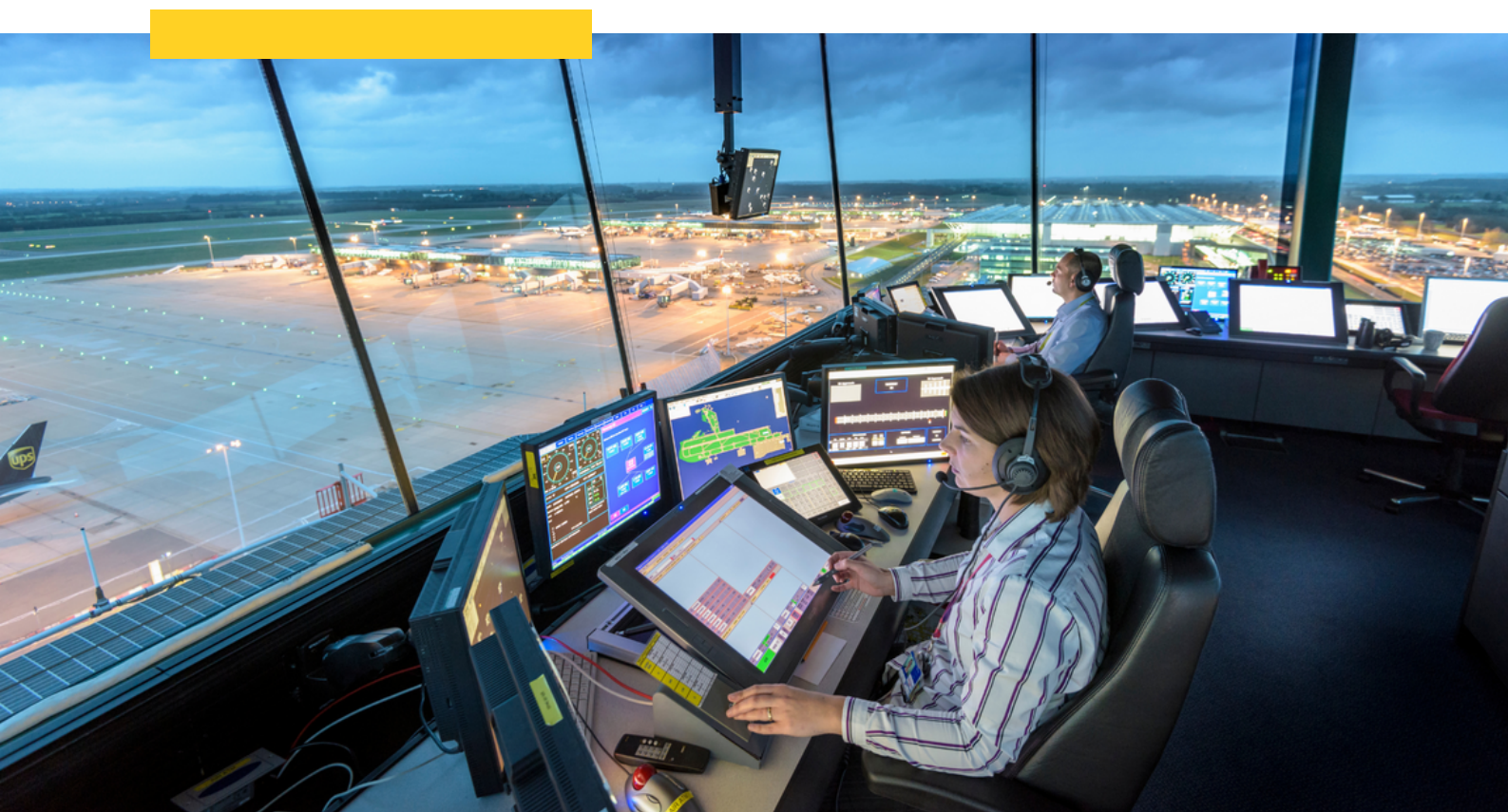# ICS AVIATION TRAINING & SOLUTION

ICS AVIATION - TRAINING AND SOLUTION

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INNOVATIVE & COLLABORATIVE

ICS is a UAE based training & Consultancy Institute with a wide range of aviation training services and customized solutions in the sector of Aviation.

ICS Aviation - Training & Solutions

ABOUT ICS AVIATION

🛩️ A BRIEF STORY ABOUT ICS AVIATION

ICS is a UAE based training & Consultancy Institute with a wide range of aviation training services and customized solutions in the sector of Aviation.

The company operates in a fast-moving and exciting industry sector providing its services to customers from over 35 countries, many of which are fast-growing emerging markets.

ICS offers many services which can be provided either in-country or at its partners facilities in UAE or globally, which are approved by UAE GCAA and ICAO TRAINAIRPLUS in UAE.

SIMULATE REAL-WORLD AVIATION SCENARIOS AND EMERGENCIES FOR MORE IMMERSIVE AND EFFECTIVE LEARNING.

ICS IN WORD

ICS has an expert team of Air Traffic Control training, as well as many other areas such as (not limited to):

- **ANS Management.**
- **CNS (Communications Navigation & Surveillance) Engineering**
- **2D & 3D ATC Simulation System**
- **Aeronautical Information Management and Services**
- **SAR Training & Consultancy**
- **ORAT Consultancy**

OUR OUR PHILOSOPHY AND COMMITMENT

01 We at ICS strive to introduce benchmarked and best practices in any assignments or projects we undertake to help our clients have unique pleasant experience towards achieving optimal results.

02 ICS is **certified in ISO 9001 and ISO 10001 Standards for Quality Management System and Quality Training System.** We always aim at differentiating ourselves in the market to sustain and further give more confidence and credibility.

03 We practice what we preach as we continue to fulfill the highest levels of quality and compliance with international practices. We have many milestones, some are achieved and some are yet to be, in distinguishing ourselves as the leading firm with a culture that is at par with global standards.

WHY ICS

GLOBAL EXCELLENCE IN AVIATION TRAINING

ICS is a leading global Aviation independent Training firm composed of experts specializing in Air Traffic Management & Aviation English Courses as well as testing system.

DOMINATING THE UAE MARKET WITH EXPERT CONSULTANCY AND TRAINING SOLUTIONS

In UAE, ICS has large market share for Consultancy, Training and Coaching. To facilitate our clients , ICS has an army of Trainers and Consulting Professionals and Project Management experts

UNLEASHING COMPREHENSIVE HUMAN CAPITAL CONSULTANCY EXPERTISE

ICS has extensive expertise in Human Capital Consultancy in the Aviation sector such as conducting **non-aeronautical revenue generation , Aviation Weather Risk Management, Operational Readiness Activation and Transition (ORAT), ANS Management, SOP, Enterprise Risk Management, Finance Optimization, TNA Analysis, Operations Improvement, ISO Advisory Services, SME Advisory Services, IT Consulting** as well as other consulting services.

ICS-AVIATION.COM

VISION

Our vision at ICS Aviation is to be a global leader in aviation education and solutions. We aspire to create a future where every individual in the aviation sector is equipped with the knowledge and skills needed for success. By pioneering advancements and setting new standards, we envision a safer, more efficient, and interconnected aviation community.

MISSION

01 ICS Aviation is committed to empowering individuals and organizations within the aviation industry. We believe in providing the tools, knowledge, and resources necessary to elevate skills and performance. By offering comprehensive training programs, we strive to enable professionals to reach new heights in their careers, contributing to the overall excellence of the aviation sector.

02 Central to our mission is the cultivation of a safety-centric culture within the aviation community. We understand the critical importance of safety in the aviation industry. Through our training initiatives, we aim to instill a deep sense of awareness, responsibility, and best practices to ensure the highest standards of safety across all aviation operations.

03 ICS Aviation is dedicated to advancing the global community of aviation professionals. Our mission extends beyond individual skill development to contribute to the overall progress of the industry. Through innovative solutions and collaboration, we seek to play a pivotal role in shaping the future of aviation, fostering a network of highly skilled and forward-thinking professionals worldwide.

OUR VALUE PROPOSITION

A BRIEF STORY ABOUT THE PROBLEMS

Our business model is different than our competitors. The key elements of our business model emphasize our value proposition for clients. They include:

INDEPENDENCE

We deliver unbiased, objective advice in the best interest of our clients - No Conflicts of Interest.

FOCUS

Aviation Training & Consulting.

LEADERSHIP

We have published numerous documents which are considered by many to be best-in-class guidance on topics including customized Human Capital and Best Practices.
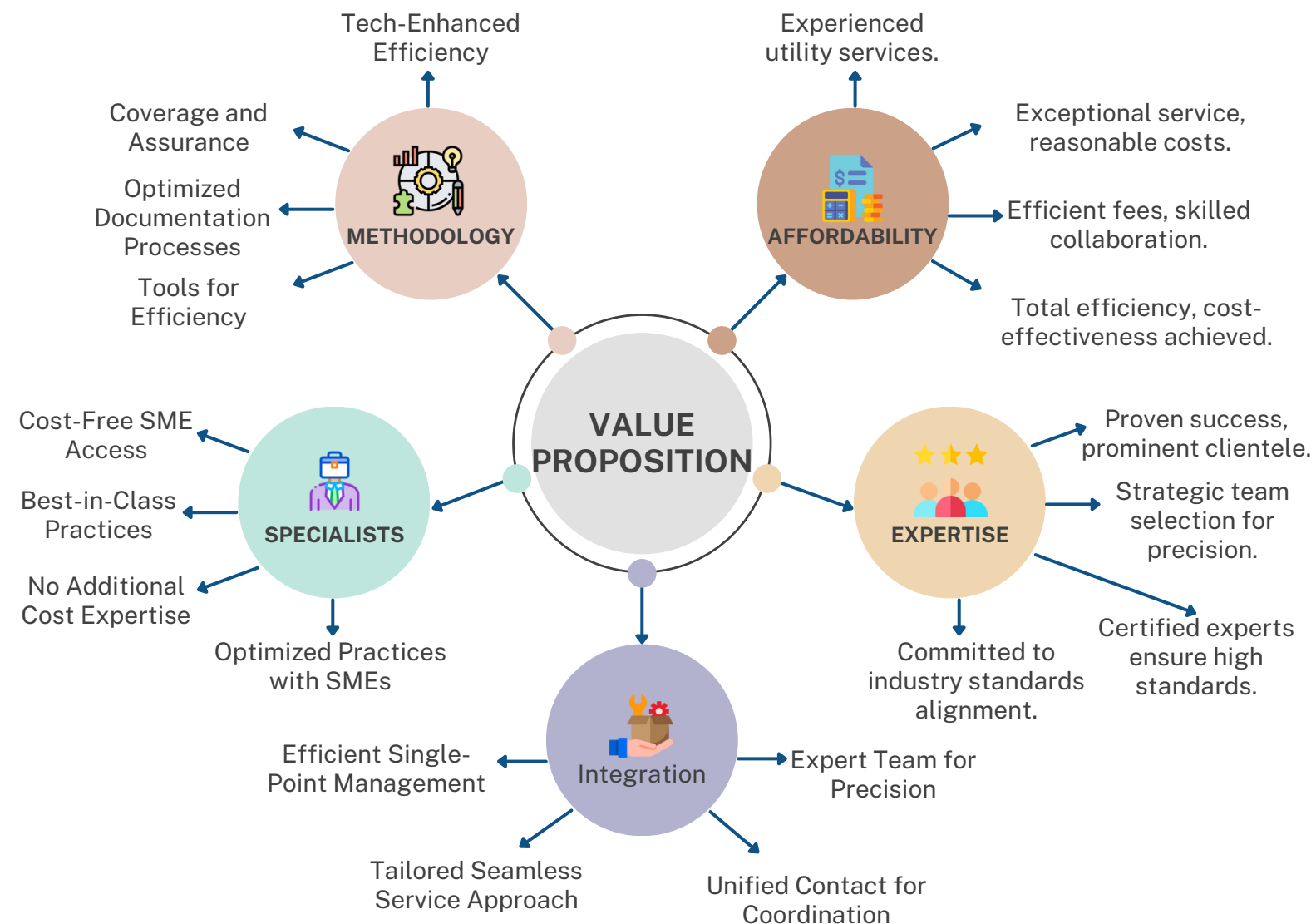
CHANGE AGENTS

We view change as an opportunity to define an exciting new future for our clients and ourselves.

A DISTINCT MARKET POSITION

METHODOLOGY
- Tech-Enhanced Efficiency
- Coverage and Assurance
- Optimized Documentation Processes
- Tools for Efficiency

AFFORDABILITY
- Experienced utility services.
- Exceptional service, reasonable costs.
- Efficient fees, skilled collaboration.
- Total efficiency, cost-effectiveness achieved.

VALUE PROPOSITION

SPECIALISTS
- Cost-Free SME Access
- Best-in-Class Practices
- No Additional Cost Expertise
- Optimized Practices with SMEs

EXPERTISE
- Proven success, prominent clientele.
- Strategic team selection for precision.
- Certified experts ensure high standards.
- Committed to industry standards alignment.

Integration
- Expert Team for Precision
- Efficient Single-Point Management
- Unified Contact for Coordination
- Tailored Seamless Service Approach

OUR SERVICES

A BRIEF STORY ABOUT OUR SERVICES

ICS AVIATION's goal is to provide training with well-planned programs, in a structured and friendly environment, while maintaining the highest quality and safest Aviation and Solutions training possible.

- ## AVIATION TRAINING

  - ANS Courses
  - ATC Courses
  - Safety Courses
  - Aerodrome & Operations Courses
  - Air Transport /Airport Courses
  - Train the Trainers
  - IAMSAR Courses: (Air Marine Search & Rescue) (By IAMSAR based on Canada ICS)
  - AIS COURSES
  - ATSEP COURSES

- ## ENGLISH TRAINING

  - General to Aviation English
  - Aviation English Proficiency Training(Based on ICAO requirements)

AVIATION CONSULTANCIES

INNOVATIVE AVIATION CONSULTING SOLUTIONS

ORAT (OPERATIONAL READINESS AND AIRPORT TRANSFER):

Operational Readiness and Airport Transfer (ORAT) is a strategic process ensuring the seamless transition of a new aviation facility from development to full operation. It involves meticulous planning, testing, and stakeholder collaboration to optimize operational efficiency, mitigate risks, and prepare staff through training and familiarization. ORAT aims to identify and address potential issues before the facility opens, contributing to a smooth and efficient start of operations.

OPERATIONAL CHALLENGES IN FACILITY OPENINGS

Historically, the opening of new aviation facilities has faced operational and technical challenges, leading to delays and inefficiencies. Issues such as system malfunctions, inadequate contingency plans, and lack of staff familiarization have resulted in "false starts" and temporary closures for issue rectification.
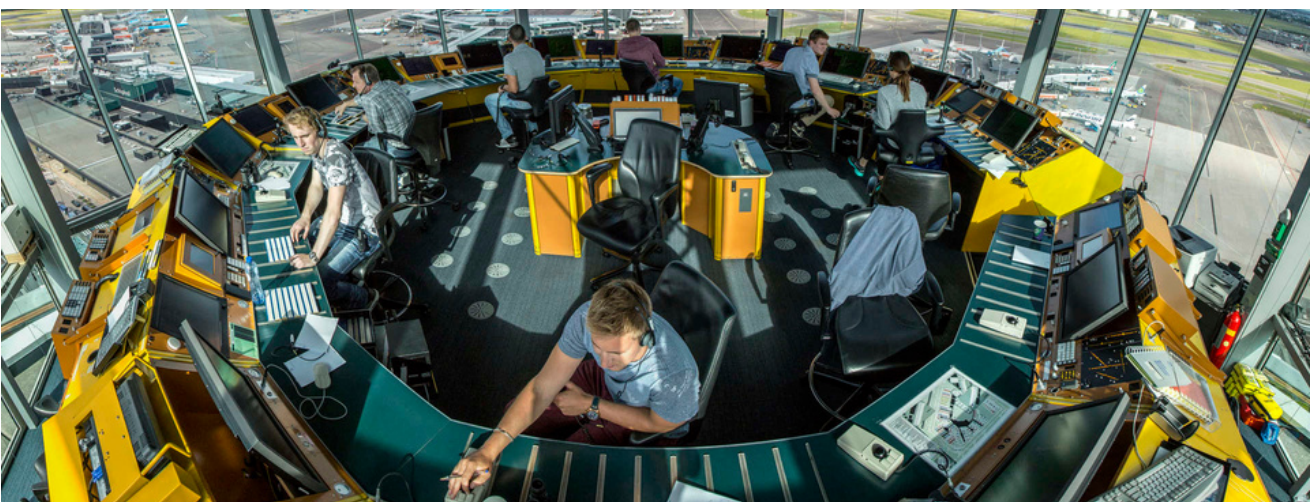
IMPORTANCE OF ORAT

Many airport and terminal openings globally have showcased inefficiencies in activation plans, impacting baggage handling, staff movement, and system failures. Thorough and comprehensive ORAT programs, if integrated from the planning stage, could have mitigated these challenges by aligning design with operational requirements.

EVOLUTION OF ORAT PROGRAMS IN THE U.S.

While several European, Middle Eastern, and Asian airports, along with numerous airlines, have embraced ORAT as a vital component of their capital development programs, U.S. airports have been slower to adopt it. Although some have introduced "Activation" programs in later project phases, the concept of ORAT as a precursor to the design of new facilities is gaining traction in the U.S.

AVIATION CONSULTANCIES
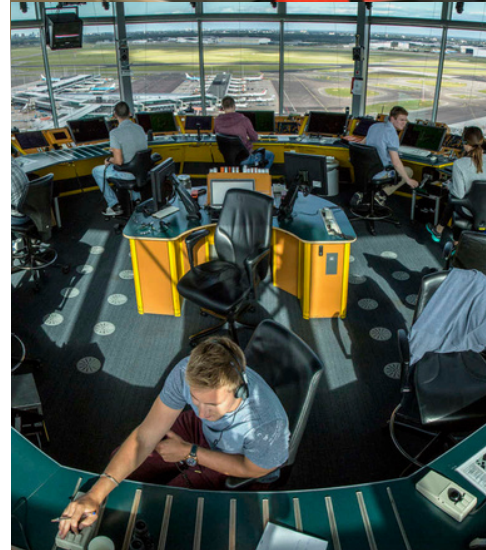
SAR LANDSCAPE DISPARITIES

Research indicates significant variations in Search and Rescue (SAR) responsibilities among countries. Entities such as the Air Force, Navy, Army, and various government ministries may or may not be involved in SAR processes. This diversity often leads to communication gaps and overlapping responsibilities, resulting in inefficiencies and, unfortunately, an increased loss of lives.

STANDARDIZED SAR MODEL ADVOCACY

The standardized SAR model proposed by the International Maritime Organization (IMO) and International Civil Aviation Organization (ICAO) emphasizes the establishment of a Rescue Coordination Center (RCC). The RCC, responsible for commanding, controlling, and coordinating SAR activities, requires highly trained SAR Mission Coordinators (SMC) and adequate resources. This model advocates for unified command and control of all three types of SAR activities to ensure effective and seamless operations.

ICS & IAMSAR SOLUTIONS ASSISTANCE

For countries evaluating the effectiveness of their SAR operations, ICS & IAMSAR SOLUTIONS provides expert assistance. Whether seeking to enhance capabilities, address inefficiencies identified in internal reviews, or navigate systemic challenges, our solutions offer proven methods and procedures. Regardless of SAR experience, our specialized support aims to optimize systems, impart knowledge, and, ultimately, contribute to saving more lives.

IAMSAR SOLUTIONS
AIR MARINE SEARCH & RESCUE

ATCO SIMULATOR

TNA SERVICES:

TNA is the process of identifying training needs is an organization for the purpose of improving employee job performance.

Our successful training needs analysis will identify those who need training and what kind of training is needed. It is counter-productive to offer training to individuals who do not need it or to offer the wrong kind of training.

ATCO TOWER SIMULATOR:

The Tower simulator has been built to fit all requirements, from the dynamically developing airport requiring a simulator to train controllers to cope with challenging traffic situations set on a large LCD array up to well established schools looking to upgrade to full 360° curved screen projection with edge blending.

EXQUISITE VISUALS

When we set out to create ATCOsim 3D Tower we knew it had to look more realistic than current products and be visually exquisite. We wanted for everyone to be able to afford it and easily update and maintain it. So we created a modular system which uses the powerful DirectX 11 engine that scales with hardware performance. That means you get good-looking day-night transitions through the lighting and shadow system, 4k high resolution textures, over 5000 aircraft liveries on 200 aircraft types even on the least expensive hardware while maintaining smooth image rate. And you get reflective water, HDR processing and more as you add stronger hardware.

POWERFUL CONTROLS

The interfaces for supervisors and pseudo-pilots has been designed to be intuitive and easy to use while giving access to powerful simulator commands like ground movement automation, METAR input and emergencies.

For one session you can configure the simulator aircraft tag to hold the most used commands with natural looking icons while for the next session you can reconfigure the tag to hold much more information and input fields, depending on the scenario's requirements.

Options available include a highly automated direct taxi routing, an advanced priority-giving and follow-me instruction system, auto-vacate, low pass and touch-and-go instructions. All this helps the simulator operator handle more instructions and higher traffic with ease and without extensive training.
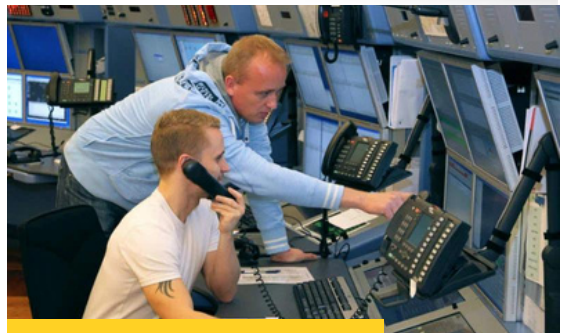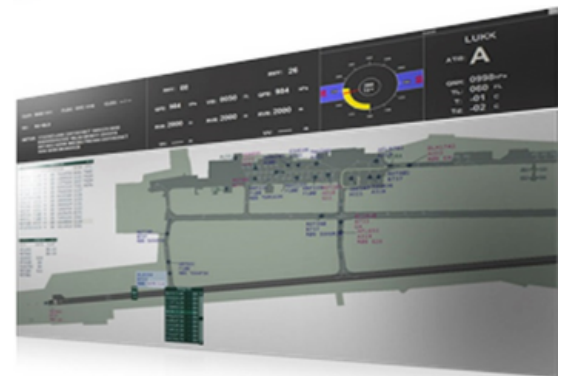
And for when you need to prepare for emergencies you have the option to get a stuck or retracted gear, either engine smoke or fire and detect crashes between aircraft on the ground or in the air. (And after landing if the fire isn't extinguished yet you will notice that the smoke moves with the wind according to the weather you have set, small things that show our attention to detail.)

WEATHER AND SURFACE RADAR DISPLAY:

A-SMGCS displays are available for the ground and tower controller position. These are based around the Integrated Tower Working Position system in which all the information that is needed is available in a single screen in a natural environment.

You are able to read instant meteorological information including Runway Visual Range at multiple points on the runway, authentic wind rose and even ATIS audio message generation. They accurately reflect what is seen in the simulator and the wind affects smoke and fire direction in case of emergencies accordingly.

The A-SMGCS provides all required information at a glance and inputs can be made with just a click. Or two. It is based around the same logic that the pseudo-pilot system employs using a customizable tag for the most crucial information and inputs and keeping the screen uncluttered. Everything else is moved to the lists which provide advanced planning tools. Extended coordination between Tower and Approach Radar for departure clearance instructions such as SID, heading or initial climb altitude, all are close by to better assist the controller.

ATCOSIM RADAR SIMULATOR

We found that radar simulator products quickly became archaic and did not keep up with the quickly changing pace of Air Traffic Management systems currently in use. We designed a deeply customizable solution which can be extended via a plug in architecture. The clever thing about this is that it provides a stable core that will be rock solid and never crash while the plugin provides the look and feel and the tools available in your native operational software. So when students progress from the simulator to on-the-job training they will already know all the available tools. We deeply believe that the software should adapt to your needs, not you to the software's requirements

AB-INITIO TO PROGRESSIVE

Right from installation the tools provided rival the leading ATM solutions available. So if you have a cutting edge new ATM system you can have the same tools in the simulator too. 4D trajectory calculation is based on aircraft performance and will drive the arrival sequence manager, the Medium Term Conflict Detection (MTCD) and the non-radar procedural control environment. Safety nets available include Short Term Conflict Alarm (STCA) with pre-warning, Minimum Safe Altitude Warning (MSAW), Route Adherence Monitoring (RAM) and cleared altitude bust alerting. The coordination system will provide you with exit and entry level coordination as well as Direct or rerouting coordination

An extensive emulation of radar coverage is included. Radar antenna will have accurate blind spots and ranges, and are precise even if the antenna is a PSR or a SSR radar. S-mode receivers are completely integrated too.
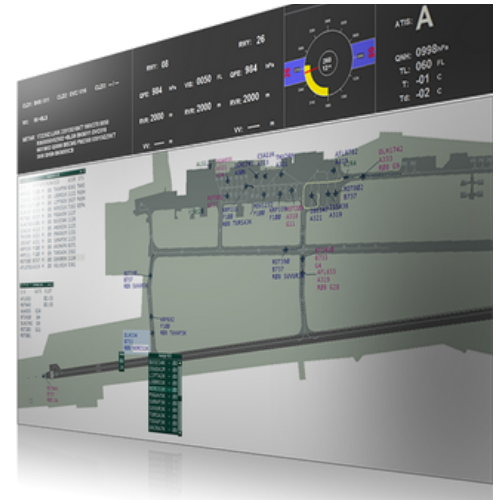
The controller working position display is fully ready for the strip-less revolution and the customizable tags and lists are extremely powerful. You can configure the tags to have the bare minimum for an uncluttered display or fill it with every information you can think of and the superior tag management system will make sure the display still remains uncluttered and clear. And you can do all these changes on-the-fly yourself.

"RADAR CONTACT. FREE SPEED" VCCS

We built on the revolution in Voice over IP technology to deliver the most flexible voice communication system ever built for a simulator. This allowed us to do things previously not thought possible. Since the simulator platform has been designed for integrated remote training over the internet the communication system is able to handle low bandwidth connections with low latency.

The familiar User Interface which can be displayed on a touch screen provides access to both frequency switching and monitoring, and controller intercom coordination access. We believe trainees should train on an environment which encompasses all tasks of an active controller, including the constant phone coordination. All required features of operational intercom systems, such as conference, reroute call, and multiple lines, are available.

And to make progress report and analysis easier all communication is recorded together with the radar log. Our efficient format can store hundreds of hours of log complete with audio in only a couple of hundred Megabytes. You will be able to archive students' training for many years and recall it for recurrent training overview.

ICS-AVIATION.COM

OUR PARTNERS

Bringing ideas & innovation
to life through technology

OUR TEAM IS OUTSTANDING

EMPOWERING EXCELLENCE: OUR SUPER TEAM AT ICS AVIATION

At ICS AVIATION, we take pride in our exceptional team of professionals who bring together diverse expertise, passion, and a commitment to excellence. Our super team is dedicated to delivering innovative solutions, fostering a culture of continuous improvement, and ensuring your aviation training experience exceeds expectations. Thank you for entrusting your journey to success with our extraordinary team at ICS AVATION.

**Team Effective
Level Percentage**

92%

**Healthy Office
Ecosystem Percentage**

96%

TRAINING & SOLUTIONS

ICS-AVIATION.COM

THANK YOU

YOUR JOURNEY TO AVIATION SUCCESS WITH ICS

Thank you for considering ICS AVIATION - Training & Solutions as your partner in aviation training excellence, where our commitment to precision, innovation, and comprehensive solutions is designed to elevate your experience and ensure success in the dynamic world of aviation.

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THANK YOU FOR CHOOSING ICS AS YOUR TRUSTED PARTNER