

Yolda

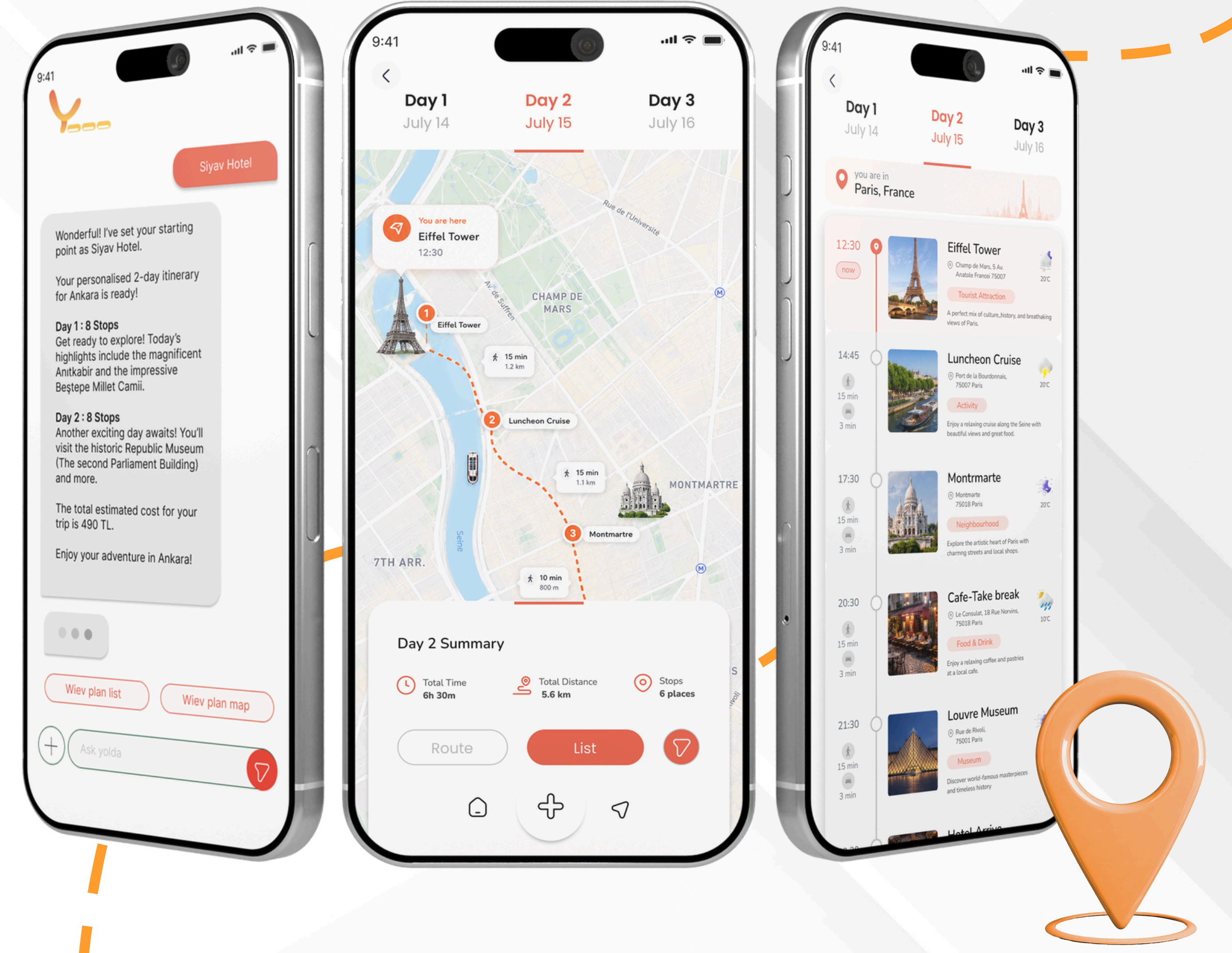
YOUR AI-POWERED ADAPTIVE TRAVEL ASSISTANT

Plan less. Experience more.

THE PROBLEM: PLANNING & TRACKING CHAOS

Modern travel planning is still fragmented, stressful, and difficult to manage in real time.

- Fragile Plans** → Trips quickly go off track.
- No Real-Time Support** → Most apps cannot adapt live.
- Information Overload** → Too many choices make planning difficult.
- Time-Consuming Planning** → Building a good route takes effort.



OUR SOLUTIONS: YOLDA

Continuous improvement cycle to refine team output and workflow.

CORE INNOVATION: A "LIVE" AGENT

- Creates optimized itineraries autonomously.
- Updates routes dynamically during the trip.

OUTCOME

- A flexible itinerary that adapts in real time.
- Smarter, and stress-free travel experience.

HYBRID INTELLIGENCE

- **Agentic Framework:** Understands vague user intent and assigns the proper agent to handle the request.
- **Constraint Solver (CP-SAT):** Selects POIs and creates the most optimal route based on user constraints and preferences.

HIGH LEVEL DESIGN

AUTONOMOUS AGENTS

Planning Agent

Transforms conversational input structured itineraries via Gemini LLM.

Modify Agent

Handles plan adjustments, swaps, and removes seamlessly any time.

Knowledge Agent

Provides contextual AI-generated insights for POIs without plan mutation

CP-SAT SOLVER ENGINE

HARD CONSTRAINTS

- Opening Hours
- User Budget
- Activity Count

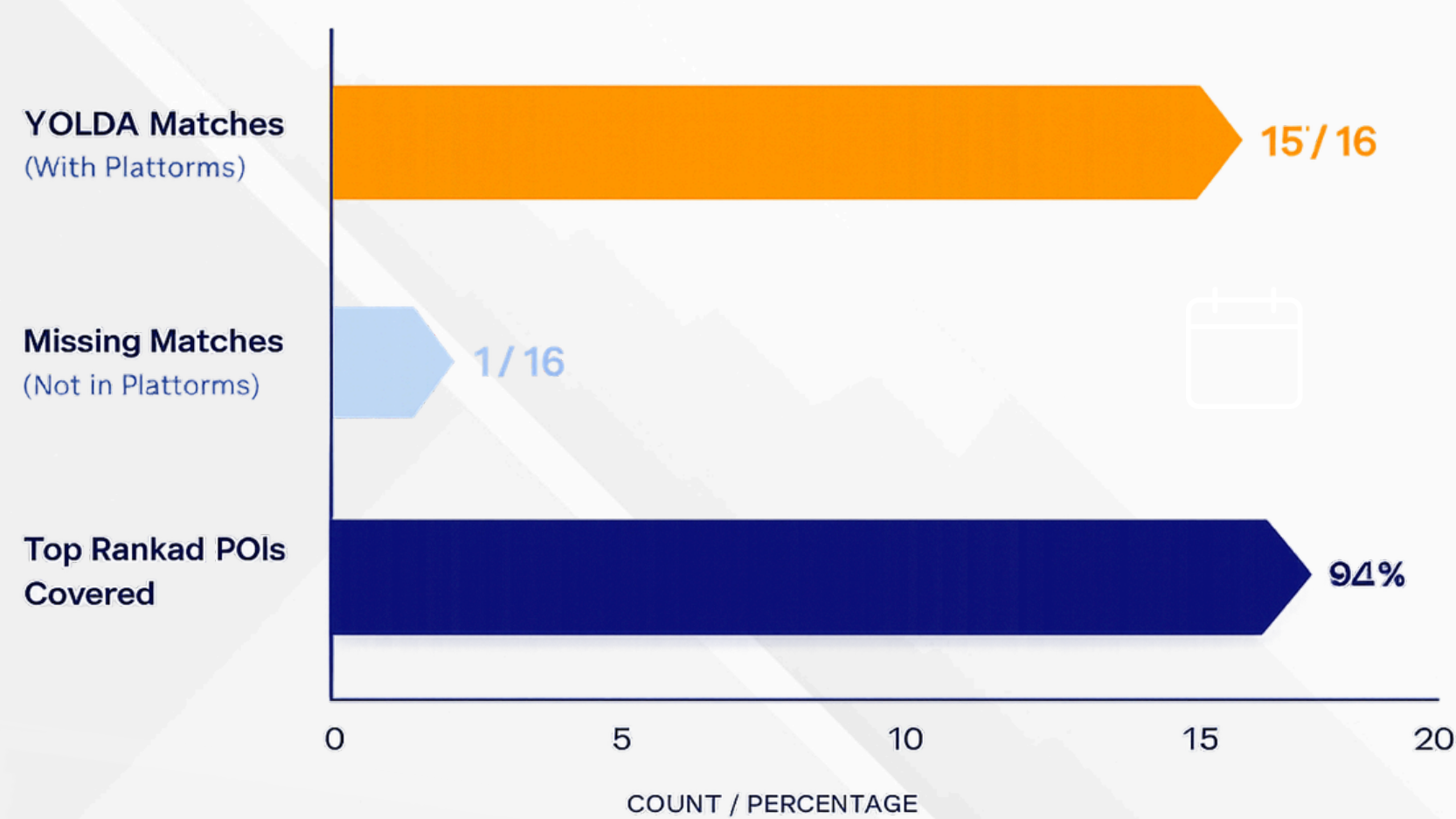
SOFT CONSTRAINTS

- Travel Time

RECOMMENDATION ACCURACY COMPARISON

YOLDA compares its POI recommendations with platforms like TripAdvisor and Wanderlog.

YOLDA successfully covers most of Ankara's top-rated attractions.



OPTIMIZATION GOAL

Maximize Total Base Score

$$\text{Score} = \text{Blend} (\text{Total User Ratings} + \text{Rating}/5)$$

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