

## Weekly Data Bytes

### **PM Modi Highlights Technology and Innovation as Pillars of India–New Zealand Partnership**



- Prime Minister Narendra Modi has emphasised technology, innovation and digital transformation as central pillars of the evolving relationship between India and New Zealand, calling for stronger collaboration in emerging technologies, research, artificial intelligence and space sciences during his visit to Auckland.
- Addressing members of the Indian diaspora, Modi said both nations possess complementary strengths that can be leveraged to build a future oriented strategic partnership. He noted that cooperation in advanced technologies would not only strengthen bilateral relations but also contribute to economic growth, innovation and global competitiveness.

## **India's IT Must Become AI as a Service, Says Vaishnaw; Hyderabad to Lead the Charge**



- **India's technology landscape is poised for a strategic transformation as Union Minister Ashwini Vaishnaw urged the country's IT industry to pivot from a traditional software-services model to "AI as a Service", leveraging India's global trust, deep talent pool and growing semiconductor and electronics capabilities.**



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**New launches, greater local languages support, real time language translation: Ravi Kunwar on HMD's future for India**



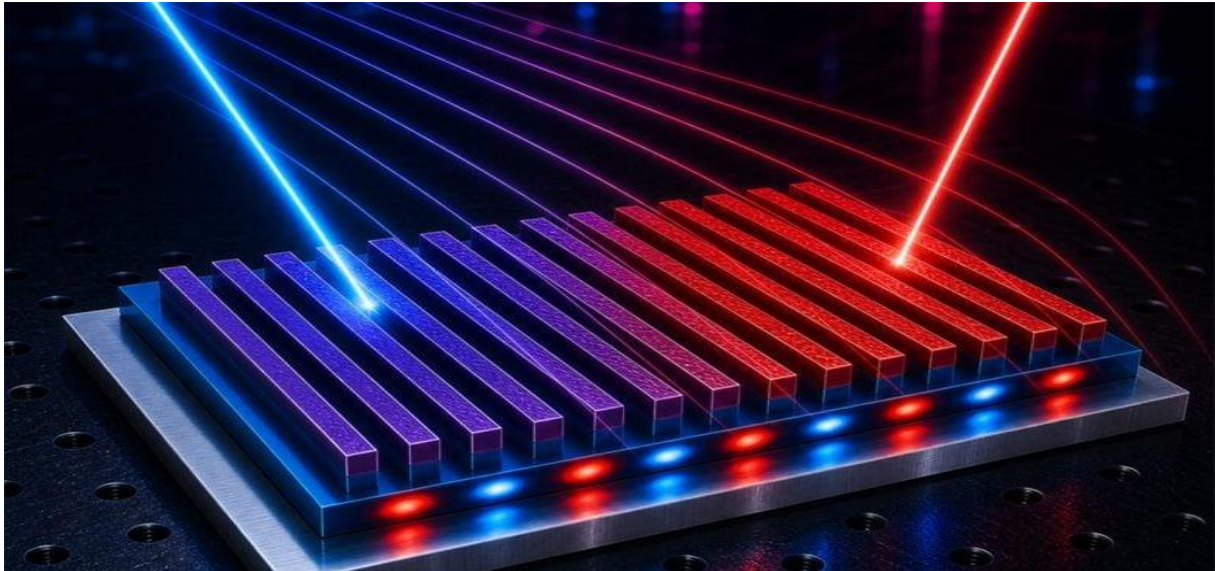
- The smartphone market has changed drastically in the past couple of years. From focusing on brighter displays, bigger and better cameras and a bigger battery life to focusing on-device AI and AI-based camera features, the market has evolved significantly in the past couple of years. This change in demand has not only intensified the competition in the smartphone market in India but it has also driven up the device prices in the country. At a time when most smartphone companies are focusing on packing their smartphones with top-class hardware and AI-powered features and global experiences to Indian buyers, HMD Global and its brand Nokia are doing something different - they are introducing features and experiences that are central to masses in India.

## Look ma, no magnets: How an Indian startup is using software to break China's rare earth monopoly



- The fuel tank and the engine are the most critical components in any internal combustion engine vehicle. In a modern electric vehicle (EV), these are replaced by a battery and a motor. The motor, paired with its control inverter, is literally where the rubber meets the road. It directly impacts efficiency, torque, acceleration, and—critically—how much range a vehicle can squeeze out of its battery. Historically, high-performance EV motors have relied heavily on permanent magnets.

## New Smart Material Can Control Heat Like a Computer Chip



- Heat normally follows strict rules. A material that efficiently absorbs heat from a particular direction and wavelength will also emit heat the same way. This fundamental principle, known as reciprocity, has long prevented scientists from independently controlling how heat is absorbed and released.
- Breaking that link could unlock an entirely new class of technologies. If materials could absorb heat from one direction while emitting it in another, engineers could steer thermal energy with unprecedented precision, leading to advances in thermal management, energy conversion, infrared sensing, and thermal communication.

Source: <https://scitechdaily.com/new-smart-material-can-control-heat-like-a-computer-chip/>