

Discuss the various strategies that are required to boost the nascent Indian Deep Tech ecosystem (200 words)

The Deep Tech startups arise from research-based, disruptive innovations from STEM labs of academic research institutions and solve hard problems and challenges.

Deep Tech Startup works in domain of Artificial Intelligence/Machine Learning, Internet of Things, Block Chain, Big Data, Virtual Reality, Robotics, Semiconductors etc

eg: Microsoft, Google, Apple, Tesla, SpaceX, Moderna.

India's Deep-tech Status

↳ Deep Tech accounts for 1% of total startups.

U.P.S.C.

Need to have deep-tech start-ups

- ① Address complex socio-economic challenges
- ② Address the UN's Sustainable Development Goals.
- ③ It will address India's population asymmetrical technological have and have-nots

Challenges

- ① longer gestation period than other start-ups, no investment problem
- ② It requires more capital specialised talent and expert knowledge
- ③ More risk of failure at every stage
- ④ Less venture capital funds in India
- ⑤ Less infrastructure, and academic researchers lag in their potential.

Steps taken by India

- ① Start up India Platform was launched in 2016 to encourage investors in this direction

- (2) State level specific policies to attract capital
- (3) Govt PLI scheme to estb semiconduct
ctor industry in this direction

Other steps to support start ups

- ↳ Govt must direct part of CSR funds in this direction
- ↳ Ask and encourage enterprises start initiative using CSR funds.
- ↳ High Net worth incomes tax reduced if they invest in deep tech.
- ↳ Encourage academics to work in these direction

Thus, govt must align CSR funds, and right tax initiative to fund deep tech initiative to leverage Atma Nirbhar Bharat full potential.