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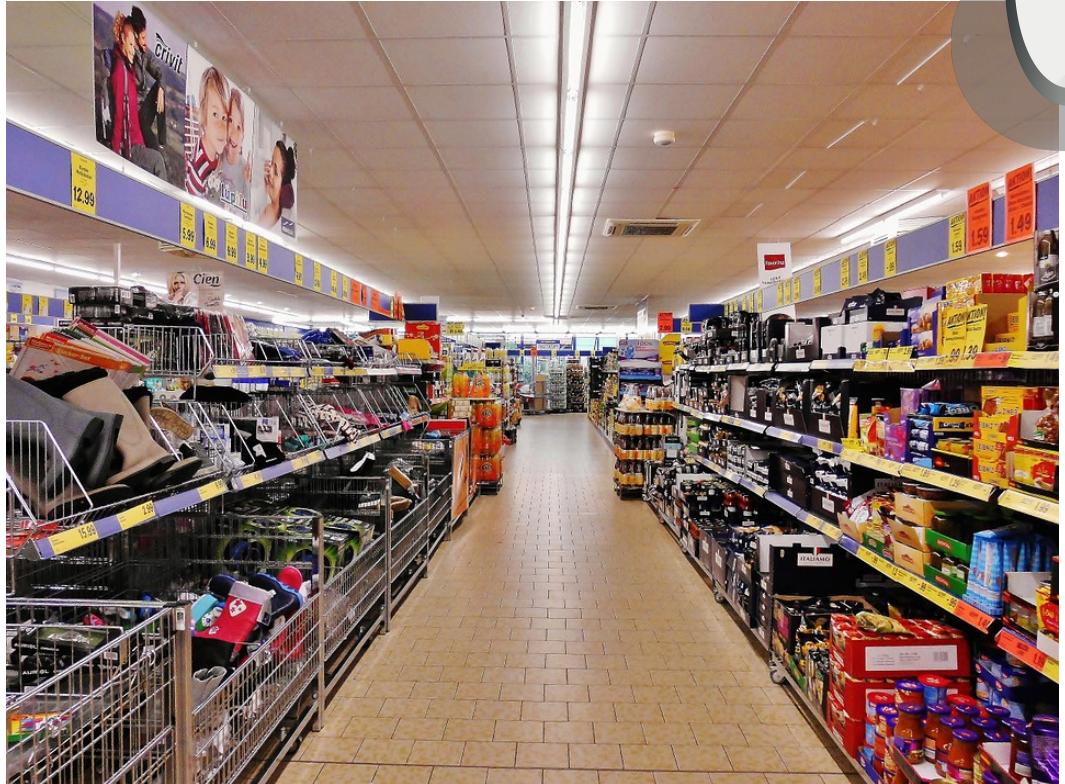
Problem
Solution
Principium
Implementation

Traditional Audio Speakers

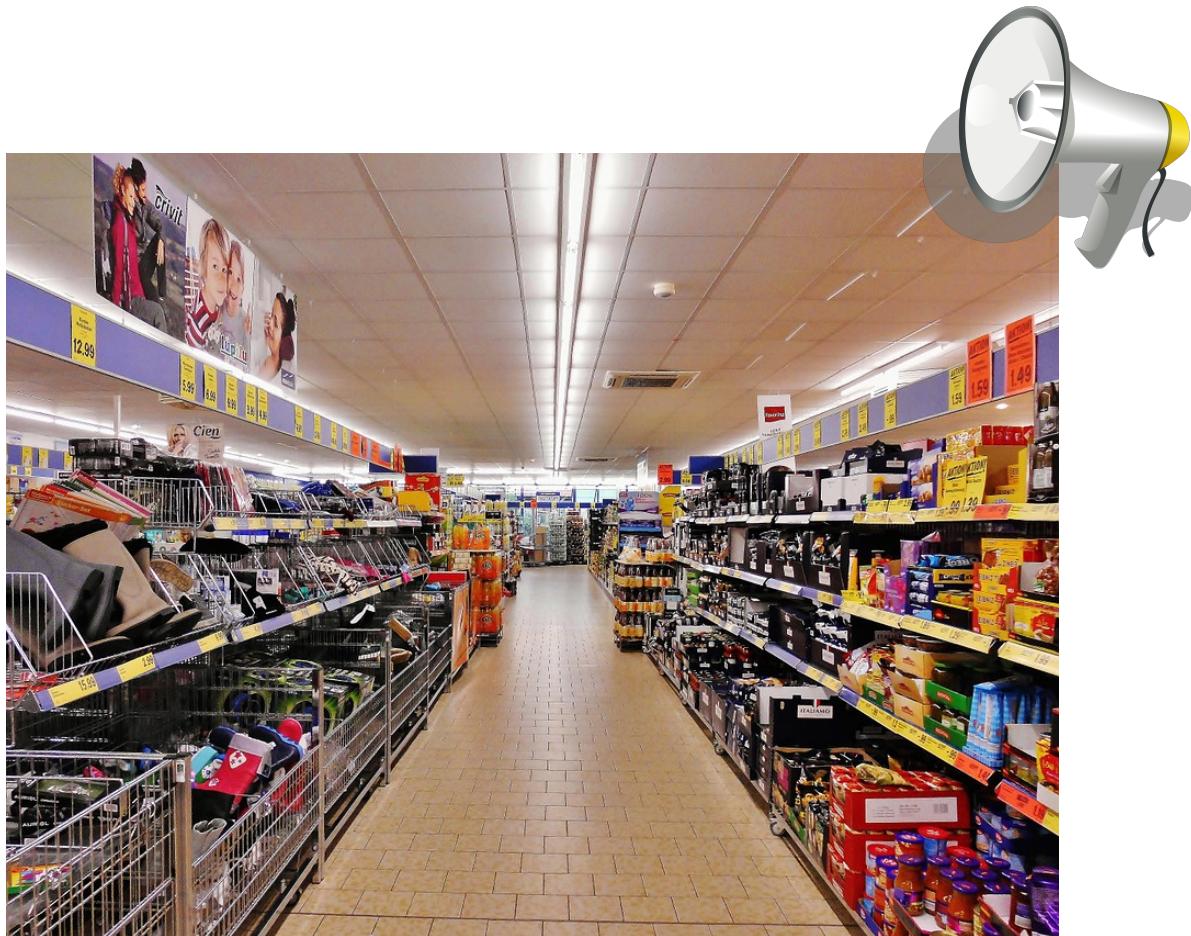


Problem
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Traditional Audio Speakers



Traditional Audio Speakers



Drawbacks of Traditional Audio Speaker



Broadcast private messages



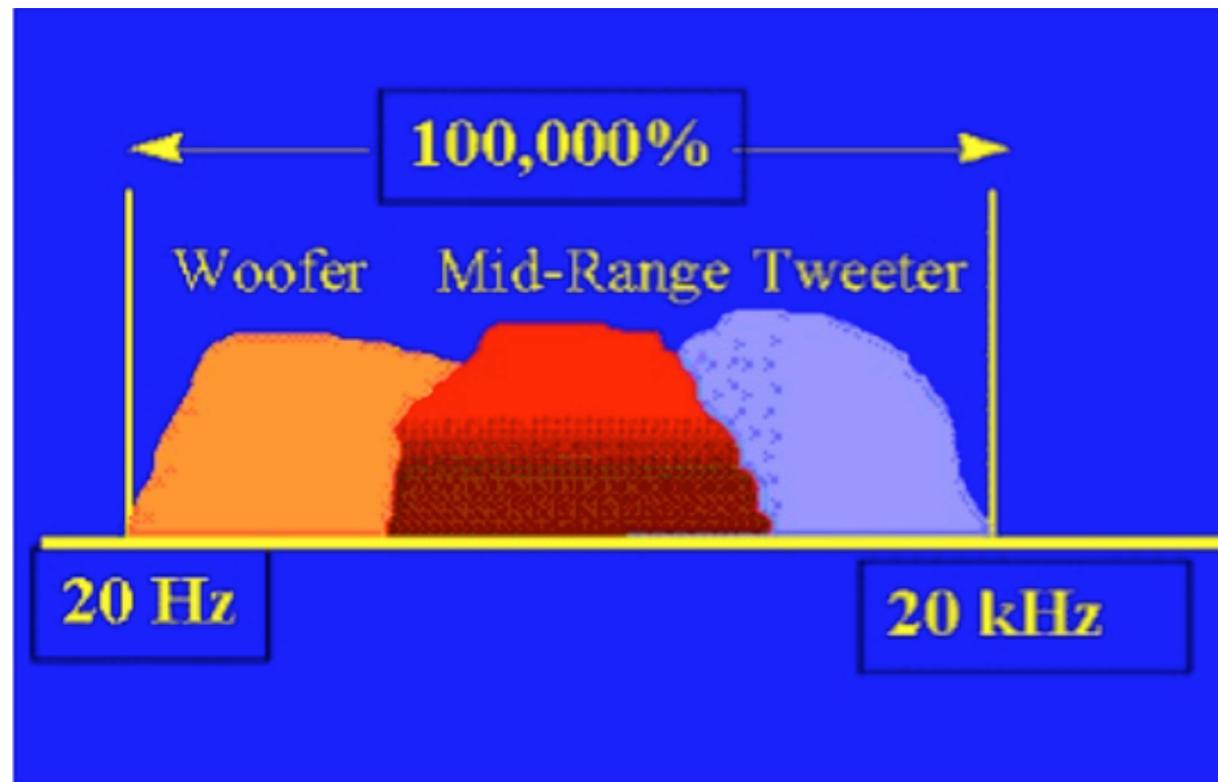
Annoy unrelated people





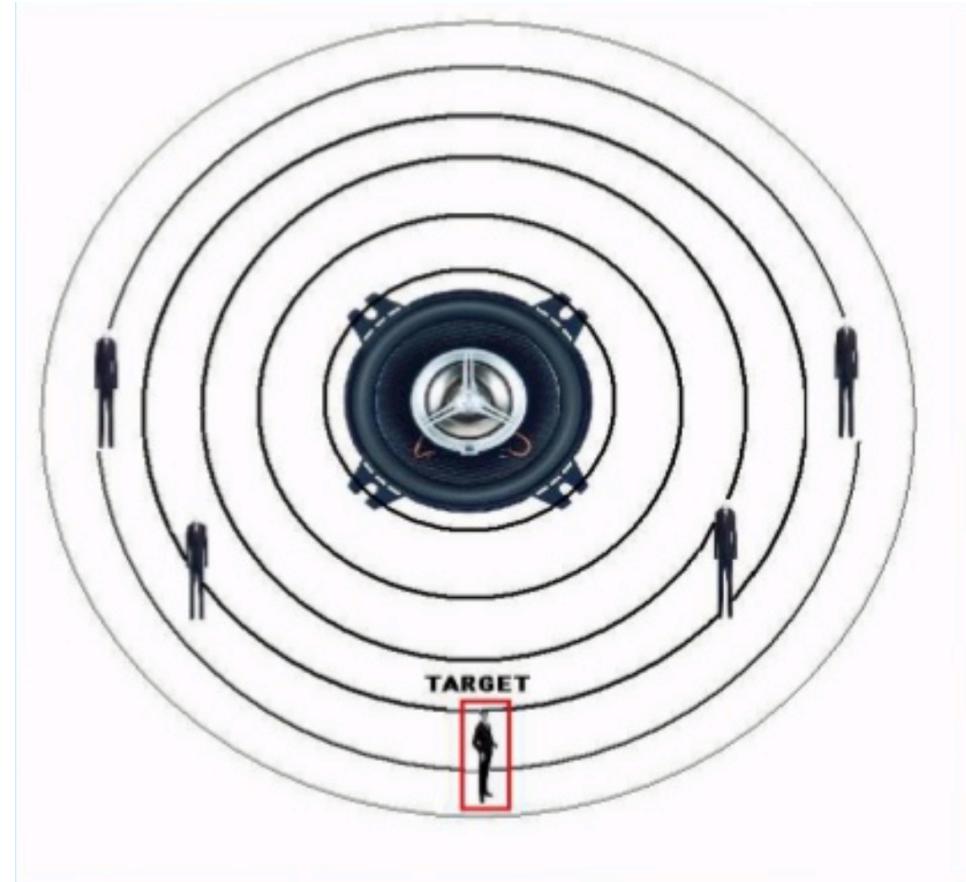
- Spherical Speaker
- Directional Audio
- 360° Full-field Control

Typical Hearing



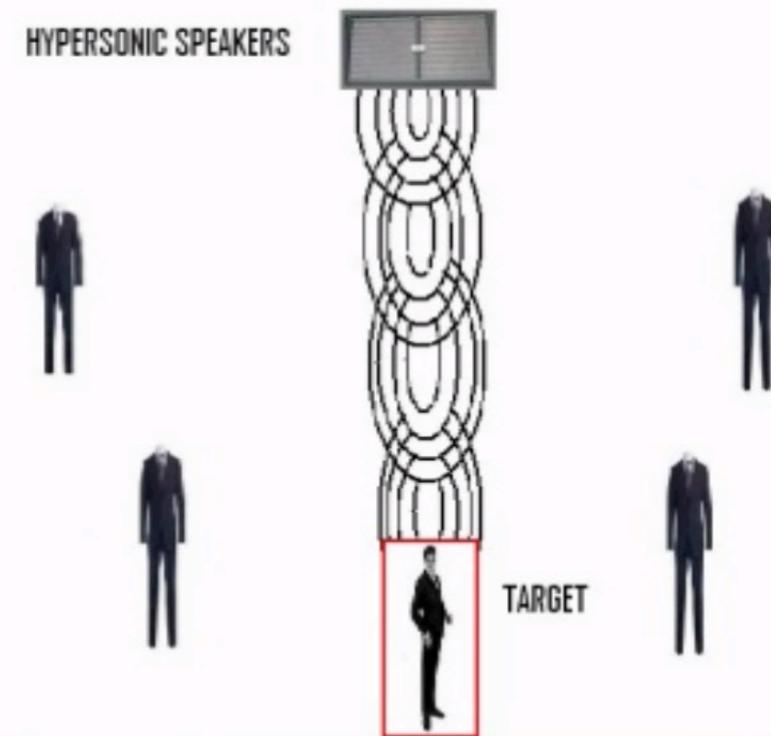
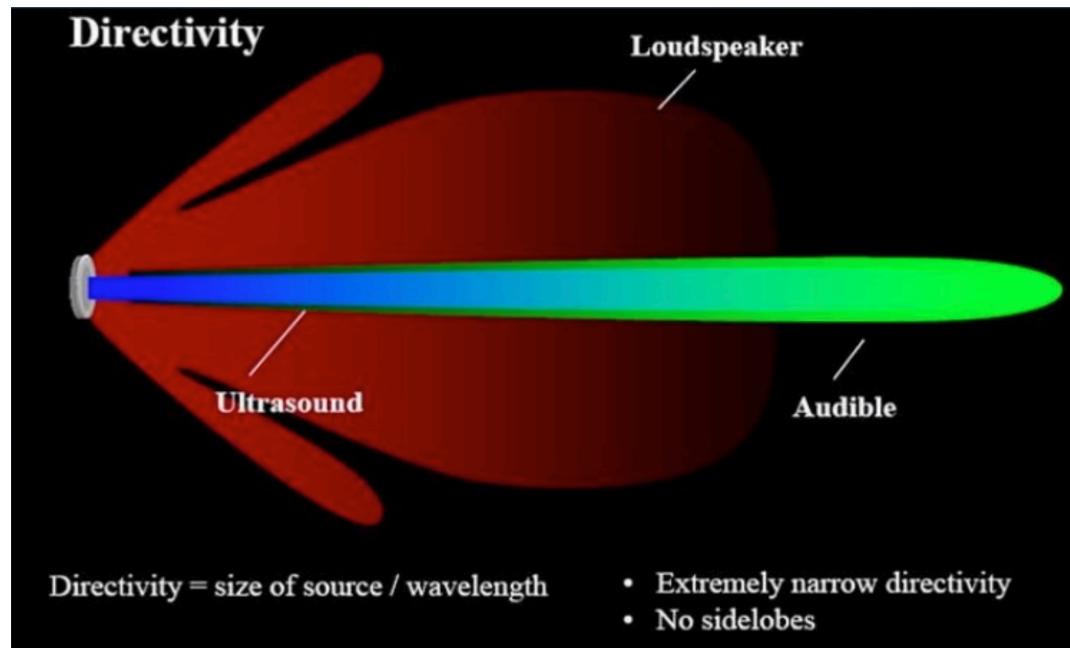
Range of Hearing

Typical Hearing



Travel of Auditable Sound Wave

Audio Spotlight



Modulated 60 kHz Sound Wave

**Problem
Solution
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Public Announce System



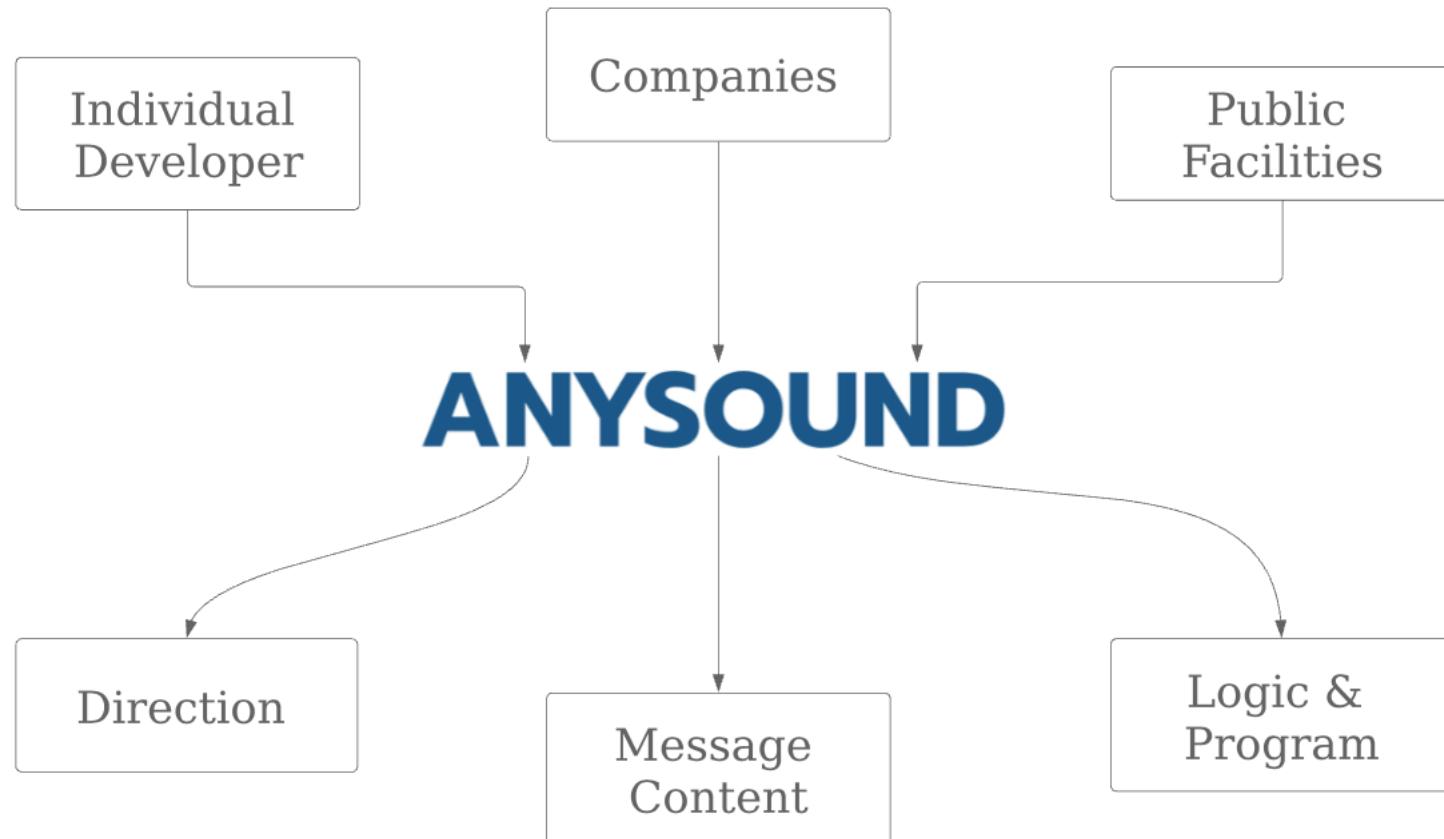
Sale Guide



Automobile System



Museum



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Major: CSE

Current Work: Communication System Dev. & Network Coding