

# How Psychological Experiences Shape Metaverse Adoption in Professional Settings: Evidence From China

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## KEY TAKEAWAYS

**Social presence** → immersive flow, which increases usefulness and adoption intention.  
**Technology anxiety** reduces adoption and weakens the flow → adoption effect.  
**Practical message:** design for presence & flow, then remove anxiety barriers (training + intuitive interfaces).

## PROBLEM AND MODEL

### Background

- The metaverse enables immersive digital workspaces for collaboration and decision-making.
- Psychological experiences (social presence, flow) can shape adoption beyond technical features.

### Gap

- Prior studies focus on technical features, neglecting psychological mechanisms in non-Western professional settings.

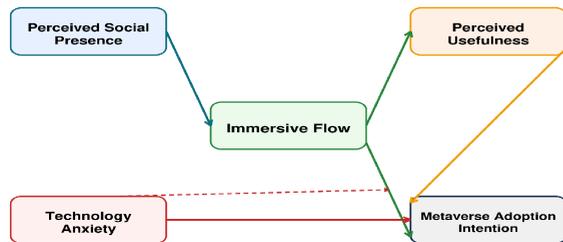
### Research Question

How do perceived social presence, immersive flow, perceived usefulness, and technology anxiety shape metaverse adoption intention among Chinese professionals?

## Hypotheses

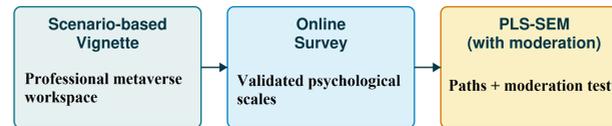
- H1: Social presence → Flow (+)
- H2: Flow → Usefulness (+)
- H3: Usefulness → Adoption intention (+)
- H4: Flow → Adoption intention (+)
- H5: Technology anxiety → Adoption intention (-)
- H6: Technology anxiety weakens Flow → Adoption (moderation, -)

## Conceptual Model



## METHOD

### Study Procedure



Behavioral realism: Participants first imagined a professional metaverse workspace before answering.

### Design, Sample & Measures

**Context:** Chinese professionals evaluating metaverse use in workplace collaboration.

**Sample:** N = 402; sectors: technology, education, marketing, services (China).

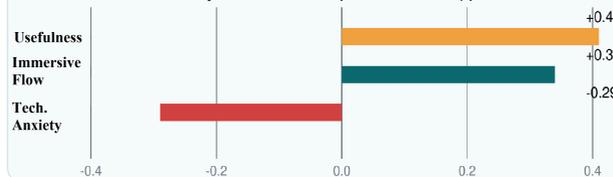
**Measures:** Social presence, immersive flow, perceived usefulness, adoption intention, technology anxiety (established scales).

**Analysis:** PLS-SEM with moderation; bootstrapped significance tests.

### Why this is credible

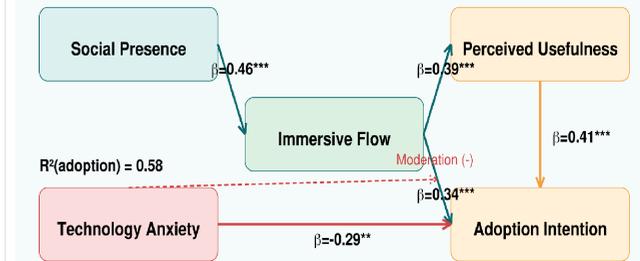
- Model explains 58% variance in adoption intention ( $R^2 = 0.58$ ).
- All hypothesized paths significant ( $p < 0.01$  or better).
- Scenario vignette increases psychological realism of professional metaverse use.

### Direct effects on adoption intention (standardized $\beta$ )



## RESULTS AND IMPLICATIONS

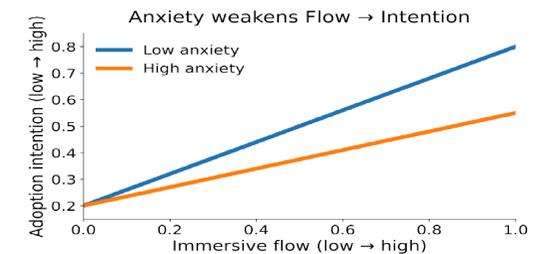
### Results at a Glance (PLS-SEM)



$R^2(\text{adoption}) = 0.58$

\*\*\*  $p < 0.001$  \*\*  $p < 0.01$

All the proposed hypotheses were accepted.



### Interpretation & implications

- Managerial: Design presence-rich collaboration (richer avatars, spatial audio, shared tasks) to trigger flow.
- Reduce anxiety through onboarding, training, and user-friendly interfaces.
- Theoretical: Demonstrates affective-cognitive interplay (flow + usefulness) shaping professional adoption.

**Keywords:** Metaverse adoption; Scenario-based research; Social presence; Immersive flow; Technology anxiety; Chinese professionals

### Key References (Selected):

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