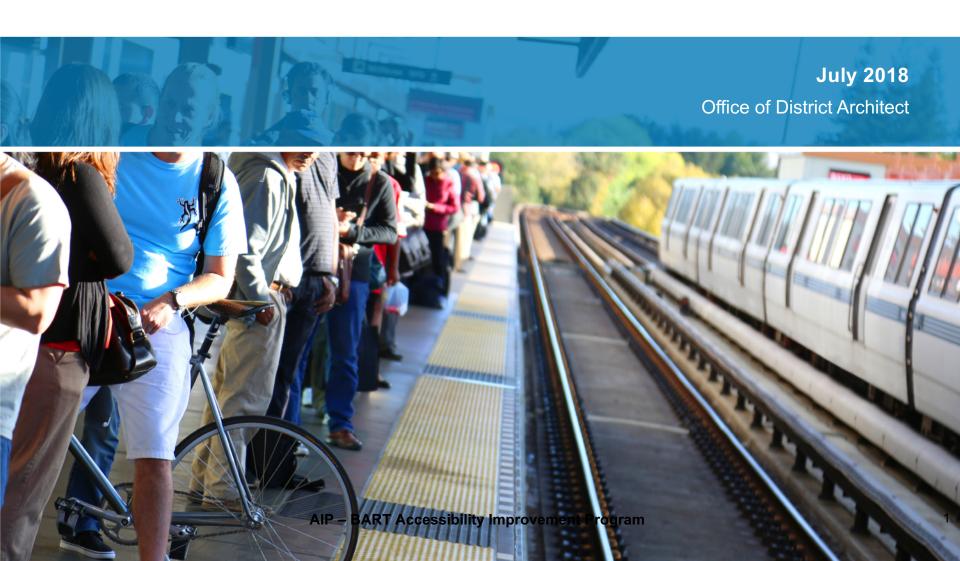
BART AIP Pilot Projects Hearing Loop







Introducing Hearing Loop





Hearing Loss Facts



- 48 million Americans live with hearing loss
- 18 million are under the age of 65
- 8 million Californians have hearing difficulty
- Hearing loss is an invisible health issue



Hearing Loss: Hearing Assistance Systems



Infrared (IR) and Radio Frequency (RF) Systems

- Additional hardware required
- IR Need clear line of sight between transmitter and receiver
- RF competion for frequencies
- Older churches and guided tours, Seattle Airport tried it

Loop Systems – Nearly doubling Every Year

- No additional hardware need T coil hearing aid
- Magnetic field produced eliminates line of sight issue
- Transit UK, NYC (640 stations), Amtrack (5 stations)
- Airports Austin, Phoenix, Memphis, Nashville, Rodchester
- Other



Hearing Instruments & Cochlear Implants



Hearing instruments & cochlear implants amplify sound.





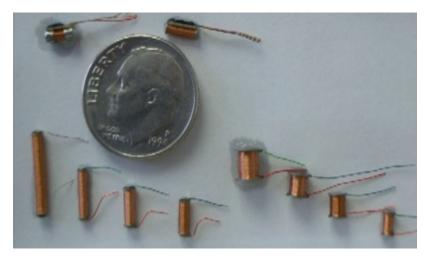




Telecoils or T Coils











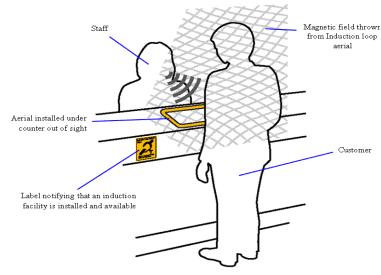
AIP - BART Accessibility Improvement Program



Hearing Loops Improve Hearing Wirelessly



Below is a diagram of a hearing loop at a shop counter or bank:



Sound
(Voice from lecturer)

Microphone

Speech is understood clearly without background noise

T-coil in Hearing Device



Pilot – Fremont Station Agent Booth Loop System



Five Components

- 1. Counter loop/aerial
- 2. Hearing loop amplifier
- 3. Staff unit mic / speaker base station
- 4. External Microphone
- 5. External Speaker not shown



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Pilot - Fremont Station Platform Signage







BART.gov May 2, 2017 News Story: Pilot Project



