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CS-3

By 2047, India could become a knowledge economy powered by cutting edge research. Do you agree? Comment.

India is set to enter the Next Kaval 2047 as a knowledge superpower with cutting edge technologies. India is all set to achieve this key target.

### A knowledge economy

① Chip design - To improve the memory system architecture India has formulated, Design linked incentive scheme. The recent 5G auction would support the scheme.

② Quantum tech - India aspires to be a quantum hub, 8000 crore has been allocated under the National Quantum computing mission. The PM-STIAC has launched Quantum frontiers mission to increase adoption of quantum tech.

③ Drones - The budget announced Drone Shakti offering Drugs - Drones as a service. 120 crore has been allocated under PfISchema

④ Space - India tested the HSTDV - hyper sonic technologies. This would help produce hypersonic missiles. The Cragaryan mission is preparing to be launched.

⑤ Startups - Number of startups increased by 15,000% in 6 years. Startups are supported by fund of funds for startups and startup India seed fund.

⑥ Energy - The first Ocean thermal energy conversion (OTEC) plant is commissioned at Kavaratti high yields.

⑦ Agriculture - ICAR has developed many varieties of tomatoes, mango, etc. The rain used required is recent benchmark.

Challenges R&D spending must be increased to 3% of GDP from 0.7% of GDP with private contribution to be raised.

Women participation has been on the rise by schemes such as Setb POWER. India can become global hub for cutting edge technology by 2047, with proper implementation of schemes.