

DETECT AND AVOID TECHNOLOGIES

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Abstract

The safe conduct of unmanned operations requires a capability to keep separation to the surrounding traffic according to the regulations of the airspace where the operation is taking place and to detect and avoid potential mid-air collisions, either by having the remote pilot in the loop or initiated and performed automatically. Such capability is referred to as the Sense and Avoid capability, which is realized by a Detect and Avoid System. This paper contains information about the European Roadmap for Air Traffic Insertion of military and civil RPAS, together with an overview of the current status and way-ahead related to the technology development for such Detect and Avoid System.

Keywords: Sense and Avoid Capability, Detect and Avoid System (DAA System), Detect and Avoid Radar