



Exoskeleton Technology

Source: PIB

Bengaluru hosted the inaugural international workshop on '**Emerging Technologies & Challenges for Exoskeleton**' organised by **the [Defence Research & Development Organisation \(DRDO\)](#)** on 15th April 2024.

- Exoskeletons are **wearable devices** designed to **facilitate fundamental human actions** and used in a diverse range of fields such as **Medical, Military, Rescue, operations, Industrial and Consumer uses**.
 - In the medical field, these are used in **occupational therapy, augmentation and rehabilitation medicine** to help people who have suffered some kind of accident and need to walk or function normally again.
 - **Paediatric exoskeletons** are designed for children with mobility problems, such as those affected by spinal muscular atrophy (SMA), Spinal cord injuries, Cerebral palsy, Muscle atrophy and Muscular dystrophy.
- There are numerous **industrial applications**, including assisting workers who undertake repetitive tasks such as paint spraying, welding, assembly line material handling etc.
- Exoskeletons are used in the **military**, as they help to reduce the physical burden on soldiers, and augment their strength for walking long distances.
- They can be used to help pre-fighters and other **rescue** workers survive dangerous environments.

Read More: [Policy Watch: Robotics and Automation in India](#)

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