

# **AIRS Practitioner Brief**

Understanding AI Adoption Readiness in Your Organization

*A research summary for organizational leaders and HR professionals*

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# 1 Why This Research Matters

Artificial intelligence tools are rapidly entering workplaces, yet many organizations struggle to achieve expected value from AI investments. Understanding the psychological factors that influence AI adoption can help inform evidence-based approaches to technology implementation.

## 1.1 What We Studied

We surveyed 523 professionals and students in the United States to understand what factors predict intention to adopt AI tools. The research validated a new diagnostic instrument, the **AI Readiness Scale (AIRS)**, and tested which factors most strongly predict adoption intention. The 8-factor structure enables identification of specific adoption barriers that can inform targeted intervention design.

## 1.2 Key Insights

### 1.2.1 1. Cost-Benefit Perception Matters Most

**Price Value emerged as the strongest predictor of AI adoption intention** ( $\beta = .505$ ,  $p < .001$ ). This construct measures whether individuals perceive AI tools as providing good value relative to their cost, including time, effort, and financial investment.

*Research implication:* Future studies should investigate whether emphasizing concrete benefits and reducing perceived costs increases adoption intention.

### 1.2.2 2. Enjoyment Drives Engagement

**Hedonic Motivation was the second strongest predictor** ( $\beta = .217$ ,  $p = .014$ ). Users who find AI tools interesting and enjoyable to use show significantly higher adoption intention.

*Research implication:* User experience quality and intrinsic enjoyment may be important factors for future intervention research to explore.

### 1.2.3 3. Social Factors Influence Decisions

**Social Influence significantly predicted adoption** ( $\beta = .136$ ,  $p = .024$ ). When colleagues, supervisors, and respected others use AI tools, individuals report higher adoption intention.

*Research implication:* Peer influence and visible leadership adoption warrant investigation as potential mechanisms for increasing organizational AI adoption.

#### **1.2.4 4. Traditional Drivers Don't Predict AI Adoption**

Surprisingly, factors that typically drive technology adoption (Performance Expectancy, Effort Expectancy, Facilitating Conditions, and Habit) did **not** significantly predict AI adoption. This suggests AI may represent a psychologically distinct technology category.

*Research implication:* AI adoption may require different frameworks than general technology adoption, meriting further theoretical development.

### **1.3 Four User Segments Identified**

Our research identified four distinct adoption profiles:

<b>Segment</b>	<b>% of Sample</b>	<b>Characteristics</b>
<b>AI Enthusiasts</b>	16%	High trust, low anxiety, strong adoption intention
<b>Cautious Adopters</b>	30%	Moderate trust, evaluative stance, open to evidence
<b>Moderate Users</b>	37%	Balanced profiles, pragmatic adoption approach
<b>Anxious Avoiders</b>	17%	Elevated anxiety, low trust, resistance to adoption

Table 1: User Segment Profiles. *Source: Compiled by Author*

*Research implication:* These segments provide testable hypotheses for future intervention research. Whether different user types respond to different adoption strategies requires experimental validation.

### **1.4 What This Research Contributes**

- 1. A validated diagnostic instrument** (AIRS) that researchers can use to assess AI adoption readiness and identify specific barriers across diverse populations
- 2. Evidence that AI adoption psychology differs from general technology adoption**, suggesting the need for AI-specific research frameworks
- 3. A foundation for future research** investigating how to support AI adoption in organizational contexts through targeted interventions

## 1.5 Important Limitations

This research provides a **foundation for understanding** AI adoption factors, not a prescriptive implementation guide:

- **Cross-sectional design:** We measured associations, not causal effects
- **Panel sample:** While topic-blinded recruitment mitigates self-selection, results may not generalize to all organizational contexts
- **No intervention testing:** The effectiveness of strategies based on these findings requires experimental validation

## 1.6 Future Research Directions

The validated AIRS diagnostic instrument enables future studies to:

- **Test interventions** that target Price Value, Hedonic Motivation, and Social Influence
- **Track adoption longitudinally** to understand how readiness evolves over time
- **Validate across contexts** including different industries, organizational sizes, and cultures
- **Develop formalized diagnostic protocols** for organizational assessment and barrier identification

## 1.7 Using AIRS in Research

The 16-item AIRS diagnostic instrument is available for research purposes. Researchers may use the validated instrument for:

- Organizational AI readiness diagnostic assessment studies
- Pre/post intervention research designs
- Cross-cultural validation studies
- Longitudinal adoption tracking research
- Barrier identification and intervention targeting

*Note: Organizational implementation guidance and formalized diagnostic protocols are beyond the scope of this foundational validation research. Future studies should test whether AIRS scores predict actual adoption behavior and whether targeted interventions improve adoption outcomes.*