Powering intelligent airports

Lead the change with digital transformation

The aviation sector is growing rapidly. With the large volume of passengers and goods passing through airports every day, it is crucial for authorities to plan, manage, and control operations seamlessly. Intelligent systems and devices are the answer here. Smart transitions using AI/ML, Cloud, Marketing Tech, and more, are driving growth throughout the value chain for airports.

At Nagarro, we help airports evolve and adapt to meet old and new demands. With our proven technological expertise and sustainability solutions, you can harness the latest from the field of innovation to accelerate your journey towards a smarter airport. We help you build smarter operations, enrich passenger experience and align with net zero goals to help you accomplish your business objectives and sustainability targets.

Want to know how?

Read on!

nagarro

We help lay the foundation of intelligent airports by:

Accelerating data-driven smart operations

We not just leverage the best fit of technology for specific areas but also help build data rich environments for the airports that promote seamless collaboration, are predictive, informative and capable of sharing real-time data insights.

Augmenting passenger experience

We help make passenger journeys intuitive, personalized, and hassle-free. By understanding evolving passenger expectations, we help you create seamless passenger journeys with our tailored offerings.

Upscaling your net zero journey

Isn't it easy to achieve your goals when you can track your progress and take appropriate timely measures? Our sustainability offering helps you monitor consumption, emissions, and waste, etc., to pace you up in reaching the net zero state.

Accelerating data-driven smart operations

Adopting ACDM and AOP framework to enable data transparency and seamless collaboration within airports and airport stakeholders.

We help build **cloud-based data platforms** by gathering disperse data from diverse airport sources, refining and churning it for bringing deep insights by developing dynamic visualizations and dashboards.

We leverage computer vision solutions to capture real-time aircraft timestamps and events and monitor flight events.

Our ML and data analytics based offering helps in tracking passenger's arrival at airport terminals and aids airports to manage passenger flow movement seamlessly.

Our versatility for an interconnected smart airport:

AI-driven passenger flow management

Data analytics-based runway monitoring

Identity and access control

Smart gate allocation

Real-time flight turn around solutions

IoT-driven facility management

![nagarro]

Ideate, design, and model smart solutions to optimize operations at airside, terminal, and landside.

Our offerings help airports to:

Reduce operational impacts

Proactively handle situations

Obtain real-time insights

Achieve faster throughputs

Forecast and predict impact

Bring in collaborative decision-making

Improve overall efficiency

![nagarro]

Augmenting passenger experience

We help you transform travel experiences of passengers by bringing in smart mobility solutions such as:

Give passengers control over their journey by powering their smart phones.

- **Virtual queue**
  No more endless queues for passengers

  Replace physical queues with virtual lobbies that allow passengers to use their leisure time around airport premises; they get notified about their turn and avoid crowding.

- **Personalized retailing**
  Maintain passenger's 360-degree profile

  Keep track of passenger preferences, shopping experiences, history, and interactions at checkpoints to offer travelers personalized experiences in future journeys.

- **Smart parking**
  Pre-book and reserve your parking slot

  Get to know real-time parking availability, book your slots and pay in advance to avoid last minute parking hassle as you arrive at the airport.

- **Virtual assistant**
  Provide instant assistance to passengers

  Help passengers find lounges/restrooms, answer all their queries, and provide them recommendations, all virtually.

- Intra-terminal wayfinding & navigation

- Real-time notifications on flight status and updates

- Biometrics-based digital identities for contactless journey

- Lounge information, details on menus and services

Upscaling your net zero journey

We enable airports to gain complete view of their environmental impact and fast-track their path to Net Zero

Our sustainability platform is designed to track airport's overall emissions and helps you capture the holistic view for Scope 1, Scope 2, and Scope 3 emissions including GSE, APUs, ground access vehicles (GAVs), waste, and stationary equipment.

Get aligned on the airport carbon accreditation programme . Make every step count by tracking your progress on the four levels:

Map

Map, model and configure energy consuming sources within and across airport.

Reduce

Calculate and track your progress towards SCIENCE based targets, benchmark yourself to identify the sources leading to carbon footprint so that you can take appropriate measures to reduce emissions.
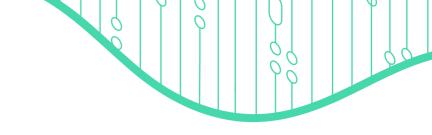
Optimize

Incorporate direct and indirect sources, including third party suppliers contributing towards emissions, for example catering companies, service providers, airlines etc.

Neutralize

Lastly, view and compare not just the emissions but also the total offsets being done in various ways to get a holistic picture of your vision to achieve the net zero state.

Our engagement approach for building Smart Airports

1. Initiate & identify

Setting up workshops to understand the airport's existing ecosystem and identifying key pain areas

2. Pan out strategies

Involving internal stakeholders to discuss potential solutions, risks and challenges, and business impact

3. Set up the vision

Identifying the use cases for pilot, platform and technology stack, and detailing out requirements and deliverables

4. Design & implement

Setting up infrastructure and environment, designing the user interface, and getting internal sign off after building and demonstrating the solution
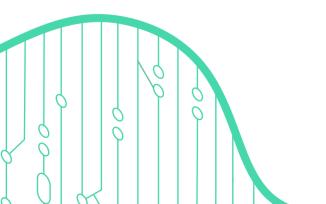
5. Kick off & monitor

Making the solution live and deriving inputs from end users

6. Operationalize

Scaling up and enhancing the features

nagarro

Why Nagarro?

Deep industry expertise

From legacy modernization to enhanced passenger experience, we have vast experience in product-engineering in the airport technology landscape across distribution , service fulfilment, and IROPS handling.

Product engineering DNA

Our high customer satisfaction ratings stand testament to excellence at digital engineering and solving complex business challenges through agility and innovation.

Proven frameworks & accelerators

Our frameworks and accelerators are built keeping in mind the aviation industry needs and fit well into airports' IT ecosystem, making them easy to use across different business functions.

Thinking breakthroughs mindset

Expect us to go the extra-mile to ensure your vision is best manifested in the products and solutions we build—we are wired for design thinking to help our customers curate innovative solutions.

20+
Years of travel & aviation experience

500+
Engineers globally

300+
Projects delivered

98.9%
Solutions offered match client's expectations

Thinking Breakthroughs

About Nagarro

We are shaping the company of tomorrow

Nagarro is a global digital engineering leader with a full-service offering, including digital product engineering, digital commerce, customer experience, AI and ML-based solutions, and CRM, SAP, CMS, ERP, and Salesforce capabilities. We help our clients become innovative, digital-first companies through our entrepreneurial and agile mindset, and we deliver on our promise of thinking breakthroughs.

We have a broad and long-standing international customer base, primarily in Europe and North America. This includes many global blue-chip companies, key airports, leading independent software vendors (ISVs), other market and industry leaders, and public sector clients.

Today, we are over 17,000 experts across 32 countries, forming a Nation of Nagarrians, ready to help our customers succeed.

Thinking Breakthroughs

nagarro

Connect with us at
tnl@nagarro.com

For more about us, visit **www.nagarro.com**