

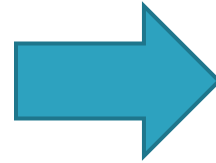
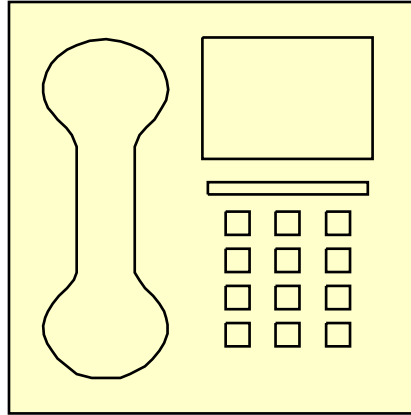
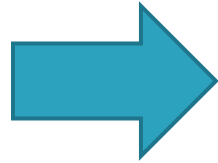
EXCHANGE OF AUDIO INFORMATION VIA WIRELESS TECHNOLOGY

Background and Introduction(1)



- ✓ The mobile phone has revolutionized communication.
- ✓ The smart phone has revolutionized the revolution.

Background and Introduction(2)



Background and Introduction(3)

✓ What about short distance communication?

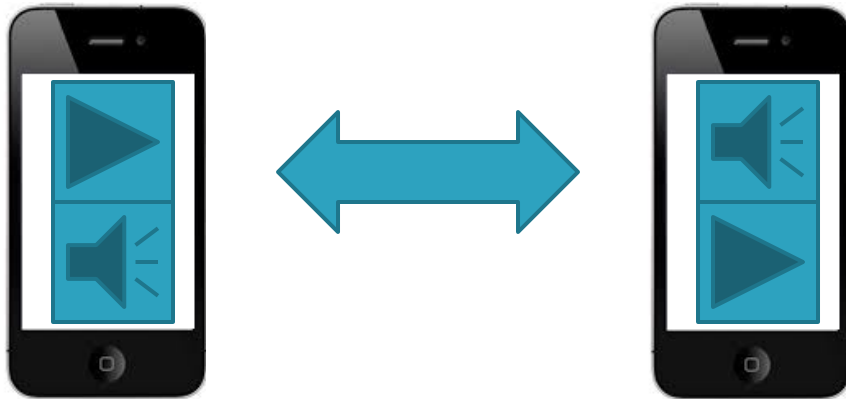


Problem Statement

- ✓ **How can smartphones communicate with each other over short distances without incurring network service provider costs?**

Objectives

- ✓ Two smartphones connect with each other via wireless without an intermediary device.
- ✓ Send and receive data – initially audio data – between the two devices.



Justification



- ✓ Smartphones are small computers. Therefore they should do what computers do. At least to some extent.
- ✓ Legitimate ways to cut costs are always welcome.

Literature Review in Short

Characteristic	NFC	Bluetooth	Wi-Fi
Range	≤ 10 cm	≤ 30 m	≤ 100 m
Advantages	Relatively very secure	Rather common	Long range
Disadvantages	Rather uncommon	Slightly insecure due to range	High power demands

Research Methods

✓ Experimentation:

- Input: Code.
- Tools: An IDE.
- Output: An app.

✓ Web search:

- Input: Questions.
- Tools: Browser.
- Output: Answers and code snippets.

✓ Interviews:

- Input: Prepared interview questions.
- Tools: Notebook and pen.
- Output: Varying opinions.

Schedule

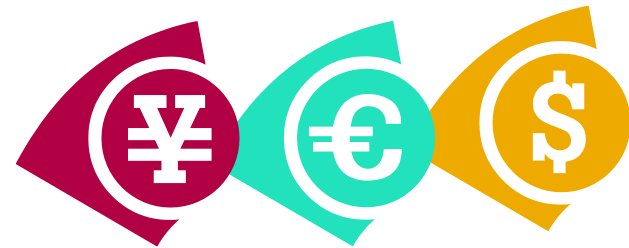


- ✓ Proposal takes 1.5 months.
- ✓ Literature review takes 1.5 months.
- ✓ Design takes 1 month.
- ✓ Implementation and testing take about 1 month.

Budget

✓ Internet connectivity: Kshs. 4,000

✓ TOTAL BUDGET: Kshs. 4,000
(Sunday, October 25, 2015)



Conclusion

- ✓ Humble beginnings.
- ✓ References at the back of the Proposal.



THE END. . . FOR NOW