Overview
The Problem

• In today's age, **safety matters**

• As of 2014, nearly 37% of Americans do not feel safe walking alone at night

• Friends and family place the responsibility on the individual to let them know if they've arrived safely
Current Solutions

**Companion**
Works with anyone
Identify sketchy areas
Works in the background

**Walk Me Home**
“Guardian Angels”
Alert button
Chat and call features
Removed from Play Store

**GetHomeSafe**
Personal/Corporate use
Battery life alert
Our Solution

• Present an SMS-based "subscription" model
• Send SMS status updates to subscribers
• Notify them when you arrive safely
Current Implementation

- Destination stored in SharedPreferences (along with settings)
- Google Maps loads destination and draws polyline between locations
- SMS BroadcastReceiver listens for incoming subscription requests
- SmsManager used to send updates to subscribers
- User arrives, subscribers are notified, and subscription list is cleared
- ACTION_CALL intent is used to automatically call police or an emergency contact
- New subscribers are added to a StringSet in SharedPreferences
Conclusions
Limitations

- Recently encountered difficulty in detecting location changes
- Not enough time to conduct thorough user testing
- Preset status updates limited
- Location searches not resolved to "official" addresses
Future Work

• Integrate with Android Wear to ensure maximum convenience
• Implement fall detection using device accelerator
• Implement location search
References

- Companion - http://www.companionapp.io