October 28-29, 2025
Orlando, FL

TRANSPORTATION SYMPOSIUM

AI Current & Potential Future Use Cases

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Transportation Symposium
Website

SCAN ME

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Session Objectives:

🏛️	**Foundation & Context**	📋	**Policy & Compliance**
🤝	**Support & Enablement**	⚙️	**Practical Implementation**
📊	**Proof & Results**	🔮	**Future & Vision**

TRANSPORTATION SYMPOSIUM

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What is Artificial Intelligence?

The development of computer systems that can perform tasks typically requiring human intelligence, such as:

- Visual perception
- Speech recognition
- Decision-support
- Language translation
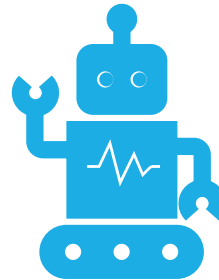
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AI Implementation Guidance

Transformative Potential

Comprehensive Framework

Clear Guidance and Support

Recognition Program

Culture of Innovation

Vision for the Future

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Artificial Intelligence Policy

Applies to all AI tools used by FDOT staff, vendors, consultants, and contractors

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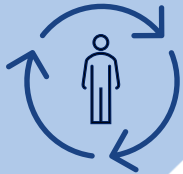
Human in the Loop

➢ AI enhances human work—it does not replace it.

➢ Humans stay engaged at every stage.

➢ People own the outcomes

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Transparency and Accountability

➢Be clear about how AI systems work.

➢Disclose AI involvement upfront.

➢Document and track AI usage.

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Ethics

➢Design AI to avoid bias in decision-making.

➢Comply with all legal and department requirements.

➢Assess the human impact.

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Security

➢Use only approved AI tools

➢Protect FDOT systems and data

➢Security applies everywhere

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Privacy & Data Protection

➢Validate all AI outputs.

➢Respect Florida's public records laws.

➢Build privacy into AI from the start.

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AI-Ready from Day 1

FDOT Employee Handbook

In Progress

AI policy and guidelines integrated into standard onboarding materials for all employees

CBT Onboarding Module

Interactive computer-based training on AI fundamentals and responsible use

✓ **Includes Checkpoint Quiz:**

⭐ Reinforces responsible AI use

🎓 Confirms comprehension

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AI for FDOT Contractual Frameworks

Appendix II, Information Technology Resources
- Establishes standardized criteria for vendor IT project execution.
- Ensures security, efficiency, and compliance with applicable state and FDOT standards.

Standard Professional Services Agreement
- Defines contractual framework for engaging professional consultants.
- Ensures transparency, legal compliance, and operational consistency.

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AI Meeting Framework

- Enable AI-assisted meeting notes while maintaining compliance with AI policy.
- Improve documentation accuracy.
- Balance innovation with public records and privacy requirements.
- Provide tiered guidance by meeting type and content.

When in doubt about classification, consult the Office of General Counsel

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FDOT AI Hub
Your Central Resource for AI Innovation

Submit an AI Idea
Propose innovations to improve operations, safety, or efficiency

Request AI Software
Submit an IRR to request approval for specific AI tools

Learn About AI
Access guides, policies, and best practices for AI at FDOT

Early Evaluation & Expert Guidance
The AI Hub provides early-stage assessment of feasibility, alignment with FDOT goals, and standards for AI usage, ethics, and compliance

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Knowledge Base: Key Highlights

Implementation Guides

Step-by-step guides for approved AI tools and best practices

Approved AI Plans

Review successful implementation examples and learn from real projects

Policy & Standards

Current AI policies, compliance requirements, and FDOT-specific standards

Prompting Techniques

Effective strategies and examples for getting the best results from AI

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FDOT Approved AI Tools for Pilot

✳ Claude
BY ANTHROP\C

Copilot

Google Gemini

Strengths:
- Advanced reasoning
- Robust safety features
- Exceptional analysis & writing
- Interactive content generation

Best for:
- Policy analysis
- Long-form reports
- Research synthesis
- Complex coding tasks

Strengths:
- Seamless M365 integration
- Enterprise-grade security
- Government compliance

Best for:
- Productivity enhancement
- Document management
- Workflow automation

Strengths:
- Fast response times
- Multimodal processing
- Extensive context handling

Best for:
- Document processing
- Data analysis
- Content creation
- Real-time web search

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AI in Action

**OIT HR Hiring
Process Efficiency**

**PALM
Remediation**

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Office of Information Technology
HR Hiring Process Efficiency

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Hiring Process Efficiency

Goal

Identify opportunities to enhance HR efficiency by comparing AI-assisted outputs with traditional processes and determining optimal tools for each stage.

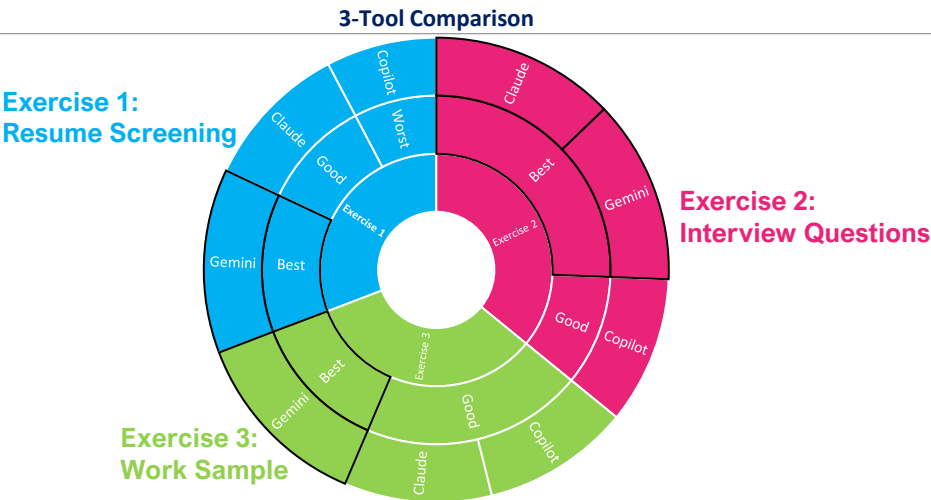## Strategy

Pilot three AI tools for the "Enterprise Technical Analyst" position to evaluate impact on recruitment speed, candidate assessment, and time-to-hire.

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Pilot Results: AI Tool Performance Comparison

Identical exercises for objective comparison.

3-Tool Comparison

Exercise 1: Resume Screening

Exercise 2: Interview Questions

Exercise 3: Work Sample

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Key Insights

Volume Limitation: No single AI tool could process all 74 resumes, indicating the need for a multi-tool approach or expanded platform options.

Gemini was best at:
- Processing large batches of files in multiple formats.
- Delivering comprehensive, digestible summaries.

Claude was best at:
- Handling complex, multi-step reasoning.
- Providing proactive insights beyond requests.

Copilot was best at:
- Executing straightforward tasks with concise outputs
- Enabling seamless M365 sharing and collaboration.
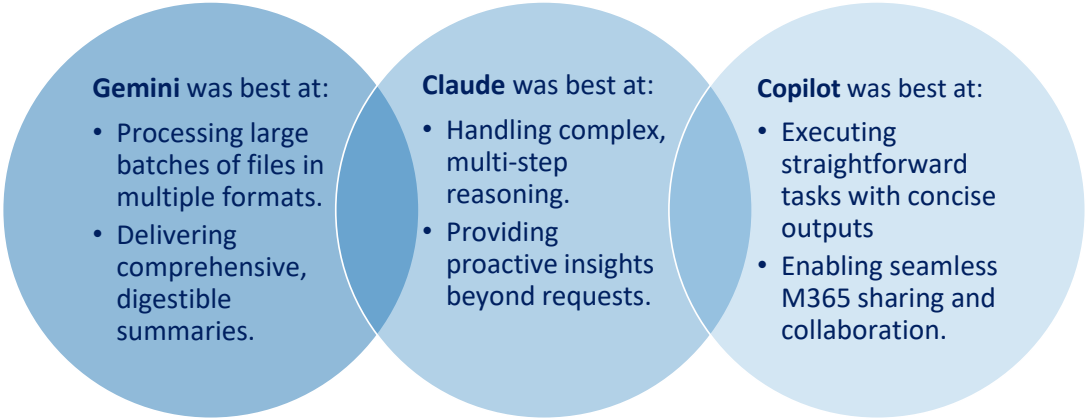
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Recommendations for Future Use

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Mitigate False Positives
- Prioritize objective data sources
- Exercise caution when using subjective materials

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Sample and Validate Outputs
- Never accept AI rankings at face value
- Establish validation protocols
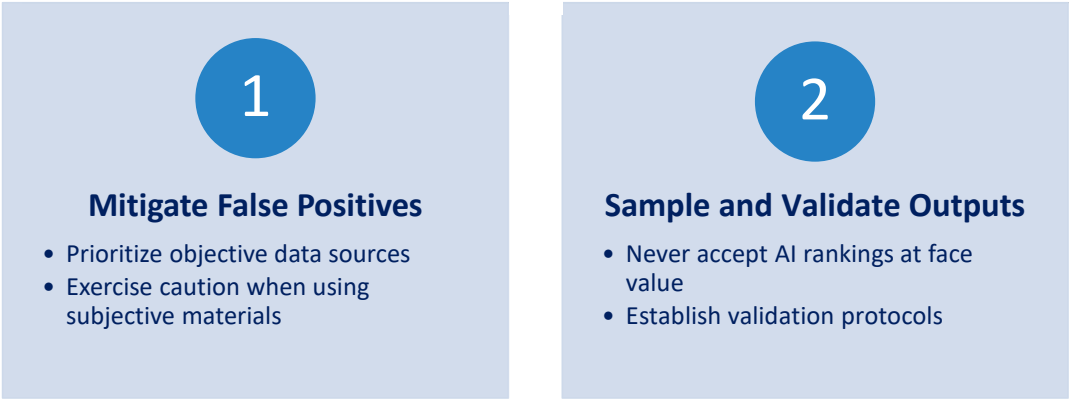
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PALM Remediation

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What is PALM?

Planning, Accounting, and Ledger Management

Statewide Initiative

- ‣ Replacing Florida's 40-year-old FLAIR accounting system
- ‣ Multi-phase implementation across all state agencies
- ‣ Modern financial management solution for the entire state

FDOT's Challenge

- ‣ Millions of lines of legacy mainframe code to analyze
- ‣ 55 new PALM interfaces (4,377 data fields)
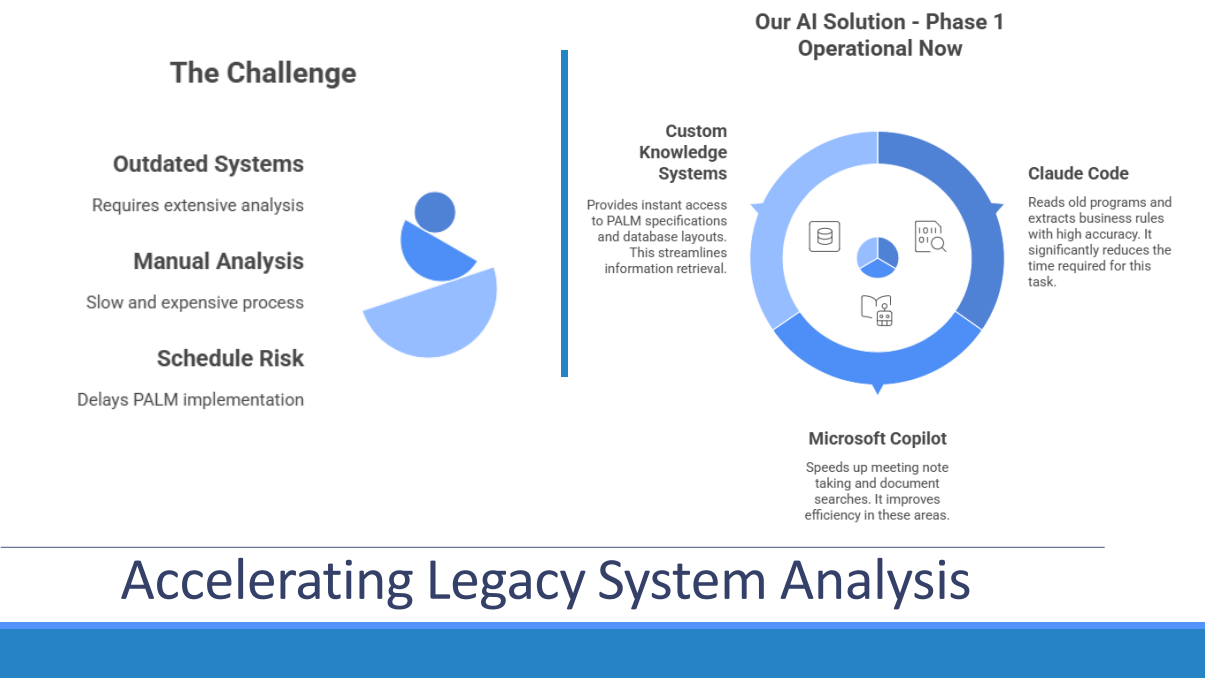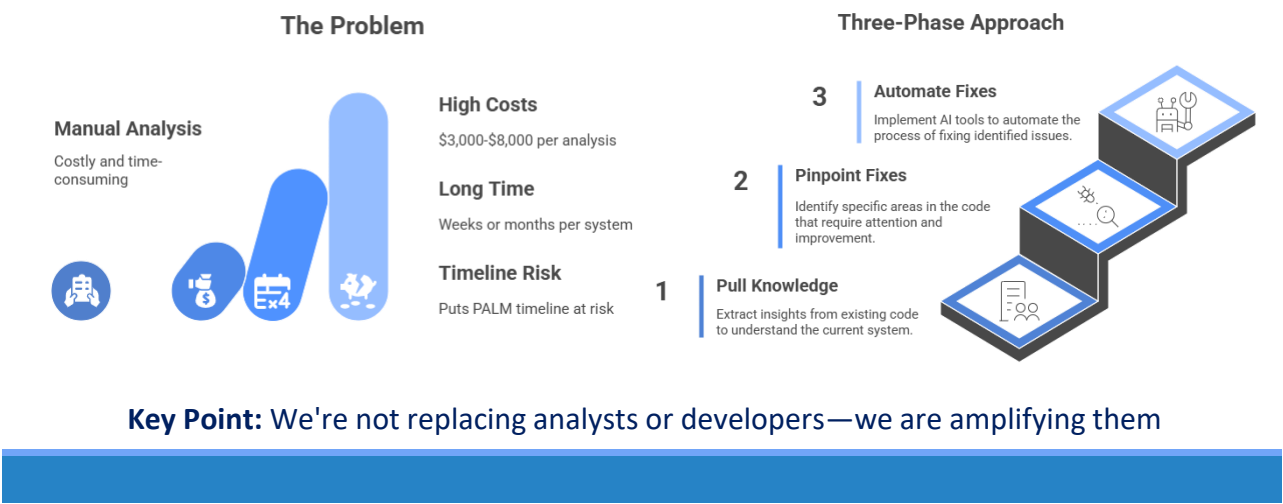- ‣ Multiple business systems must connect to PALM

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The Challenge

Outdated Systems

Requires extensive analysis

Manual Analysis

Slow and expensive process

Schedule Risk

Delays PALM implementation

Our AI Solution - Phase 1 Operational Now

Custom Knowledge Systems

Provides instant access to PALM specifications and database layouts. This streamlines information retrieval.

Claude Code

Reads old programs and extracts business rules with high accuracy. It significantly reduces the time required for this task.

Microsoft Copilot

Speeds up meeting note taking and document searches. It improves efficiency in these areas.

Accelerating Legacy System Analysis

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Why This Matters

The Problem

Manual Analysis

Costly and time-consuming

High Costs

$3,000-$8,000 per analysis

Long Time

Weeks or months per system

Timeline Risk

Puts PALM timeline at risk

Three-Phase Approach

3 Automate Fixes

Implement AI tools to automate the process of fixing identified issues.

2 Pinpoint Fixes

Identify specific areas in the code that require attention and improvement.

1 Pull Knowledge

Extract insights from existing code to understand the current system.

Key Point: We're not replacing analysts or developers—we are amplifying them

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Results That Prove It Works

Types of Analysis Completed:
- Old program analysis
- Mapped all 55 PALM interfaces
- System connections and compatibility checks
- Documentation searches and gap identification
- Test scenario generation

Code Generation:
- API interfaces
- Data interfaces
- Transformation scripts
- Data integrations

What we Measure:

Metric	Result
Cost	$50-100 per AI analysis vs. $3,000-8,000 manual
Speed	Hours vs. weeks
Quality	Consistent, thorough analysis
Accuracy	Catches problems early

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Next Steps & Training Our Team

Phase 2: Target What Needs Fixing
- AI identifies specific code sections needing PALM updates
- Ranks priorities by complexity
- Recommends best approaches
- **Generate business rules engines** to replace legacy logic

Phase 3: Help Automate Updates
- Assist with code transformation
- Generate automated tests
- Continuous validation to increase quality

Training Our People
- Created "AI-Powered Code Analysis Training Guide"
- Designed for analysts who've never used AI
- **Goal:** Amplify capabilities, not replace people

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Key Considerations

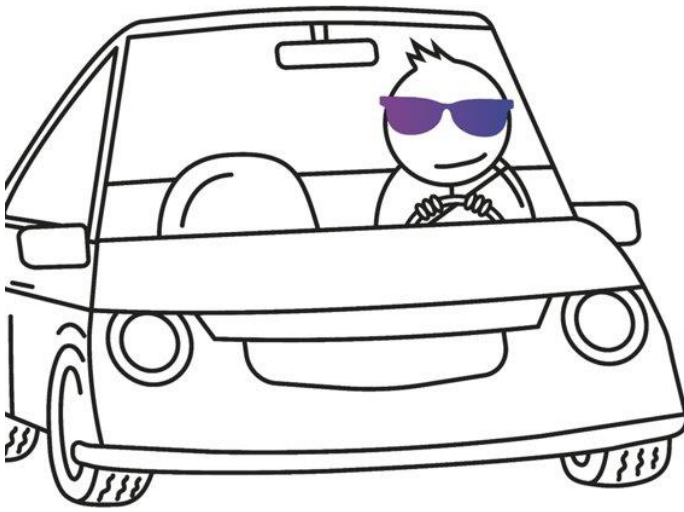|	
Technical Capabilities	Security & Compliance
Organizational Fit	Implementation Factors

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Vision

FDOT envisions a future where AI enhances transportation systems through innovation, safety and operational excellence. By embracing AI responsibly and creatively, FDOT leads in leveraging AI technologies to better serve Florida's communities.

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Keep your Distance

EMBRACE
THE SPACE

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Thank You!

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Contact Us

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