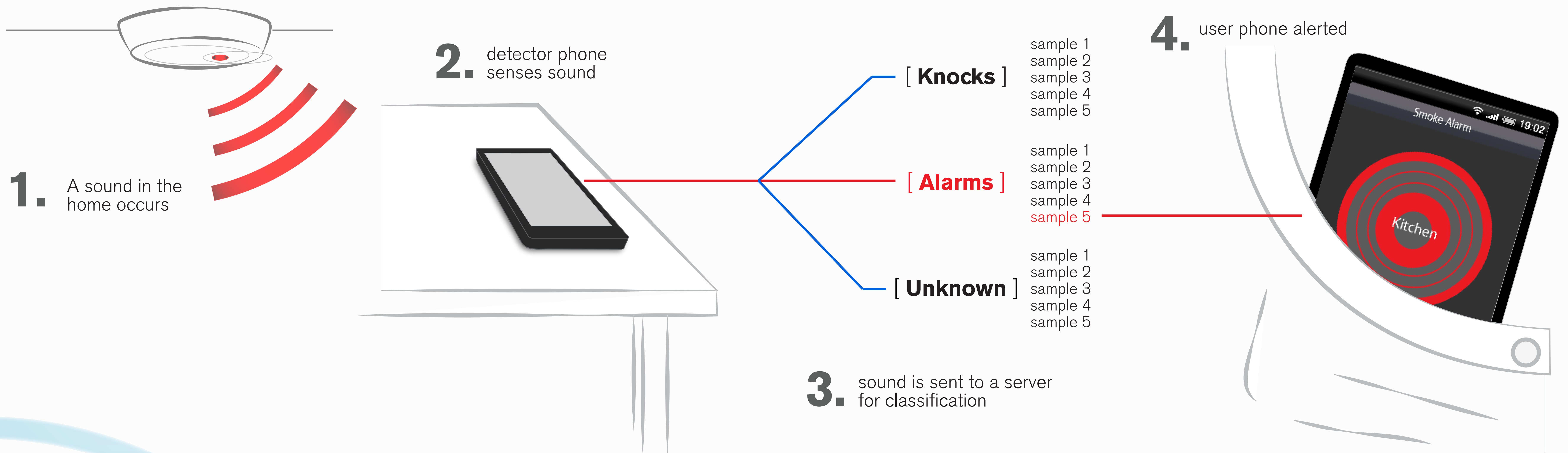# problem

Alert deaf users of household sounds using visuals to quickly communicate uniqueness and location of sounds.

solution

Place phones throughout the home to detect and classify sounds. Display visualizations with location and names of sounds on the user phone.

1. A sound in the home occurs

2. detector phone senses sound

[**Knocks**]
sample 1
sample 2
sample 3
sample 4
sample 5

[**Alarms**]
sample 1
sample 2
sample 3
sample 4
sample 5

[**Unknown**]
sample 1
sample 2
sample 3
sample 4
sample 5

3. sound is sent to a server for classification

4. user phone alerted

Smoke Alarm 19:02

Kitchen

future work

-Better classification of sounds
-Pre-programed sound library on the user's phone

-Feedback on incorrect sounds
-More contextual help in UI

audio vision

visualizing sound for the deaf & hard of hearing

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