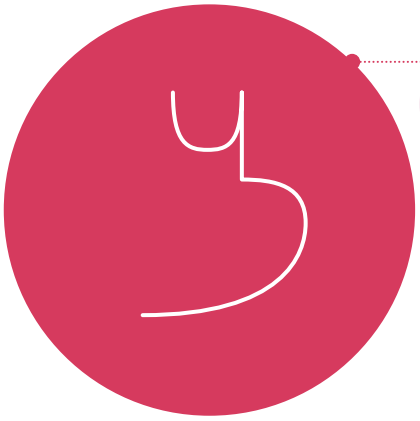
Emerging mobility assistive technology

4,526

patent families for emerging mobility assistive technology filed across **41 patent offices**

What technologies are involved?



Advanced prosthetics
1,993 (43%)

Advanced walking aids
963 (21%)

Advanced wheelchairs
859 (19%)

Exoskeletons
846 (19%)

> Benefiting from the use of advanced sensors, artificial intelligence and other enabling technologies, conventional mobility technologies have evolved to become smart, intuitive and more reliable.

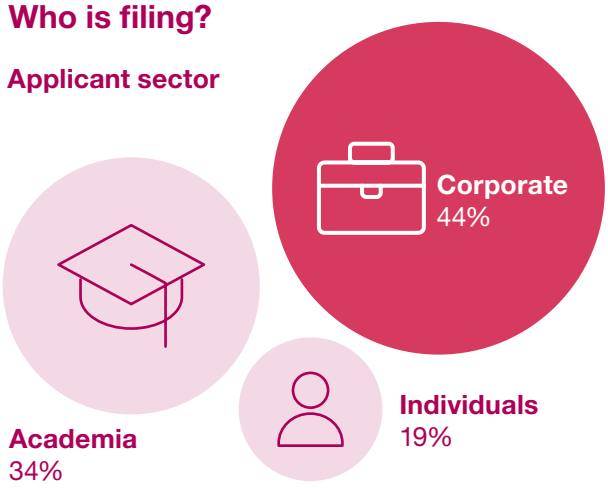
Which are the fastest growing technologies?

Filings related to **advanced wheelchairs** saw an average annual growth rate of **34%** from 2013 to 2017

Advanced prosthetics and **exoskeletons** each saw filings increase by an average of **24%,** and the sub-category of **3D printed prosthetics/orthotics** (advanced prosthetics) saw a growth rate of **89%** between 2013 and 2017

Who is filing?

Applicant sector



Top patent applicants

Toyota (Japan)	62
Honda (Japan)	52
Tsinghua University (China)	47
Samsung (Republic of Korea)	46
Shanghai Jiao Tong University (China)	40

Mobility is the area with the highest contribution of academia in the emerging assistive technology