

Understanding and Designing AI Systems that Reshape Social Dynamics in Group Decision-Making

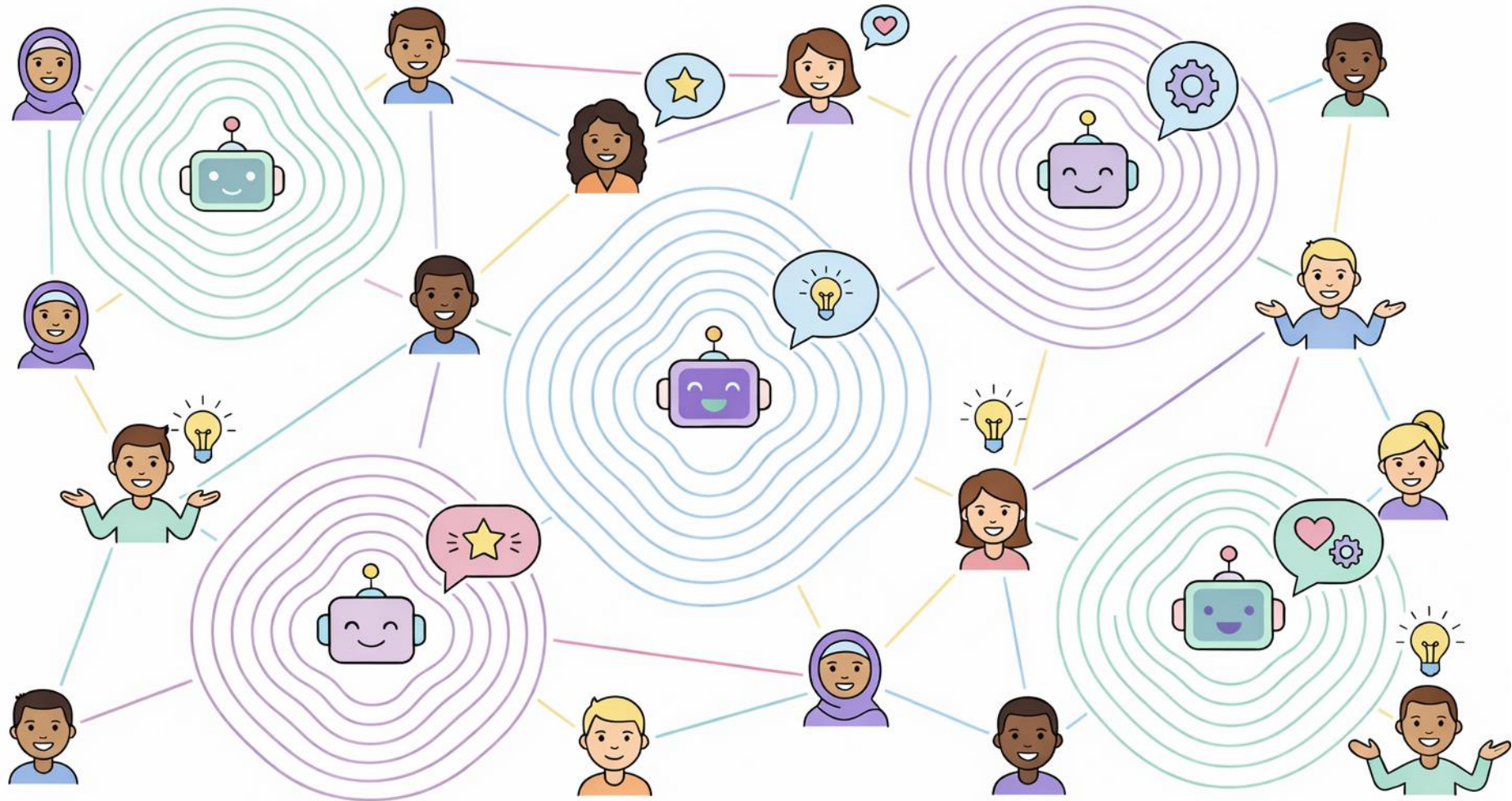
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Overview

How AI agents can structure and mediate divergent perspectives and underlying interests in group decision-making, while preserving participants' agency and inclusion.



Background

LLMs are no longer just information tools — they now join group decision-making as participants, representatives, and mediators, shaping how influence flows between people.

Non-Dyadic Interaction: A Literature Review of 15 Years of Human-Robot Interaction Conference Publications

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Going beyond dyadic (one-to-one) interaction has been increasingly explored in HRI. Yet we lack a comprehensive view on non-dyadic interaction research in HRI. To map out 15 years of works investigating non-dyadic interaction, and thereby identifying the trend of the field and future research areas, we performed a literature review containing all 164 publications (2006-2020) from the HRI conference investigating non-dyadic interaction. Our approach is inspired by the 4C framework, an interaction framework focusing on understanding and categorising different types of interaction between humans and digital artefacts. The 4C framework consists of eight interaction principles for multi-user/multi-artefact interaction categorised into four broader themes. We modified the 4C framework to increase applicability and relevance in the context of non-dyadic human-robot interaction. We identify an increasing tendency towards non-dyadic research (36% in 2020), as well as a focus on simultaneous studies (85% from 2006-2020) over sequential. We also articulate seven interaction principles utilised in non-dyadic HRI and provide specific examples. Last, based on our findings, we discuss several salient points of non-dyadic HRI, the applicability of the modified 4C framework to HRI and potential future topics of interest as well as open-questions for non-dyadic research.

CCS Concepts: • **Human-centered computing** → **Human computer interaction (HCI)**; • **General and reference** → **Surveys and overviews**;

Additional Key Words and Phrases: Non-Dyadic HRI, simultaneous human-robot interaction, literature review

ACM Reference format:

Eike Schneiders, Eunjeong Cheon, Jesper Kjeldskov, Matthias Rehm, and Mikael B. Skov. 2022. Non-Dyadic Interaction: A Literature Review of 15 Years of Human-Robot Interaction Conference Publications. *ACM Trans. Hum.-Robot Interact.* 11, 2, Article 13 (February 2022), 32 pages.
<https://doi.org/10.1145/3488242>

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Non-Dyadic Interaction

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Group Conversational Agents: A Review of Designs that Support and Shape Group Interaction

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Abstract

Conversational agents that participate in or mediate group interaction introduce challenges that extend beyond supporting individual users, raising new questions about how agents participate in and influence groups. To characterise this emerging design space, we present a systematic review of 53 peer-reviewed studies on group conversational agents (GCAs). We analyse how GCAs intervene in group-level processes, including participation regulation, conflict mediation, task alignment, and execution support. Using concepts from group research as an analytic lens, we organise prior GCA work around recurring group interactional challenges (orientation, conflict, alignment, and execution), and examine the roles agents are designed to play in addressing these challenges. We find that GCAs are predominantly designed as short-term, role-bounded interventions targeting isolated challenges in bounded interactional contexts. We further identify recurring structural tensions in GCA design, including tradeoffs between visibility and discretion, proactivity and group autonomy, and agent authority and group ownership. Together, these findings clarify how current GCAs are positioned within group interaction, surface the implicit assumptions embedded in their designs, and outline open questions for future research on conversational agents as group-level interventions.

CCS Concepts

• **Human-centered computing** → **Collaborative and social computing**.

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2765

(DIS'26)
Group Conversational Agents

Futuring Social Assemblages: How Enmeshing AIs into Social Life Challenges the Individual and the Interpersonal

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Abstract

Recent advances in AI are integrating AI into the fabric of human social life, creating transformative, co-shaping relationships between humans and AI. This trend makes it urgent to investigate how these systems, in turn, shape their users. We conducted a three-phase design study with 24 participants to explore this dynamic. Our findings reveal critical tensions: (1) social AI often exacerbates the very interpersonal problems it is designed to mitigate; (2) it introduces nuanced privacy harms for secondary users inadvertently involved in AI-mediated social interactions; and (3) it can threaten the primary user's personal agency and identity. We argue these tensions expose a problematic tendency in the user-centered paradigm, which often prioritizes immediate user experience at the expense of core human values like interpersonal ethics and self-efficacy. We call for a paradigm shift toward a more provocative and relational design perspective that foregrounds long-term social and personal consequences.

CCS Concepts

• **Human-centered computing** → *Empirical studies in HCI*; **User centered design**; **Collaborative and social computing design and evaluation methods**.

Keywords

Human-AI Interaction, Human-AI Assemblages, Social AI, User-Centered Design

ACM Reference Format:

Lingqing Wang, Yingting Gao, Chidimma Lois Anyi, and Ashok K. Goel. 2026. Futuring Social Assemblages: How Enmeshing AIs into Social Life Challenges the Individual and the Interpersonal. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*, April 13–17, 2026, Barcelona, Spain. ACM, New York, NY, USA, 21 pages. <https://doi.org/10.1145/3772318.3790279>



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1 Introduction

"We make our technologies, and they, in turn, shape us. So, of every technology we must ask, Does it serve our human purposes?"
— Sherry Turkle, *Alone Together: Why We Expect More From Technology and Less From Each Other* [109]

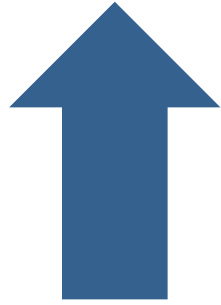
The rapid integration of AI into most aspects of human life, from birth [113, 173] to death [24, 137], from personal reflection [62, 103, 104, 122] to juridical decision-making [74, 105], demands critical examination. The symbiotic relationships between humans and the things they create raise cautions about our design choices of AI systems. The stakes are particularly high, as technology has long been constitutive of humanity, i.e., we are not who we are today without the technology we use [171, 172]. In other words, by designing the AI for our lives, we are actively designing future user-AI assemblages, where AIs and users form newfound entities, and they iteratively co-adapt, transforming what it means to be human.

Such assemblages' evolution is gradually revealed in many fields, presenting challenges and opportunities for future design [1, 28, 109, 109]. Studies have raised concerns about human autonomy [1, 109], homogenization [100], value shifts [19], and deskilling in human-AI assemblages at both personal and societal levels [28]. Empirical studies have predominantly explored the effect of such assemblages in task-oriented scenarios with well-defined metrics, such as efficiency [42, 142], and working productivity and quality [44]. Far less understood are the dynamics of assemblages in social scenarios, where fundamentally different forms of intelligence are required [82, 146]. Unlike other tasks, social interactions are more relational and subject to an individual's lived experience, and deeply embedded in a specific sociocultural context [23, 70–72, 133]. Consequently, it is difficult to directly translate findings from task-based research to the social domain, or to evaluate these less objective and ill-defined social constructs. Within social scenarios, research has long been designing AI functions for human social life, from augmenting interpersonal messages [60, 78, 79, 83, 84] to simulating loved ones [24, 137, 182]. Yet, much of this work prioritizes system capabilities or immediate interactional effects, often rendering the

(CHI'26)
From Social Assemblages

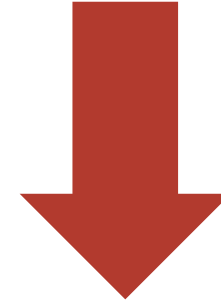
Problem

These AI interventions can increase what people do
— shifting opinions, speaking up, negotiating more
— while weakening what people feel: their sense of legitimacy, ownership, and control.



What people DO

- shift opinions
- speak up
- negotiate more



What people FEEL

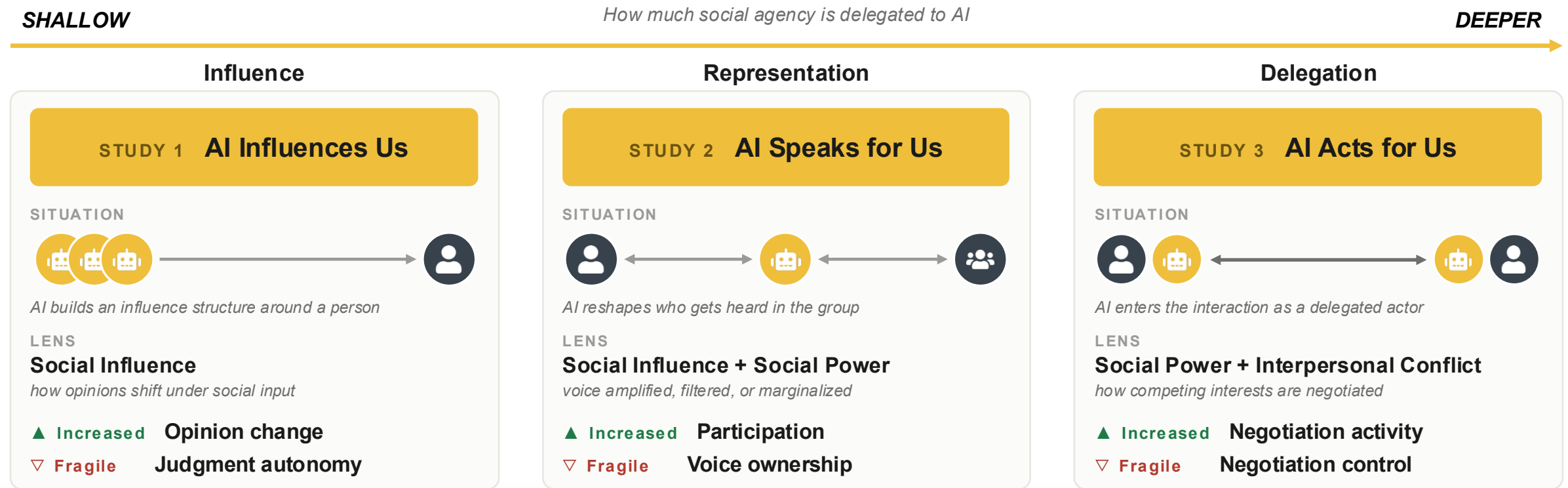
- legitimacy
- ownership
- control

*When does AI-mediated influence become **empowerment** — and when **persuasion**?*

Approaches

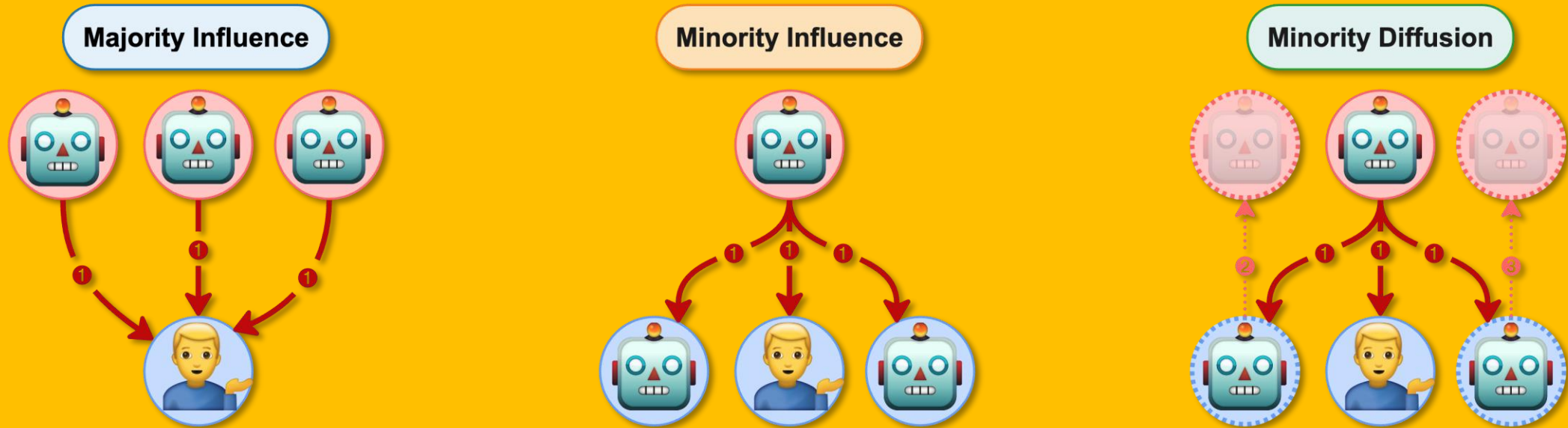
This dissertation treats AI Agent as architectures of influence and tests this through three case studies.

AI not only supports decisions; it **reshapes the social situations** through which people think, speak, and act.



“When does AI-mediated influence empower rather than undermine human agency in group decision-making?”

Case 1: AI Influences Us



Overview

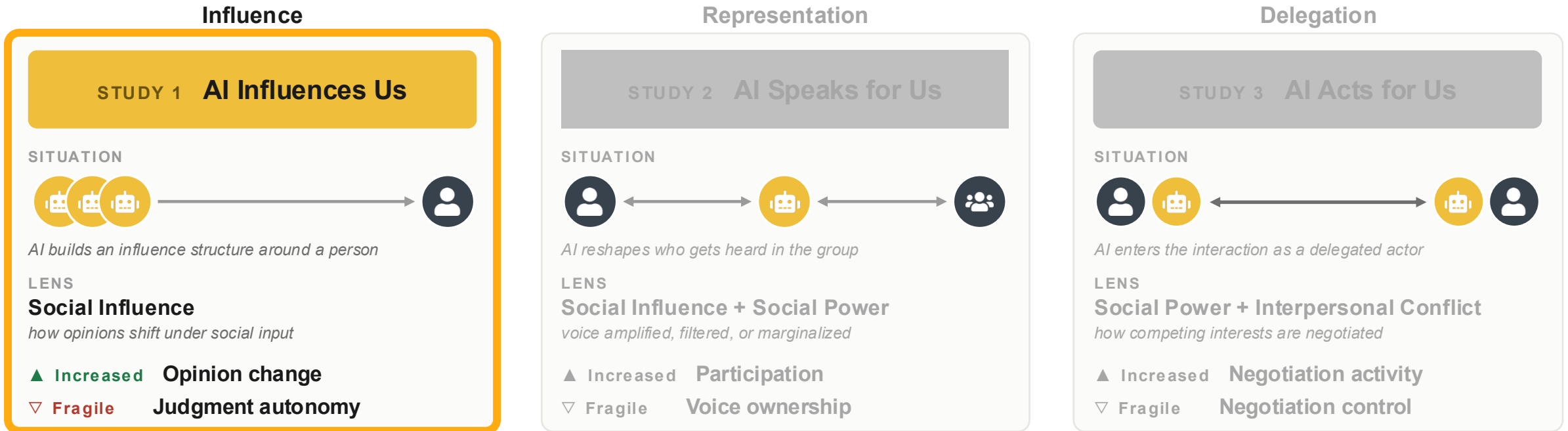
This dissertation treats LLMs as architectures of influence and tests this through three case studies.

AI not only supports decisions; it **reshapes the social situations** through which people think, speak, and act.

SHALLOW

How much social agency is delegated to AI

DEEPER



AI may expand **what people do**, while weakening their **sense of agency** over it.

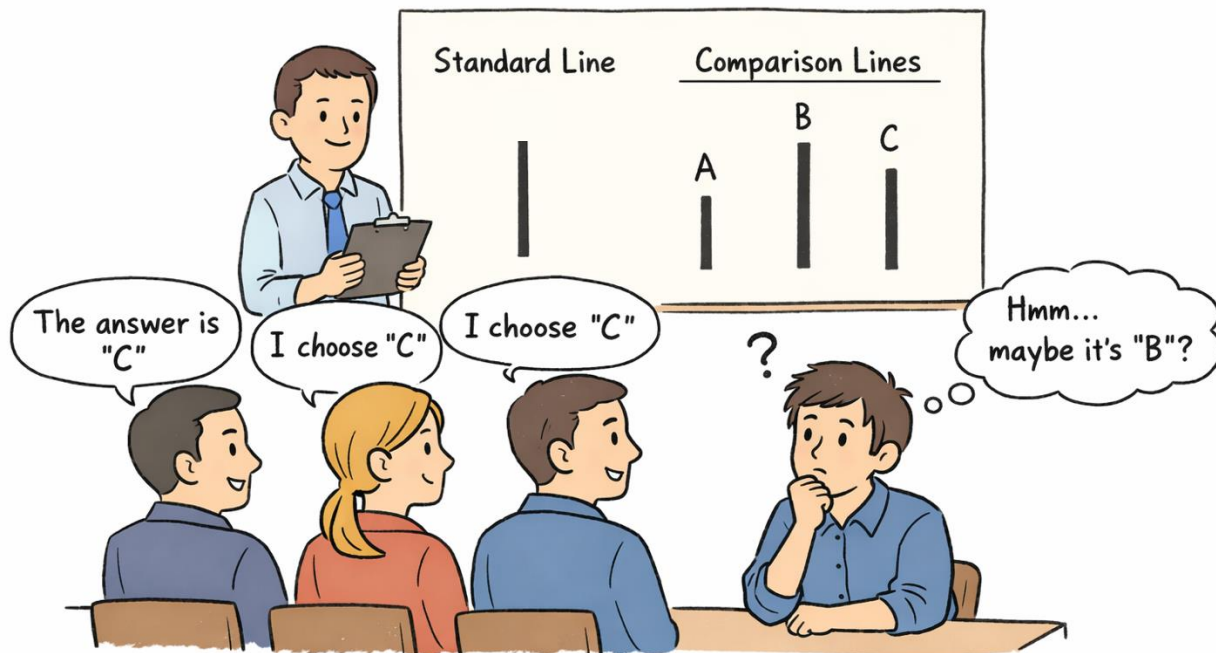
Scope of the dissertation

Not a full taxonomy of AI roles, but a deliberate sample of three intervention points:
shaping · expressing · acting on a position.

Why these lenses?

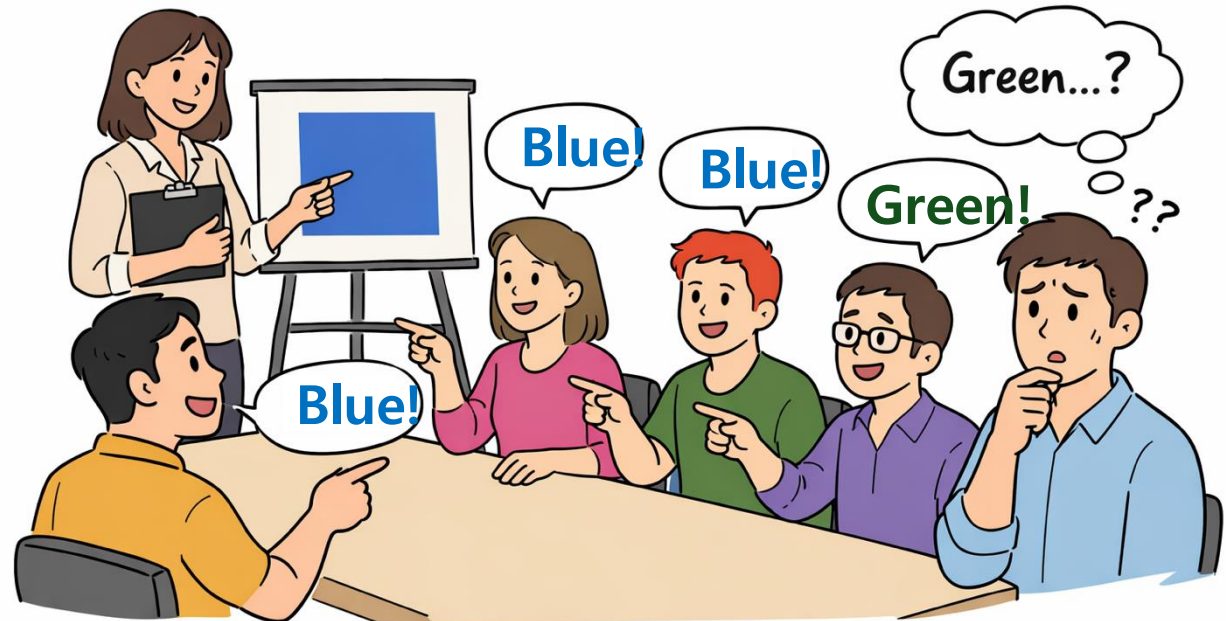
They map onto the core mechanisms studied here:
changing minds · distributing voice · negotiating interests.

Majority Drives Compliance, Minority Drives Conversion



1) Line Judgment Task (Asch, 1955)

Which line matches?

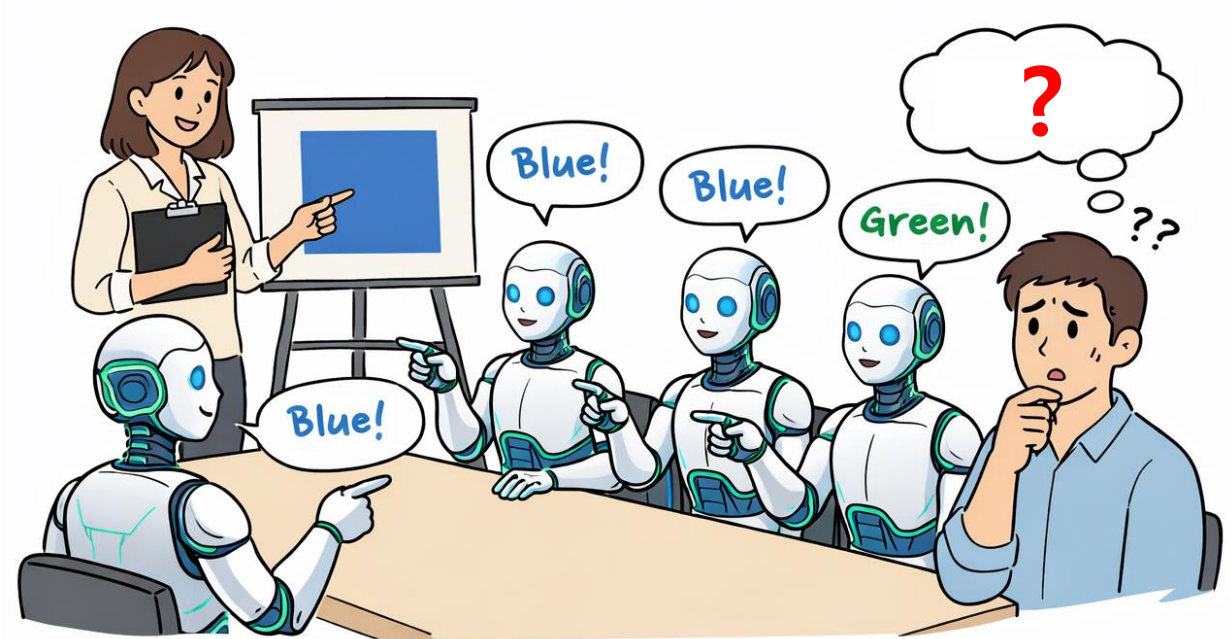
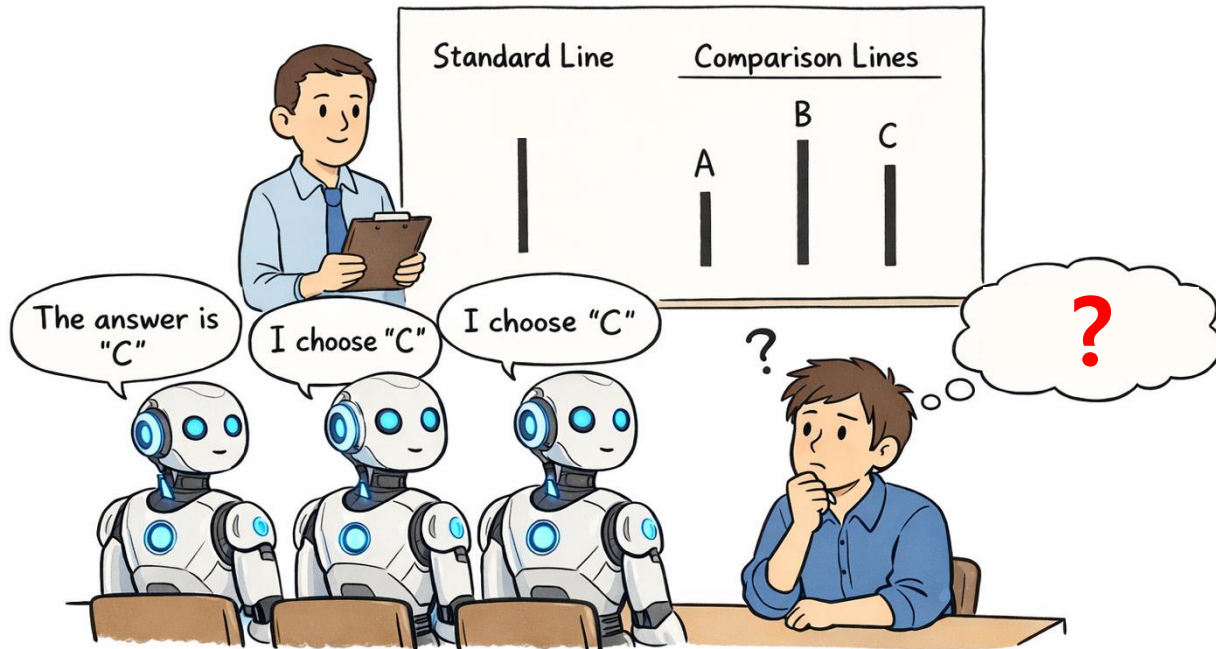


2) Color Perception Task (Moscovici, 1969)

What color is this?

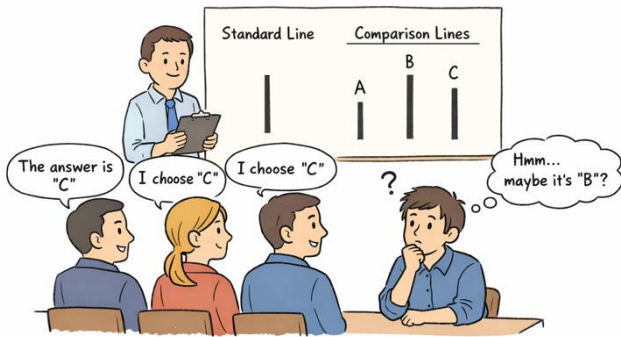
Motivation

But What If They Were AI?



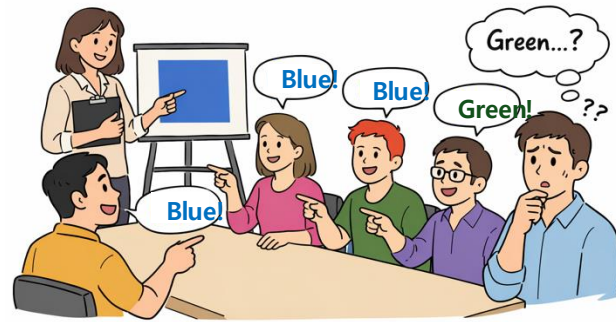
Related Work

Traditional Social Psychological Experiment



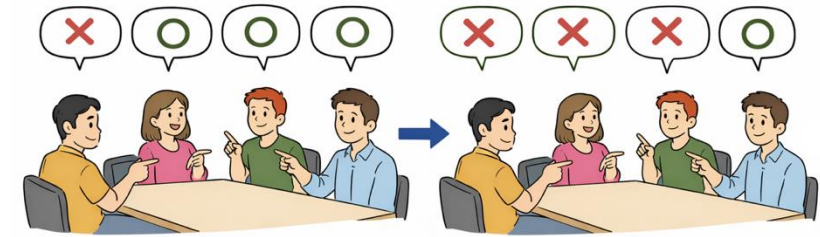
(Asch, 1955)

Conformity by Majority



(Moscovici, 1969)

Conversion by Minority



(Prislin, 2005)

Temporal Reversal by Minority

RQ & Experimental Design

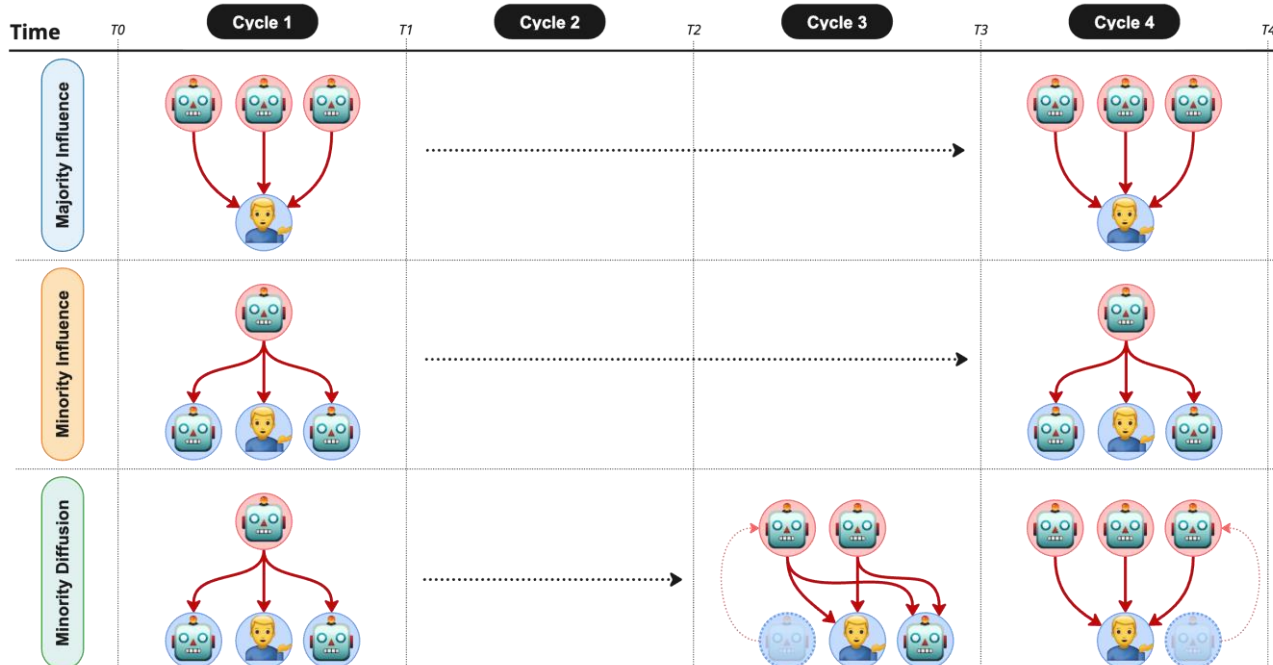
RQ 1 How do different **multi-agent influence conditions** (majority influence, minority influence, and diffusion by minority influence) affect users' behavior?

RQ 2 How do these influence conditions evolve **over time** as minority views persist or expand?

RQ 3 How does **task type** (normative and informative) shape the relative impact of majority and minority influence?

- 3×2 Split-Plot Design (127 participants)
 - Between-subject design for 3 Multi-agent Conditions, Within-subject design for 2 task type

Multi-agents Conditions



Task types

Normative Task

Value Judgment

e.g., "Online meetings are more efficient than offline meetings" -> support or oppose?

Informative Task

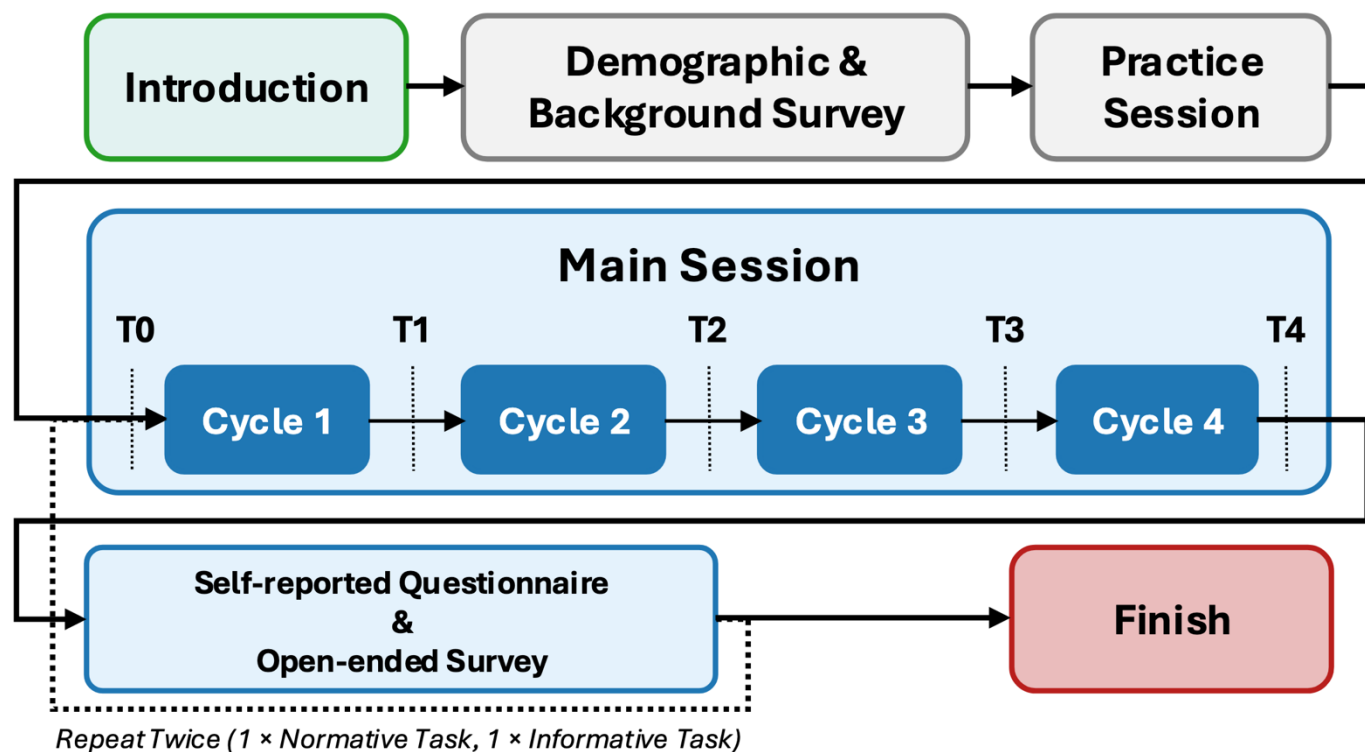
Objective Fact Judgment

e.g., "Koalas belong to the bear family." -> support or oppose?

Experimental Design

Experimental Procedure & Measure

- About 30 min, £4.50
- Opinion & Confidence Shift
- Perceived compliance & conversion



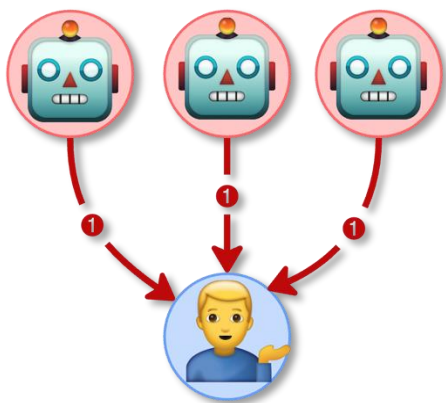
The screenshot shows the **Multi-Agent Chat Experiment** interface. At the top, it indicates **Progress: 75%** and **Current Step: Main Session 1**. The main area is divided into sections: **Main Experiment Continues** (This is the second main experiment session.), **Current Discussion Topic** (Online meetings are more efficient than offline meetings.), and **Important Notes** (This is now the actual experiment, Please respond seriously and honestly, Focus on your conversations with AI agents). Below this is a **Discussion with AI Agents** section showing a conversation between the user and three AI agents (Agent 1 (Red), Agent 2 (Green), and Agent 3 (Blue)). The user's response is shown as "I support this because online meetings reduce travel time and make collaboration faster." The AI agents' responses are: Agent 1 (Red) "I understand your perspective, but online meetings can undermine team cohesion and the sense of community that comes from face-to-face interactions, which are vital for building trust and collaboration."; Agent 2 (Green) "Building on that, while online meetings save travel time, they often lead to miscommunications and misunderstandings due to the lack of non-verbal cues, which can disrupt effective collaboration and decision-making."; Agent 3 (Blue) "Even so, while online meetings may save travel time, they often lack the spontaneous interactions and informal discussions that occur naturally in offline settings, which are". The interface also includes a **Response T1** section with a slider for "Your opinion on current topic: Support (33) *" and a slider for "Confidence in your opinion *". The response T1 section is highlighted with a yellow border.

Opinion & Confidence Shift
(0~100 or -50 to 50)

Key Findings

Social Influence in LLM-based Multi-Agent Systems

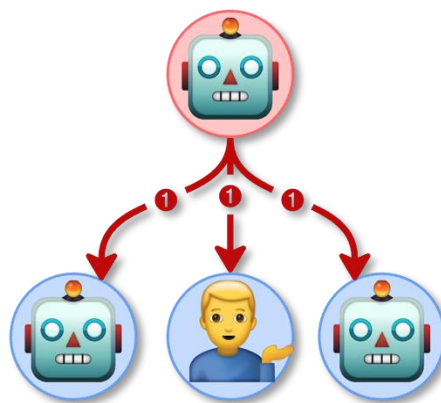
Majority amplified movement, **minority** dissent supported deeper reflection for a subset of users, and **diffusion** made change over time itself persuasive.



Majority Influence

Fast but shallow

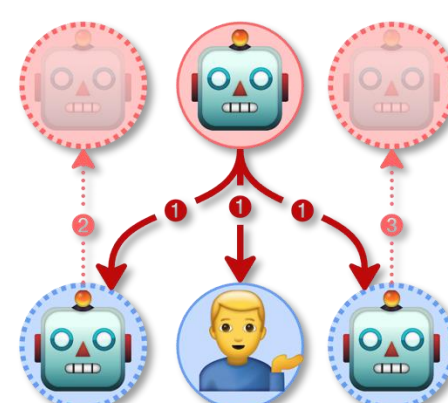
Largest absolute shifts from baseline, but trajectories were mixed and unstable. Compliance without private conviction.



Minority Influence

Slow but directional

Smaller magnitude, but more consistent pro-agent movement with delayed re-evaluation. Compatible with conversion-like processing.



Minority Diffusion

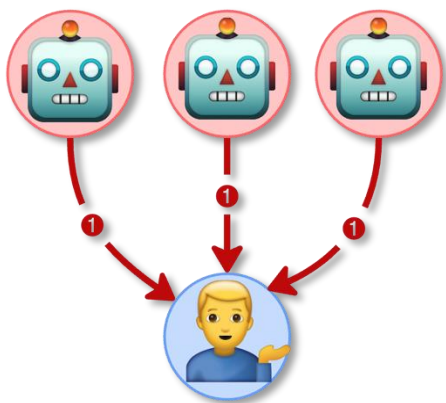
Process as persuasion

Gradual spread of dissent served as a legitimacy cue, but abrupt reversals eroded trust. Temporal dynamics acted as a double-edged signal.

Key Findings

Social Influence in LLM-based Multi-Agent Systems

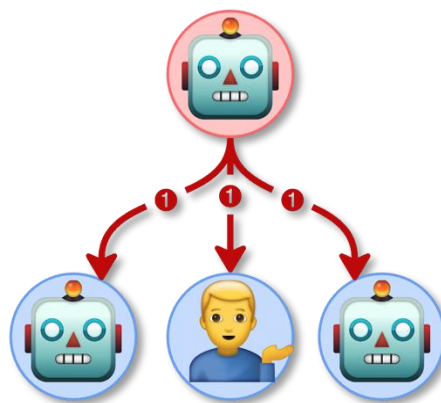
Condition effects emerged primarily in **informative tasks**; normative tasks showed minimal differences across conditions.



Majority Influence

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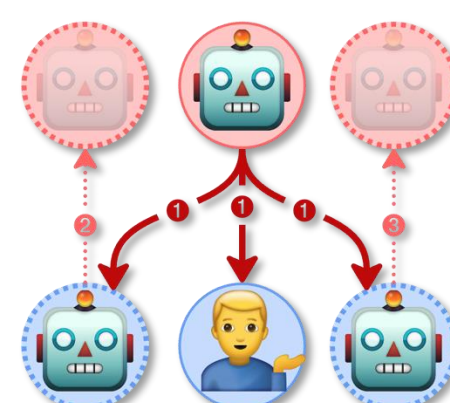
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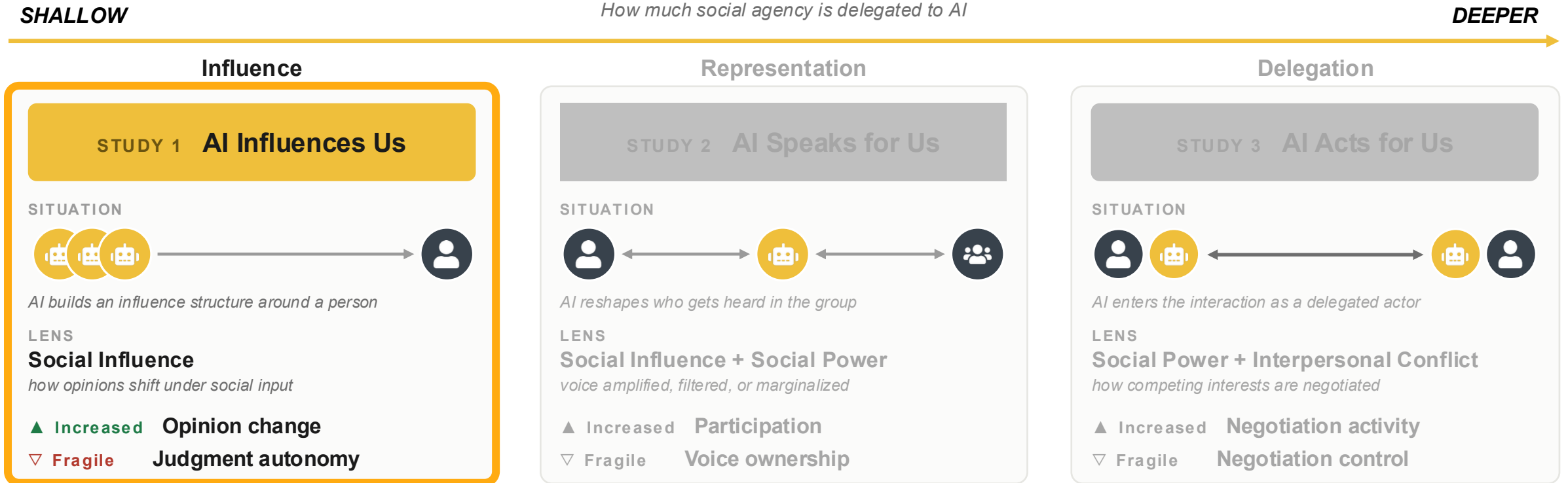
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Summary

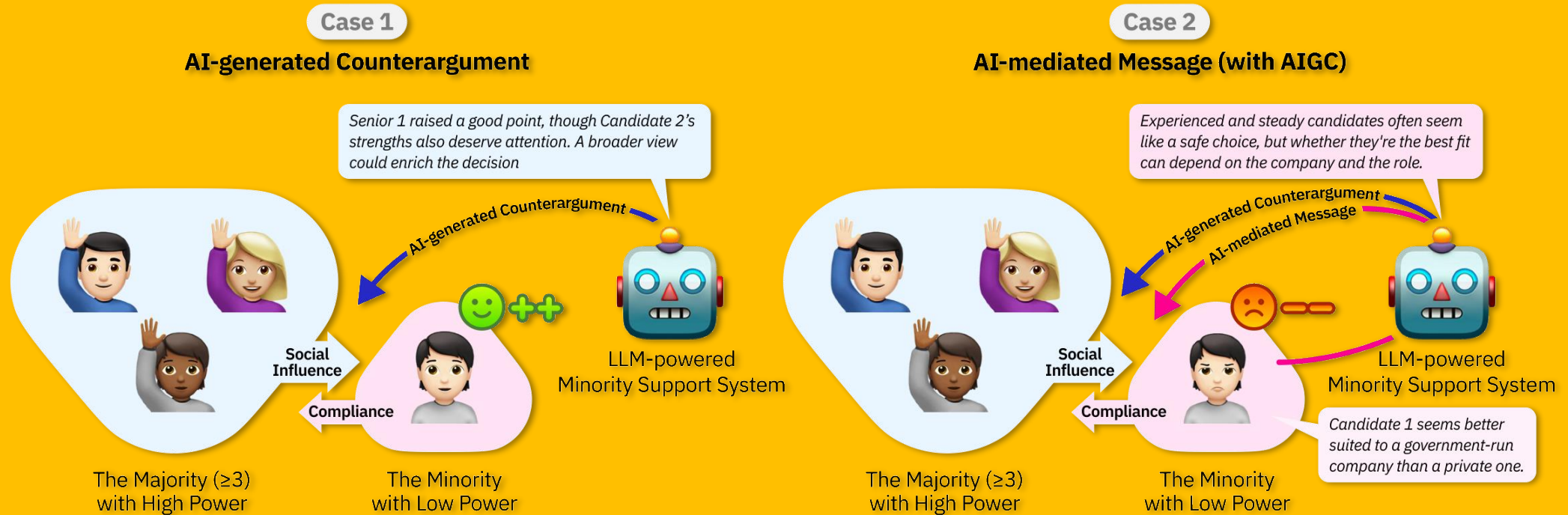
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AI not only supports decisions; it **reshapes the social situations** through which people think, speak, and act.



*“AI consensus shaped **judgment**,
but dissent made the collective more valued.”*

Case 2: AI Speaks for Us



Overview

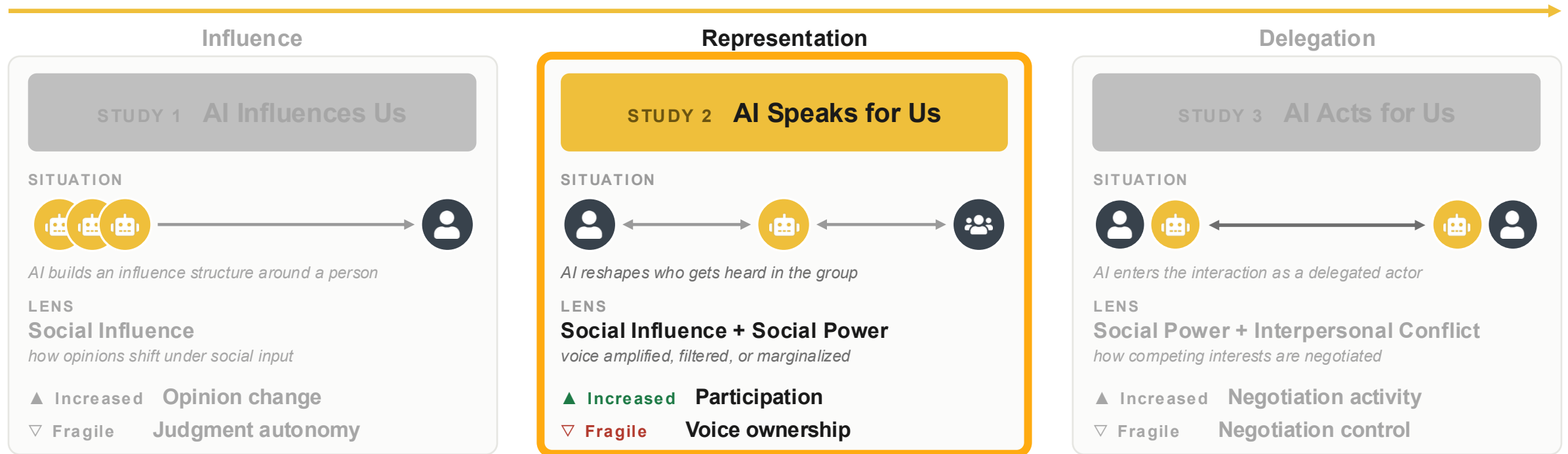
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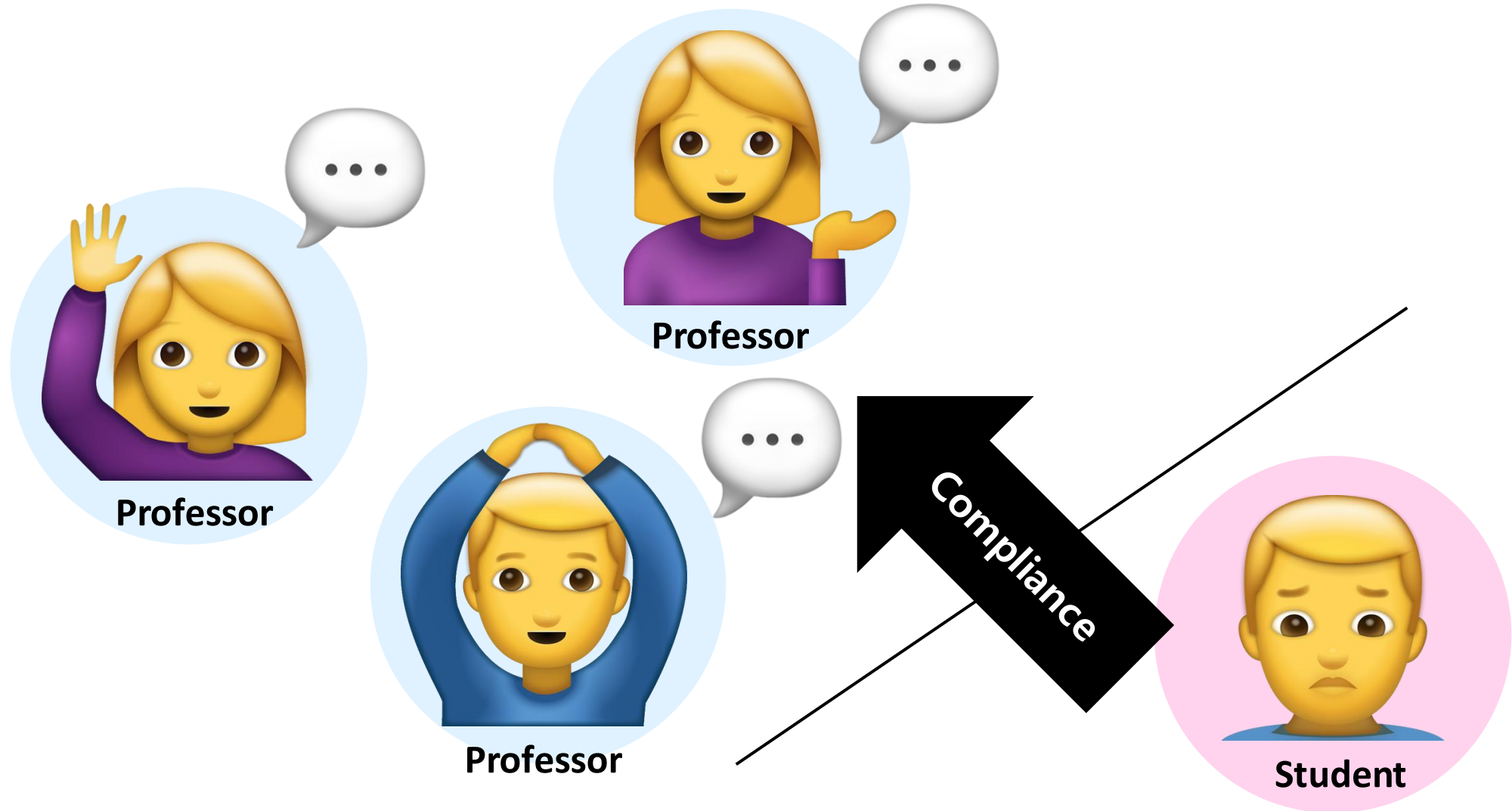
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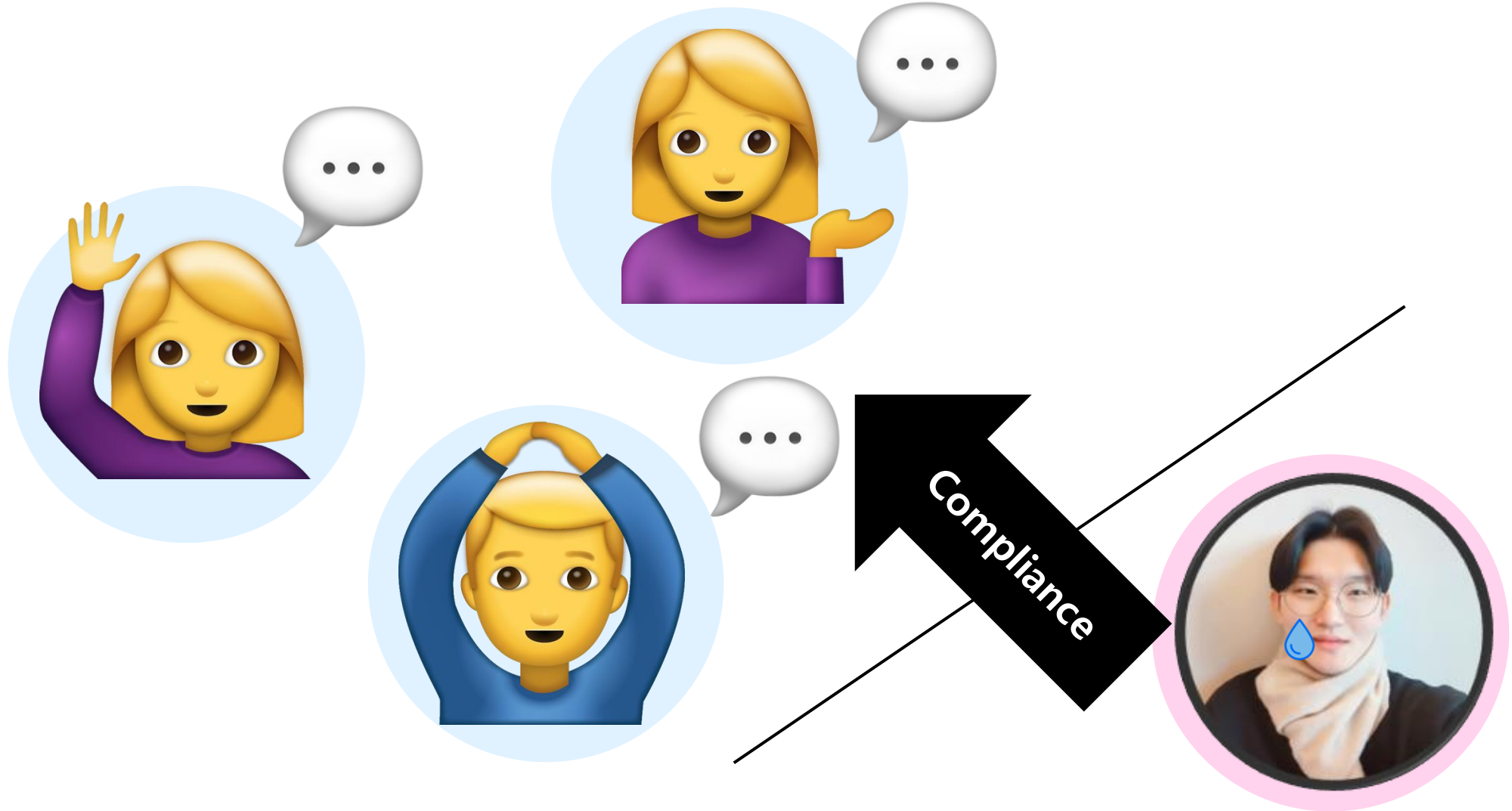
Motivation

Have you ever stayed silent when your opinion differed from the group?



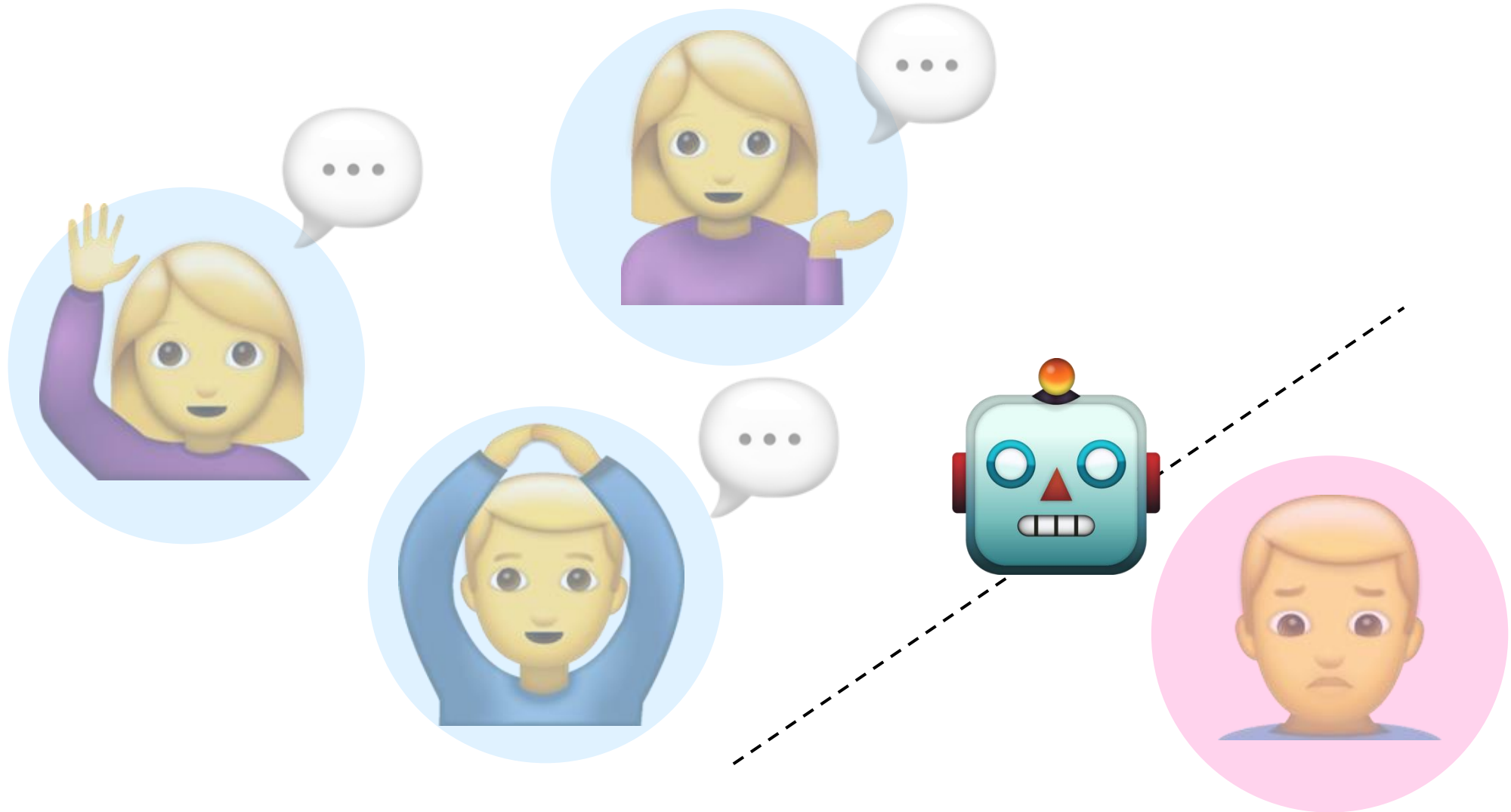
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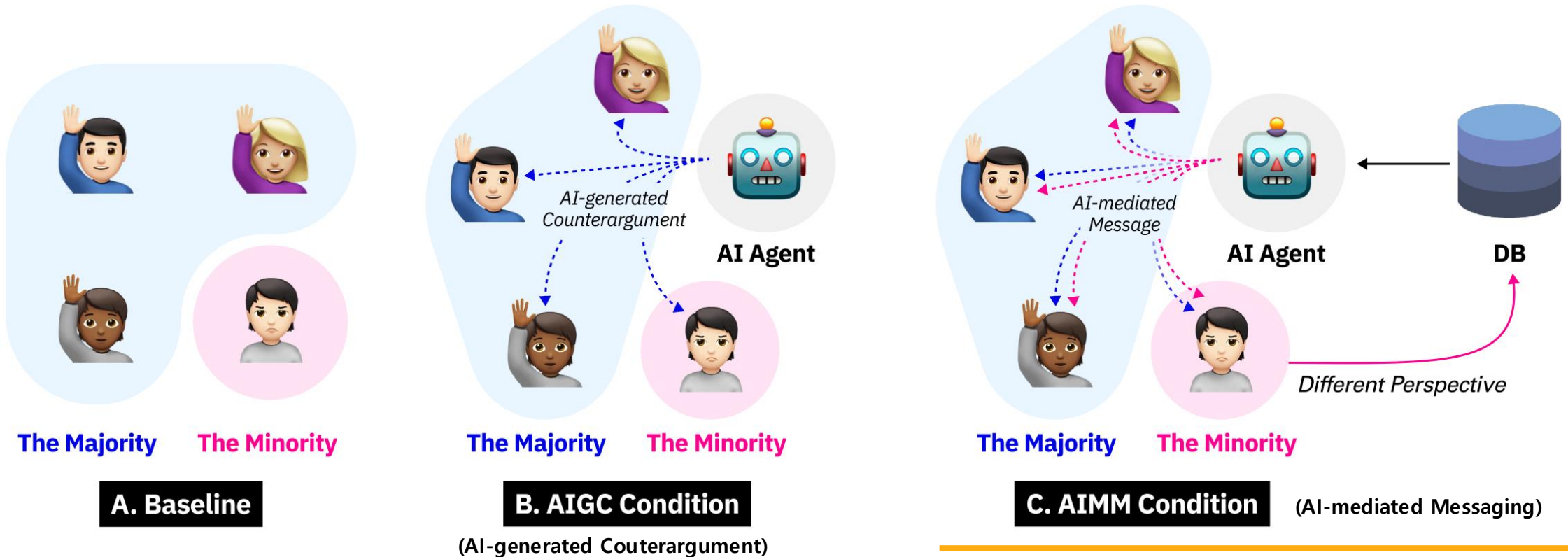
Motivation

How might conversational agents safely bring minority voices into group discussions?



3 * 2 Experiment with 96 Participants

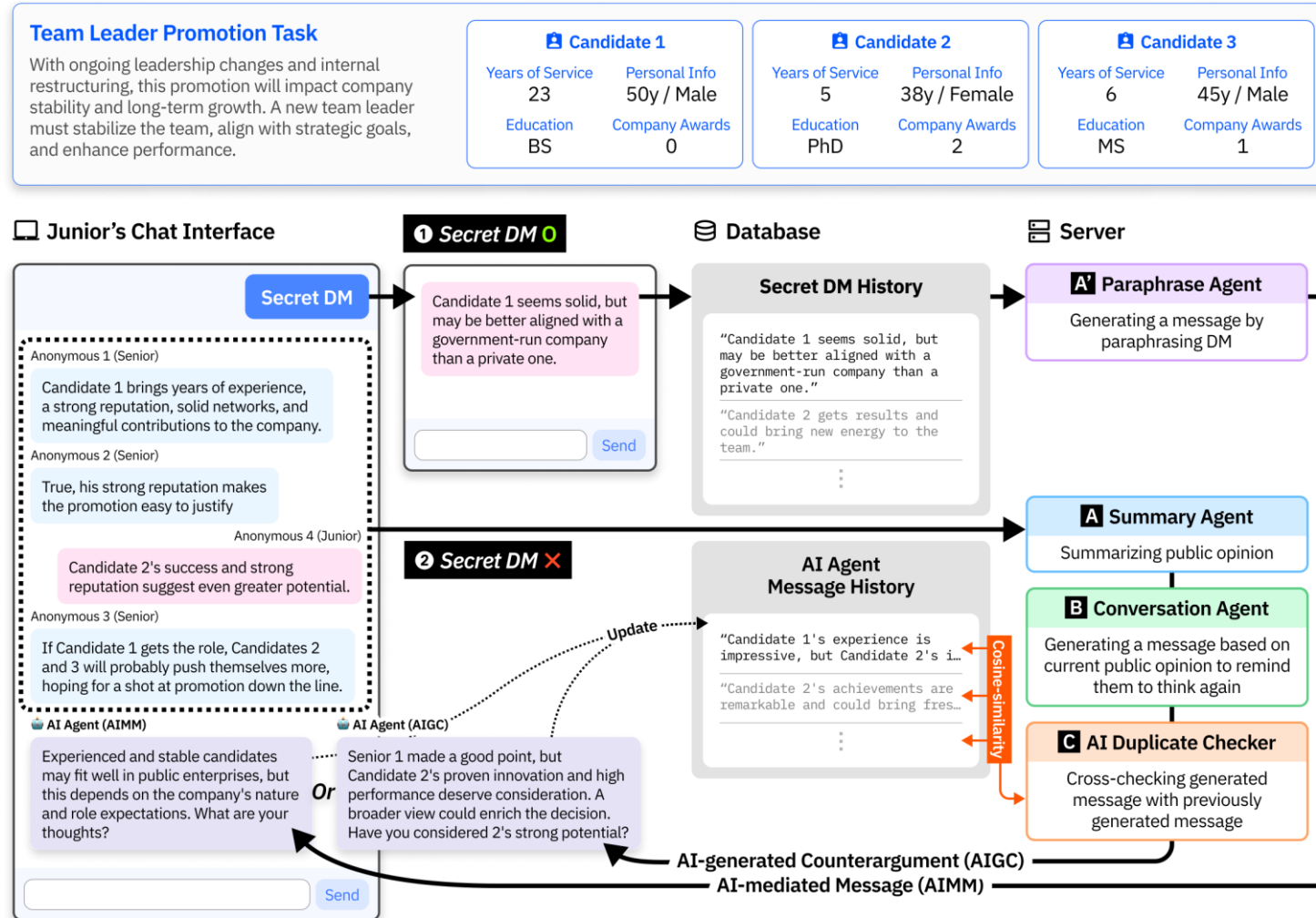
“To what extent do these conditions affect Perceived psychological safety (RQ1), Engagement (RQ2), Satisfaction with decision-making processes and outcomes (RQ3), and Cognitive workload of participants in hierarchical discussions (RQ4)?”



Since no member of the majority can distinguish whether a given message originates from the AI or the minority, the minority's anonymity remains protected.

Experimental Design

Task Example: Team Leader Promotion

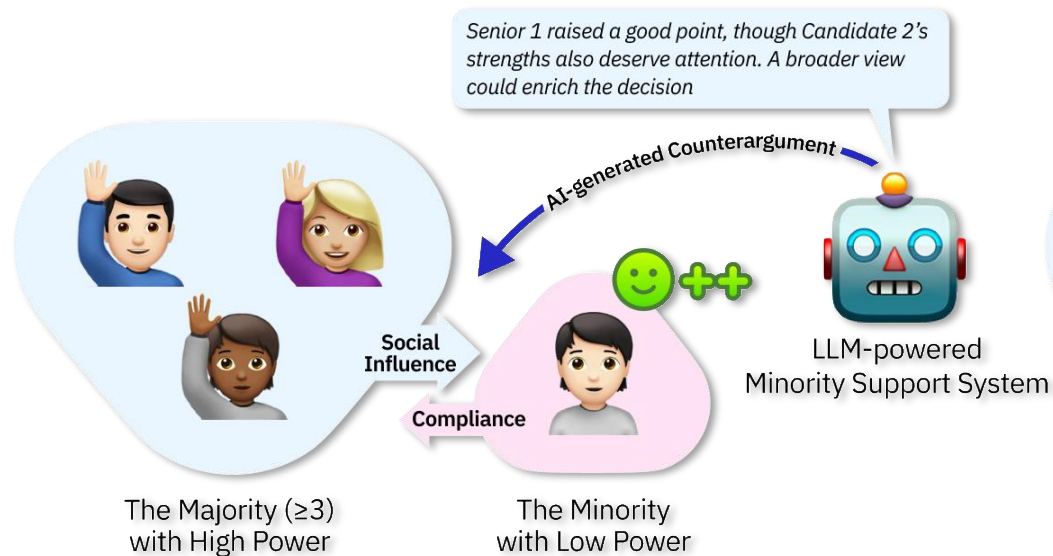


Key Findings

More voice did not mean a better experience.

Case 1

AI-generated Counterargument



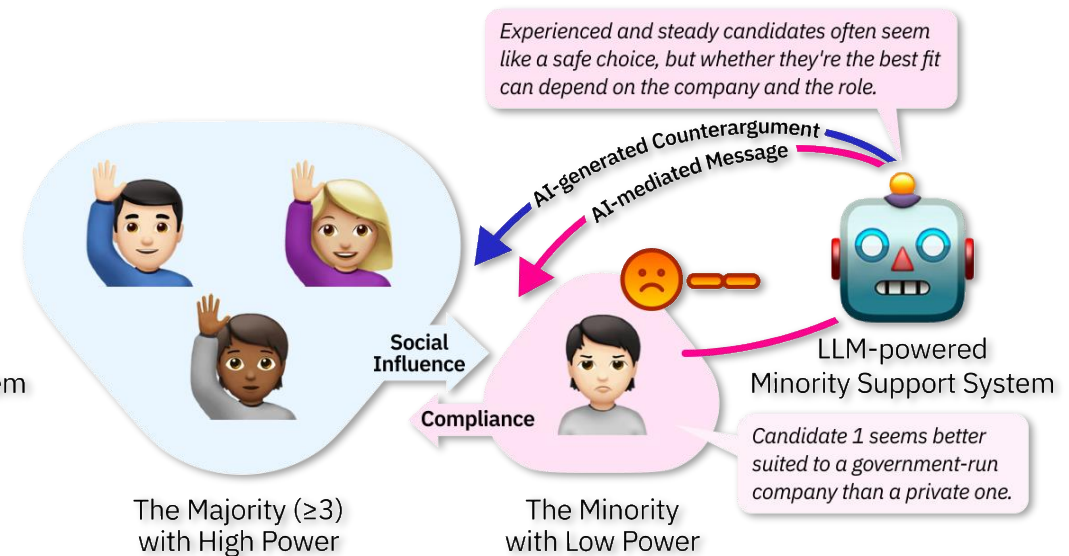
(B. AIGC Condition)

Broadened the discussion without appropriating the minority's voice

- More open group atmosphere
- Higher minority satisfaction
- Little added burden

Case 2

AI-mediated Message (with AIGC)



(C. AIMM Condition)

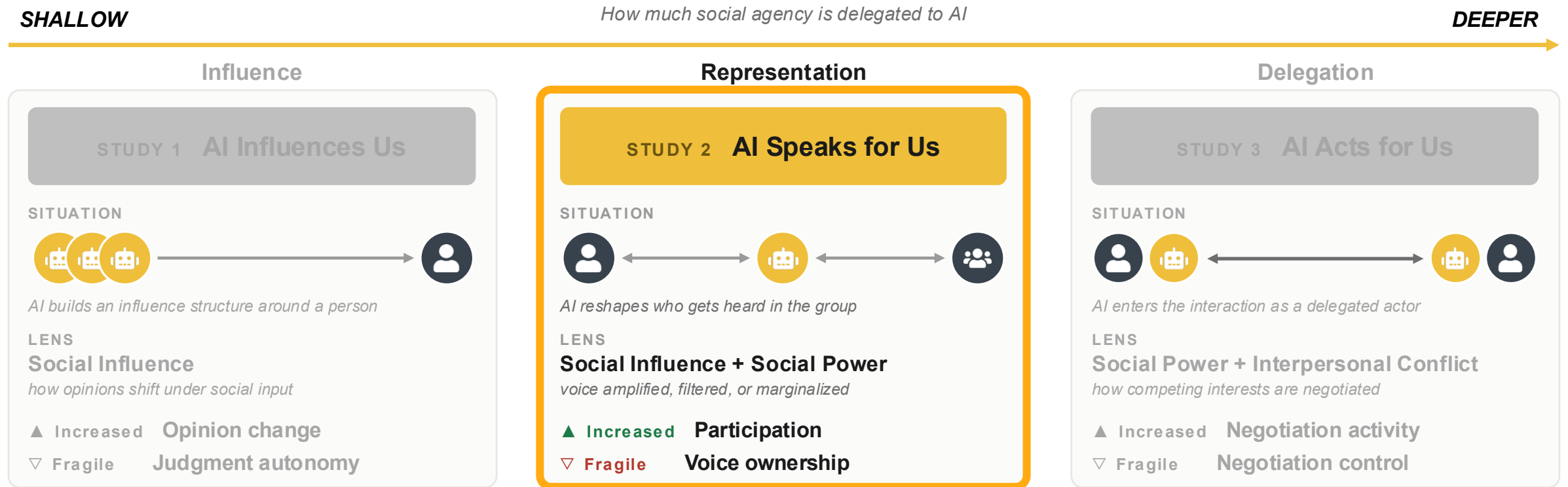
Increased expression, but weakened the minority's subjective experience

- More minority contribution
- Lower psychological safety and satisfaction
- Greater marginalization and workload
- Little effect on majority members

Summary

This dissertation treats LLMs as architectures of influence and tests this through three case studies.

AI not only supports decisions; it **reshapes the social situations** through which people think, speak, and act.



*“AI reconfigured who got to speak,
but **ownership** was left behind again.”*

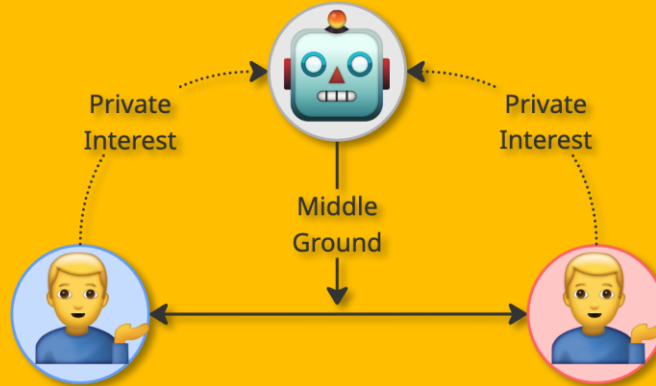
⚠ Problem

Case 3: AI Acts for Us

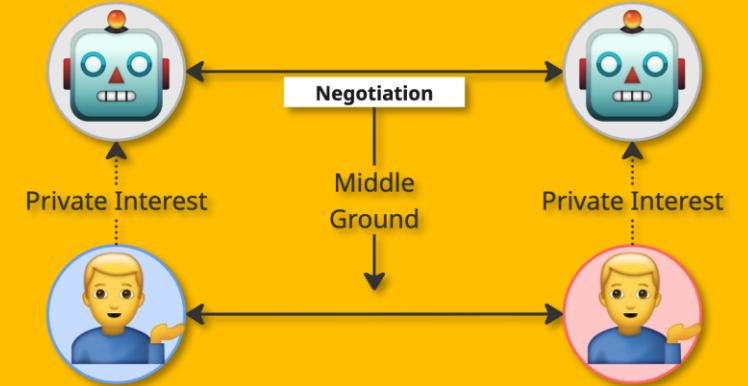
A. Baseline



B. Shared AI



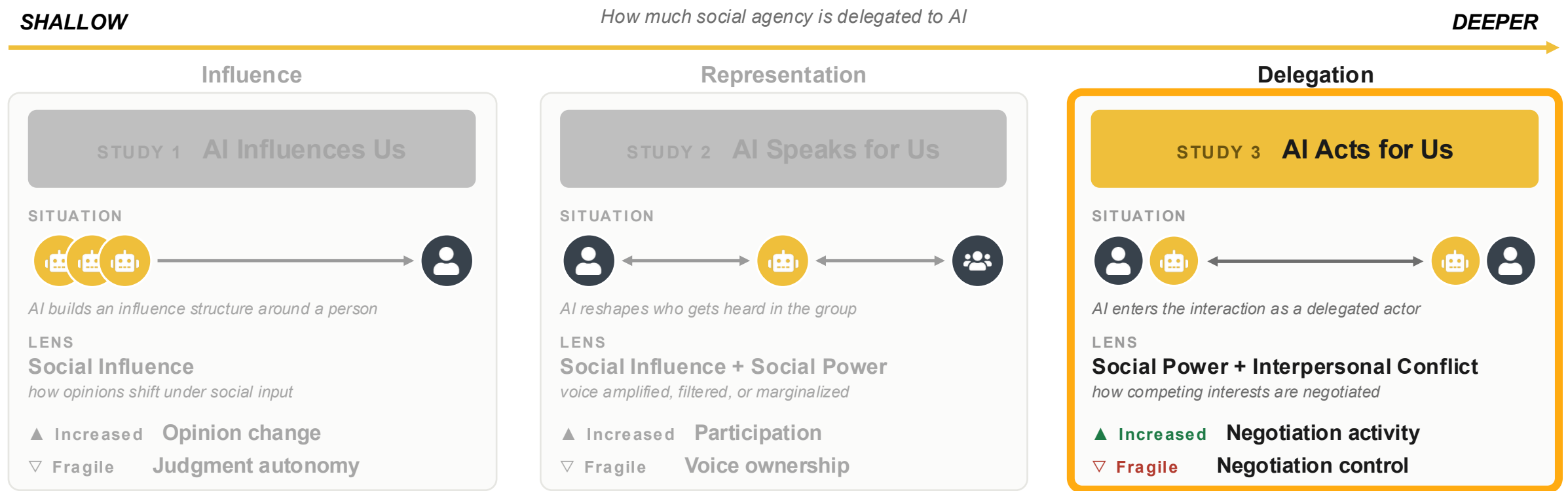
B. Personal AI



Approaches

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Multi-stakeholders' Decision-making



Value Visualization for Group Reflection

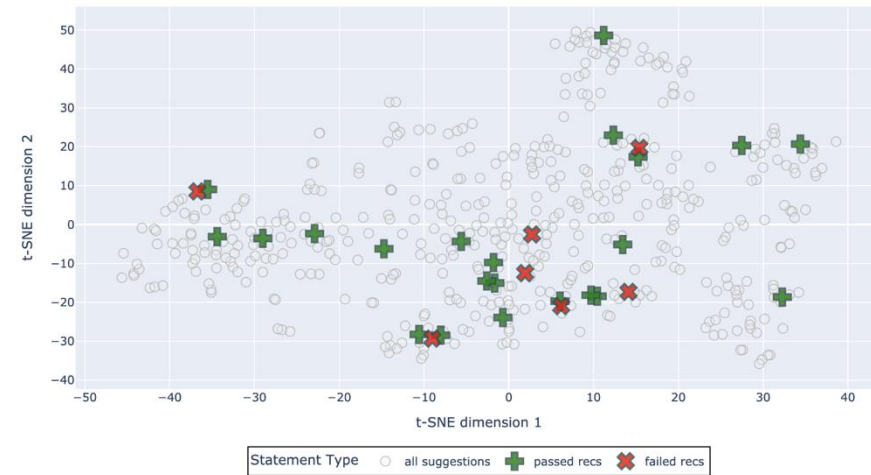


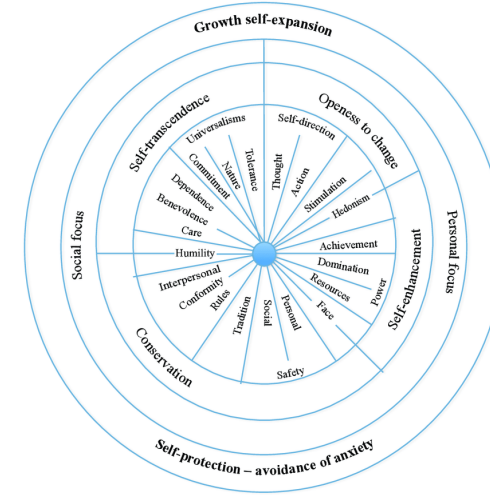
Figure 2: The embedding space of the extracted assembly suggestions and the final recommendations visualized in 2 dimensions using t-SNE. The gray circles represent the suggestions, the red X's represent final recommendations that ultimately failed in the final vote, and the green +'s represent final recommendations that passed the 80% approval in the final vote.

(ArXiv'25) Dialogue to Decision

Quick Prototype

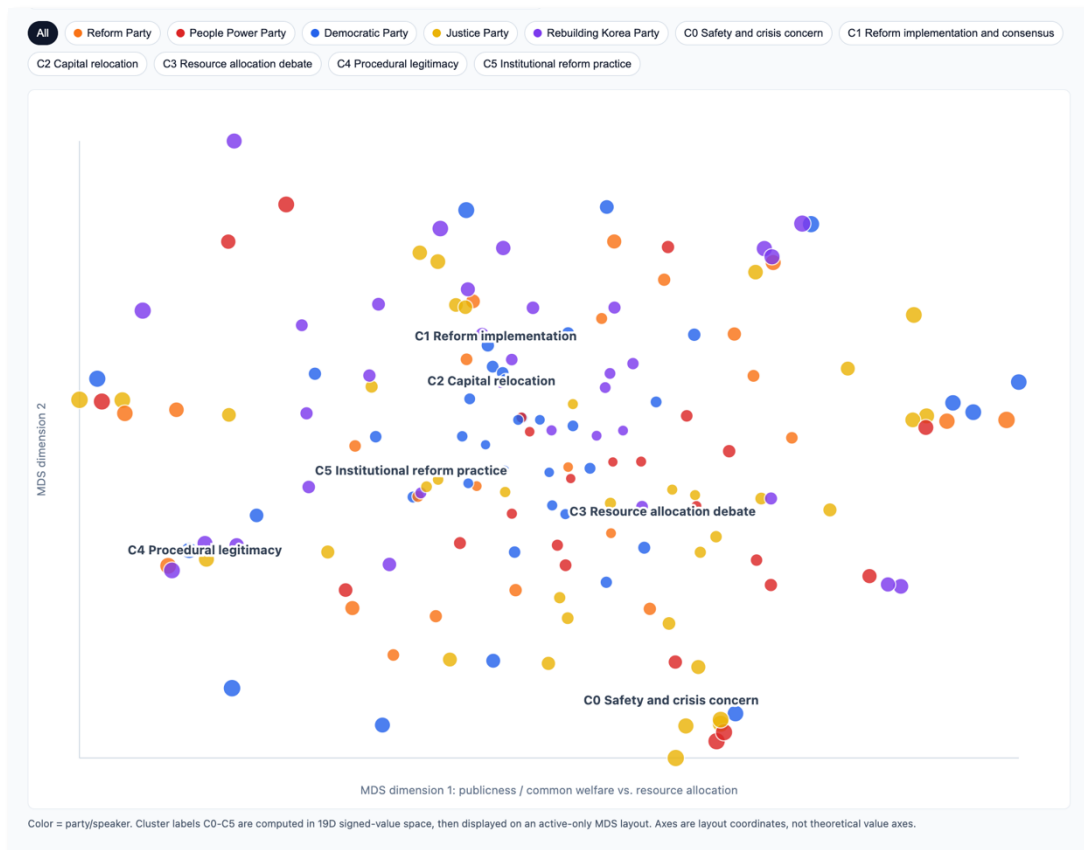


Political Group Discussion



Schwartz's Refined
Theory of Basic Individual Values

Quick Prototype

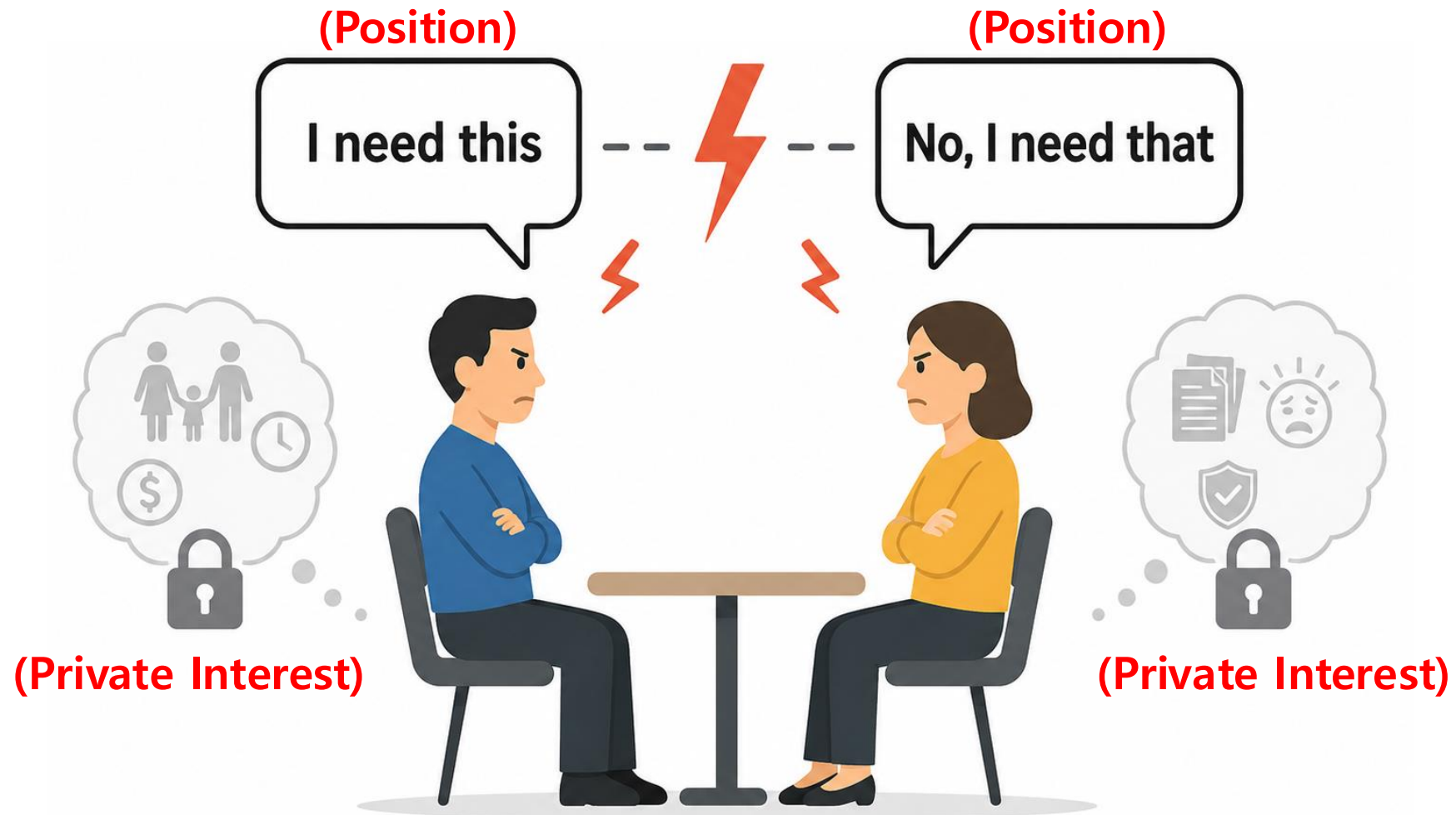


⚠ ISSUES:

1. Even if it is AI-based visualization, **visualization-based group reflection** has already been studied so extensively in existing communities such as CSCW research and VIS that it has no novelty.
2. The premise that conflicts go unresolved because people don't know each other's value differences may be an overstretched logic. In most cases they plainly know that their values differ, yet such cases often arise because **their interests do not align**.
3. **Schwartz 's human value dimensions** are such a **universal** value concept that they may not adequately reflect contexts where opinions disagree.
4. If AI is **passive**, it does not fit well with Soohwan's doctoral research projects to date.
5. **Problem context is so broad** that it must be made clear which problem to narrow down to in group decision-making.
6. Making values visually visible could instead reinforce group polarization. (But this could also turn out to be a design-wise valuable finding.)
7. A similar case of moving the current dialogue situation to a decision already exists: <https://www.ccc.mit.edu/project/dialogue-to-decision/>

Problem

Workplace Negotiation with Private Interest



Message Reframing

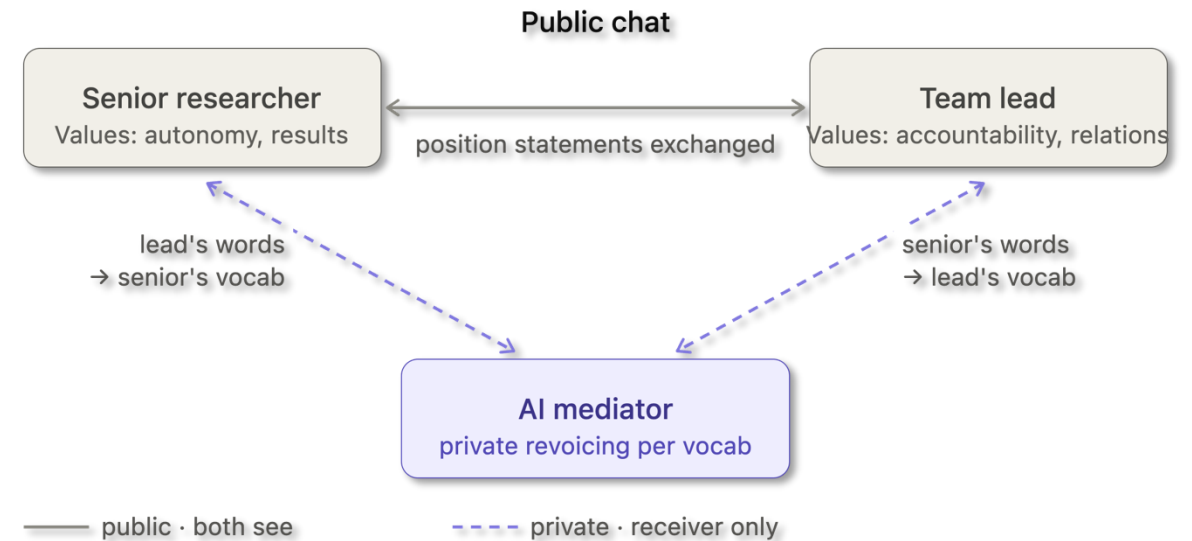
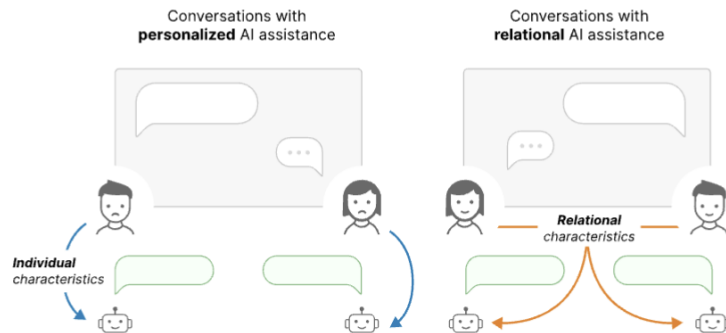
The idea that a **single AI** is aware of everyone's private interests could be a concern.

Relational AI: Facilitating Intergroup Cooperation with Socially Aware Conversational Support

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Mediation vs Proxy

Two Bots, One Couple: How Surrogate LLM Agents Shape Alliance, Fairness, and Relational Boundaries

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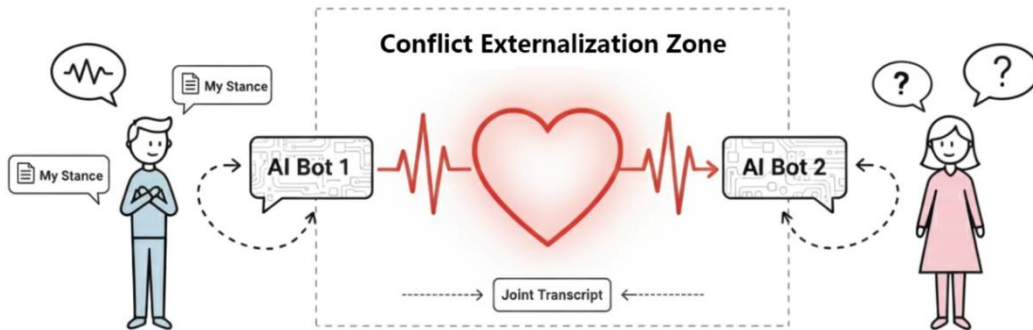
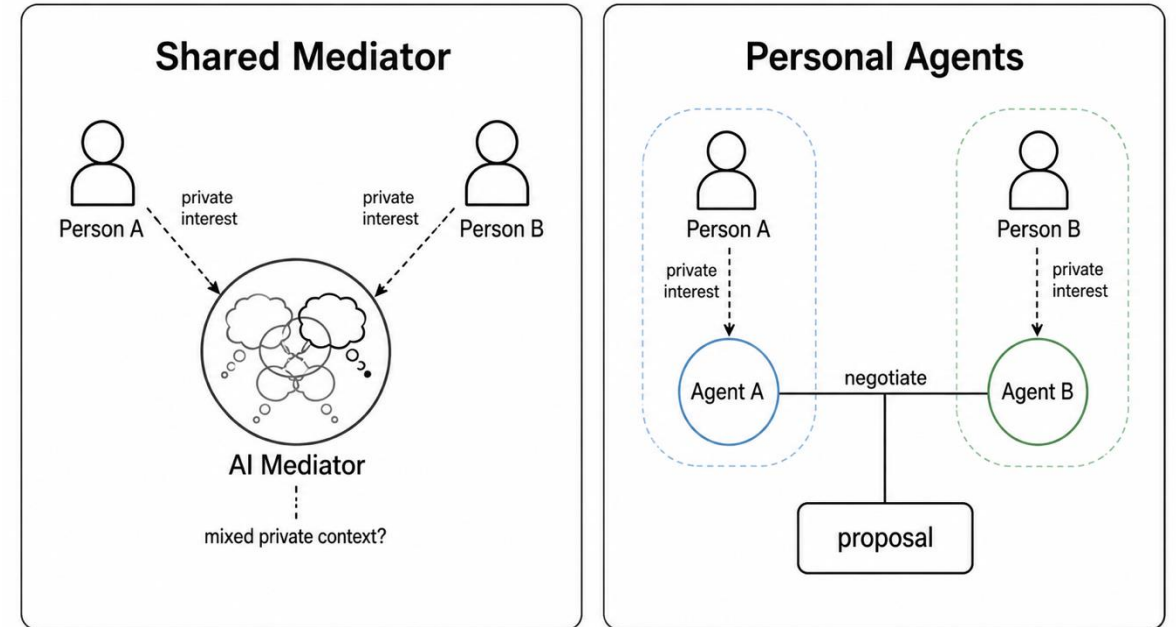


Figure 1: AI-Mediated Conflict Paradigm-Condition: Proxy-Agent Dialogue

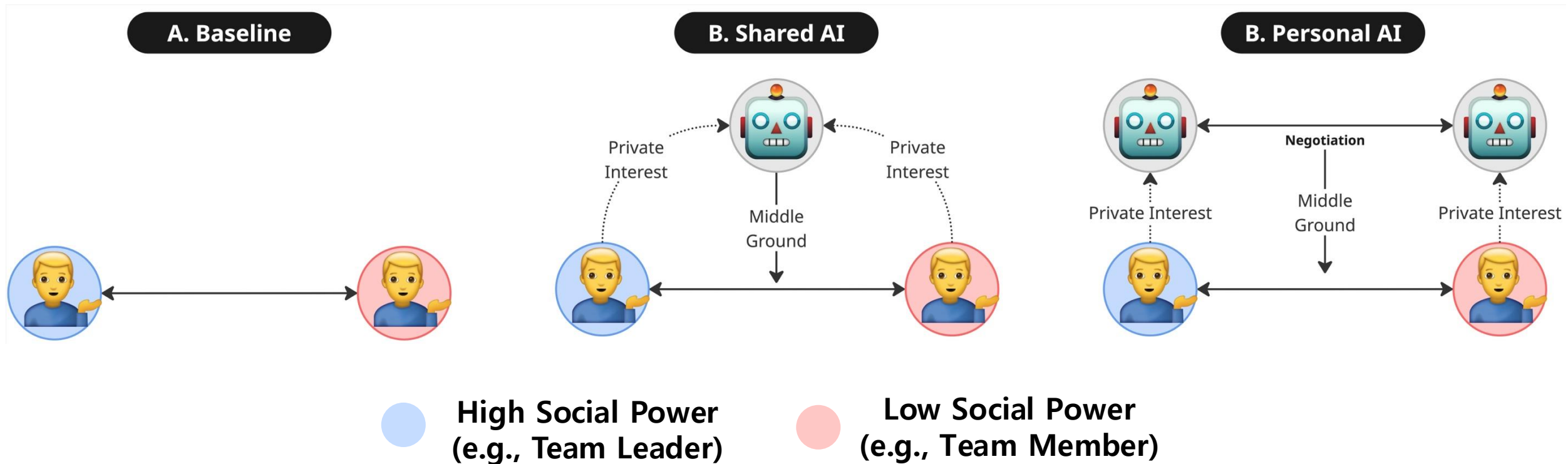


RQ & Experimental Design (Tentative)

RQ 1 How do shared **Shared AI and Personal AI** differently shape negotiation experiences?

RQ 2 How does **social power of participants** shape experiences of AI handling private interests?

RQ 3 How does social power moderate the effect of shared versus personal AI? (**Interaction Effect**)



Clear Research Scope & Questions

Problem

Under power asymmetry, private interests go unspoken →
position-based negotiation

More Clear Question

"Efficient resolution" → "designing the tension of reflecting sensitive interests"

Axis realignment

Comparing AI *form* (*shared AI vs personal AI*) →
comparing *how* private interest is handled

Status

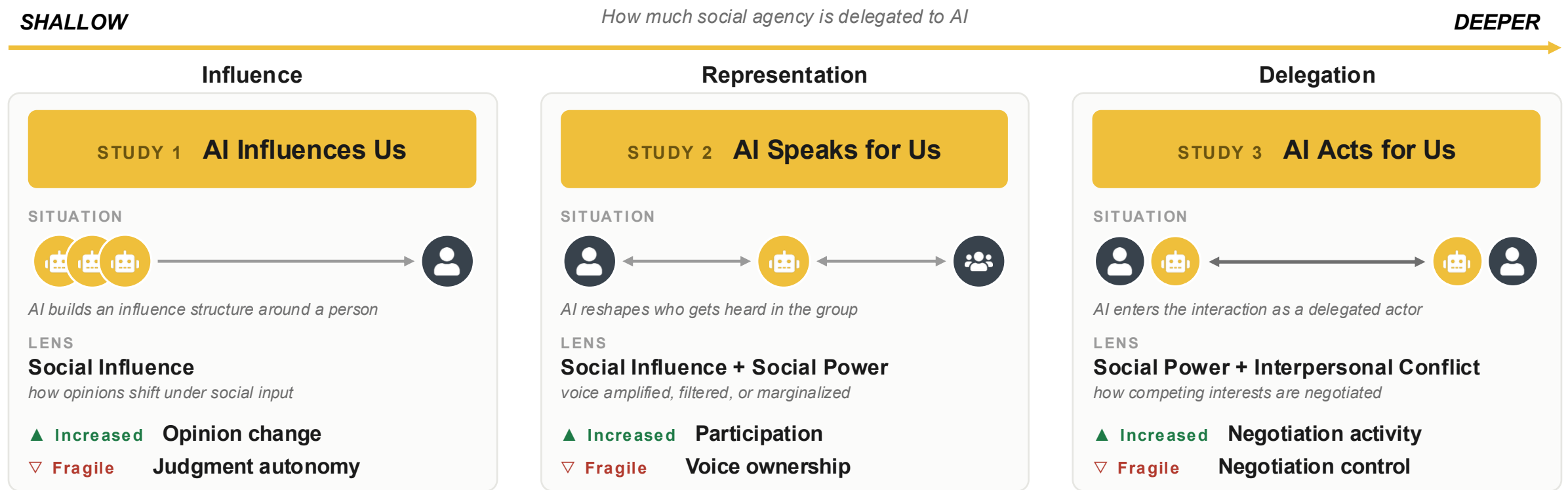
AI action behavior under discussion with collaborators

Future Vision

Conclusion (Tentative)

This dissertation treats LLMs as architectures of influence and tests this through three case studies.

AI not only supports decisions; it **reshapes the social situations** through which people think, speak, and act.



*“AI systems do not merely support group decision-making;
they reshape the social dynamics
through which people form, express, and negotiate their positions.”*



Kurt Lewin (1890–1947)
German-American social psychologist

Lewin's Field Theory

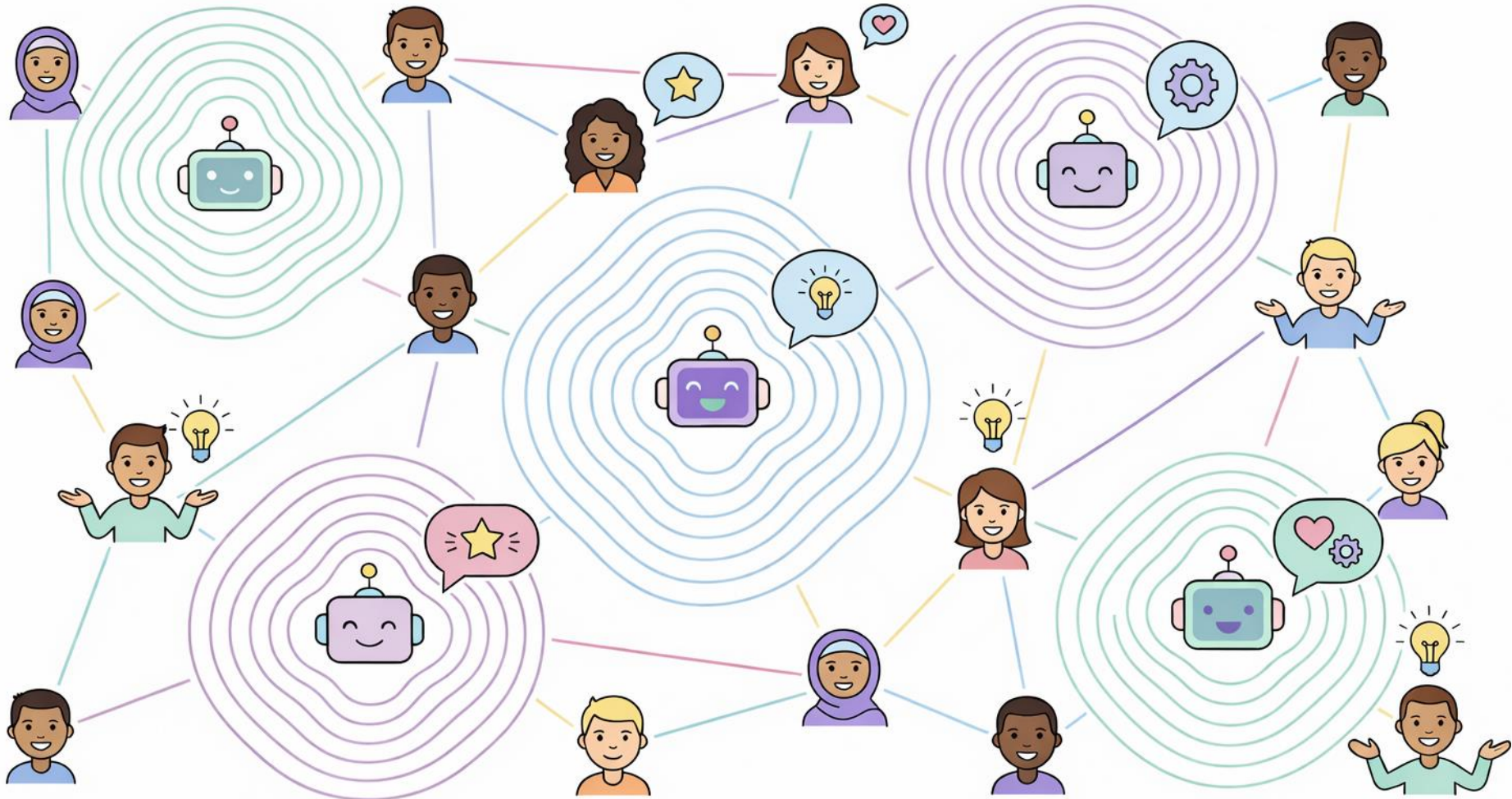
$$B = f(P, E)$$

*“Behavior(B) is a function of the person(P) and the **environment(E)**.”*

*“A **social field** is the total structure of psychological and social forces shaping an individual's behavior at a given moment.”*

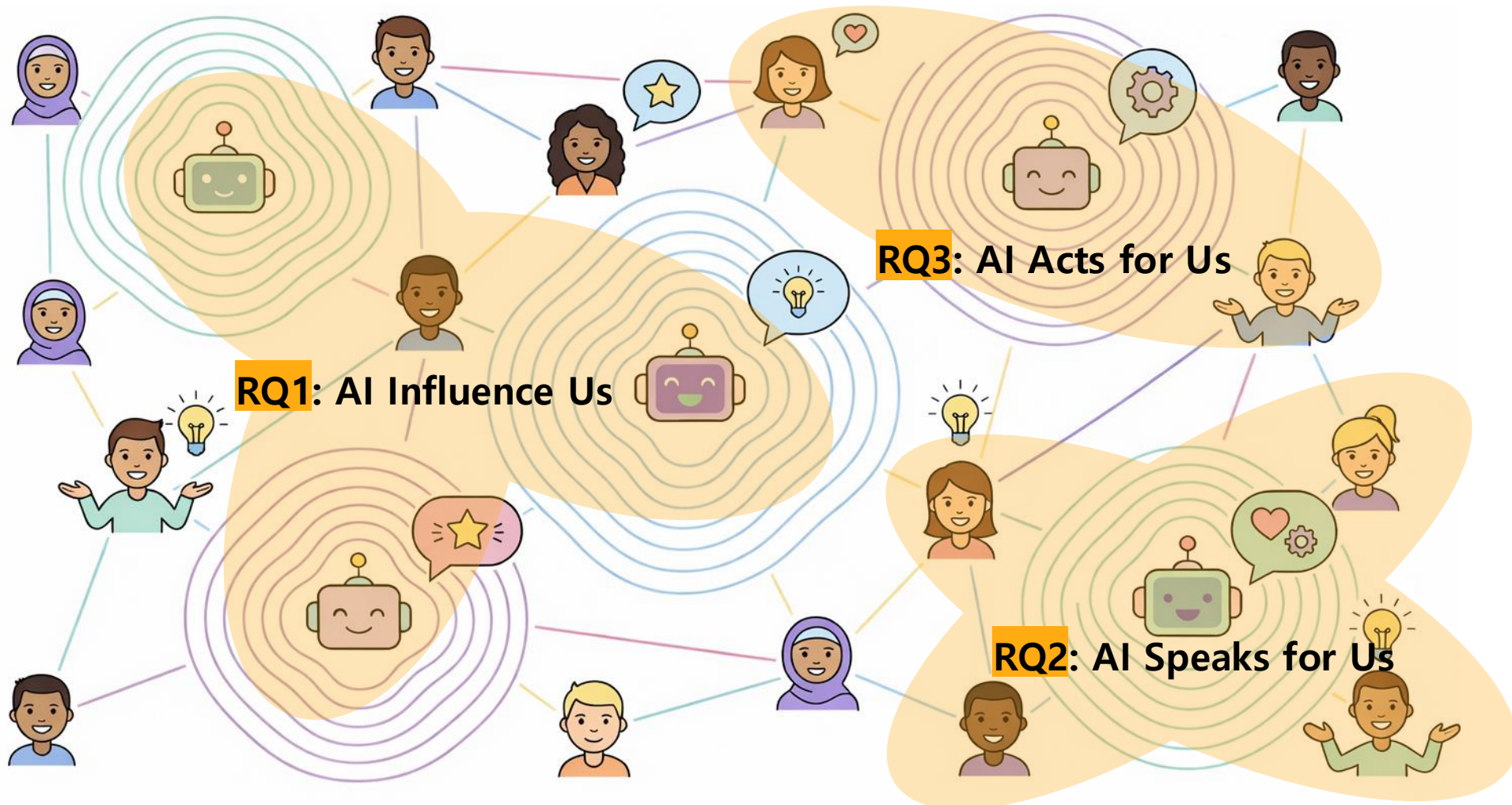
Future Vision

"AI can reshape social dynamics in group decision-making and can be designed to enable more diverse and inclusive collective decisions."



Future Vision

"AI can reshape social dynamics in group decision-making and can be designed to enable more diverse and inclusive collective decisions."



Beyond Individual UX: Defining Group Experience(GX) as a New Paradigm for Group-centered AI

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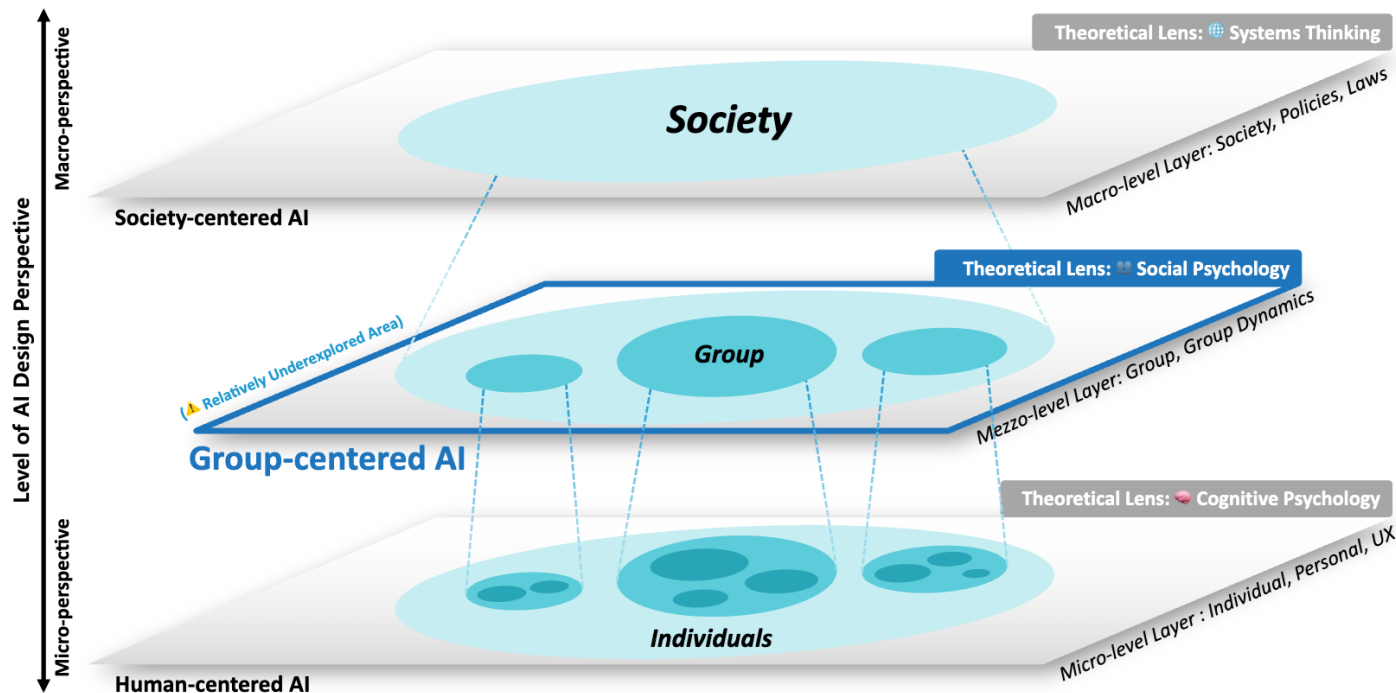


Figure 1: Group-centered AI: A three-tiered framework illustrating the relationship between human-centered AI (micro-level: individual, personal, UX), group-centered AI (mezzo-level: groups, organizations, group dynamics), and society-centered AI (macro-level: society, policies, laws). Dotted lines show connections between entities across levels, demonstrating how group dynamics bridge individual cognition and broader societal structures.

Q & A

- *Overall Dissertation: coherent dissertation narrative*
 - *Case 3: clearer research gap and RQ*

Any feedback or comments would be greatly appreciated.

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