

Mission 3 Context

Mission 3 turns CHEDDAR capabilities into deployment-ready autonomy.

It pulls from Mission 1 and Mission 2, applies cross-cutting lenses, and produces the evidence operators need before trusting autonomous network decisions.

USE CASE DEMONSTRATION

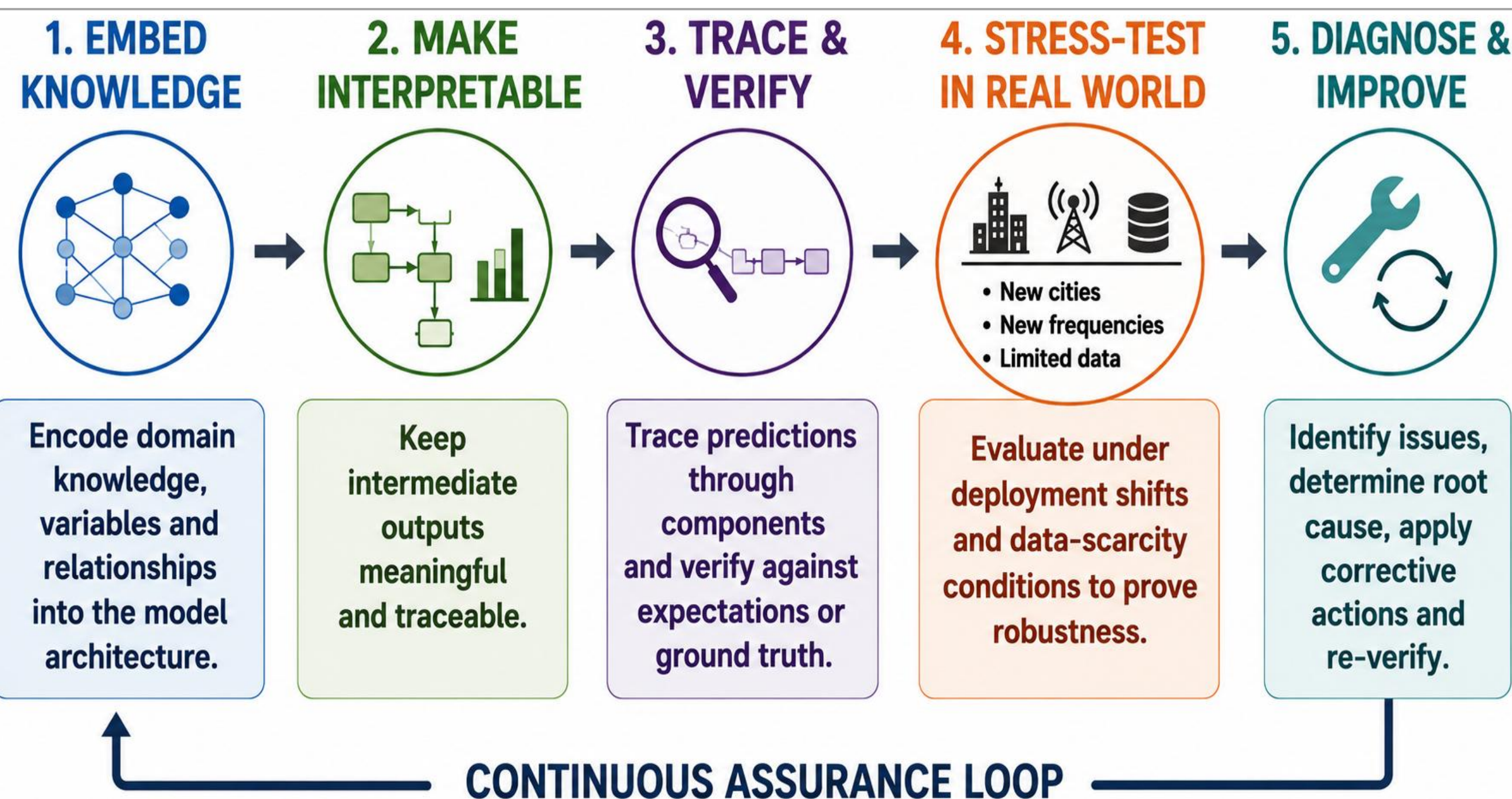
Assurance by Design for Wireless AI



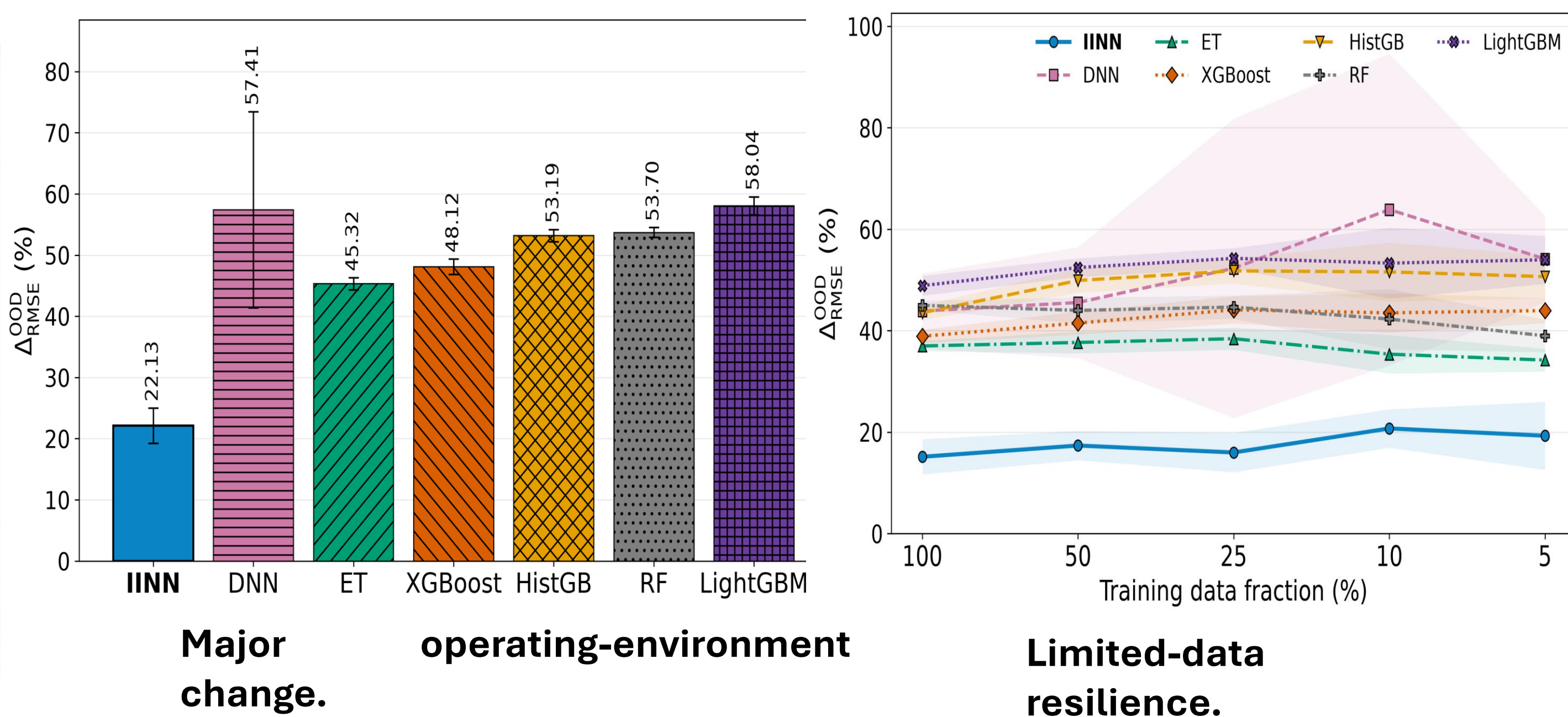
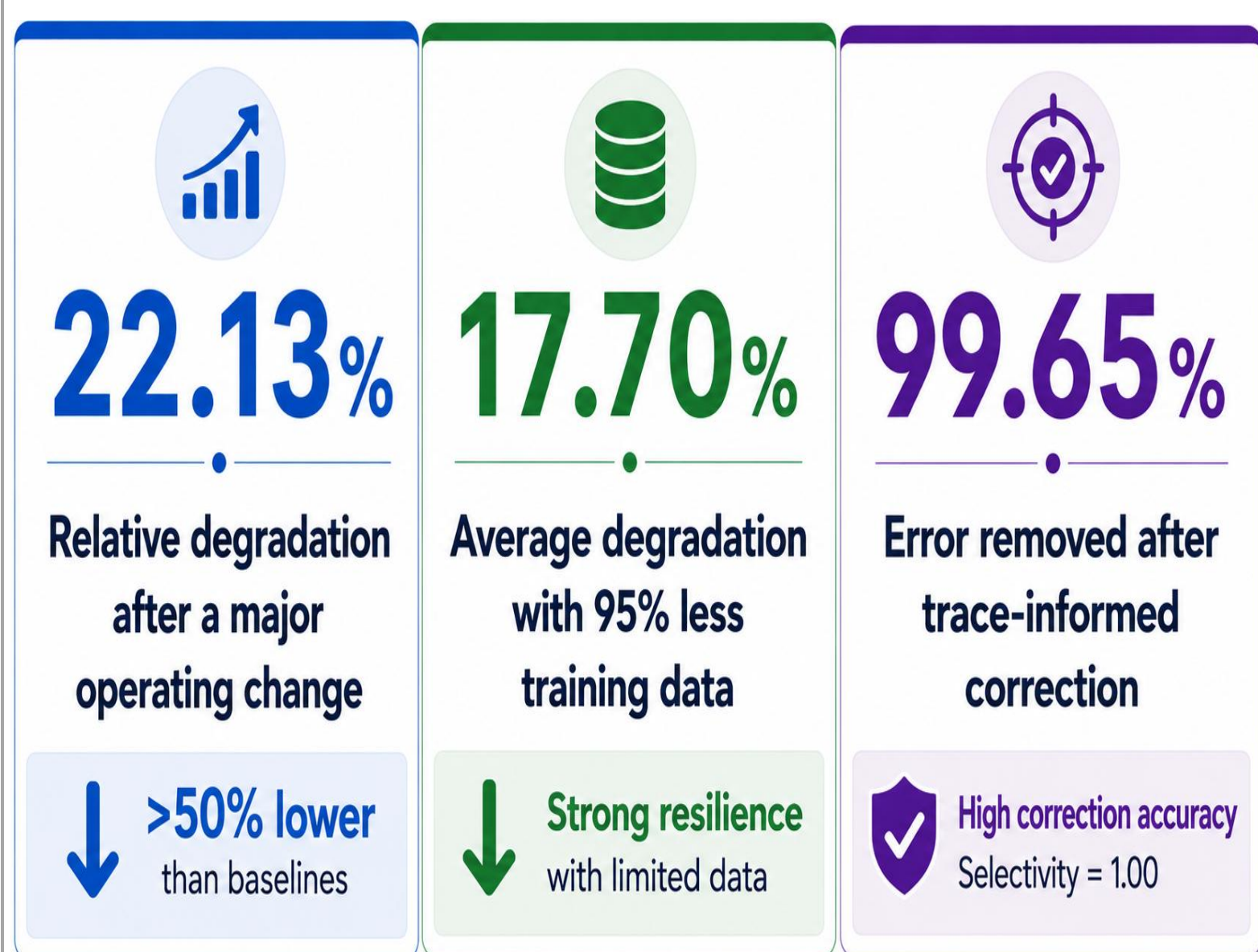
Why this Matters

AI-assisted network planning affects **coverage, capacity, and investment**. High accuracy on familiar data is insufficient when deployment shifts to a new city, frequency, or sparse-data environment.

Business need: Understandable and reliable AI for deployment beyond the training environment.

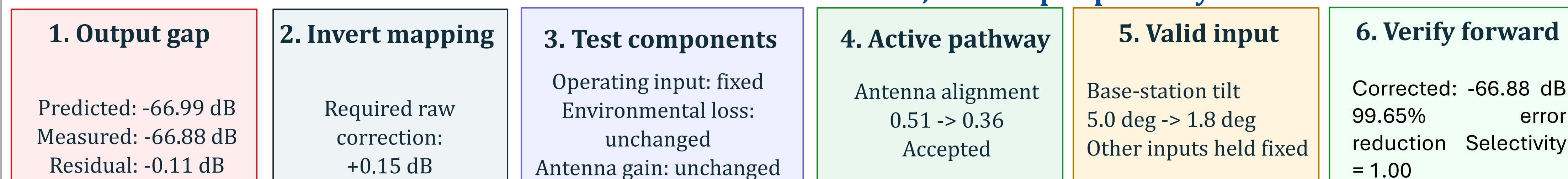


Evidence under Change



Traceability Demonstration

A backward decision audit traverses the trained model from output error to active, valid input pathways.



Assurance Outcomes

- Transparent inference:** Intermediate outputs remain interpretable.
- Resilience evidence:** Tested under deployment and data shifts.
- Informed diagnosis:** Audit identifies and verifies corrective actions.

Scope and Responsible Use

- Reliable context is required; missing or incorrect data limit transfer.
- Backward audit diagnoses the model, not the real-world causality.



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