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Juno makes fifth flyby over Jupiter's mysterious clouds

After its launch in August 2011, NASA's space probe Juno entered Jupiter's polar orbit in July 2016, thus commencing its 20-month investigation of the planet.

Juno has, ever since, been beaming back some amazing data on the planet as well as giving space enthusiasts spectacular visual treats from time to time.

With many turning points dotting its 10-month journey in Jupiter's orbit, Juno is all set for another important manoeuvre.

Juno made its fifth science flyby over Jupiter's mysterious cloud tops on Friday, May 19, 11.35am (IST).

According to NASA, at the time of perijove (defined as the point in Juno's orbit when it is closest to the planet's centre), the spacecraft will have logged 102 million kms in

EXPLORING JUPITER

■ NASA's space probe Juno entered Jupiter's orbit in July 2016, thus beginning its 20-month investigation of the planet.

■ During the flybys, Juno is probing beneath the obscuring cloud cover of Jupiter and studying its auroras.



Juno orbits Jupiter — NASA

Jupiter's orbit and will be about 3,500 kms above the planet's cloud tops.

During its mission of exploration, Juno soars low over the planet's cloud tops — as close as about 3,400 kms. During these flybys, Juno is probing beneath the obscuring cloud cover of Jupiter and studying its auroras to learn more about the planet's origins, structure, atmosphere and magnetosphere.

— Reuters

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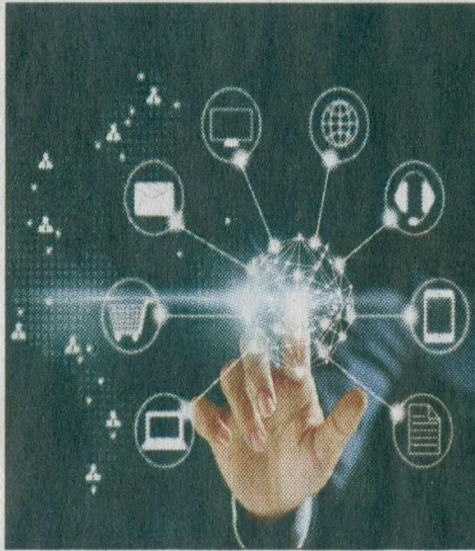
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Technology disruption moves East

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At an occasion, I met many innovators from across the world. What struck me was how the successful innovators were focused on solving real life problems rooted in the local context. Some technologies like gene editing will have global impact, but most efforts will have to apply to ground realities that vary across regions.

This definition of disruption is important because investment in new ideas can't be seen only from the Western perspective. Thankfully, the world of (disruptive) entrepreneurship is as lively in the east as in the west. Some still believe that the epicenter of technology-led innovation is the Silicon Valley. The big five digital giants – Google, Amazon, Apple, Facebook and Microsoft – were born there. This may have been the recent past, but



may not be the near future.

Innovation and disruption is taking place in nearly every region of the world. Africa, Latin America, China and India boast of their own efforts of change that don't have much to do with Silicon Valley. The fact is that while Silicon Valley will remain a force for a while, many new cen-

tres of technology-led disruption are emerging swiftly. The disruption and business solutions that they create, may not amount to much from the developed world perspective. But for the regions that they live in, they are making transformative changes. M-Pesa in Africa, robots in China and digital commerce in India are allowing people to move from tech illiteracy to being tech savvy within months.

In these developing regions, disruption is creation, not destruction. Estimates suggest that more than \$14 billion has been invested in Indian start-ups in the last two years. These start-ups are entering undeserved sectors, or creating services that didn't exist before.

In these regions, there is lesser of a dilemma of disruption than in the West.