Background

Although smartphones have stretched the boundaries of socializing, they can be a distraction in co-located social interactions.

Research Objectives

- Improving the quality of co-located social interactions by encouraging smartphone usage limitation
- Lock n' LoL an app which helps users to collaboratively manage their smartphone usage by providing synchronous social awareness



Lock n' LoL: Mitigating Smartphone Disturbance in Co-located Social Interactions

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CHI 2015 Work in Progress

Q. I was disturbed by Q. When do smartphones Q. When are smartphones Preliminary smartphones while socializing. disturb socializing? good for socializing? **Studies** Strongly "...to search for recent fashion trends Disagree "I unconsciously check personal 21% 14% message notifications ... " (P2) and go online shopping with friends." **Online Survey** Disagree (P3) (N=49)Agree "I habitually use the smartphone to "...I play smartphone games with my Interview resolve for awkward silences and friends to get along." (P7) 59% Strongly (N=7)idleness." (P5) Agree **Temporary Use Mode** Points & Level Socializing Mode Lock n' LoL Analyze your socializing activities Locking phones to limit usage together Asking/permitting to use temporary Design and stay motivated Lock 'n' Lol cIterative 00:11:35 To start the temporary use mode LV.3 Pie Prototyping Week: 57pts (3rd) | Total: 57pts Status Process LV.5 LOCKED LV.5 11 John LOCKED Ask permission Give permission Sunmin 94nt 00:25 LV.3 76n To stop the temporary use mode LOCKED LV.3 LV.3 Pie 57pt notification ba Create OR **Time Together** Externally cued noti. → Silent mode By others See how much time the user spent By oneself Habitually usage ➔ Locking screens with each of his/her friends **Contexts of Use Socializing Mode Temporary Use Mode Pilot Study** The benefits of limiting smartphones Coped with inconveniences from Eating with friends completely locking smartphones during Interviews were greater than its inconveniences Meeting in a small group while socializing. social interactions (N=20)Chatting at a cafe "...we had initially locked the phone for "I used this app so that I won't be "I was able to bring interesting topics distracted by my smartphone while studying for the final exams..." into the conversation while other a better time together." phones stayed locked. **Future** • Synchronous awareness by sharing detailed usage information (e.g., app usage in the temporary use mode)

Current status visualization

Work

Excusable app usage for apps that do not disrupt co-located social interactions (e.g., camera, dictionary)
Users may decide which apps to excuse / Automatic recommendation based on logged usage data