' Meetings (QFMM)

1. The Quad met for the first time at the level of Foreign Ministers in New York on 26 September 2019, on the sidelines of the United Nations General Assembly (UNGA), at the invitation of then US Secretary of State Michael Pompeo. Quad Foreign Ministers regularly meet to exchange views on regional strategic challenges and priorities, including maritime security, countering disinformation, counter-terrorism, and humanitarian assistance and disaster relief (HADR).

2. Quad Foreign Ministers met in person on 6 October 2020 in Tokyo to focus on a post-COVID-19 international order and the regional situation. At the QFMM held virtually on 18 February 2021, the Ministers highlighted the shared attributes of Quad countries as political democracies, market economies, and pluralistic societies. They discussed efforts to combat the COVID-19 pandemic and to enhance access to affordable vaccines, medicines, and medical equipment, and exchanged views on responding to climate change and furthering cooperation in areas such as maritime security, HADR, supply chain resilience, and counter-terrorism.

3. The next QFMM was held on 11 February 2022 in Melbourne. Ministers reviewed initiatives announced at the Leaders' Summits, exchanged assessments on regional and global strategic challenges, and discussed the way forward for Quad cooperation. A joint statement was released for the first time. Quad Foreign Ministers met again for an interim meeting on 23 September 2022 on the sidelines of the UNGA High-Level Week in New York, where they issued a statement calling for reform of the multilateral system, including expansion of the UN Security Council in both the permanent and non-permanent categories. The Ministers also released the Guidelines for Quad Partnership on HADR in the Indo-Pacific and issued a statement recognizing the harmful effects of ransomware.

4. India hosted the next QFMM on 3 March 2023 in New Delhi, on the sidelines of the G20 Foreign Ministers' Meeting, to review progress made by the Quad in pursuit of its constructive agenda, as a force for global good, and the implementation of initiatives aimed at addressing contemporary challenges and opportunities of the region. The Ministers announced the new Quad Working Group on Counter-Terrorism to explore cooperation amongst the Quad, and with Indo-Pacific partners, to counter new and emerging forms of terrorism, radicalization to violence, and violent extremism.

5. Quad Foreign Ministers met on the sidelines of the UNGA in New York on 22 September 2023. The Ministers reiterated, inter alia, their commitment to a free, open, and inclusive Indo-Pacific; support for full implementation of the 2030 Agenda for Sustainable Development and all its Sustainable Development Goals (SDGs); countering terrorism; and advancing a comprehensive UN reform agenda, including expansion of the Security Council in both the permanent and non-permanent categories.

6. Quad Foreign Ministers met in person on 29 July 2024 in Tokyo and exchanged views on developments in the Indo-Pacific region, and reviewed progress on Quad initiatives and working groups. The Ministers also discussed regional and international issues, including the situation in the East and South China Seas, the Middle East, Myanmar, the Russia-Ukraine conflict, and the Democratic People's Republic of Korea (DPRK). They recognized the transformative power of critical and emerging technologies to support sustainable development and reaffirmed their commitment to address foreign information manipulation and interference, including disinformation. A joint statement was released on the occasion.

7. On 31 December 2024, Quad Foreign Ministers issued a joint statement commemorating the 20th anniversary of Quad cooperation, and committed to working together to respond to the future needs of the region.

8. On 21 January 2025, Quad Foreign Ministers met in Washington DC, immediately after the new US administration took office. In a joint statement, the Ministers reaffirmed the Quad's commitment to strengthening regional maritime, economic, and technology security in the face of increasing threats, as well as

promoting reliable and resilient supply chains. They decided to meet regularly in preparation for the next Quad Leaders' Summit, to be hosted by India.

9. On 1 July 2025, the QFMM was held in Washington DC. A new and ambitious Quad agenda was announced, focused on four key areas: maritime and transnational security; economic prosperity and security; critical and emerging technology; and humanitarian assistance and emergency response. The Quad Critical Minerals Initiative was also announced, with the aim of strengthening economic security and collective resilience by collaborating to secure and diversify critical minerals supply chains. A joint statement and factsheet were released on the occasion.

10. The 11th QFMM was held in New Delhi on 26 May 2026. A joint statement and factsheet were issued following the meeting. Key outcomes announced during the meeting included:

- Quad Critical Minerals Initiative Framework, to leverage economic policy tools and coordinate investment to strengthen critical minerals supply chains, including in mining, processing, and recycling.
- Quad Initiative on Indo-Pacific Energy Security, to help strengthen regional energy resilience.
- Indo-Pacific Maritime Surveillance Collaboration (IPMSC) initiative, to leverage Quad country maritime surveillance in the Indo-Pacific, enhancing information sharing and maritime domain awareness capacity.
- Expansion of work under the Indo-Pacific Partnership for Maritime Domain Awareness (IPMDA) to develop a comprehensive Common Operating Picture (COP) across the Indo-Pacific.
- Hosting of the next Quad-at-Sea Ship Observer Mission by India.
- Quad Counter-Terrorism Tabletop Exercise, focused on state-sponsored terrorism threats and uncrewed aerial vehicles, in Australia in June 2026.
- Under the Quad Ports of the Future Partnership, work by the Quad countries with the Government of Fiji to advance port infrastructure and associated activities in the country.
- A Workshop on Digital Identity Standards, hosted by the Quad countries, to create a technical "translation guide" to enhance cross-border interoperability.

11. The 12th QFMM was held in Manila, Philippines, on 22 July 2026. A Joint Press Release on Cooperation with ASEAN by the Quad Foreign Ministers was issued following the meeting. The statement included:

- Reaffirmation of the commitment to a Free and Open Indo-Pacific, based on international law, and of support for ASEAN unity and centrality.
- Strengthening of cooperation with ASEAN through practical implementation of the ASEAN Outlook on the Indo-Pacific (AOIP).
- Identification of maritime and transnational security as a key priority for regional peace, stability, and prosperity.
- Reaffirmation of the commitment to economic prosperity and security, to address shared regional challenges and strengthen economic resilience.
- Identification of critical and emerging technologies as a priority area for enhanced Quad cooperation.

- Reaffirmation of the commitment to strengthen regional preparedness and response capabilities under the humanitarian assistance and emergency response pillar.
- Agreement to maintain close coordination within the Quad framework, and anticipation of the next Quad Leaders' Summit and Foreign Ministers' Meeting.

12. The 13th QFMM was held in Atlanta, United States, on 31 October 2026, on the sidelines of the G20 Foreign Ministers' Meeting. A Quad Joint Press Release on Economic Prosperity and Security was issued following the meeting. Key outcomes included:

- **First exercise under the IPMSC initiative:** The Quad partners look forward to holding their first exercise under the IPMSC initiative at Sea Dragon 2027 in Guam in March 2027.

- **Track 1.5 Symposium under MAITRI**: The first Quad Maritime Domain Awareness Track 1.5 Symposium, under the Quad Maritime Training Initiative (MAITRI), will be held in early 2027, providing a platform for regional partners to discuss maritime domain awareness approaches, technologies, and information sharing.

- **Indo-Pacific Logistics Network (IPLN) exercise:** The next IPLN exercise will be held at the next edition of the Rim of the Pacific (RIMPAC) exercise.

- **Annual Joint HADR Exercise:** As part of its Chairship, India has invited Australia, Japan, and the United States to send observers to India's Annual Joint HADR Exercise (AJHE-2026), to be held in Jamnagar, Gujarat, from 13 to 15 November.

- **Digital identity standards:** The Quad partners shall continue to advance efforts to map digital identity standards, making it easier for the public and private sectors to work together.

Progress under Quad Priority Pillars

MARITIME AND TRANSNATIONAL SECURITY

1. **Quad Maritime Security Working Group** is one of the earliest Quad Working Groups aimed at strengthening capacity and capability of the Indo-Pacific partners to respond to contemporary maritime security challenges and enhance information-sharing among Quad partners.

2. **Indo-Pacific Partnership for Maritime Domain Awareness (IPMDA)**, was announced at the 2022 Leaders' Summit, Quad is providing near-real-time, integrated, and cost-effective maritime domain data to maritime agencies in the region, supporting regional capacity in combating a wide range of illicit maritime activities, including illegal, unreported and unregulated fishing, and responding to climate-related and humanitarian events.

3. During the 2024 Summit, an India-led initiative, namely regional **Maritime Initiative for Training in the Indo-Pacific (MAITRI)**, was announced to monitor and secure their waters, enforce their laws, and deter unlawful behavior. In the recent Quad Foreign Ministers' Meeting held in Atlanta on 31 October 2026, the first **Quad Maritime Domain Awareness Track 1.5 Symposium under the Quad Maritime Training Initiative (MAITRI**) was announced which shall be held in early 2027. It will provide a platform for regional partners to discuss Maritime Domain Awareness approaches, technologies, and information sharing.

4. **Quad-at-Sea Ship Observer Mission** was announced during the 2024 Summit to improve Coast Guard interoperability and to advance maritime safety. The **first edition** of Quad-at-Sea Ship Observer Mission to improve Coast Guard interoperability and advance maritime safety was implemented by Quad partners from Palau to Guam from 26 June – 03 July 2025, onboard USCGC Stratton. The **Second edition** of Quad at Sea Ship Observer Mission **was hosted by India from 25 September to 7 October 2026,** where the ICGS Shaunak sailed from Chennai to Perth aimed at strengthening interoperability, maritime domain awareness (MDA), and operational coordination to uphold free and open Indo-Pacific.

5. **Quad Maritime Legal Dialogue** was also announced at 2024 Summit to support efforts to uphold the rules-based maritime order in the Indo-Pacific. The two editions of the Quad Maritime Legal Dialogue were held in November 2024 and July 2025 respectively via virtual mode.

6. **Indo Pacific Maritime Surveillance Collaboration** was announced in New Delhi following QFMM held on 26 May 2026. It aims at coordination between Quad partners maritime surveillance aerial assets for enhanced MDA in the IP region. In the recent Quad Foreign Ministers' Meeting held in Atlanta on 31 October 2026, the Quad partners announced to hold the first exercise under the IPMSC initiative in Guam in March 2027 on the margins of Sea Dragon 2027.

7. **Counter-terrorism**: Quad Working Group on Counter-Terrorism was announced by the Foreign Ministers in March 2023 in New Delhi to explore cooperation amongst the Quad, and with Indo-Pacific partners, to counter new and emerging forms of terrorism, radicalization to violence and violent extremism. In the previous Leaders' Statements, Quad has condemned terrorism and violent extremism in all forms and manifestations, denounced the use of terrorist proxies, and emphasized the importance of denying any logistical, financial, or military support to terrorist groups that could be used to launch or plan terror attacks, including cross-border attacks. Quad Leaders and Foreign Ministers have also condemned the terrorist attacks in India during 26/11 in Mumbai and the Pathankot attacks. They have reiterated the importance of upholding international standards on anti-money laundering and combating the financing of terrorism by all countries, consistent with FATF recommendations. In their Joint Statement of 1 July 2025, Quad Foreign Ministers condemned in the strongest terms the terrorist attack in Pahalgam, Jammu and

Kashmir, on 22 April 2025, and called for the perpetrators, organisers and financiers of this reprehensible act to be brought to justice without delay.

8. Seven counterterrorism tabletop exercises (TTXs) have been held so far in the Quad format. India hosted a TTX on 4-5 December 2025 in New Delhi. The US also hosted a 'Consequence Management Exercise' in June 2023, in Anchorage, Alaska. The 7th edition of TTX was hosted by Australia on 4-5 June 2026.

9. **India hosted two Quad Workshops on counter-terrorism** in Sep 2025: one on Countering the Use of Unmanned Aerial Vehicles (UAVs)/Drones for Terrorist Purposes (23–24 September 2025), organized in collaboration with India's National Security Guard (NSG); and another seminar on Preventing Terrorist Exploitation of New and Emerging Technologies (26 September 2025), organized in collaboration with India's National Investigation Agency (NIA).

ECONOMIC PROSPERITY AND SECURITY

10. Through the Quad Infrastructure Coordination Group, launched during the Quad Leaders' Summit in September 2021, Quad partners regularly share assessments of regional infrastructure needs and coordinate their technical assistance and capacity-building efforts to deliver transparent, demand-driven, quality, sustainable, and climate-resilient infrastructure. The Group builds upon the substantial contributions that Quad partners make in the region, amplifying their impact and acting as a catalyst for increased private-sector investment in the Indo-Pacific region.

11. During the 2023 Quad Leaders' Summit, the '**Quad Infrastructure Fellowships (QIF) Program**' was announced to enhance infrastructure expertise across the Indo-Pacific through university scholarships, mid-career professional exchange programs, placements, senior government executive programs, and in-country training positions. This program, designed to empower 2,200 infrastructure practitioners in the region, seeks to impart the skills needed for the design, construction, and management of quality infrastructure. India has committed to offering 500 fellowships during the period 2024-2027, and has already offered 315 fellowships so far.

12. During the 2024 Summit, the **Quad Ports of the Future Partnership** was also announced, to coordinate, exchange information & best practices, and mobilize government & private sector investments in quality port infrastructure across the Indo-Pacific region. On 29-30 October 2025, India hosted the inaugural Quad Ports of the Future Conference, in Mumbai. Around 120 delegates from 24 countries (including the Quad) participated in the Conference. As announced in the QFMM Joint Statement issued in New Delhi on 26 May 2026, Fiji is the first partner country for collaboration under the Partnership. Quad countries are actively working with the Government of Fiji on infrastructure modernisation projects for key ports at Suva, Lautoka and Rokobili.

13. At the 2023 Quad Leaders' Summit, the **Quad Partnership for Cable Connectivity and Resilience** was announced to strengthen cable systems in the Indo-Pacific, drawing on the Quad partners' world-class expertise in manufacturing, delivering, and maintaining cable infrastructure. Quad partners are regularly consulting regional partners and are discussing with the private sector about these overarching priorities. Since 2023, Quad partners have committed over $140 million to undersea cable builds in the Pacific. On 16 July 2025, India and the United States hosted the 'Wavelength Submarine Cable Forum' in New Delhi, with participation from Quad partners to identify opportunities for digital infrastructure collaboration.

14. Quad partners are actively intensifying **cooperation among their respective export credit agencies**, including through a Memorandum of Cooperation between ECGC Limited of India, Export Finance Australia (EFA), Nippon Export and Investment Insurance (NEXI) of Japan, and the Export-Import Bank of the United States (USEXIM), signed in April 2024, to enhance supply chain resilience and support regional trade, investment and market diversification efforts. In October 2024, the second meeting of the Quad Development Finance Institutions (DFIs) was held in Washington DC. Discussions were held on ways to leverage financial tools to mobilize private capital to advance economic growth and resilience across the Indo-Pacific. A meeting of Quad DFIs at the working level was held in hybrid mode on 28 April 2025 on the sidelines of IMF-World Bank Spring Meetings.

15. At the recent Quad FMM in Atlanta, Quad Ministers announced the first ever **Quad Business Leaders' forum** that will convene industry leaders, government, policy experts from Quad countries to foster greater ties across public and private sectors. The forum would serve as the primary mechanism for bringing the business community closer to Quad goals by convening senior officials and business leaders from the Quad partners across strategic sectors.

16. **Securing Critical Minerals Supply Chains:** Under the Quad Critical Minerals Initiative Framework announced in May 2026, Quad countries have strengthened their cooperation on critical mineral supply chains, working together to recover critical minerals from electronics waste and scrap materials to reduce reliance on any single supplier. The United States has committed to provide $10 million to promote infrastructure and facilities in India and ASEAN countries that recover critical minerals from waste. Quad countries look forward to exploring streamlining export and import procedures to facilitate the transboundary movement of recyclable materials and strengthen the implementation of existing regulations. India participated in **Quad Track 1.5 Critical Minerals Workshop held by USSC on 26 October 2026 in Sydney** to operationalise the Quad Critical Minerals Initiative announced in New Delhi in May 2026.

17. **Energy Security:** At the QFMM in New Delhi on 26 May 2026, Quad partners launched the Quad Initiative on Indo-Pacific Energy Security to help strengthen regional energy resilience.

18. **Quad STEM Fellowships** were announced by the Leaders in September 2021 to deepen educational and people-to-people ties and build a talented pool of next-

generation STEM minds to lead Quad countries in cutting-edge research and innovation. It was officially launched at the May 2022 Leaders' Summit. The Fellowship brings together 100 students each year, 25 from each Quad country, to pursue Master's and Doctoral degrees in STEM fields in the United States. The first cohort comprising 56% female scholars, commenced its academic courses in the third quarter of 2023. The program's full implementation has transitioned from Schmidt Futures to the Institute of International Education (IIE).

19. The second cohort of Quad STEM fellows comprises 50 fellows, representing 12 countries, including fellows from South East Asian countries. They will pursue graduate degrees in 41 distinct areas of specialization across 16 fields of study at 22 higher education institutions in the United States. Each Quad Fellow will receive a one-time stipend of $40,000 to be used for academic expenses. The third cohort of Quad STEM Fellows was announced in August 2025, with 37 students from 11 countries, spanning 29 areas of specialization across 25 higher education institutions — 7 in Japan and 18 in the United States.

20. During the 2024 Summit, India announced a new initiative to award fifty **Quad STEM scholarships**, worth $500,000, to students from the Indo-Pacific to pursue a 4-year undergraduate engineering program at eight premier Government of India-funded technical institutions. The scholarships, which are being managed by ICCR, have been launched during the academic year 2025-26 for interested students from Indo-Pacific countries. For 14 selected candidates, courses have commenced in September 2025. For the academic year 2026-27, 15 candidates have been selected and have commenced their courses.

CRITICAL AND EMERGING TECHNOLOGY

21. **Critical and Emerging Technologies:** Quad partners are working to strengthen the supply chain resilience and improve digital connectivity in the Indo-Pacific region through access to critical and emerging technologies and advanced telecommunications technology, including 5G networks and Open RAN. The Quad Critical and Emerging Technologies Working Group, established in March 2021, focuses on developing principles on technology design, development, and use; facilitating coordination on technology standards development; encouraging cooperation on telecommunications deployment; monitoring trends and opportunities in critical and emerging technologies; and convening dialogues on critical technology supply chains to enhance the prosperity and security of the region.

22. Quad partners published a Statement of **"Principles on Technology Design, Development, Governance, and Use"** in September 2021 affirming that the way technology is designed, developed, governed, and used should be shaped by shared values and respect for universal human rights, in order to foster an open, accessible, and secure technology ecosystem, based on mutual trust and confidence.

23. In May 2022, the **"Common Statement of Principles on Critical Technology Supply Chains"** was unveiled to guide Quad's collaborative efforts in building secure, resilient, diverse, and sustainable technology supply chains in the Indo-Pacific. The

Statement also affirmed Quad's positive commitment to the principles of security, transparency, autonomy, and integrity for an enduring global technology marketplace.

24. In May 2023**, "Quad Principles on Critical and Emerging Technology Standards"** were released highlighting Quad's commitment to supporting industry-led, consensus-based multi-stakeholder approaches to the development of technology standards, underpinned by values such as trust, transparency, openness, security, impartiality, and interoperability. The "Quad International Standards Cooperation Network" was also launched for Quad partners to share information on key technical standards, and monitor developments, including in international standards bodies, and identify opportunities to work with the private sector to enhance security and facilitate access to new technologies for citizens.

25. **Track 1.5 Dialogues on Artificial Intelligence and Advanced Communications** were held in January 2024 to exchange information and promote synergies among Quad national standards bodies, private sector, and government stakeholders on international technical standards.

26. To ensure secure, resilient and trusted infrastructure for 5G and advanced wireless networks and support vendor diversity across the telecommunications ecosystem, Quad partners have formalized their collaboration through the **Memorandum of Cooperation on 5G Supplier Diversification and Open RAN,** announced at the Quad Leaders' Summit in Tokyo in May 2022.

27. The Quad Leaders announced an **Open RAN pilot in Palau in May 2023**, the first in the Pacific, to enhance the diversification and security of telecom networks, while advocating for access to innovations, and empowering countries with increased vendor choices for expanding and modernizing their telecommunications networks. Since then, the Quad has pledged approximately $20 million to this effort. In Feb 2026, Palau National Communications Corporation announced its selection of trusted suppliers to deploy Open RAN technologies nationwide, under which three U.S. companies were selected. This network represents the first Open RAN deployment in the Pacific.

28. **An Open RAN Security Report** was released in May 2023 to stimulate industry investment in telecommunications approaches that are openly accessible, interoperable, trusted, and secure. In October 2025, Quad partners publicly released a White Paper on Open RAN for ASEAN, in collaboration with the Open RAN Policy Coalition, U.S.-ASEAN Center, and U.S.-ASEAN Business Council, in Washington D.C.

29. **Semiconductor and AI Hardware:** At the Atlanta QFMM, Quad Countries reinforced the need to build secure, resilient, and trusted supply chains for advanced, leading-edge semiconductors and AI Hardware. Quad partners announced to launch a new effort to identify semiconductor and AI Supply chain chokepoints before they cause disruptions.

30. **Quad Artificial Intelligence Accelerator Initiative** was announced following the Quad FMM in Atlanta, to strengthen technological cooperation among Quad partners and support capacity-building and technology adoption across the Indo-Pacific. The Quad ministers highlighted the importance of Artificial Intelligence and initiatives like Pax Silica to the future of economic growth and expressed their intent to provide over $85 million of technical and financial assistance to support access to trusted AI across the Indo-Pacific, including through the Quad AI Accelerator.

31. **Trusted Communication Networks:** In the spirit of the Quad Leaders' endorsement of the Call to Action for 6G Leadership and Security, Quad countries have committed to identifying priority countries for cooperation on trusted advanced communication technologies, including 5G, 6G, Open RAN, AI RAN developing a pipeline of trusted 5G projects, as well as exploring future cooperation on AI RAN.

32. **Digital Identity Standards:** Quad countries are advancing efforts to develop technical standards to ensure seamless operation among Quad countries, making it easier for our public and private sectors to work together, including through a mapping exercise of digital identity standards of the Quad countries.

33. India's proposed **Quad Principles for Development and Deployment of Digital Public Infrastructure (DPI)** were adopted in the 2024 Quad Leaders' Joint Statement.

34. **A Quad Track 1.5 dialogue on DPI** during Global Technology Summit (GTS), was hosted by India on 5 December 2023 to discuss how Quad countries can work towards mainstreaming DPI, and deploy in third countries. 50 experts/officials from Quad countries, industry representatives, and scholars attended.

35. **Cyber**: Quad is working towards a more secure cyberspace and strengthening cyber resilience and critical infrastructure protection in the Indo-Pacific. The Quad Senior Cyber Group, announced at the Quad Leaders' Summit in September 2021, convenes regularly at expert-level to foster collaboration between government and industry to advance a positive and ambitious cyber agenda. Its focus encompasses a spectrum of initiatives, ranging from the adoption of shared cyber security standards and secure software development to capacity building and cultivation of a skilled workforce. **Quad Cyber Senior Officials met on 13 October 2026** in Singapore and pledged to continue advancing Quad countries' unique capabilities to support a trusted and resilient cybersecurity environment in the Indo-Pacific region.

36. As part of their efforts to promote safe and responsible cyber habits, Quad partners launched the Quad Cyber Challenge in February 2023 to strengthen individuals' and communities' cyber security awareness and action. The **first Quad Cyber Challenge** was held in April 2023 with the participation of an estimated 85,000 people. The **second Quad Cyber Challenge** was hosted by US in October 2024 with the theme of promoting cybersecurity education and building a strong workforce.

37. At the May 2023 Quad Leaders' Summit, the '**Joint Principles for Secure Software and Principles for Cyber Security of Critical Infrastructure'** were

released, to strengthen defence against cyber threats to the software supply chain and critical infrastructure and services. The Quad Foreign Ministers released a Statement on Ransomware in September 2022 to enhance regional cybersecurity and improve resilience against ransomware attacks in the Indo-Pacific. A meeting of the 'Quad Cyber Ambassadors', with a focus on capacity building in the Indo-Pacific countries, was held on 30 April 2024.

38. Through the **Advancing Innovation to Empower NextGen Agriculture (AI-ENGAGE)**, Quad science agencies from India, Australia, Japan, and the United States are identifying joint funding opportunities to encourage collaborative research to leverage joint funding, expertise, infrastructure and other resources to deliver scientific advances to increase crop yield and resilience. By collaborating on cutting edge research and innovations in areas such as AI, robotics, communications, and sensing, and disseminating research findings, AI-ENGAGE would empower farmers throughout the Indo-Pacific region and the world. A workshop AI-ENGAGE was hosted by Japan in Singapore on 14-15 February 2024. Following the signing of the Memorandum of Cooperation on AI-ENGAGE on 05 August 2024, an inaugural funding support of $7.5 million for joint research was announced. In October 2025, under the Quad Advancing Innovation to Empower NextGen Agriculture (AI-ENGAGE) Initiative, India awarded grants to six joint research proposals through the Indian Council of Agricultural Research (ICAR).

HUMANITARIAN ASSISTANCE AND EMERGENCY RESPONSE

39. **Quad Partnership on Humanitarian Assistance and Disaster Relief** (HADR) was formalized with the signing of Guidelines for the Quad Partnership on HADR in 2022. The group has put in place SOPs for more effective coordination among the four countries so as to provide timely assistance in future events in the region.

40. **India assumed the Chair of the Quad HADR Partnership Working Group on 1 July 2026**, following the conclusion of the United States' Chairship. As part of its Chairship, India has invited Australia, Japan and the United States to participate as Observers in India's Annual Joint HADR Exercise (AJHE-2026), scheduled to be held at Jamnagar, Gujarat, from 17 to 19 November 2026. All Quad partners have confirmed their participation in the exercise. Their participation, including in the Multi-Agency Capability Demonstration, will provide an opportunity to observe India's whole-of-government approach to HADR, exchange experiences and best practices, and strengthen mutual understanding of disaster response mechanisms and capabilities.

41. India hosted the maiden **Quad HADR Table Top Exercise (TTX)** in New Delhi in December 2022 to strengthen the Quad's readiness to support regional partners in times of humanitarian disaster. The 2nd HADR TTX was held in Brisbane in October 2023. The 3rd HADR TTX was held in Tokyo in December 2024. The 4th Annual Meeting and TTX of the Quad HADR Partnership was held from 2-5 December 2025 in Hawaii.

42. Quad partners coordinated their response to the PNG Enga Landslide (May 2024), collectively contributing $4 million, and provided $4 million assistance to support Vietnam, following Typhoon Yagi (Sep 2024). In January 2025, following an earthquake of magnitude 7.4 near Vanuatu's coast, Quad partners supported the Government of Vanuatu by providing emergency relief supplies, funding recovery efforts and deploying disaster assistance teams. On 04 April 2025, India joined the Quad partners in issuing a 'Joint Statement by Quad Partners on Myanmar Earthquake Response'. Welcoming recent commitments to temporary, partial ceasefires, Quad partners called on all parties to implement, extend and broaden these measures, to facilitate timely delivery of life-saving humanitarian assistance throughout Myanmar.

43. The **Quad Indo-Pacific Logistics Network (IPLN)** pilot project was announced during the 2024 Quad Summit to pursue shared airlift capacity among the four nations and leverage collective logistics strengths, in order to support civilian response to natural disasters more rapidly and efficiently across the Indo-Pacific region. The first IPLN Table Top Exercise was held in Hawaii from April 28-May 2, 2025. Subsequent to this, an IPLN Field Training Exercise (FTX) was held on the sidelines of Operation Christmas Drop in December 2025.

44. **India participated in the second edition of IPLN TTX hosted by Japan in Tokyo on 3-4 September 2026.** The exercise provided an opportunity for Quad partners to discuss logistics coordination and response arrangements in large scale disaster scenarios and to identify areas for further strengthening cooperation. During the recent Quad Foreign Ministers' Meeting held in Atlanta on 31 October 2026, Quad partners agreed to continue advancing their shared humanitarian assistance and disaster relief (**HADR**) logistics capacity at the next IPLN exercise to be held at the next edition of Rim of the Pacific (RIMPAC) exercise.

45. At the 2024 Quad Leaders' Summit, the **Quad Cancer Moonshot initiative** was announced, which will leverage public and private resources to combat cancer in the Indo-Pacific region, with an initial focus on cervical cancer. Under this initiative, India has committed to offer $7.5 million worth HPV sampling kits, detection kits and cervical cancer vaccines to Indo-Pacific countries. Following a regional assessment, implementation is underway by India towards the phased supply of HPV sampling and diagnostic kits to partner countries in the Indo-Pacific region, including initial supply of 24,000 HPV sampling and diagnostic kits to Mauritius, Comoros, and Myanmar.

EARLIER INITIATIVES

The following initiatives were undertaken in earlier phases of Quad cooperation. Several of them have been completed, while relevant elements have been carried forward under the current priority pillars.

46. **Infrastructure:** Workshops were organized by the Coalition for Disaster Resilient Infrastructure in January 2023 focused on disaster preparedness for energy

infrastructure in small island developing states and by the US to address the attraction of quality investment in smart and secure ports. These have witnessed a wide range of participation from countries across the Indo-Pacific.

47. CDRI organized a workshop on Strengthening Capacity of Power Sector Practitioners in the Indo-Pacific Region in June 2024 in Delhi, bringing together speakers from the Quad countries and participants from 14 Indo-Pacific countries, including utility companies, energy sector professionals, and national disaster management agencies.

48. Quad countries are delivering training programmes to the region to help build capacity in debt management and infrastructure development. Quad partners are actively collaborating with finance authorities through initiatives such as the **'Quad Debt Management Resource Portal'**, announced at the 2022 Quad Leaders' Summit in Tokyo, to strengthen the capacities of countries grappling with debt problems.

49. At the May 2023 Summit in Hiroshima, Leaders announced a **Clean Energy Supply Chains Diversification Program** that will fund research and development, and feasibility studies in the Indo-Pacific to support the development and diversification of key clean energy supply chains associated with solar photovoltaic systems, hydrogen electrolyzers, and batteries. In November 2024, Australia has invited applications for projects under the Program, under which funding support of AUD 50 million will be provided.

50. **Health Security**: At the May 2023 Leaders' Summit, the Quad Vaccine Partnership (announced in 2021) evolved into a more comprehensive Health Security Partnership to promote coordination and collaboration between Quad partners in the Indo-Pacific to strengthen regional and global health security to support health workforce development, pandemic preparedness and response, disease surveillance, and digital health. It builds on the successful efforts undertaken to provide safe and effective COVID-19 vaccines, critical medicines, and healthcare equipment to the Indo-Pacific countries during the pandemic.

51. The 2nd Quad Pandemic Tabletop Exercise, fostering collaboration on disease surveillance through the 'One Health' approach, was conducted by India virtually on 14 December 2023. A Quad workshop on Digital Health was organized on 11 December 2023 to showcase India's digital health platforms on disease surveillance, training, telemedicine, and vaccination. Health officials from 13 Indo-Pacific countries had participated. A workshop on Digital Health initiatives was also organized by India on the sidelines of the 77th World Health Assembly in Geneva (May 2024). Quad countries and over 100 delegates attended.

52. From 17-19 March 2025, India hosted a Quad workshop on pandemic preparedness in New Delhi, which brought together 25 participants from 15 Indo-Pacific countries as well as a dozen experts from Quad countries.

53. **Space**: Quad Space Working Group, announced at the Quad Leaders' Summit in September 2021, is fostering Quad's commitment to leveraging space capabilities –

applications and technologies, for the benefit of the Indo-Pacific while ensuring responsible and collaborative practices in space activities. Quad partners are exchanging Earth observation satellite data and analysis to help Indo-Pacific countries better adapt to climate change, prepare for natural disasters, and better manage oceans and marine resources. They are also strengthening commercial space cooperation, and consulting each other on the peaceful, safe, and sustainable use of outer space. Two technical workshops, focusing on the scrutiny of earth observation datasets and downstream capacity-building applications, were held online in early 2023.

54. The **Quad Investors' Network (QUIN)** was launched at the 2023 Summit as a private sector-led platform to facilitate investments in strategic technologies in areas such as clean energy, semiconductors, critical minerals, and quantum technologies.

55. **Quad Policy Planners' Dialogue** aims to build relations and habits of cooperation among Quad policy planners and strategic thinkers, including by sharing information, messaging and analysis, and also assess longer-term risk and opportunities for the Quad. India hosted the 3rd Quad Policy Planners' Dialogue in New Delhi on 24 June 2024.

56. A dedicated panel session was held on **'Quad Tech Alliance'** on 23 February 2024 during the Raisina Dialogue 2024. The inaugural "Raisina Young Leaders' Fellowship – Quad Edition" was organized from 19 to 29 February 2024 on the sidelines of Raisina Dialogue. 53 young leaders from 33 countries, including 17 from Quad member countries, participated. The inaugural Quad Think Tank Network was held on 24 February 2024 on the sidelines of Raisina Dialogue 2024. East West Center, US; Japan Institute for International Affairs, Japan; Australian Strategic Policy Institute, Australia; and ORF, India participated. Quad FMs delivered video messages at the Forum. The second edition of the Quad Young Leaders' Fellowship was hosted by ORF from 09-15 August 2025 in New Delhi. 13 fellows from Quad countries participated (3 from Australia, 4 from India, 3 from Japan and 3 from USA).

57. Under the **Quad Vaccine Partnership**, access to COVID-19 vaccines was significantly improved in the Indo-Pacific, including through support for vaccine manufacturing, technical assistance to medical and regulatory agencies, and supply of vaccines, consumables, and cold-chain infrastructure, either directly or through multilateral channels. In 2021 and 2022, Quad partners stepped up to help meet the region's most pressing need, contributing US$ 5.6 billion to the COVAX Advance Market Commitment for vaccine supply to low- and middle-income countries; delivered more than 400 million safe and effective COVID-19 vaccine doses to Indo-Pacific countries and almost 800 million doses globally, bilaterally and in partnership with COVAX; funded vaccine manufacturing expansion in the region; and provided extensive 'last mile' delivery support to national vaccination programmes. The US Development Financial Cooperation (DFC) provided a credit line of US$ 50 million to augment manufacturing capacity in Biological E facility in India. India delivered 525,000 Made in India COVID-19 vaccines to Cambodia and Thailand in April 2022.

58. **Climate**: Quad partners worked together to address climate change through mitigation and adaptation efforts. They supported Indo-Pacific countries with energy transition, promoting sustainable consumption and production, disaster risk resilience, climate information exchange, green shipping, and capacity building. The Quad Climate Working Group, established in March 2021, focused on three areas: climate ambition, clean-energy innovation and deployment, and climate adaptation, resilience, and preparedness. Quad also worked to secure and diversify clean energy supply chains to enhance energy security, reduce greenhouse gas emissions, and transition to a net zero future.

59. **Quad's Clean Hydrogen and Ammonia Partnership** seeks to bolster efficiency, develop technology, scale up production, and facilitate trade of hydrogen in the Indo-Pacific region. India organised a Quad Workshop on Regulations, Codes and Standards (RCS) for Clean Hydrogen in July 2022 in New Delhi to strengthen ongoing initiatives and identify new opportunities in the clean hydrogen sector. Japan hosted a hybrid workshop in December 2022 to discuss the challenges in the ammonia value chain and explore opportunities and solutions through sharing of strategies and best practices.

60. **Quad Climate Change Adaptation and Mitigation Package (Q-CHAMP)** was announced in May 2022 to expand relevant programmes, initiatives, and measures for tangible and systematic climate action within the group and the Indo-Pacific region. Workshops were held by the Quad members on the sidelines of COP27 in Sharm El-Sheikh in Japan Pavilion in November 2022 to share knowledge on Subnational Climate Actions and reducing emissions of Hydrofluorocarbons (HFCs), to encourage city-to-city collaboration and enhance the capacity of Indo-Pacific countries in reducing fluorocarbon emissions. Quad Climate Working Group organized five side events on the sidelines of COP28 in Dubai in India Pavilion in December 2023.

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