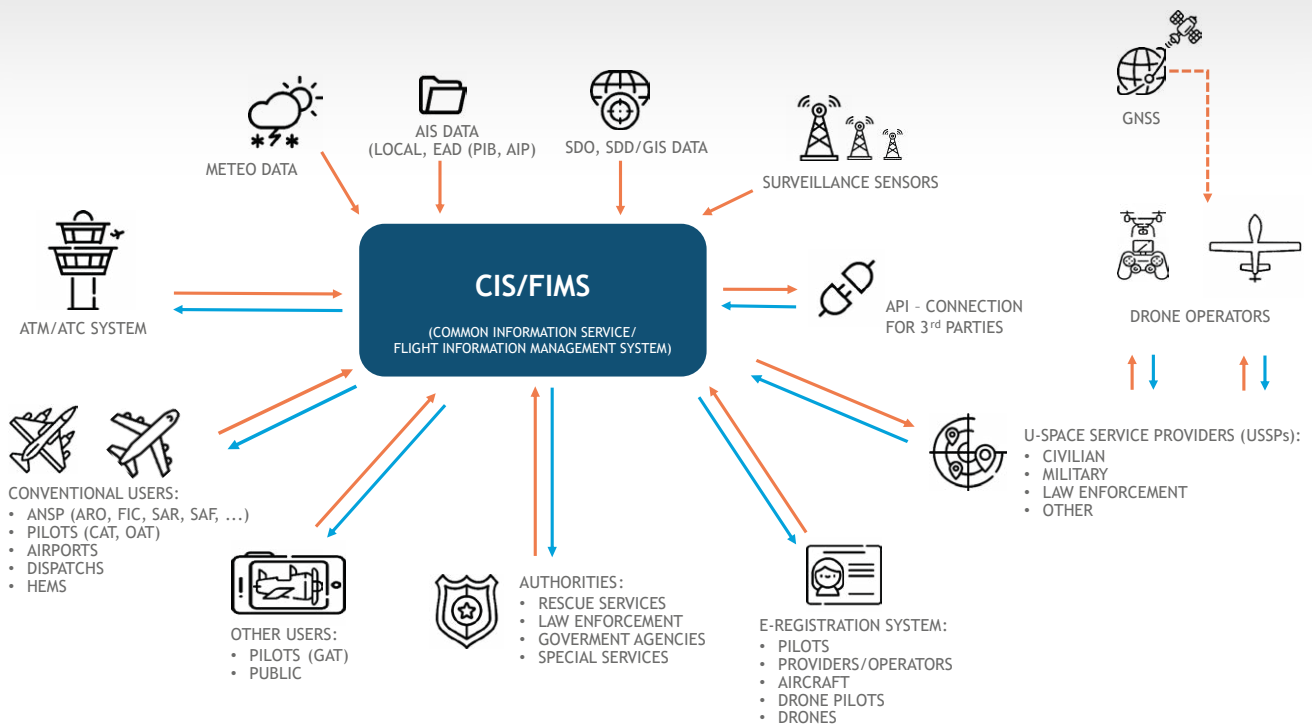**PLAN INSTANTLY, FLY SAFELY, MANAGE EASILY!**

IXO SYSTEM

Integration of manned and unmanned aerial traffic

IXO SYSTEM represents a comprehensive solution for airspace users and providers who are looking for a product, that seamlessly integrates information on manned and unmanned aerial vehicle operations and provides real-time aeronautical information for all airspace users.

As a powerful and multi-platform solution fully compliant with the ATM regulations, IXO SYSTEM is an integrated and interoperable system that emphasizes timely distribution of accurate aeronautical data. The system incorporates modules required for flight planning, airspace conflict calculations, U-Space rules and principles, manned/unmanned aerial vehicle management, and aeronautical data provision.

BENEFITS:

- A single source of valid aeronautical data for all users
- Developed in close cooperation with ANSPs and based on many years of experience in the domain
- UTM integration into existing ATM infrastructure
- Real-time data exchange between stakeholders
- White-labeled solution readily available to provide ANSP services
- Cyber security tested
- Rapid Time-to-Market deployment

METEO DATA

AIS DATA
(LOCAL, EAD (PIB, AIP))

SDO, SDD/GIS DATA

SURVEILLANCE SENSORS

GNSS

ATM/ATC SYSTEM

CIS/FIMS
(COMMON INFORMATION SERVICE/
FLIGHT INFORMATION MANAGEMENT SYSTEM)

API – CONNECTION FOR 3rd PARTIES

DRONE OPERATORS

CONVENTIONAL USERS:
- ANSP (ARO, FIC, SAR, SAF, …)
- PILOTS (CAT, OAT)
- AIRPORTS
- DISPATCHS
- HEMS

U-SPACE SERVICE PROVIDERS (USSPs):
- CIVILIAN
- MILITARY
- LAW ENFORCEMENT
- OTHER

OTHER USERS:
- PILOTS (GAT)
- PUBLIC

AUTHORITIES:
- RESCUE SERVICES
- LAW ENFORCEMENT
- GOVERMENT AGENCIES
- SPECIAL SERVICES

E-REGISTRATION SYSTEM:
- PILOTS
- PROVIDERS/OPERATORS
- AIRCRAFT
- DRONE PILOTS
- DRONES

GENERAL FEATURES:

✔ Service oriented architecture

✔ Supports standards protocols based on SWIM principles

✔ Web and mobile applications support

✔ Smart layers concept (georeferenced data, over the map visualization)

AIM/AIS FEATURES:

✔ Easy and intuitive flight plan management both for ANSP and end users

✔ Detailed flight planning for manned aerial vehicles

✔ Full pre-flight briefing (weather, NOTAM, airspace restrictions, fuel management, ground facilities, etc.)

✔ Timely and high-quality data sharing between ATM and UTM

✔ Multi-platform, multi-source data interface (SDO, SDD, AFTN, FUA, AIMSL, NMB2B, XTAM linkage, MET, etc.)

U-SPACE FEATURES:

✔ Compliance with the EU U-Space regulations

✔ Common situational awareness – data for cross-authorities and -agencies collaborative decision-making

✔ Automated drone flight authorization and management

✔ Safety Nets – airspace authorization, deconfliction and conflict management

✔ API for provision of valid real-time data for all users (USSPs, C-UAS C2 systems, Security Systems, etc.)

Developed by **R-SYS** SUBSIDIARY OF **era**

https://ixosystem.com

SALES DEPARTMENT
+420 467 004 387
sales@era.aero

ERA a.s.
Průmyslová 462
530 03 Pardubice
Czech Republic

www.era.aero