Gesture and Voice Commands to Interact With AR Windshield Display in Automated Vehicle: A Remote Elicitation Study

**Problem:** We don’t know how people expect to interact with AR windshield display of automated vehicles in the future.

**Research Questions:**
1. How do drivers expect to use gestures and voice commands to interact with windshield displays?
2. How do drivers prefer to interact with windshield displays of automated vehicles?

**Method:** Groups of 4 individuals participated in creativity tasks. One member of the group was also engaged in a secondary task.

**Findings:**
1. Distracted participants seemed to contribute less than other members of the group.
2. Preliminary evidence suggests that even while engaged in non-meeting tasks, people can give meaningful contributions to a creativity task.

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"I need to respond to this" – Contributions to group creativity in remote meetings with distractions

**Problem:** There is limited research on the effect of remote meetings on group performance.

**Research Questions:**
1. How do groups perform in creativity tasks during remote meetings?
2. What are the effects on individual and group performance when one individual is frequently interrupted?

**Method:** We conducted an online time-use study in which 616 knowledge workers participated.

**Findings:**
1. VR nature experience improved stress but no significant improvement when mindfulness practice was added.
2. VR nature experience improved focus but no significant improvement when mindfulness practice was added.
3. Interventions had mixed effects on different aspects of creativity (Convergent and divergent thinking).

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Virtual Nature Experiences and Mindfulness Practices while Working from Home during COVID-19: Effects on Stress, Focus, and Creativity

**Problem:** Working remotely during COVID-19 pandemic can negatively affect stress, focus, creativity of the workers.

**Research Questions:**
1. How do daily virtual nature experience and mindfulness practice effect stress, focus, and creativity of remote workers over an extended period?

**Method:** We analyzed pre-pandemic and post-pandemic data from an online time-use survey with data on 1,192 knowledge workers.

**Findings:**
1. The transition to working from home due to the pandemic caused a drastic reduction in commuting time for managers, but also an increase in time spent in work rather than on personal activities.

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Multitasking while Driving: A Time Use Study of Commuting Knowledge Workers to Assess Current and Future Uses

**Goal:** To understand how future automated vehicles can support the work and wellbeing of knowledge workers.

**Method:** We conducted an online time-use study of commuting, working, engaging in personal activities, or with unreported activities by time of day.

**Findings:**
1. Share of commuting events by intensity of work-related multitasking behavior.
2. Time-Use Map: share of respondents commuting, working, engaging in personal activities, or with unreported activities by time of day.