AI FOR GOOD SANDBOX — UAE KICK-OFF WORKSHOP · TECHNICAL TRACK

Domain-specific Open Knowledge Bases

What India has built — and what we can explore to co-build

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WHY IT MATTERS

A knowledge base is more than a dataset

The curated, standards-aligned corpus — data, documents, policy, standards and ground truth — that a sector's AI is *grounded in*, *retrieved from* and *evaluated against*.

Without one

Agents hallucinate, miss local context, and cannot be audited against national rules.

With one

Countries can test, validate and scale AI that is contextual, compliant and trustworthy.

THREE FUNCTIONS

What a well-built knowledge base does

01

Grounding

Retrieval and grounding for agents

02

Compliance

A reference point for policy and standards

03

Benchmarking

A test corpus for safety, bias and performance

> ITU-T Y.3172 treats the knowledge base as a first-class component — alongside data pipelines, model serving and orchestration (Y.3174, Y.3179, Y.3181, Y.3187).

INDIA’S OPEN-KNOWLEDGE PEDIGREE

IndiaAI Mission: compute, data and models, opened up

38,000+

high-end GPUs onboarded, 20,000 more being added

~⅓

of the global average cost of compute

#1

globally in relative AI skill penetration

~5.2%

of open-source AI projects on GitHub (10+ stars) are Indian

AI Kosh India’s open repository of datasets and sovereign models — agriculture, healthcare, education — so developers don’t start from scratch.

A TELECOM KNOWLEDGE BASE IN PRODUCTION

Sanchar Saathi: open, auditable, policy-linked

7.14 cr

fraudulent mobile connections disconnected (71.4 million)

35 lakh

lost or stolen handsets traced (3.5 million)

₹5,000 cr

potential financial fraud prevented

TEC national standards on AI fairness, robustness and incident reporting — and a National Working Group on AI Standardization aligned with ITU-T.

THE PROOF POINT · DOT–ITU, IMC 2026

Build-a-thon 5.0 — agents for 5G

25+
registered teams

16
AI prototypes submitted

10+ hrs
of mentoring, 5 sessions

Three agent archetypes emerged

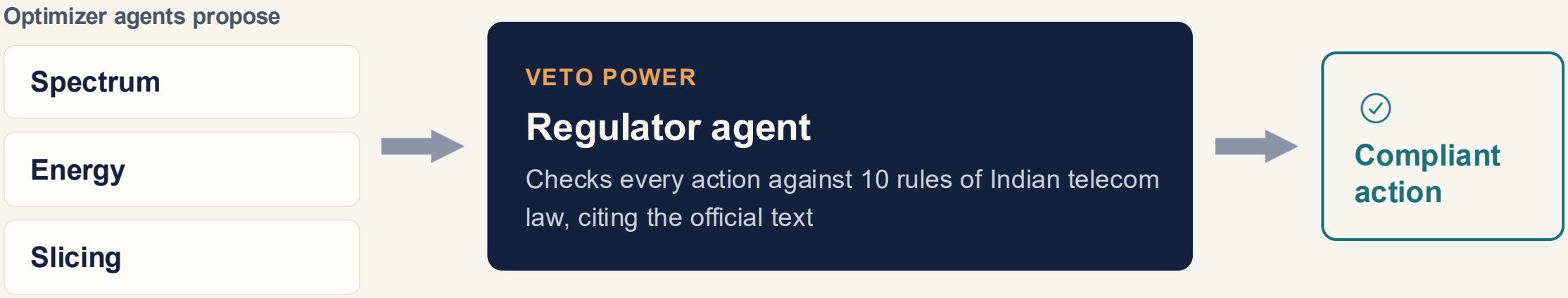
Knowledge-base agents
Domain problem solvers

Policy & legal adviser agents
An institutional role, grounded in official texts

Coordinator agents
Orchestrate many agents

THE HEADLINE PATTERN

Law inside the control loop



Policy & Legal Adviser agent

Answers from a corpus of 16 official documents

Gap analyser

Flags where the law is silent — feedback to policy-makers

The common thread

Open domain KB + national policy texts + ITU-T Y.3172 + agents that cite sources

OUR PROPOSAL TO THE UAE SANDBOX

Four things to co-build

1 **Joint open telecom KB for the Global South**

Shared schema, shared benchmarks

2 **Arabic + Indian language layer**

Share tokenizer design, data governance and evaluation harnesses

3 **Policy-aware agent benchmark**

Each country drops in its national rules; the same agent is tested on all — measurable regulatory interoperability

4 **UAE–India Build-a-thon, Q1 2027**

Telecom use cases, hosted in the Sandbox

“The true measure of AI will not be the size of its models or the sophistication of its algorithms, but the number of human lives it improves.”

— Shri Jyotiraditya M. Scindia, Union Minister of Communications, India · IMC 2026

Open knowledge bases — built in sandboxes, governed by shared standards — keep that measure honest.

Shukran · Dhanyavaad