

# UAV Development and Opportunities for Constructing Low-altitude Airspace Network

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## Abstract

The report mainly contains four parts. It begins with the evolution of the definition of UAVs, and lists the milestone events of the military usage of UAVs. Then, the report analyzes the special characteristics of UAVs when they execute tasks, the needs of economic and social development for UAVs, and the economic benefits UAVs can create, which explains the reason why UAVs industry maintains prosperous. The third part of the report analyzes the development trend of the UAV in military, industry, and entertainment applications from the aspects of demand traction and technology promotion, lists the problems accompanied with the development. Finally, the report discusses the result of the research focusing on the demand of low-altitude airspace networks and its construction model.

## About the speaker...



**Bangkui Fan** is an academician of the Chinese Academy of Engineering, a member of the 13th National Committee of the CPPCC. He was born in September, 1958 in Chuzhou, Anhui province. He received the Ph.D degree in engineering from Beijing Institute of Technology In 1997. In 1998, he went to the University of Missouri as a senior visiting scholar. Now he is the chairman of the China UAV Industry Innovation Alliance and one of the academic leaders of UAV reconnaissance technology in China. His research interests include radar, optoelectronics, passive sensing, UAV platform, data link, information processing and policy standards related to industrialization of UAVs. He was awarded the National Science and Technology Grand Prize and the First Prize. He was also awarded the National Science and Technology Progress Awards, the Provincial and Ministerial Science and Technology Progress Awards for six times. He has 15 patents and 4 monographs.