

The Concept of Flying Platform

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Abstract. Recently, civilian aircraft are increasingly being used for purposes other than transporting people or goods. This paper presents the concept of a flying platform that can be a manned and unmanned vehicle with a total weight of approximately 1000 kg and a payload of about 200 kg. An important assumption was that the designed vehicle should be environmentally friendly and capable of operating in moderate atmospheric conditions. The paper presents considered variants of the geometric layout of the proposed flying object, as well as the method of electrically powering its engines. Flying platforms such as those discussed in this paper could have a variety of practical applications, including infrastructure elements maintenance, rescue operations, firefighting, and military use. The paper analyses the possibilities of meeting the requirements for the practical use of a flying platform.