Time Well Spent

HOW *YANGO GROUP'S* AI TECHNOLOGIES SAVE MILLIONS OF HOURS IN URBAN MOBILITY

White Paper

YANGO GROUP

TIME HAS BECOME THE MOST VALUABLE RESOURCE IN MODERN CITIES.

Every minute saved from traffic congestion represents an opportunity — to rest, to connect, to work, or to simply live better.

Across the world, Yango's advanced routing technologies have helped millions of people reclaim this time. In 2025, Yango's intelligent routing systems only in major cities saved users more than 5 million hours — the equivalent of 600 years.

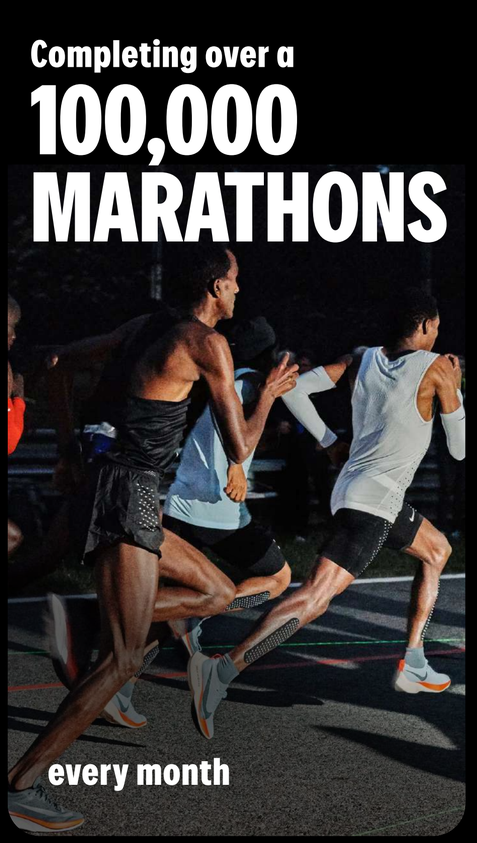
This means 600 hundred years given back to people and cities, transforming technology into a force for better urban living.

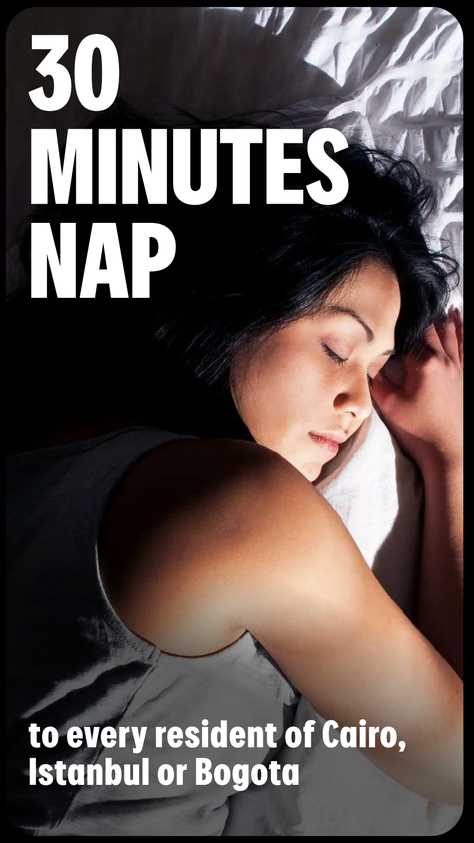
>5 MILLION HOURS

saved to users in major cities by Yango's intelligent routing systems in 2025

the equivalent of

600 years





TIME AS THE NEW URBAN CURRENCY

Modern cities are engines of opportunity — but they are also systems under pressure. Growing urban populations and rapid motorization create one universal challenge: time lost in traffic. Every delay ripples through the day, affecting productivity, sustainability, and quality of life.

At Yango, we believe that technology can give time back to people. By turning advanced data science and AI into everyday mobility tools, Yango Ride helps millions of users across more than 20 countries move through their cities faster, smarter, and more sustainably.

Our mission is simple: to transform global technologies into local solutions that make daily life better.

THE TECHNOLOGY BEHIND THE SAVINGS

Yango Ride routing system uses an intelligent combination of real-time data, machine learning models, and historical analysis to build the most efficient routes possible. Every time a driver opens the Yango app, an entire ecosystem of algorithms starts working in milliseconds.

As soon as the route request is made, the model receives and analyzes several types of data. It processes information about the road itself — whether it's a highway, a local street, or an unpaved section — and considers how many traffic lights and intersections are along the way, the posted speed limits, and many other factors that influence travel time.

The system also examines the number of turns and U-turns on the route. Left turns typically take longer than right turns, and a sharp U-turn can add a few extra minutes. For taxi routing specifically, the algorithms are optimized to minimize total trip time, rather than simply reducing the number of turns.

In addition, the model accounts for the historical pattern of traffic congestion on each road segment. Rush hours in most cities are consistent — especially in the mornings and evenings. This allows Yango's algorithms to predict future traffic: for example, even if a passenger leaves before rush hour, the system anticipates when congestion will build up and adjusts the route accordingly.

The system tests dozens of potential routes and chooses the one with the lowest predicted ETA (Estimated Time of Arrival).

After each ride, it compares the predicted and actual times, constantly learning and recalibrating. This feedback loop ensures that Yango's predictions get more accurate over time and more adapted to each city.

RESEARCH METHODOLOGY

To understand the real-world effect of these algorithms, Yango Group analysts conducted a large-scale study based on actual ride data from a month sample in 2025.

For each trip in Yango Ride, they compared two versions of the same route:

1. A static shortest path that ignores live traffic conditions.

2. A dynamic Yango route built using real-time traffic, historical data, and machine learning models

The study covered millions of rides across more than 20 cities. The difference between the two routes represented the time saved by Yango's technology.

TIME SAVED BY *YANGO* TECHNOLOGIES IN DIFFERENT CITIES

Country	Agglomeration	Average Time Saved (%)	Average Trip Distance (km)	Total Annual Time Saved (hours)	Time Saved per User per Year by most active riders
Mozambique	Maputo and Matola	2.63	6.15	8 959	57 min 27 sec
Democratic republic of the Congo	Kinshasa	5.87	5.87	229 995	230 min 23 sec
Pakistan	Islamabad and Rawalpindi	1.56	9.59	103 076	23 min 17 sec
Azerbaijan	Baku	3.52	11.1	677 323	190 min 54 sec
Pakistan	Lahore	2.09	9.29	258 141	41 min 50 sec
Angola	Luanda	1.32	10.5	102 192	47 min 32 sec
Ivory Coast	Abidjan	1.96	7.19	815 605	133 min 5 sec
Ghana	Accra	1.66	8.51	132 915	56 min 54 sec
Ethiopia	Addis Ababa	2.69	7.03	45 278	36 min 53 sec
Zambia	Lusaka	2.49	6.88	296 592	92 min 17 sec
Colombia	Bogota	4.72	6.18	355 795	61 min 32 sec

TIME SAVED BY *YANGO* TECHNOLOGIES IN DIFFERENT CITIES

Country	Agglomeration	Average Time Saved (%)	Average Trip Distance (km)	Total Annual Time Saved (hours)	Time Saved per User per Year by most active riders
UAE	Dubai	2.24	13.53	17 373	23 min 32 sec
Peru	Lima	6.22	6.47	1 186 509	192 min 39 sec
Senegal	Dakar	1.78	6.44	169 882	71 min 13 sec
Cameroon	Yaounde	2.78	7.13	82 597	81 min 21 sec
Cameroon	Douala	2.39	6.33	53 429	63 min 35 sec
Namibia	Windhoek	1.84	5.25	44 239	64 min 11 sec
Bolivia	La Paz and El Alto	3.39	4.06	27 687	37 min 36 sec
Guatemala	Guatemala City	6.99	6.55	100 741	155 min 11 sec
Pakistan	Karachi	2.68	8.88	471 400	69 min 38 sec
UAE	Abu Dhabi	1.8	10.4	17 384	21 min 27 sec

FROM EFFICIENCY TO SUSTAINABILITY

Time efficiency is only part of the story. Smarter routing also contributes to environmental sustainability and urban resilience. By minimizing idle time and unnecessary kilometers, Yango AI helps:

1. Improve fuel efficiency.

Even when routes might be slightly longer, smoother movement and fewer stop-and-go cycles reduce energy waste and emissions associated with heavy traffic.

2. Distribute traffic evenly

Intelligent load-balancing across roads decreases local congestion and improves air quality in dense areas.

3. Enhance quality of life

Less time in traffic means lower stress, greater punctuality, and more moments for people to do what truly matters.

Yango's mission goes beyond ride-hailing. It is about helping people and cities move forward together — **faster, smarter, and cleaner.**

In 2025 alone, Yango's technologies gave back 316 million minutes of human time. That is time returned to families, communities, and urban economies. Even small time savings during a single ride may seem minor, but across millions of trips they accumulate into a powerful collective impact — thousands of hours that make cities more productive, daily lives less stressful, and mobility more sustainable.

Every minute matters. And with technology built for real life, every minute can be well spent.

+316 million minutes of human time