Live Mini-Experiment

AI-supported decision making for procurement under uncertainty

Objective: test how AI structures a sourcing decision, not only the final answer.

Your Task

Design an AI-assisted reasoning framework for the case

1. Criteria
Define objective function
and decision criteria

2. Constraints
Budget, timing, operational fit, supplier risk

3. Assumptions
State assumptions and justify included and excluded data

Ranked recommendation

Your data

Use this dataset and these slides to build your own agent

ing-gest.disi.unitn.it/en/ipsera26/

The AI agent template

1. ROLE
You are a [agent] with goal [objective]

2. DATA
Use only provided dataset (no assumptions)

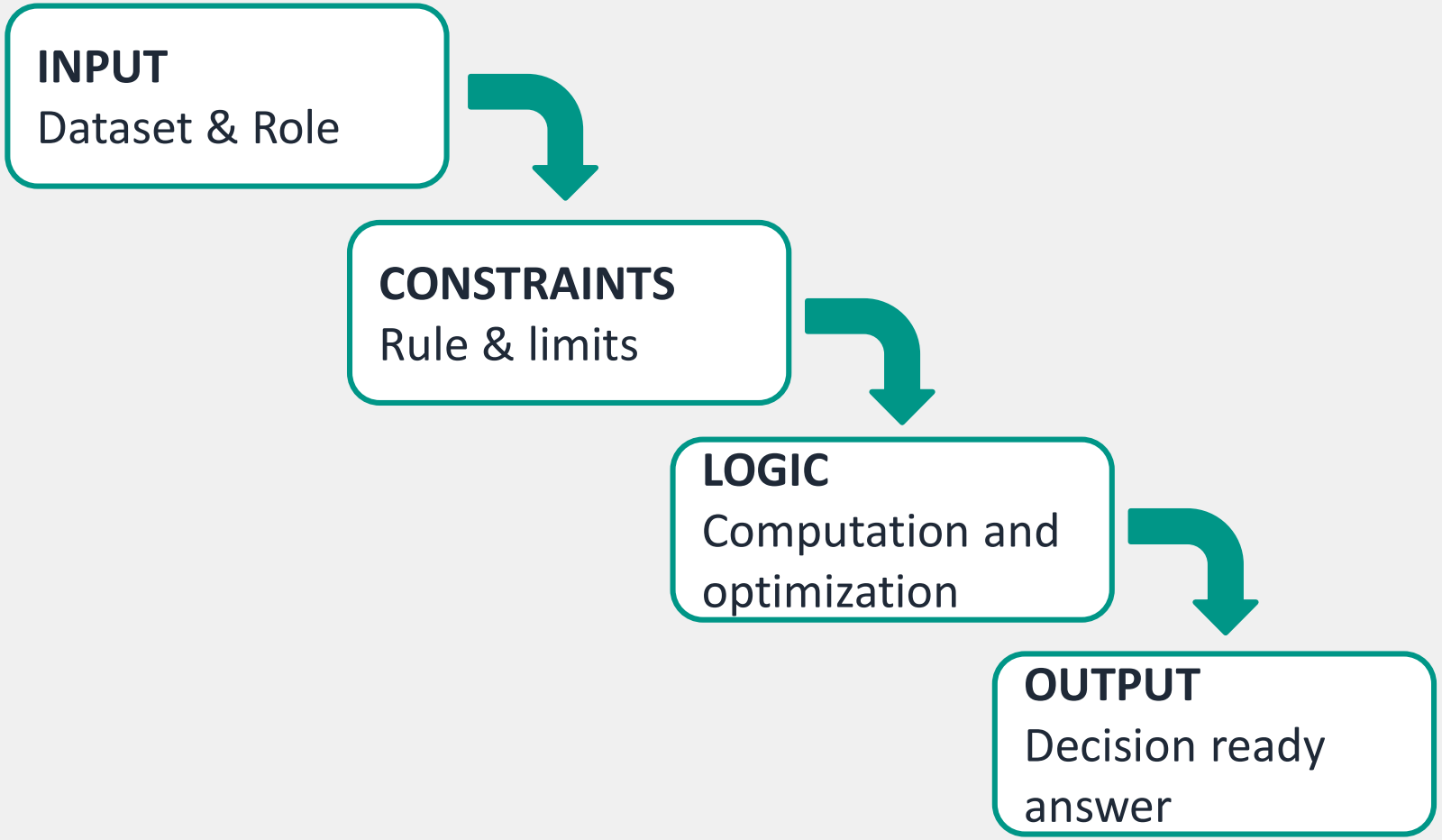
3. CONSTRAINTS
Define hard limits e.g. Max replaceable = 56

4. LOGIC
E.g. Generate ALL equipment combinations

5. OUTPUT
Recommendation, impact, risks

6. CONTROL
Ensure consistency

How it works


INPUT
Dataset & Role
CONSTRAINTS
Rule & limits
LOGIC
Computation and optimization
OUTPUT
Decision ready answer

Questions to Guide Your Reasoning

Use these prompts to test your approach

- What are you optimizing, and for which stakeholder?
- Which assumptions drive the result most?
- How does ranking change across scenarios?
- What does AI add beyond a weighted spreadsheet?

Let’s Run the Experiment

25 min

Work in small groups and compare decision logic

Dataset provided, use laptops, compare approaches and discuss what changes when assumptions change.

Group Work
10 min
Build AI-assisted decision logic

Test
5 min
Challenge key assumptions

Debrief
5 min
Share procurement implications