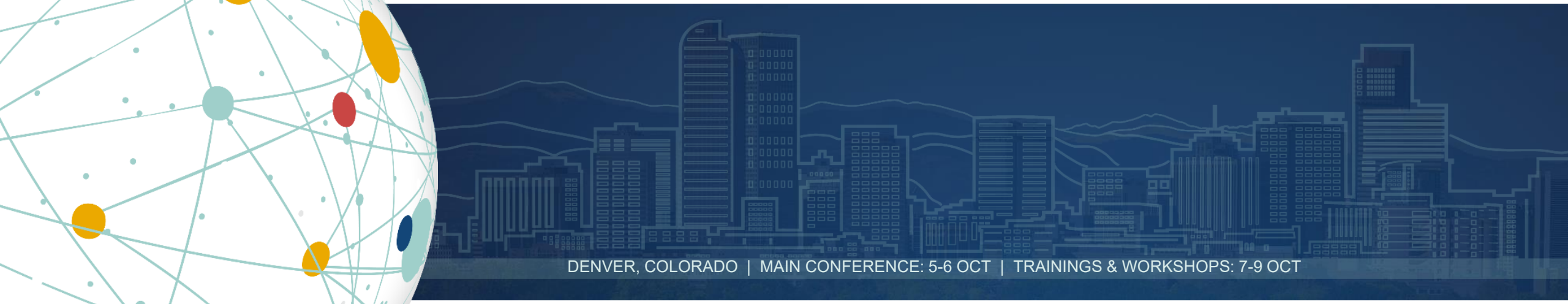


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2026 US Interchange

THE FUTURE IS CONNECTED: STANDARDS AND AI POWERING DIGITAL TRANSFORMATION



TLF GENIX - AI-Driven Tables, Figures, and Listings (TLF) Generation

Umamaheswari Adiseshan, Lead Clinical Consultant, Zifo
Sai Sri Sravya Deevi, Associate Clinical Consultant, Zifo

Agenda

1. Problem & Goals
2. Design Philosophy
3. Solution Walkthrough
4. Lessons learnt

Speakers



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Zifo RnD Solutions



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Associate Clinical Consultant
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Team



Siddharth Arthi
Clinical Solutions & AI lead
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Keerthna Vilambarappu Ramachandran
Clinical Solutions & AI Analyst
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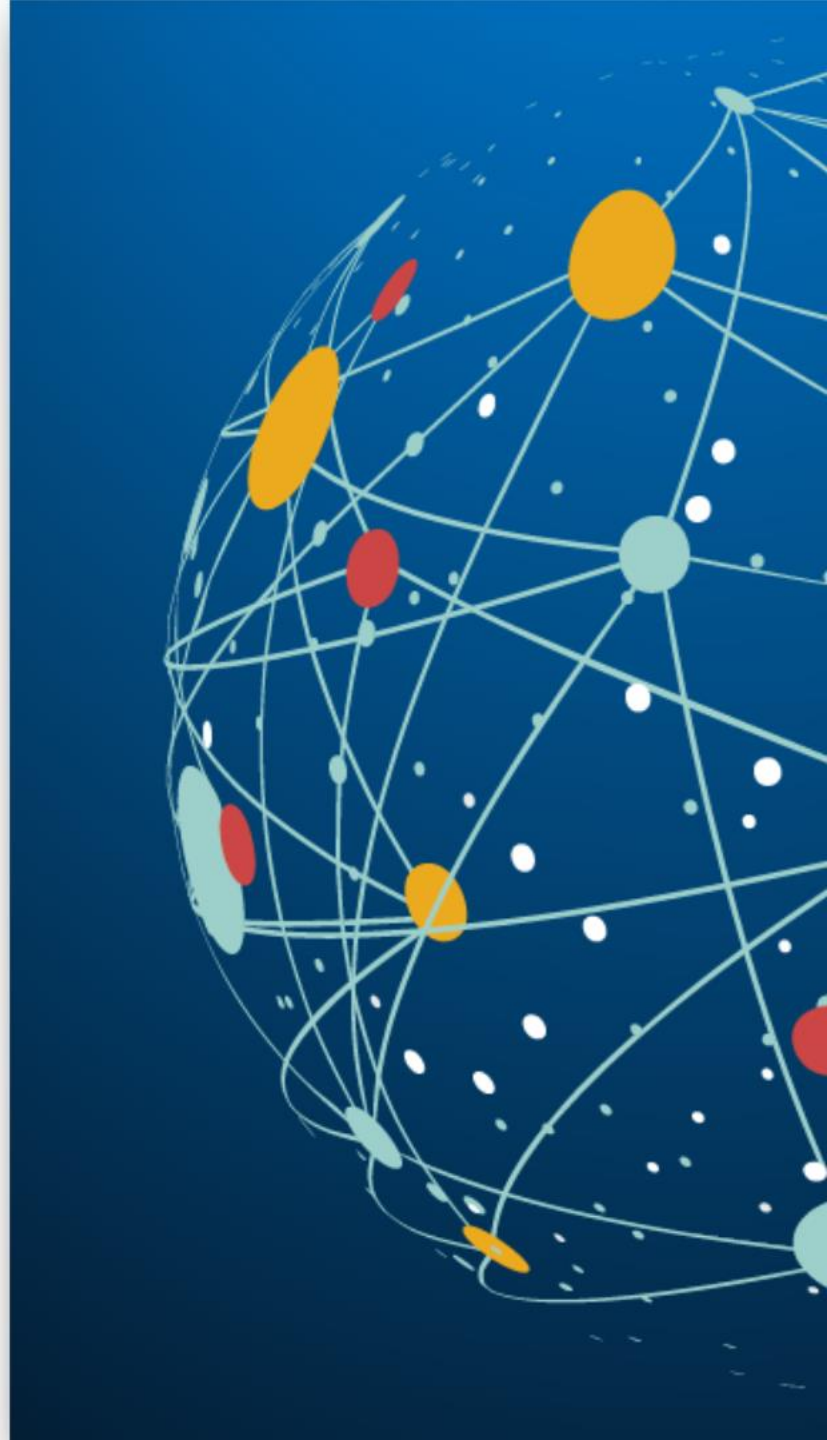
Rajesh Shekhar Kulal
Statistical Programming lead
Zifo RnD Solutions

Problem & Goals

From SAP to submission ready TLFs

Why we embarked on this?

- Analysis intent locked in SAPs
  - SAPs are written as narrative PDFs, structured for human reading, not machine processing
- No machine-readable standard specification layer
- Programmer-dependent interpretation
  - Quality, consistency, and speed of the programs depend entirely on individuals
- No traceability link
  - There is no structured connection from study objective through endpoint, analysis method and output.



Design Philosophy

ARS anchored, chain of evidence, HITL

Design Philosophy

SAP Digitization Engine

ARS based code generation

Governed Human Decision points

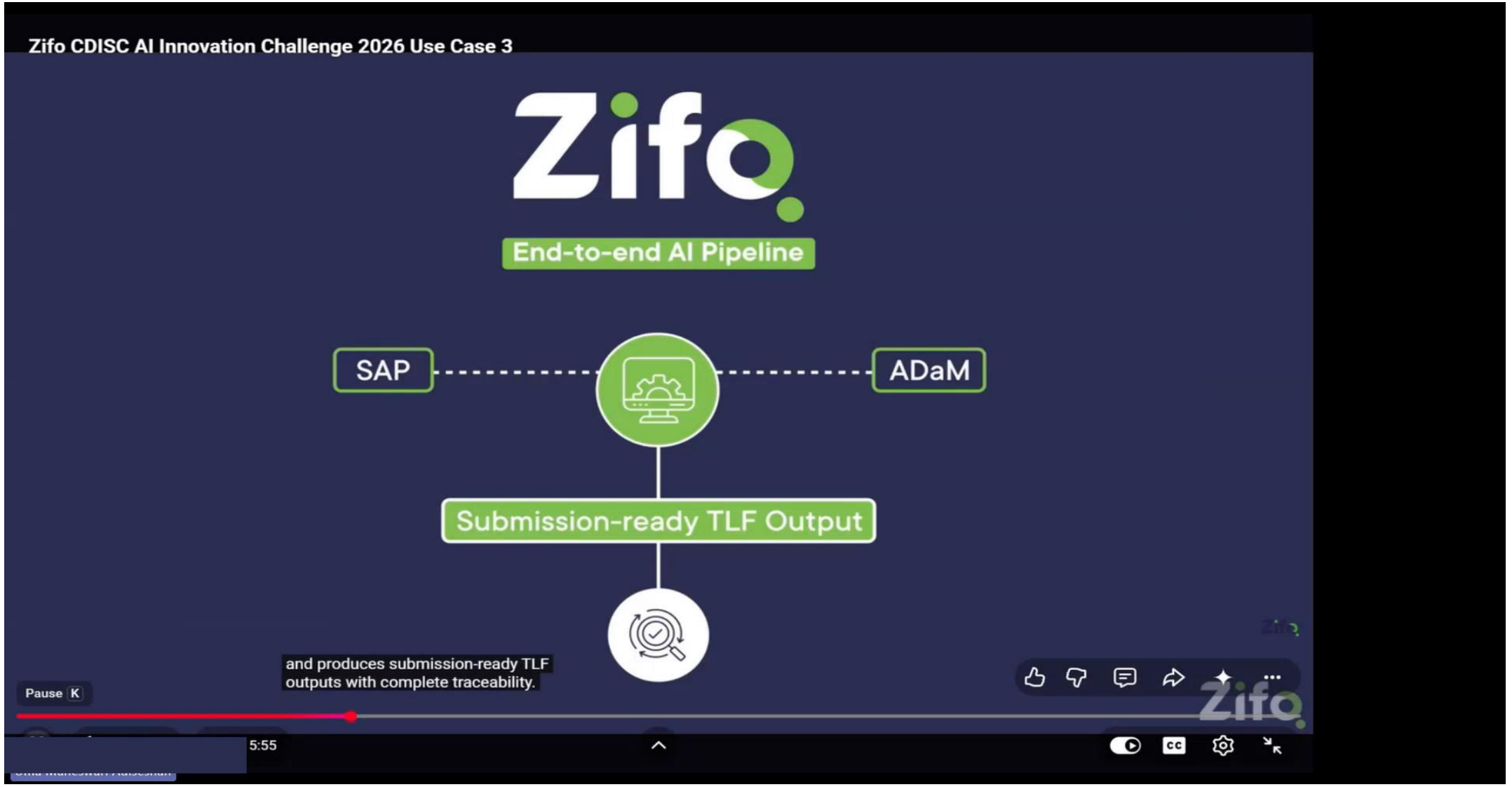
Isolated code execution sandbox

Chain of traceability

*Building the **bridge** between what a **study intends to prove** and the **outputs that prove it***

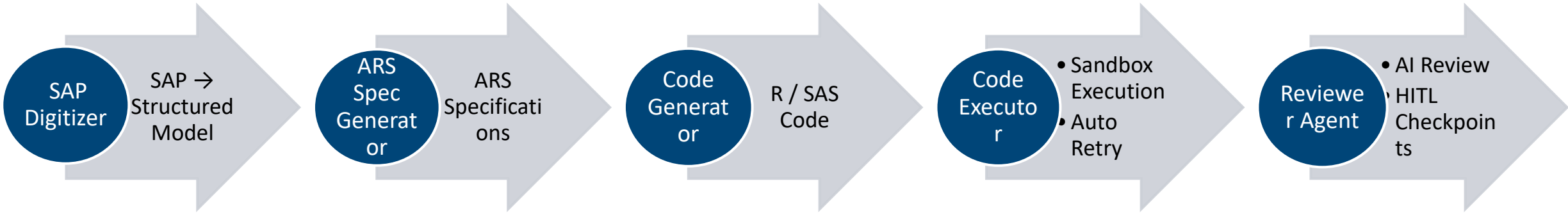
Solution Demonstration

From SAP to submission ready TLFs


Zifo CDISC AI Innovation Challenge 2026 Use Case 3
Zifo
End-to-end AI Pipeline
SAP
ADaM
Submission-ready TLF Output
and produces submission-ready TLF outputs with complete traceability.
Pause K
5:55

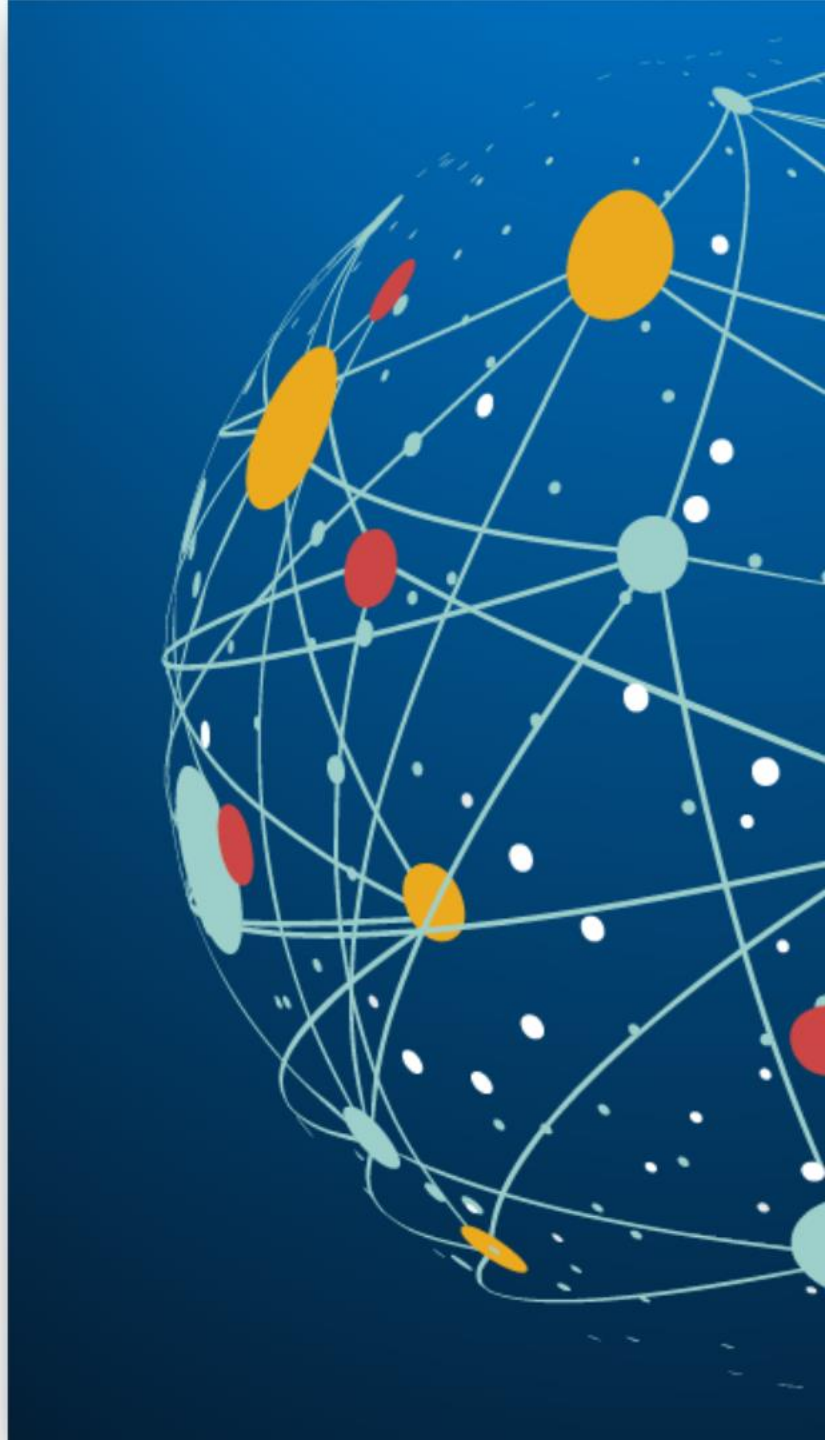
AI Agents at a glance

Multi-Agent Flow



Lessons Learnt

- Extracting different table structures in SAP
  - Strategizing and combining different RAG pipelines
- Statistical requirements are often embedded in free text
  - Prompt engineering and rule-based extraction improved consistency
- Explainability wins adoption
  - Transparent outputs and reviewable logic accelerated user acceptance



Thank You!



Questions?

