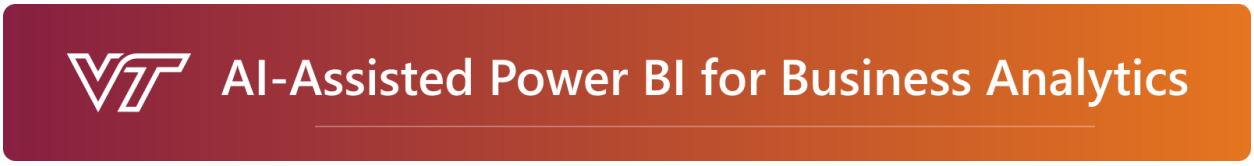

Figure 1: AI-Assisted Power BI for Business Analytics

Lab AIRS-01: AI Readiness Baseline Assessment

Module 1: The AI-Powered Analytics Landscape

Duration: 15 minutes **Platform**: airs.correax.com **Deliverable**: Completed AIRS-16 assessment + personal reflection

Learning Objectives

By the end of this lab, you will be able to:

- Complete a validated psychometric instrument measuring AI readiness
- Self-assess your current attitudes toward AI across 8 dimensions
- Establish a personal baseline for tracking growth throughout the course
- Understand the theoretical foundations of technology adoption research

About AIRS-16

The **AI Readiness Scale (AIRS-16)** is a validated psychometric instrument developed to measure individual readiness for AI adoption. It adapts the extended Unified Theory of Acceptance and Use of Technology (UTAUT2) framework specifically for AI contexts.

Validation Statistics

Metric	Value	Threshold
Sample Size	N = 523	-
CFI	.975	$> .95$
TLI	.960	$> .95$
RMSEA	.053	$< .06$
Variance Explained (R^2)	.852	-

The 8 Constructs

Construct	Code	What It Measures
Performance Expectancy	PE	*"AI helps me be more productive"*
Effort Expectancy	EE	*"AI tools are easy to use"*
Social Influence	SI	*"My colleagues encourage AI use"*
Facilitating Conditions	FC	*"My organization supports AI adoption"*
Hedonic Motivation	HM	*"I enjoy exploring AI capabilities"*
Price Value	PV	*"The benefits of AI outweigh the effort"*
Habit	HB	*"Using AI has become automatic for me"*
Trust in AI	TR	*"I trust AI systems to be reliable"*

Exercise Instructions

Step 1: Access the Assessment Platform (2 min)

1. Open your browser and navigate to airs.correax.com/assessment
2. Create an account using your **@vt.edu email address**
3. This email links your pre and post assessments for growth tracking

Step 2: Complete the AIRS-16 Assessment (5 min)

1. Read each of the 16 statements carefully
2. Rate your agreement on the provided scale (1-5)
3. Answer based on your **current** feelings, not aspirations
4. There are no right or wrong answers — be honest

   Important: Your individual responses are confidential. Only anonymized aggregate data will be used for course research.

Step 3: Review Your Results (3 min)

After completing the assessment, you'll see your scores across the 8 dimensions:

- **High scores (4-5)**: Areas of strength and confidence
- **Mid scores (3)**: Neutral or developing areas
- **Low scores (1-2)**: Potential growth opportunities

Take a screenshot or note your scores — you'll compare these at the end of the course.

Step 4: Personal Reflection (5 min)

In your **Prompting Journal**, reflect on:

1. **Which construct scored highest?** Why might that be?
2. **Which construct scored lowest?** What experiences shaped this?
3. **What do you hope to learn** in this course that might shift these scores?
4. **One specific goal**: By Module 6, I want to improve my _____ score.

Research Participation

Your assessment data contributes to a longitudinal research study examining how AI-focused coursework impacts readiness and appropriate reliance.

Research Questions: - Does hands-on AI experience increase readiness scores? - Which dimensions show the most change after structured learning? - Is there a relationship between AI readiness and course performance?

Your Rights: - Participation is voluntary (assessment counts for engagement, not grade) - Data is de-identified before analysis - You may request your data be excluded from research - Individual results remain private

See LONGITUDINAL-STUDY-PLAN.md for full study design.

Completion Checklist

- ☐ Created account at airs.correax.com with VT email
- ☐ Completed all 16 items on the AIRS assessment
- ☐ Reviewed my scores across 8 dimensions
- ☐ Recorded baseline scores in Prompting Journal
- ☐ Wrote personal reflection (1 paragraph minimum)
- ☐ Set one specific growth goal for Module 6

Further Reading

- Venkatesh, V., et al. (2012). Consumer acceptance and use of information technology: Extending the unified theory of acceptance and use of technology. *MIS Quarterly*, 36(1), 157-178.
- Correa, F. (2026). AIRS-16: Measuring AI readiness appropriate reliance. *Working paper*.

This assessment establishes your baseline for the course. In Module 6, you'll retake AIRS-16 to measure your growth and analyze the class cohort data.