



INDIA | MAY 25, 2023

Digital India - Leading with emerging technologies on AWS

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The reach of ML is increasing



INCREASED SPENDING

By 2026, global spending on artificial intelligence will reach \$300 billion growing 4.2 faster than average IT spend

IDC

"IDC Press Release, Worldwide Spending on AI-Centric Systems Will Pass \$300 Billion by 2026, According to IDC, September 2022,"
<https://www.idc.com/getdoc.jsp?containerId=prUS49670322>

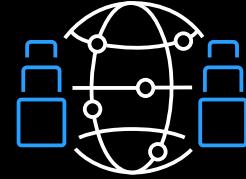


AI ACROSS SEVERAL BUSINESS UNITS

Gartner survey reveals 80% of executives think automation can be applied to any business decision

Gartner

Gartner, Press Release
<https://bit.ly/3is16a2>



AI IS CRITICAL TO SUCCESS

94% of business leaders surveyed say AI is critical to their success

Deloitte

Deloitte, "State of AI in the Enterprise,"
<https://bit.ly/3XiNOLR>

Chatbots
in Vernacular Languages

Reservation Services
in Vernacular Languages

Faster Medi-claims
Adjudication

eKYC &
Identity Verification

Weather prediction and
soil readiness checks for
Farmers

Skilling Labs

Geospatial Analysis of
Crops, Roads

Automatic Traffic Lights

Digitization of old documents
(Legal, Land Records)

Drone based project
monitoring
(Mines, Construction,
Highways)

Automatic traffic Rule
violation detection

Criminal Identification using
automatic Face Comparison

Visa document verification

Fraud and Anomaly Detection
(Tax, Imports, Public
Distribution)

Check participation in
panchayat meetings

New use cases

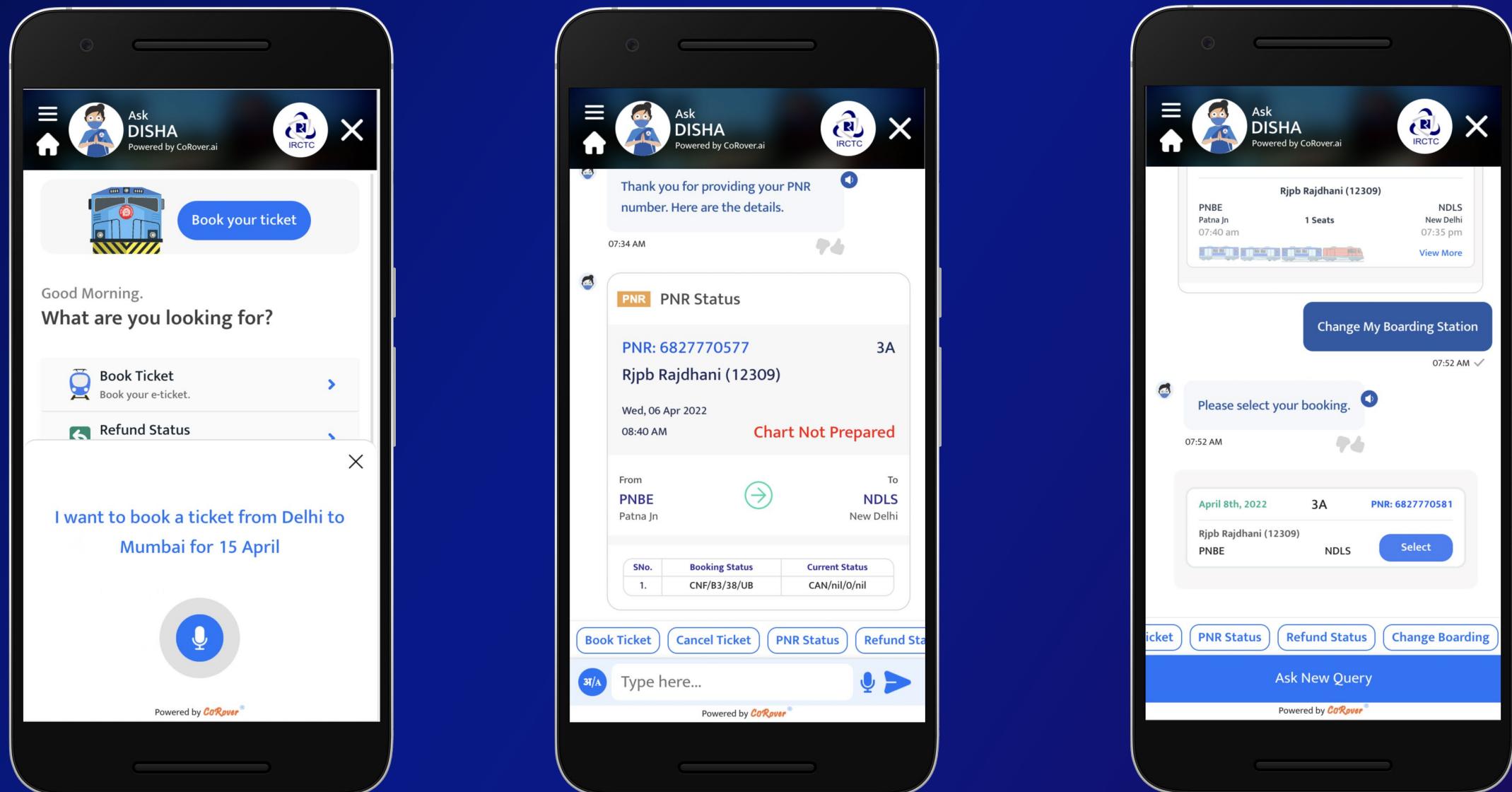
**Enhance citizen
experience**

**Better and faster
Governance**

**Improve law
enforcement**

**New citizen
services**

Enhancing customer service for Indian Railways



Harnessing the power of ML in aviation



Frictionless,
Contactless,
Hassle-Free



Automated
Digitized
Processing

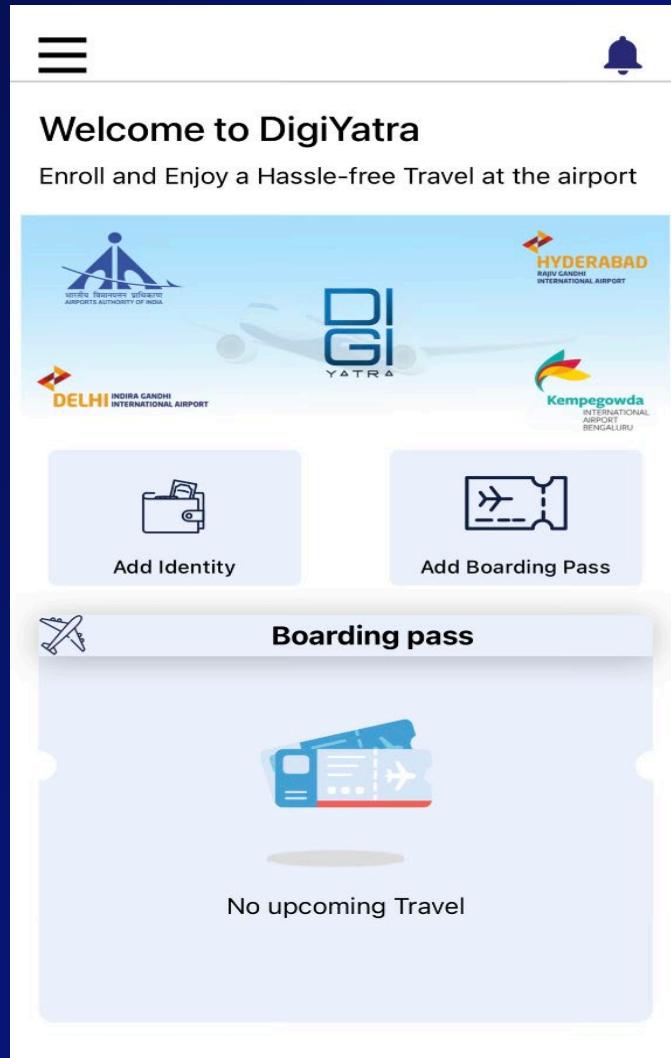


Improving
Throughput
of Airports



Enhancing
Passenger
Experience

DigiYatra biometric boarding system

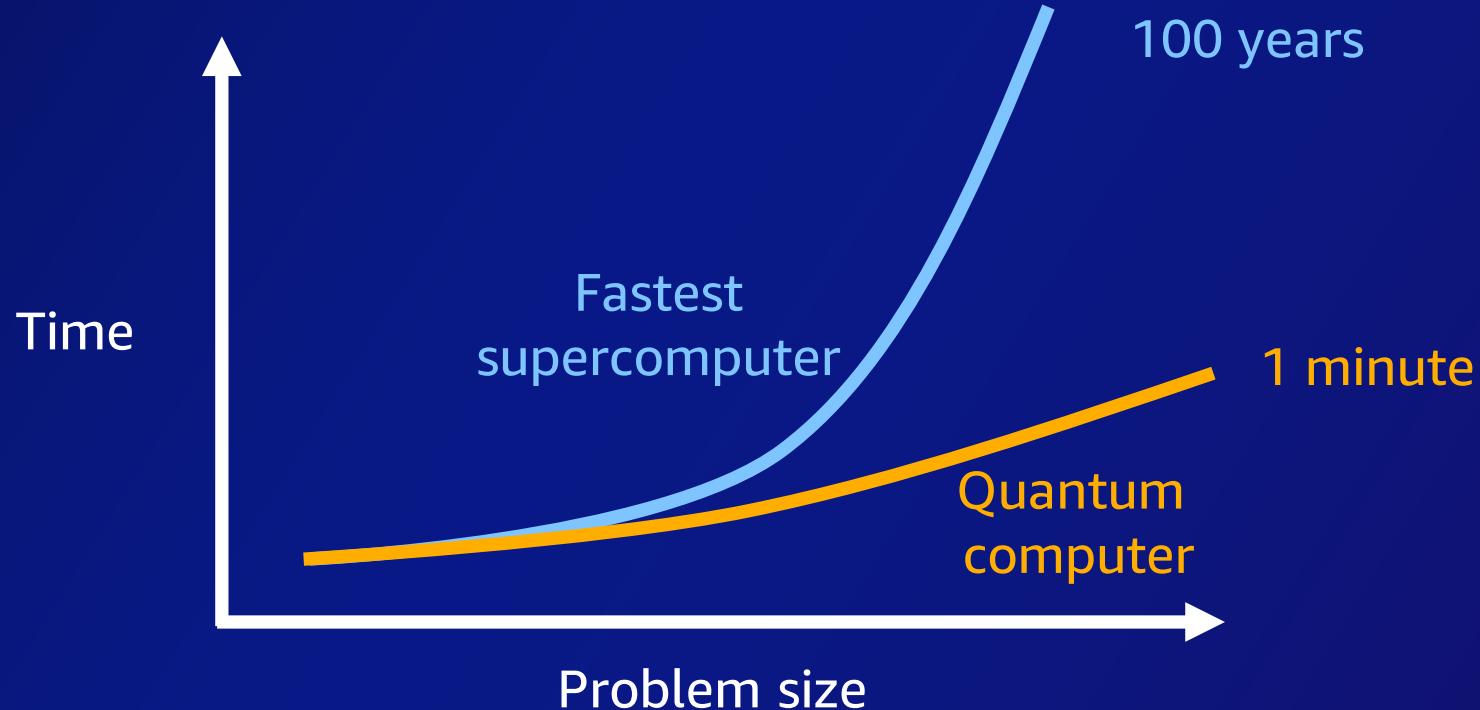


- Unique digital travel experience across 3 airports, followed by all airports in India
- Real time selfie-based biometric validation
- Contactless boarding experience
- Already used by over 1.6 Lakh Indian Citizens



What if there is an efficient way to optimize supply chain & logistics reducing environmental impact

Quantum computing speedups



Not 10x speedup but possibly 10^x

India can achieve an edge in quantum computing, leading to multifold economic growth



Supply Chain



Agriculture



Sustainability



Pharma



Energy

To do so, we need to put quantum computing in the hands
of every developer and scientist

MEITY Quantum Computing Applications Lab, in collaboration with AWS



**First National Lab
globally**
On cloud, accessible to all

Build for the world
Focussed on national initiatives
and priorities

Skilling of resources
Supported 250+ researchers
across 2 cohorts



Office of the Principal
Scientific Adviser to
the Government of India

Supported by



Bengaluru

- India's third largest metropolis

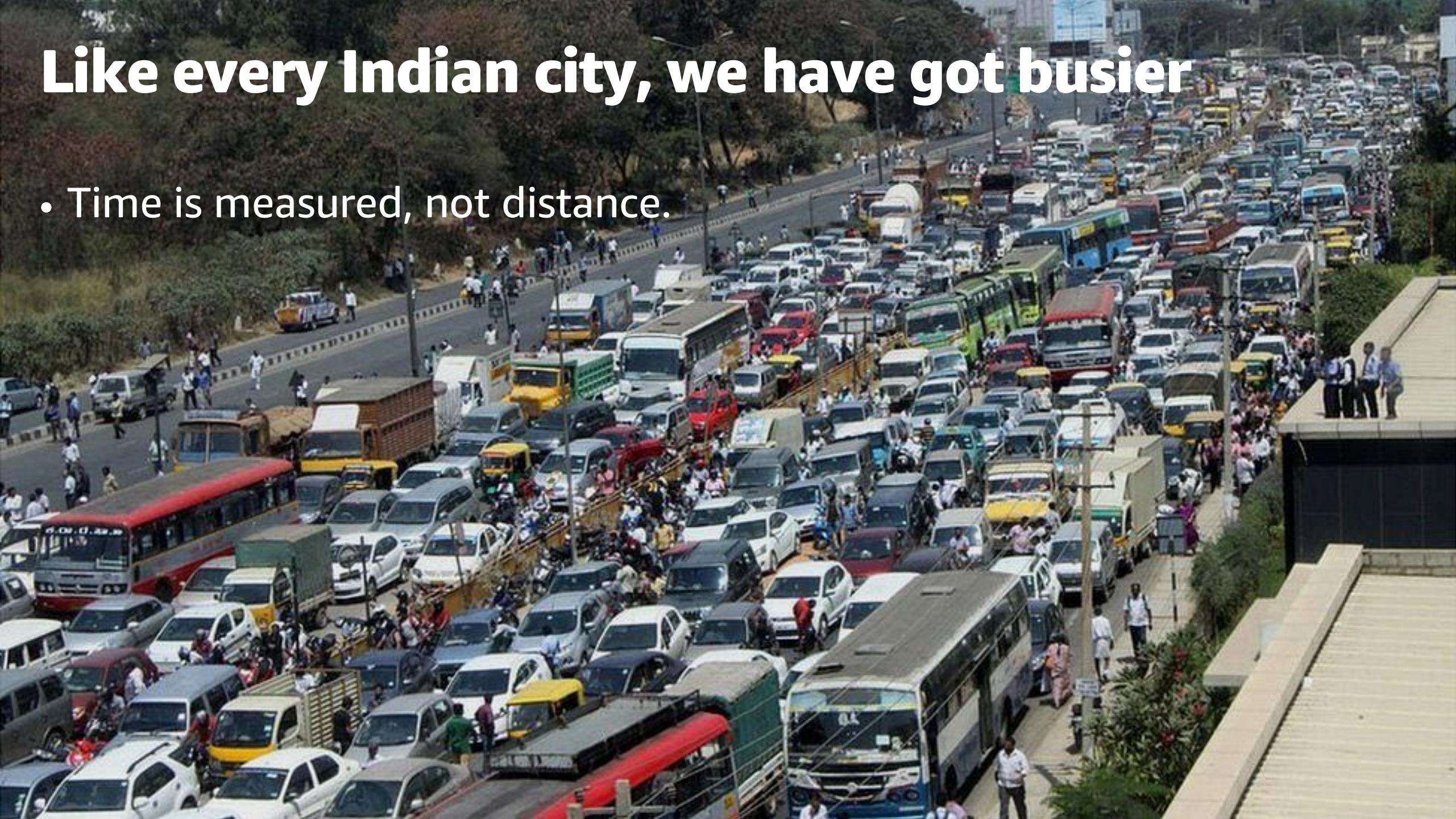
- India's Silicon Valley

- India's Garden City



Like every Indian city, we have got busier

- Time is measured, not distance.



Kempegowda International Airport (BLR)

- India's first PPP airport
- Opened in 2008
- India's third busiest airport by passengers and cargo volumes



KIAB: The New Gateway to India

CY 2019

33.3^{mn}

passengers

380k^{MT}

Cargo



3rd

Busiest

Airport in India in terms of passengers and cargo

CY 2022

27.7^{mn}

passengers

414k^{MT}

Cargo



Fastest

Growing airport in the World – 2018 (29.1%) (more than 15 mn pax)

36

Airlines

13

Freighters

74

Domestic
Destinations

25

International
Destinations

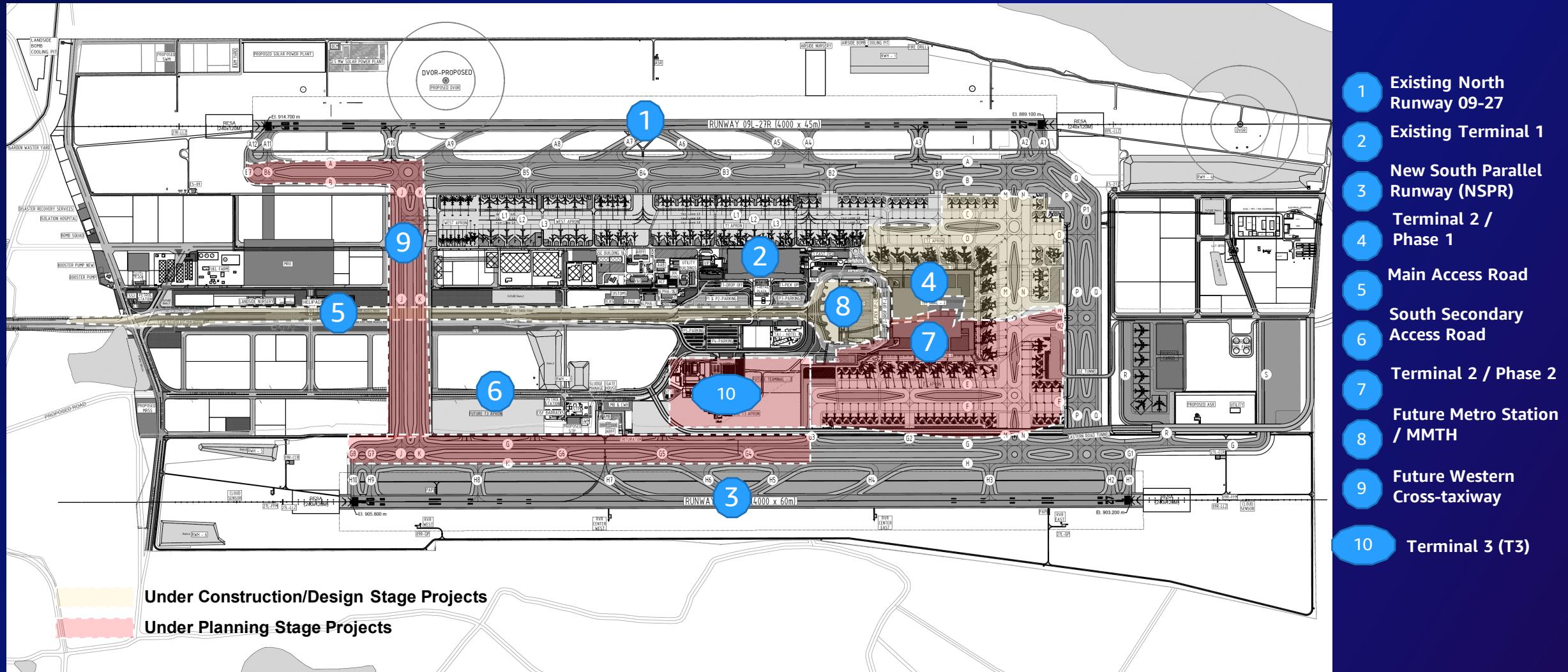


Over 15 years, our air traffic has also grown > 3x

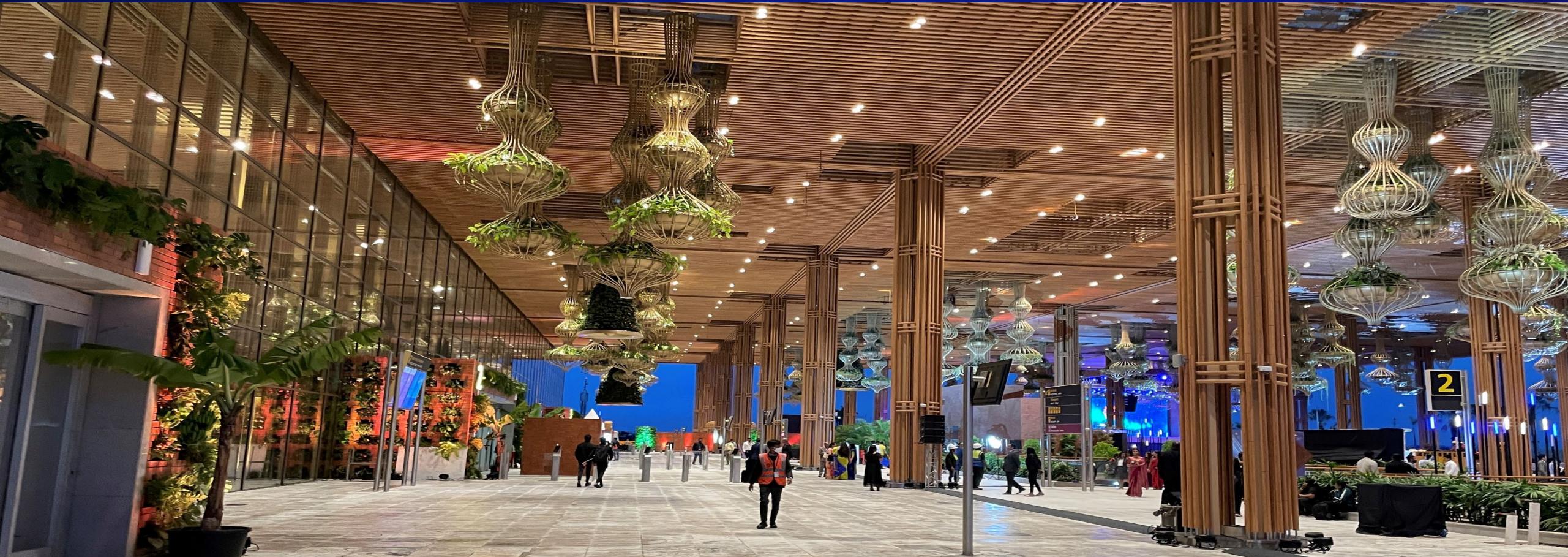
- How does an airport cater to this growth?



Increasing capacity to 90 m pax per year



KIAB - Expansion programme



South Runway



Second Terminal



Multi Modal Transport hub



Utilities



Roads



Connectivity



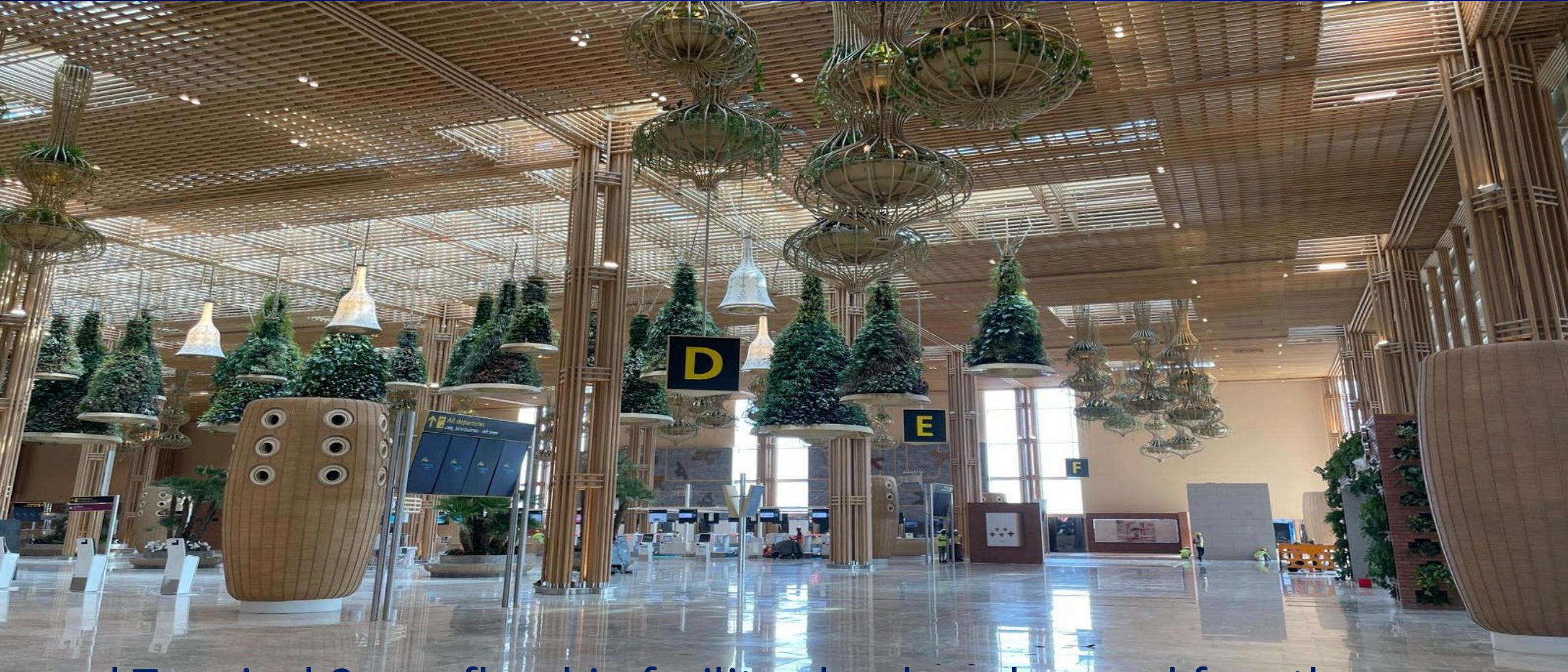
Other projects

We have invested in >\$2b of new infrastructure



- A new Code F capable runway

We have invested in >\$2b of new infrastructure

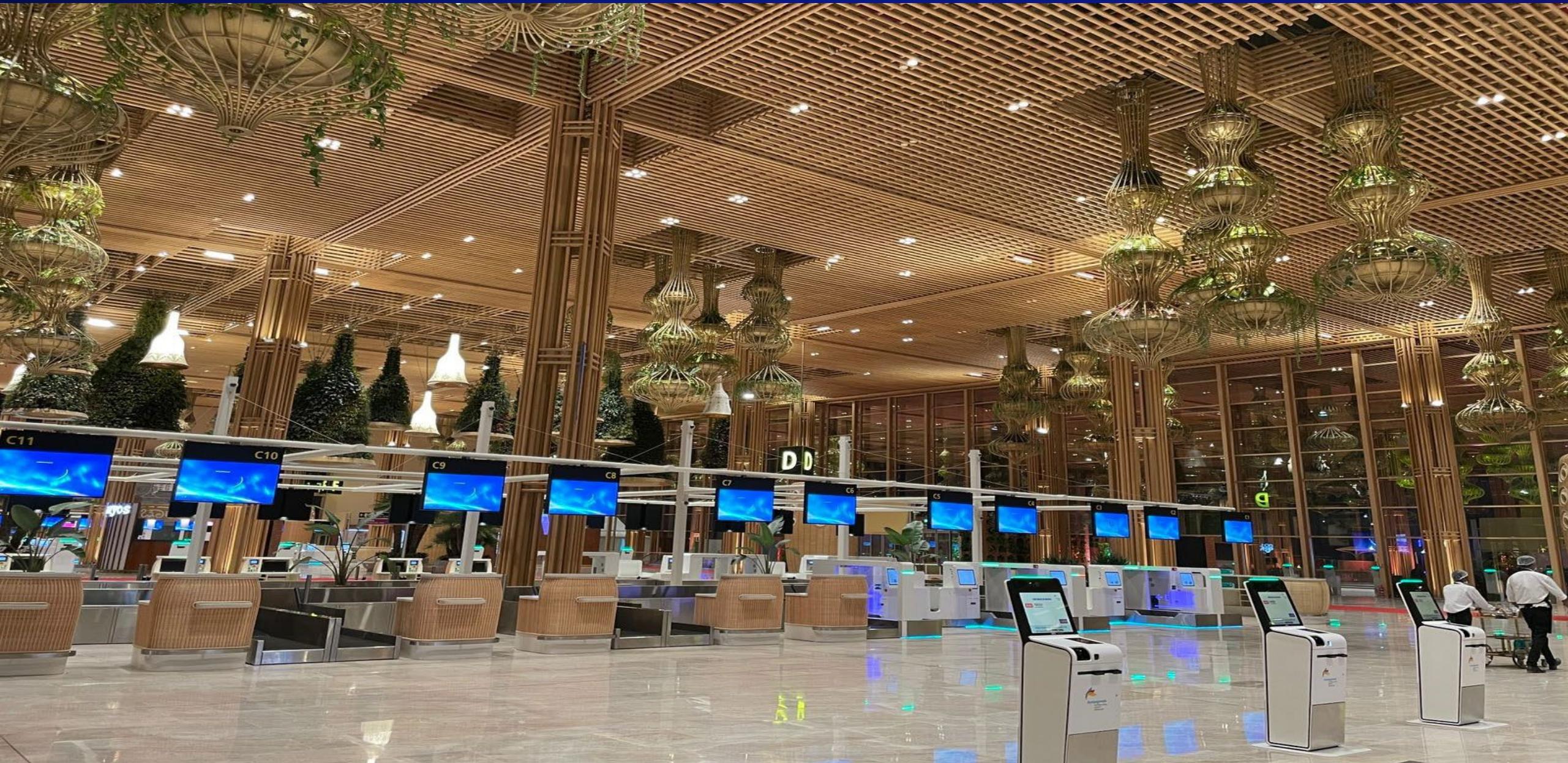


and Terminal 2, our flagship facility, developed around four themes

Terminal 2 – Terminal in a Garden



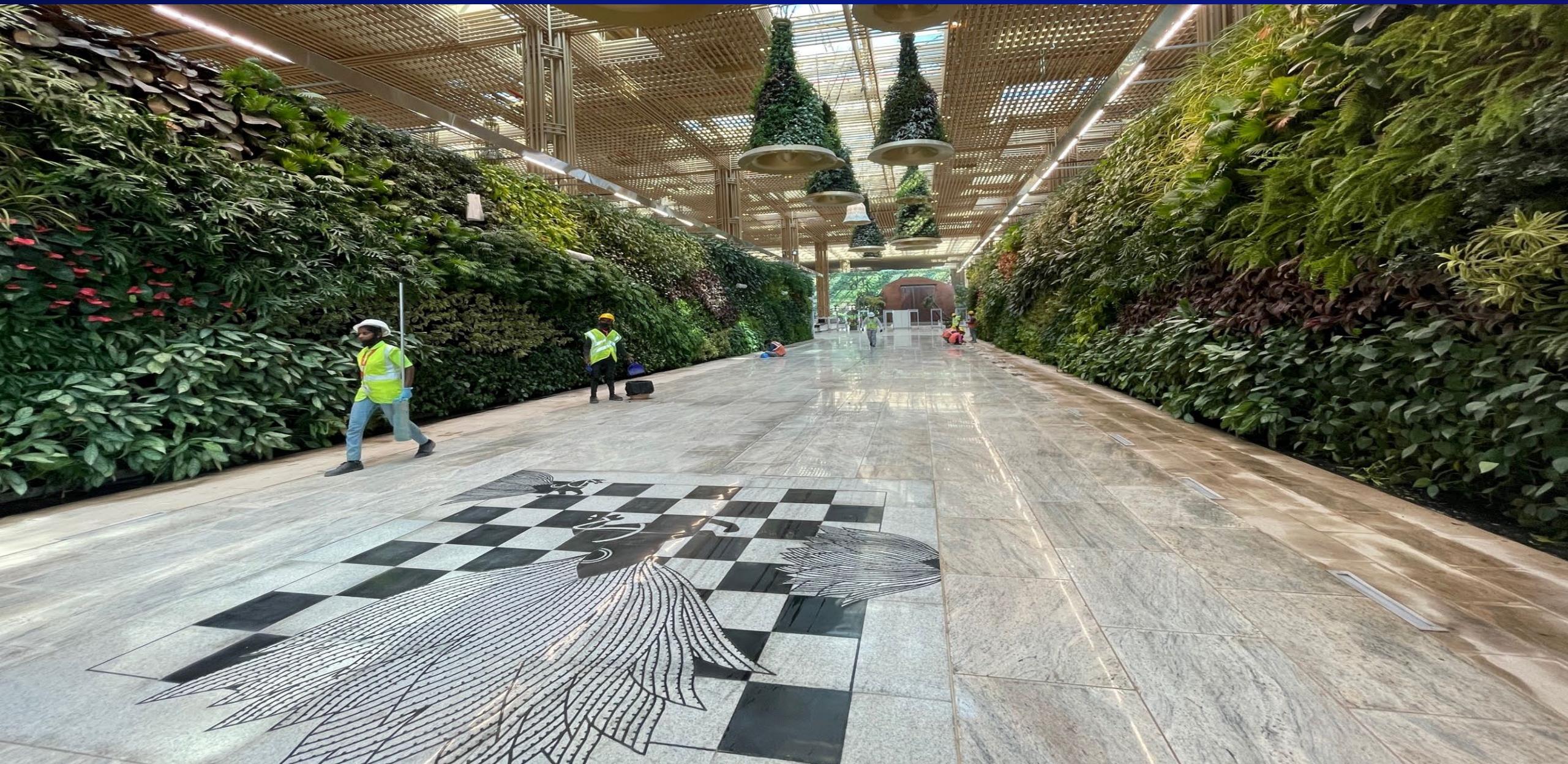
Terminal 2 – Technology



Terminal 2 – Sustainability



Terminal 2 – Art and Culture



T2: Salient features



Terminal Capacity:

25 MPPA

(10 Mn Intl and
15 Mn Dom pax)

- 56 traditional check-in counters and 34 self-bag-drop counters
- 12 ATRS lanes
- 22 contact stands with 2 Code F stands
- 4,500 bags to be screened in the peak-hour
- Digital transformation and #BLRMetaport programme
- Curated art programme based around two themes
- Approx. 10,000 sqm of garden walls, 600-800 year-old trees, 620 endemic plants, and 7,700 transplanted plants

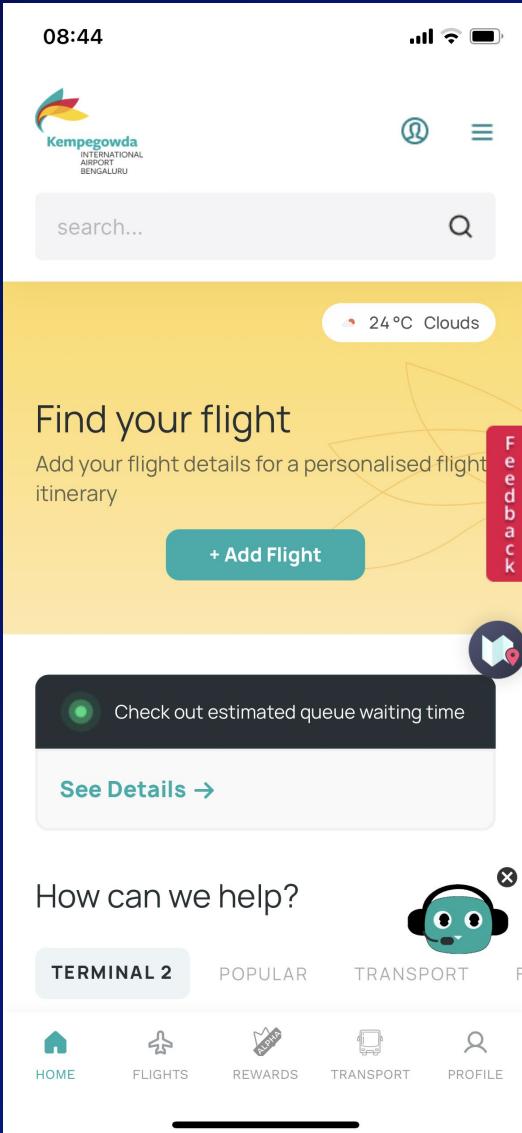


Approx.
255,000m²
floor area in Phase 1

LEED Platinum Pre-Certification by USGBC



Digital transformation - The future of aviation



- Flight Check In
- Shopping
- Interacting with other passengers
- Gaming and entertainment
- Photo-realistic Art Gallery

Bangalore International Airport Metaverse



- One of the First Airport terminals in the world on the Metaverse
- Immersive, 3D virtual experience
- New ways to interact with the airport



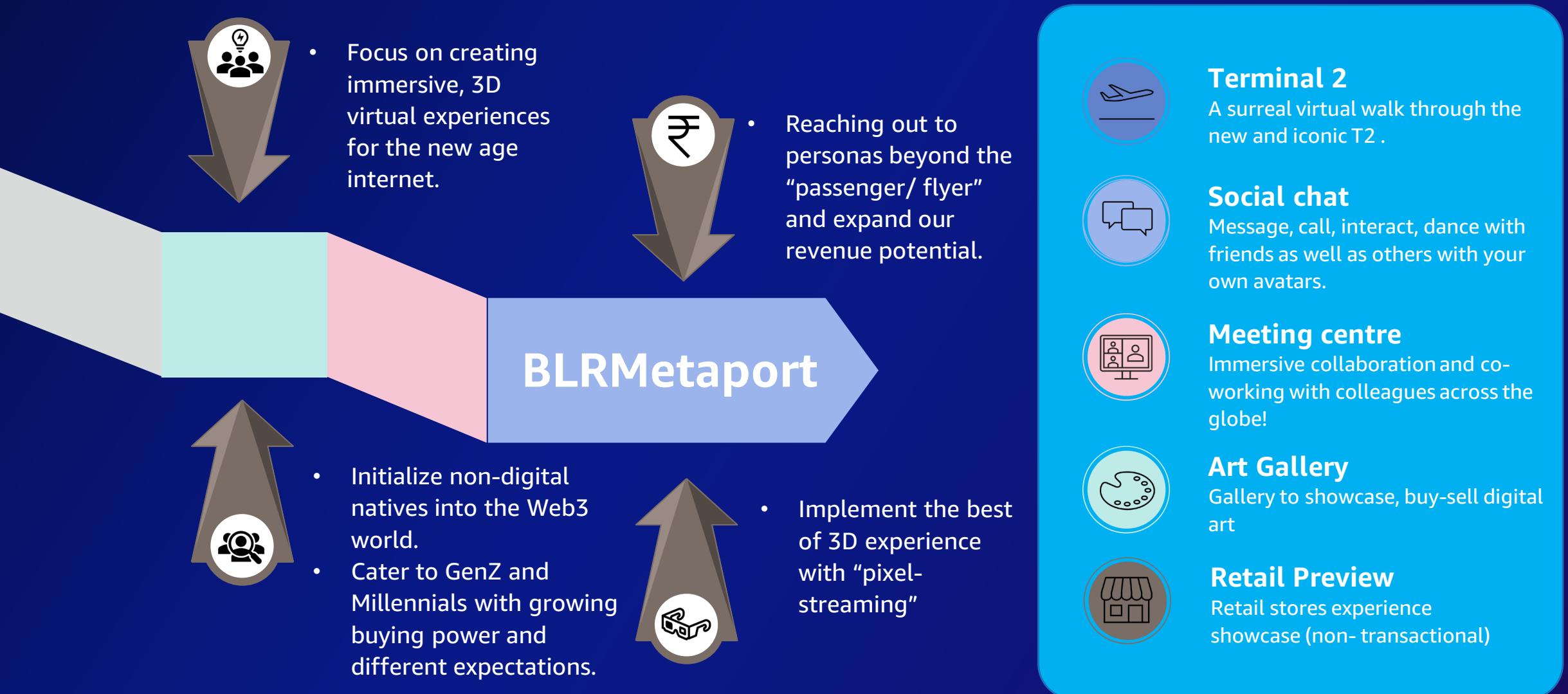
Kempegowda

INTERNATIONAL
AIRPORT
BENGALURU



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The journey so far...



BLRMetaport : Opportunities

Advt. revenues from brands

- Opportunities for revenue using brands across within #BLRMetaport
- Creating personalized / engaging experiences for customers
- Increasing brand engagement through minting / drop of NFTs

Revenues through “gamified entertainment” and providing Web3 infrastructure

- Create roleplays around aviation ecosystem (Terminal management, ATC controller, pilot simulation, gaming etc.)
- Create spaces for user-built communities to develop, showcase and trade digital assets of value
- Create concert events, art galleries and social festivals for customers

Connecting users to BLRAirport App

- Create immersive walkthroughs that help “flyers” familiarize with the processes of the Airport
- Showcase the exclusive offerings of BIAL (Care by BLR) and the 080 Lounge brand with opportunities to buy / subscribe to services at the BLRAirport.
- Develop AR/ VR/ MR Training modules for relevant departments
- Create online business centres for a more engaged interaction

The way forward

Building BLRMetaport

- Add areas with use cases & activity (Runways with flight simulation, Forest Belt with treasure hunt quest)
- Work with Commercial to create the 080 Lounge and brand to monetise the #BLRMetaport further

Building communities

- Work with Art, Commercial, Ops, Marketing teams and other external groups to create engaged communities
- Profile and focus on communities like AvGeeks, Landscape, Art, Brands, Bangalore City
- Launch BLRMetaport in BLR Web3 event and drop relevant NFTs

Integration with BLRAirport App

- Create a system of trust for login mechanism from both URLs
- Create a single-wallet mechanism for both NFTs and points
- Create a seamless user journey map for reward redemption and purchases

skillbuilder.aws 

Your time is now

Build in-demand cloud skills your way



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Thank you!

Kanishka Agiwal
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AWS India

Satyaki Raghunath
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