



Emerging hearing assistive technology

4,968

patent families for emerging hearing assistive technology filed across **40 patent offices**

What technologies are involved?



Cochlear implants
2,266 (46%)

Non-invasive bone conduction
1,774 (36%)

Advanced hearing aids
90 (2%)

Gesture to voice and text
500 (10%)

Automated lip reading
44 (1%)

Middle ear implants
242 (5%)

Auditory brainstem implants (ABI)
35 (1%)

Ossicular replacement implants and prosthetics
145 (3%)

Cartilage conduction
34 (1%)

“ The domain of emerging hearing assistive technology is dominated by corporate players, whose interest lies mainly in cochlear implants and non-invasive bone conduction

Which are the fastest growing technologies?

Patent filings in **non-invasive bone conduction** saw an average annual growth rate of **31%** between 2013 and 2017

Gesture (sign language) to voice and text marked **24%** growth on average between 2013 and 2017

Who is filing?

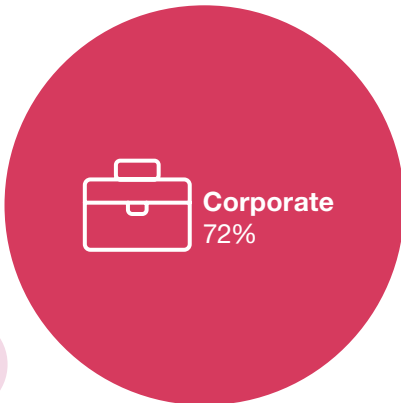
Applicant sector



Academia
13%



Individuals
13%



Corporate
72%

Top patent applicants

Cochlear (Australia)	507
Sonova (Switzerland)	494
MED-EL (Austria)	236
Novartis (Switzerland)	79
Zhejiang Nurotron Nerve Electronic Tech (China)	69