

**syn`thesis** / `sinθisis/*n.* (*pl.* –eses) -the process of building up separate elements, esp. ideas, into a connected whole, esp. into a theory or system

## UAV Technical Consultancy Services

SyntheSys provides advice and assistance on the implementation and operation of Unmanned Airborne Vehicles (UAVs).

### Autonomous Operations

SyntheSys works with UK defence research organisations to develop concepts for autonomous operations of UAVs and participates in a NATO Industrial Advisory Group to assist in the definition of requirements and technologies for autonomous operations.

### Concepts of Operation (CONOPS)

SyntheSys has carried out studies on behalf of UK defence research organisations to inform the development of CONOPS for UAVs operated from maritime platforms and has prepared CONOPS documents to define the procedures for operation of UAVs in trials environments.

### Communications Technologies

SyntheSys is familiar with communications technologies required to support UAV operations, including:

- Tactical Common Data Link
- Programmable Digital Radio Technologies
- Joint Tactical Radio System (JTRS)
- Data Forwarding

### UAV Control

SyntheSys has worked with UK defence research organisations to investigate procedures for handover of control of UAVs between controlling units and for the simultaneous control of multiple UAVs.

### Security

UAVs present unique security problems which, in some cases, may have an impact on the wider military community. SyntheSys has worked with UK defence research organisations to identify and explore these problems.

### Trials

SyntheSys is assisting the UK Ministry of Defence in the definition of UAV trials programmes. This assistance involves identifying the issues of concern and developing a trials philosophy that enables the issues to be explored.

