



Emerging environment assistive technology

1,157

patent families for emerging environment assistive technology filed across **34 patent offices**

What technologies are involved?



Smart homes
504 (44%)



Assistive robots
439 (38%)



Smart cities
273 (24%)

Recent growth has been primarily driven by **China-based inventors**, who accounted for 50% of the patent documents filed since 2013.

Emerging environment assistive technology includes inventions that use advanced or enabling technology (including advanced sensors and Internet of Things, artificial intelligence and advanced robotics) to assist users at home or in public spaces. These enabling technologies allow for reliable and efficient solutions in established smart home and city concepts.

Which are the fastest growing technologies?

Environment is the **fastest growing domain** within the **emerging assistive technology space** with an average annual growth rate (AAGR) of **42%** between 2013 and 2017

Strong growth was recorded for **companion robots** with **55% AAGR** and for **vertical movement technologies** with **52% AAGR** between 2013 and 2017

Who is filing?

Applicant sector



Academia
23%



Corporate
54%



Individuals
21%

Top patent applicants

Panasonic (Japan)	19
Toyota (Japan)	15
Chongqing Youbanjia Technology (China)	12
Sony (Japan)	11
Ningbo Jingjie International Logistics (China)	11