

DRONE OPERATION COURSE FOR CARGO AND PEOPLE TRANSPORT





CHAPTER IV: AIR ROUTE EVALUATION AND SAFE FLIGHT PLANNING (PART 2)



POPULATION DENSITY AND **ROUTE PLANNING**

NAVIGATING THE HUMAN LANDSCAPE



**IMPORTANCE OF POPULATION
DENSITY**

**CONSIDERATIONS BY AREA
TYPE**

TEMPORAL VARIATIONS

**TECHNOLOGY AND
DATA**



POPULATION DENSITY AND **ROUTE PLANNING**

BALANCING SAFETY AND EFFICIENCY IN FLIGHTS OVER POPULATED AREAS



RISK ASSESSMENT AND MANAGEMENT

COMPLIANCE

MITIGATION STRATEGIES

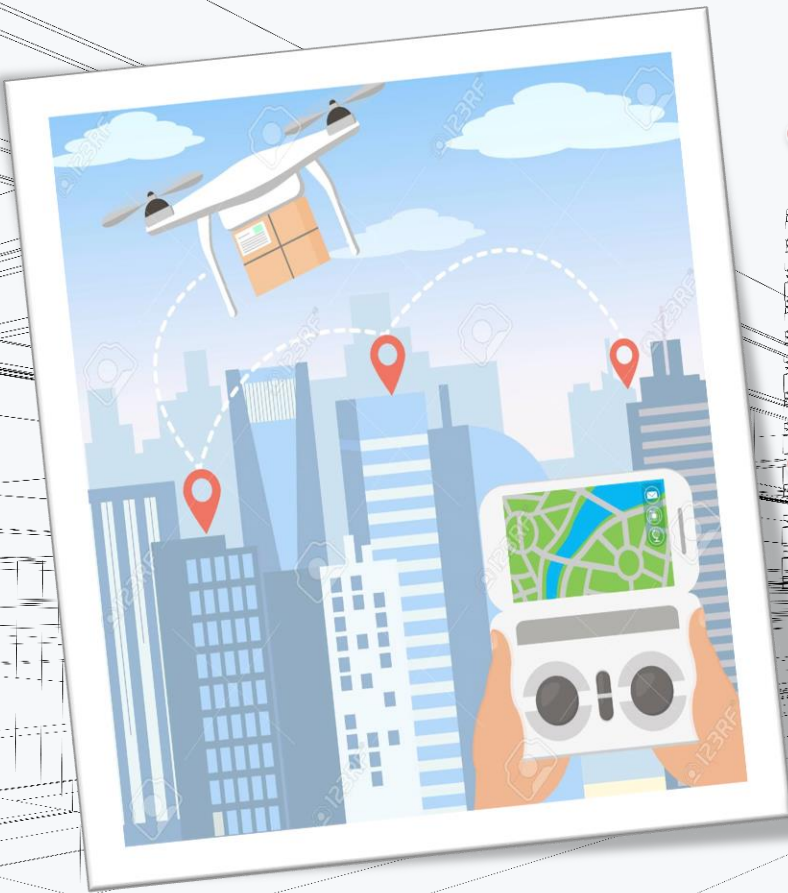
DYNAMIC PLANNING

ETHICAL AND OPERATIONAL BALANCE

SOCIAL RESPONSIBILITY



DRONE FEATURES & FLIGHT **PLANNING** - CARGO DRONES



SIZE AND LOAD CAPACITY

AUTONOMY AND RANGE



PROPULSION SYSTEMS



LOADING/UNLOADING SYSTEMS



STRENGTH AND DURABILITY



DRONE FEATURES & FLIGHT PLANNING - PASSENGER DRONES

PASSENGER CAPACITY

AUTONOMY AND RANGE

ELECTRIC PROPULSION SYSTEMS

SECURITY AND REDUNDANCY SYSTEMS

PASSENGER COMFORT

CONTROL AND NAVIGATION SYSTEMS



MISSION REQUIREMENTS FOR CARGO DRONES



NATURE OF THE CARGO

URGENCY AND DISTANCE

OPERATING ENVIRONMENT

ENVIRONMENTAL FACTORS

REGULATORY FACTORS



MISSION REQUIREMENTS FOR PASSENGER DRONES

PASSENGER PROFILE AND PURPOSE OF THE TRIP

PASSENGER COMFORT AND EXPERIENCE

SECURITY AND EMERGENCY MANAGEMENT

URBAN INTEGRATION AND SUSTAINABILITY

INTERMODALITY



COMMUNICATION AND NAVIGATION TECHNOLOGIES FOR CARGO DRONES

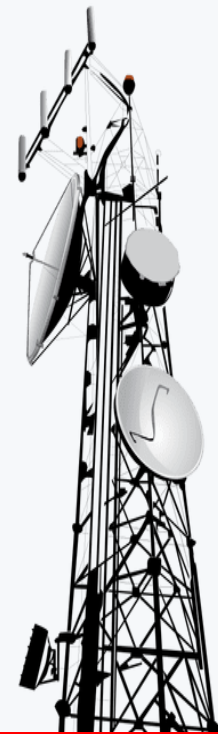


PRIMARY
COMMUNICATIONS

NAVIGATION SYSTEMS

INTEGRATION AND
SECURITY

CRITICAL
CONSIDERATIONS



PLANNING STRATEGIES FOR ROBUST COMMUNICATIONS

FUNDAMENTAL PRINCIPLES

SECURITY AND COMPLIANCE

OPERATIONAL PLANNING

QUALITY ASSURANCE



OPERATING ENVIRONMENTS FOR CARGO DRONES



URBAN ENVIRONMENT

SUBURBAN ENVIRONMENT

RURAL ENVIRONMENT



SPECIALIZED SETTINGS AND ADAPTATION STRATEGIES

COASTAL AND MARITIME ENVIRONMENTS

INDUSTRIAL ENVIRONMENTS

EXTREME TEMPERATURE ENVIRONMENTS

ADAPTATION STRATEGIES



DRONESVIP

QUESTION TIME!

