

# AVIATION NEWSLETTER

SUMMER EDITION | 2021



## A GLIMPSE OF THE FUTURE

**While the pandemic shifted the discussion towards survival and finding new potential revenue streams, sustainability remains a vital topic for the future of the aviation industry. With this in mind we invited a well-rounded panel of sustainable aviation experts to discuss their view and perhaps also offer a glimpse of what the future might hold for our industry.**

For those of you who couldn't join us live on May 26th, the recorded version is available in our webinar library but we've also put together some interesting take-aways from the event in this newsletter. You'll find an additional comment from our guests, Fredrik Kämpfe and Hartmut Fricke, on what they believe to be the most important factor in the journey towards a more sustainable aviation industry in the long and short term.

As always, we'll provide some insight into the latest news on our range of aviation software along with articles and input from our community. We hope you enjoy the read and wish you all a wonderful and safe summer!

*Anna Pålsson, Senior Marketing Manager  
anna.pahlsson@transoftsolutions.com*

Up for discussion | Sustainable Aviation  
Check out the takeaways and watch the recording!

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# IN FOCUS RECAP

We've had a packed IN FOCUS webinar schedule this spring! With topics ranging from apron expansions and regulations to looking ahead to the future of aviation with electric aircraft. We hope there is a topic in there for everyone!

Visit the IN FOCUS webinar library!

## Planning for Apron Expansion

*Tony Dockery, president  
AGD Associates*



## Taxiway Regulation Compliance

*Bernard Goodworth, Senior Product Manager  
Transoft Solutions*



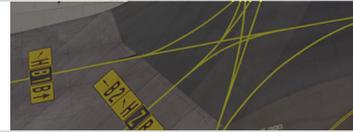
## Electrifying Regional Air Travel

*Annie Olofsson, Energy Market Analyst, Sweco  
Fadi Antoon, Technical Manager, Sweco*



## Finding Synergies to Compliant Design

*Kristers Ginters, Aerodrome Technical Engineer, Riga International Airport  
Bernard Goodworth, Senior Product Manager, Transoft Solutions  
Alan Mason, Senior Product Manager, Transoft Solutions*

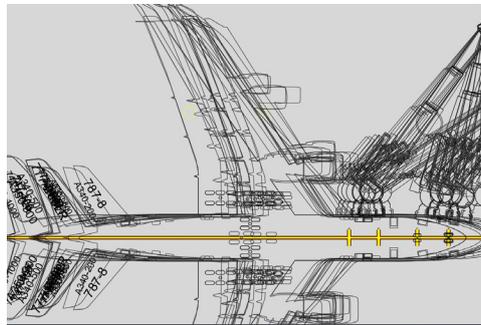


## A TRANSFORMATIVE TOOL FOR AIRPORT DESIGN

**The complexities of airport planning require powerful tools for modeling aircraft movements in minute detail to achieve efficient traffic flows and, just as important, maintain the highest standards of safety. In the article “A transformative tool for airport design”, Transoft Solutions Senior Product Manager Bernard Goodworth and airfield design specialist Matthias Hildebrandt from planeground airport consulting shares their insights and thoughts on how AviPLAN has proven to be the ideal tool for airside design.**

In every aspect of airport design, precision is key. Accurately modeling every aspect of airside traffic, airport infrastructure and ground support, as well as their movement around the airport, is the first and most important step in making airport operations safe, efficient and compliant with strict regulations.

AviPLAN enables airport planners to accurately design the geometry of the movement and parking areas at airports of any size. The tool is being used in airports all across the world, for tasks ranging from aircraft parking, to pavement marking design, apron and taxiway construction work, to jet blast analysis. Senior Product Manager at



Transoft Solutions, Bernard Goodworth, has been involved in the development of AviPLAN for around 20 years – initially as a user, but for the past four years as a part of the Transoft team. “We have always focused on user feedback to guide the software development, which is, I expect, why most of our users find the software so intuitive”.

One of the users who provide continuous feedback is Matthias Hildebrandt, Airfield Design Specialist at planeground airport consulting. He has a wealth of experience using AviPLAN and worked at a major German airport before joining planeground. Matthias has been involved in a number of major projects, including taxiway fillet design and compliance studies, temporary parking of overflow aircraft on taxiways, jet blast analysis across the aircraft movement area and more. “The software enables quick assessment of the different aircraft types, wing tip clearances and separation distances between aircraft/tugs and the high-strength pavement edge. It is also used to determine the suitability of each parking position for low power engine ground running for various maintenance purposes”, Hildebrandt explains.

“AviPLAN is the primary software tool used for planning and design of contact

and remote aircraft stands at most of the world's major airports. At many of our client airports, the stands are being progressively assessed for compatibility with new aircraft types to determine potential capability improvements”, he continues.

The stand tool in AviPLAN enabled Hildebrandt and his team to quickly check bridging, fueling, ground power, clearances, and a host of other serviceability considerations on multiple stands, and was also put to work in assessing pushbacks in the development of apron markings. The solution was pivotal to one particular apron project, which included the introduction of new passenger and freighter aircraft types, as well as changes to storage and staging areas for apron buses, additional passenger boarding bridges and upgrades to apron markings. “AviPLAN provided quick and detailed assessment of each stand”, says Hildebrandt. “Plus, it enabled fast and accurate assessment of service vehicle movements, including baggage and cargo loaders, catering vehicles, hydrant dispensers and tugs.”

The continuous stream of feedback from users such as Matthias Hildebrandt is brought into the development process of AviPLAN, ensuring that it stays on top of the changing demands of the industry and never falls behind.



Full article will be available in the next issue of Future Airport!



# UP FOR DISCUSSION



## Sustainable Aviation

You can't read the news without hearing about climate change, carbon neutrality, and net zero, but what does it all mean? In this segment Carol Lurie, Regional Aviation Director at VHB give an overview of sustainability for the aviation industry, covering three different perspectives - Regulatory authorities, Airlines and Airports. Each play important roles and contributes to how the aviation industry weaves together against the challenges faced.

[View recording](#)

## Innovation & Future Trends

This section introduces new trends and innovations within the aviation field, that will play an important role in reaching the long-time global sustainability goals set for the aviation industry. Vivekanandhan Sindhamani, Sustainable Aviation Lead and Airport Consultant at NACO begins by presenting aviation's contribution in relation to global emissions, emission distribution within the aviation industry, and we look ahead into what the global emissions might look like in 30 years.



[View recording](#)



## New Goals & Competing Objectives

Over the past 10-20 years we have seen an evolution in airport sustainability plans. In this segment Jill Douchette, CEO and founder of Synergy Enterprises, discuss the shift in focus from the older plans which focused solely on environmental performance limited to an airport's operational scope, to the plans which incorporates a broader definition of sustainability. Climate, ecology, energy, waste and water management are all taken into consideration, and the new plans set targets based on historical trends and the United Nations Sustainable Development Goals.

[View recording](#)

## The Transition to a New Era

Fredrik Kämpfe, Director of Industry Affairs, Swedish Aviation Industry Group, hypothesize what the future of aviation might look like, and how we can prepare for the transition to more efficient and sustainable solutions. Transport is integral for our society and plays a key role in the global economy, and Kämpfe stress the importance of continuing to provide the most efficient mode of transportation while keeping sustainability at the forefront in future plans. New transport and infrastructure and the possibilities for all modes of transport to be sustainable, interact, interdepend and fully integrate to our surrounding environment is discussed.

[View recording](#)



# THE ROAD TOWARDS GREEN AVIATION

international industrial activity, national measures when it comes to ambitions and goals carries with them a risk for a fragmentation which will be very negative for the industry. Thus, we have to find our way back to the international drawing table and agree global CO2 reduction targets and measures for aviation, but at the same time move quickly. In fact, this may become the ultimate test for the ICAO system: let's start viewing "green safety" like we view 'flight safety' and use the ICAO system accordingly.



"The current rather disruptive social requirement for improving sustainability on short term in all transportation sectors require huge efforts in technology and procedural innovation which are in reach. We will however have to manage this transition smart, opening the standards as to allow these ideas to materialize in the market while keeping homogeneity and interoperability. This is well achievable with an intensive, easy-to-participate consultancy process between politics, regulatory bodies and the industry."

"This is an important activity for the years to come which we can and will certainly master" he concludes.

**We asked Fredrik Kämpfe, Director of Industry Affairs, Swedish Aviation Industry Group, and Hartmut Fricke, Director of the Institute of Logistics and Aviation, Technische Universität Dresden what they think will be the most important factor in the journey towards a more sustainable aviation industry, in both the short term and the long term.**

"In the long term I believe we have to agree on the terms of the journey towards sustainable aviation", Fredrik begins. "Since aviation is a genuinely

In the short term we must direct all resources to measures that actually give CO2 reduction right now. Invest in SAF production and stimulate increased uptake. Finalize the SES ambitions to unify the European skies. Invest in a broad technological development basis which does not only favour the incumbent manufacturing industry but also allow new entries with new ideas."

"Aviation is a remarkably standardized industry sector thus granting commonality, reliability, high safety figures over decades" Hartmut continues.

Transoft Solutions would like to extend a huge **Thank You** to the panel members! Without your contribution and knowledge the webinar could not have happened.

## ATTENDEE FEEDBACK

### Up for discussion | Sustainable Aviation

**"Overall a thought-provoking and broad ranging set of presentations and discussions which made me think quite differently about new directions and initiatives that airport leadership can and should take. Thank you."**

**"Great webinar, I really enjoyed the topics and the optimism for the future especially after such a destructive year for the aviation industry"**

**"Great summary of what's been going on and the different dimensions."**

**"A very nice discussion indeed. Cannot wait for another one to happen"**

Were you unable to join the discussion in our live webinar? Don't worry! A recorded version is available in our webinar library!

[View recording](#)

# THE GLOBAL GOALS

In 2015, world leaders agreed to 17 Global Goals. In 2021 there is still much to be done to reach these goals to create a better world by 2030, ending poverty, fighting inequality and addressing the urgency of climate change.

Learn more about the global goals here!

## THE GLOBAL GOALS For Sustainable Development



## ELECTRIFYING REGIONAL AIR TRAVEL

**Another webinar falling under the topic of sustainable aviation is the recent IN FOCUS webinar “Electrifying Regional Air Travel”, presented by Annie Olofsson and Fadi Antoon from Sweco. Annie’s recent Master’s thesis served as a foundation for this webinar. She is an Energy Market Analyst, working with both technical and strategic matters with a main interest in the transportation sector and local energy production. Fadi works as a Technical Manager & Airport Planner and has previously worked as an Airport Planner for Stockholm Arlanda and other Swedish airports.**

**Annie, earlier this year you finished your Master’s thesis “A harmonized electrification of aviation”. Could you give us a short summary about the report and your findings?**

I think everyone is now aware of the ongoing energy transition that we see everywhere in our society today, along with the increasing demand for renewable electricity. In my thesis I was looking at the opportunity of solar power at regional airports, not only as a way for the aviation sector to participate in the transition but also considering the development of electric regional aviation. The study has a macro perspective identifying solutions and challenges at system levels for multiple



actors such as airports, airlines, grid companies, municipalities, and external financial investors.

**Fadi, what are some of the main challenges from a planning perspective with building solar parks in connection to airports?**

There is a strong and healthy safety culture within the aviation industry. Some of the most common questions that will arise include but not limited to

- Glare
- Radar interference
- Physical penetration of airspace

As with any significant change to airport infrastructure, careful planning is needed so that solar parks won't pose a risk to pilots, air traffic controllers, or airport operations. And the plans are compatible with approved airport master plans. Solar parks are a proven concept on several airports and airfields.

Several studies have been conducted by authorities, e.g. The FAA, to provide information and guidelines on how to achieve the regulatory requirements.

**Does the current airport infrastructure support the electrification of regional air travel?**

The conditions vary for each individual airport, but in general airports have a good grid connection since electricity is vital for them to function. However, the turn-around time will continue to be as essential as it is now and therefore the time slot to charge will imply high power demands, especially when larger electric aircraft enters the market and when more than one needs to charge at the same time.

**Are we well on our way in the process of electrifying regional air travel? Or is there still a long way to go**

In Sweden, the company Heart Aerospace are planning to have their first 19-seater up and running around 2025. One important aspect is to simplify the legislation process in implementing electric aviation. And to ensure fuel supply of course, by installing solar power. However, Annie and Fadi concludes, we see multiple aviation academies in Sweden placing firm orders for electric two-seater aircraft for pilot training.

If you want to learn more about the electrification of regional air travel, the recorded version of Annie and Fadi’s recent IN FOCUS webinar is now available!

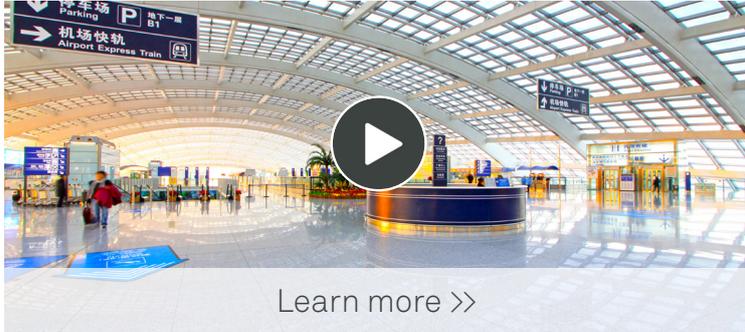
View recording

# THE AVIATION PRODUCT SUITE

Whether a project involves optimizing aircraft parking at a gate, improving check-in procedures, designing new ground markings, preparing an obstacle limitation report, or assessing facility capacity or widening a taxiway fillet, Transoft Solutions has a solution to help complete the task confidently and accurately in a time-efficient manner. Discover our product suite below.

## PASSENGER TERMINAL SIMULATION

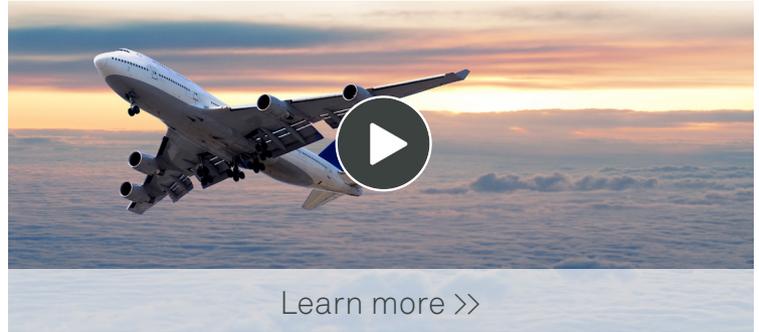
ArcPORT | Enabling Informed Decisions



[Learn more >>](#)

## AIRSPACE SIMULATION

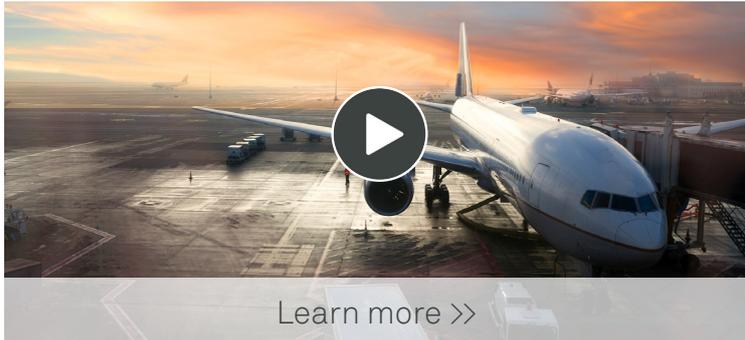
AirTOP | Airport Modeling and Simulation



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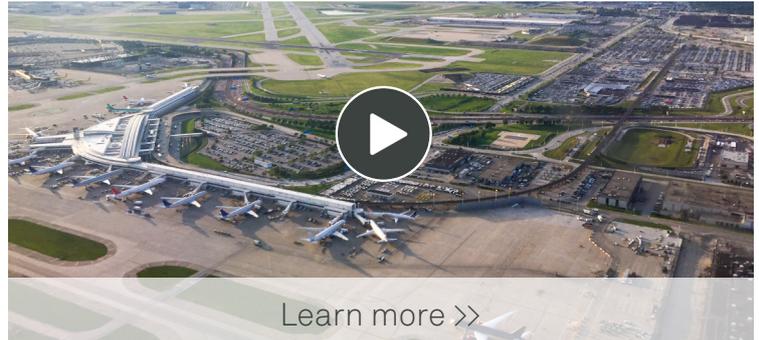
## AIRPORT PLANNING & SIMULATION

AviPLAN | Empowering Aviation Planners



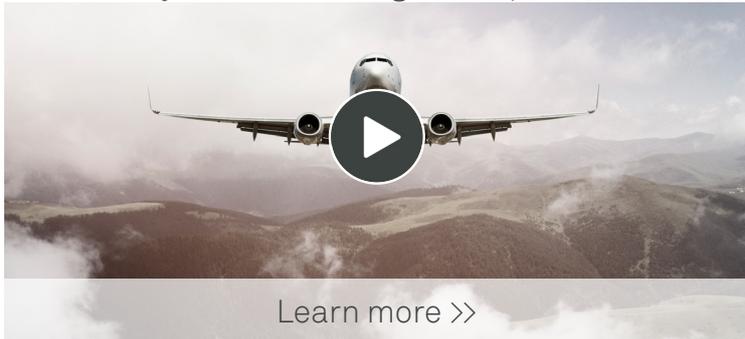
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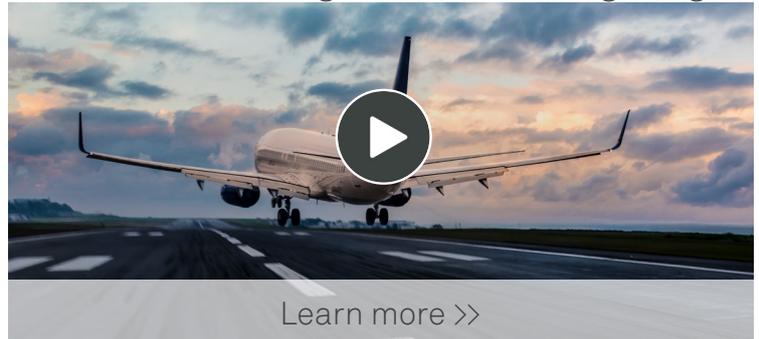
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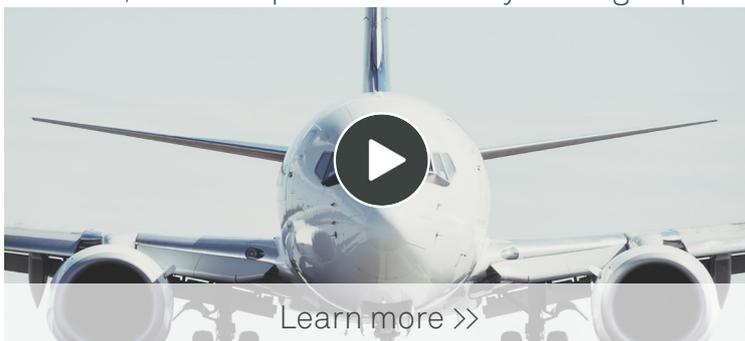
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*Don't know which software solution that you'd like to begin with? Get introduced to them all in one sitting in our webinar **"A journey through the airport"** before deep-diving into a specific solution.*

[Watch "A journey through the airport" >>](#)

# NEW RELEASE | SKYSAFE 2.1

## Autodesk Compatibility

AutoCAD® and Civil 3D® 2022

**Transport Canada TP312 5th Ed.** Regulations updated to support Amendment 1

**ICAO Annex 14 Vol. 1 8th Ed.**

New option to center Inner Horizontal surface on runway ends or runway strip ends

Many more **general improvements, performance enhancements** and **bug fixes**



## SKYSAFE HIGHLIGHTS

If you don't have the time to invest an hour or so into watching a complete webinar recording, we've broken down the SkySAFE webinar into shorter highlight videos. Each video is just a few minutes long, focusing on a specific feature or challenge. Click on the feature that you'd like to explore below.

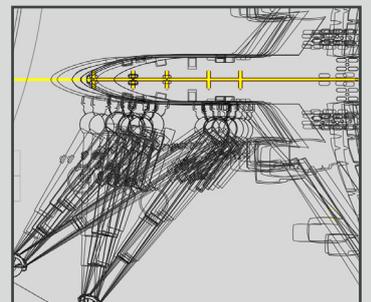


[DOWNLOAD BROCHURE TO LEARN MORE!](#)

### WORD FROM DEVELOPMENT

2021 continues to be a busy year for our aviation development teams. New versions of AviPLAN, AirTOP, ArcPORT and AeroSTRIPE have been launched over recent weeks, and a new SkySAFE version is in the pipeline for imminent release. A number of major WIZer milestones have also been achieved in projects across the globe. Looking ahead, work continues on all products with a view to launching several major upgrades later in the year.

*James Renner, Senior Manager  
Product Management  
Transoft Solutions*



# UNIQUE RULE-BASED GATE-TO-GATE FAST-TIME SIMULATION

AirTOP is a gate-to-gate fast-time air traffic and airport complexity modeling, simulation and assessment software. Users include major air navigation service providers (ANSPs), airport authorities, airlines, research labs and consulting companies globally. The software is used to assess air traffic and airport complexity, measure controller workload, improve airspace and airport capacity and much more. AirTOP models have been used to improve the operations of more than 100 major airports worldwide.

## AIRPORT MODULES

### AIRSIDE AIRCRAFT

Assess and improve airport airside operations and capacity by modeling aircraft operations such as gate allocation, runway entry or exit selection, runway sequencing, turnaround management, de-icing procedures, departure management, and more.

[LEARN MORE!](#)

### AIRSIDE VEHICLE

Assess and improve airport airside ground operations by modeling the movements of ground service vehicles, including rule-based allocation per flight and factoring in the vehicles' parking location, speed, service duration, and more.

[LEARN MORE!](#)

### RUNWAY CAPACITY ANALYZER

Assess and improve existing and future runway system performance (capacity, throughput, delay, Service Level Agreements), considering current demand and schedules or ad hoc demand levels, and evaluate with a Monte Carlo simulation approach

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## AIRSPACE MODULES

### EN ROUTE

Assess en route airspace complexity and capacity by modeling traffic and air traffic control procedures. Includes rule-based modeling of controller workload, conflict detection/resolution, letters of agreement, tactical re-routing, and more.

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### FLOW MANAGEMENT

Assess and improve network and flow management procedures by modeling 4D Trajectory Based Operations (4D TBOs) and Demand Capacity Balancing (DCB) measures including AMAN, time or distance-based point-in-space metering, re-routing, and more.

[LEARN MORE!](#)

### TMA/TRACON

Assess and improve the capacity of airport terminal airspaces by modeling TMA/TRACON air traffic control procedures and workload, aircraft movements, runway system sequencing, vectoring, speed, holding, and more.

[LEARN MORE!](#)

# SHOW OFF YOUR SKILLS

Add our software solutions as a skill to your profile on LinkedIn!



An important part of your LinkedIn profile is being able to highlight skills and proficiencies within various areas and tools. With the introduction of the Aviation Forum product pages, you can now add all our aviation software solutions as skills to be listed on your profile!

Did you know that you can find software **introduction trailers** and **highlights** on our YouTube-channel? Click on the solution of your choice below to explore.



## TRANSOFT SOLUTIONS' MAINTENANCE ASSURANCE PROGRAM

Maintenance Assurance Program (MAP) allows our clients to enhance the value of their software investment with access to the latest releases and services that can help improve project workflows.

## THE BENEFITS OF MAP



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FLEXIBLE. CUSTOMIZED. ONE-ON-ONE INTERACTION.

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The benefits of online training include the flexibility in timing, content and length of the learning sessions. Our instructors are always ready to support you in the planning of your training to ensure you get the most out of your time spent. The small group size also guarantees a high quality interactive experience.

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Customize based on your needs or pick a pre-planned course created by one of our instructors!

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- Park Command
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Fit the training sessions into your schedule with ease with two-hour sessions (maximum two per day) to make sure you have time to keep up with your other daily tasks.

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Receive the undivided attention of one of our product experts, guiding you through the course.

Whether you are a novice or an experienced user, our online training options provide you with a convenient and affordable way to get the most out of your software

# Inquire here!

# MEET THE AVIATION TEAM

## SAHANA VEDA

Product Specialist  
Bangalore



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[Connect on LinkedIn](#)

*Sahana Veda has been with Transoft Solutions since 2014 and holds a Civil Engineering degree with a Masters in Transportation Engineering. In her role as a Product Specialist, Sahana is constantly keeping up to date on the full range of Transoft's software solutions, from Civil & Transportation to Aviation.*

### What's your expertise?

I am a Civil Engineer, with my main expertise being Transportation Engineering. While I mainly focus on Construction & Road Products, I am also heavily involved in the communication with our airports here in India. Pre-pandemic, while public events were

still a regular occurrence, I also used to represent Transoft Solutions and our Aviation unit regularly at various Airport conferences & tradeshow – an activity which has deepened my understanding of the aviation market and helped me assist our aviation customers better.

### What development do you see within the Aviation industry?

The Aviation industry is one of the biggest industries globally, generating a lot of revenue and creating many jobs worldwide. While the pandemic has hit us hard, IATA predicts a growth of air traffic over the coming years as Aviation is becoming accessible to the global population as many small airports are coming up within the reach. As a result of this, I think we can expect to see an increase in the number of jobs that our industry creates, despite the challenges that we as an industry are facing right now.

I think that we can expect to see a slow recovery next year, and that our industry will bounce back within another 2-3 years. There are many state-of-the-art technologies which will be implemented in the upcoming years, so I'm very excited to see what the future holds for aviation.

### Any tip for our software users?

Transoft Solutions is one of the leading companies globally when it comes to Aviation solutions. We have a dedicated Aviation team with personell having their expertise in different areas of the Aviation sector who are constantly addressing



industry needs. We are always available to address our customers issues, so you should always feel free to reach out to us in our social media platforms or by contacting us through one of our regional offices worldwide.

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- Product Presentations
- Articles
- Aviation Newsletter
- Product News
- Product Updates
- Up for Discussion panel webinars
- IN FOCUS webinars
- User Group meetings

# HAVE A NICE SUMMER!

Keep an eye on the Aviation Forum to find out what exciting plans we have for the rest of the year!

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Did you know that all of the previous webinars hosted by Transoft Solutions Aviation are available on demand? Click on the category of your choice below to explore their respective webinar libraries, filled with hours of informative and interesting content for the aviation professional.

**Product Presentations | Up for Discussion | IN FOCUS**

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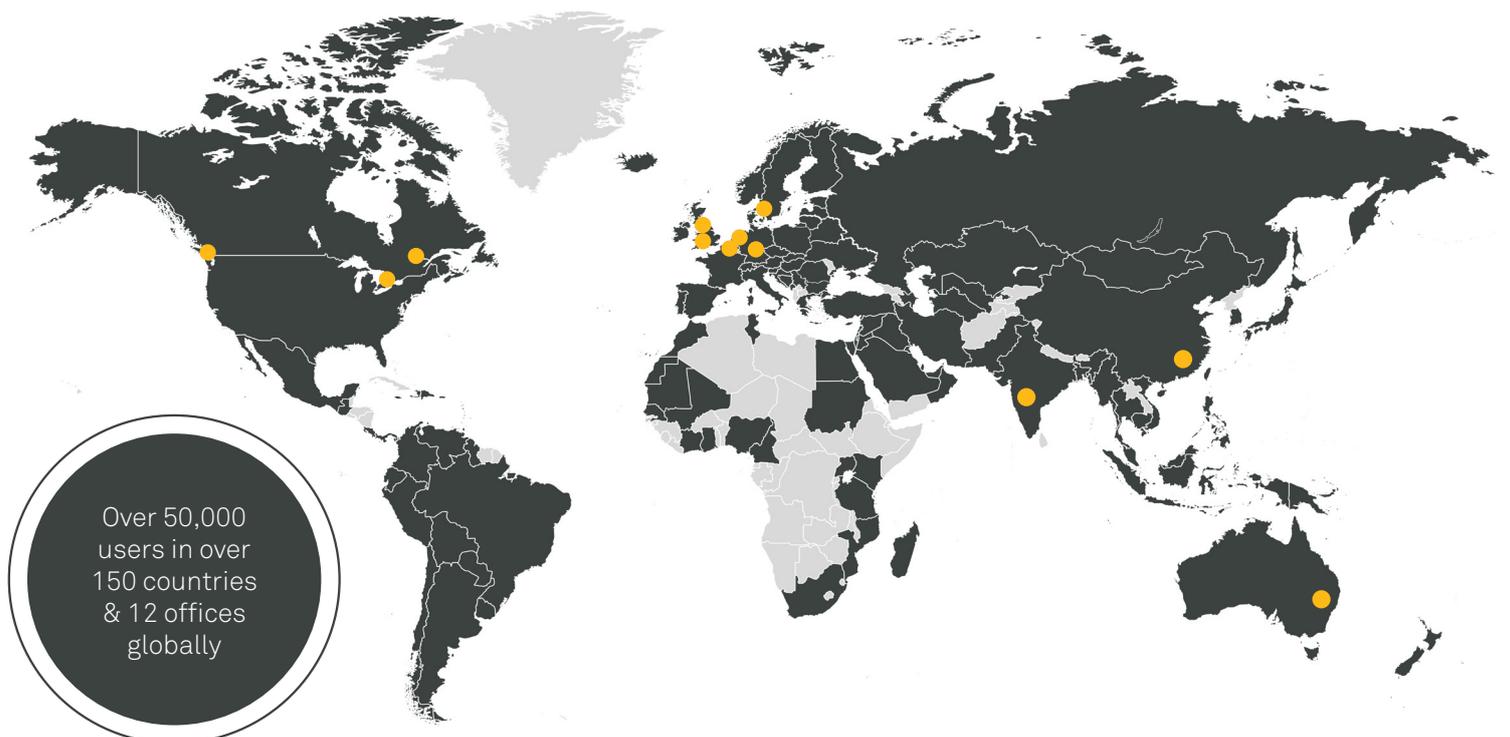
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