

低空航行系统

Low-Altitude Aviation System (LAAS)

拥抱低空经济

Embracing the Low-Altitude Economy

安全智慧飞行

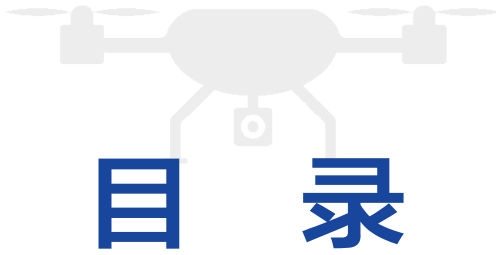
Intelligent Flight with Safety Assurance



中国电子科技集团有限公司

China Electronics Technology Group Corporation

2024年9月



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引言

INTRODUCTION

LAAS

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低空经济 时代背景



eVTOL

33.8%	2026	2023	2030	5059.5	2
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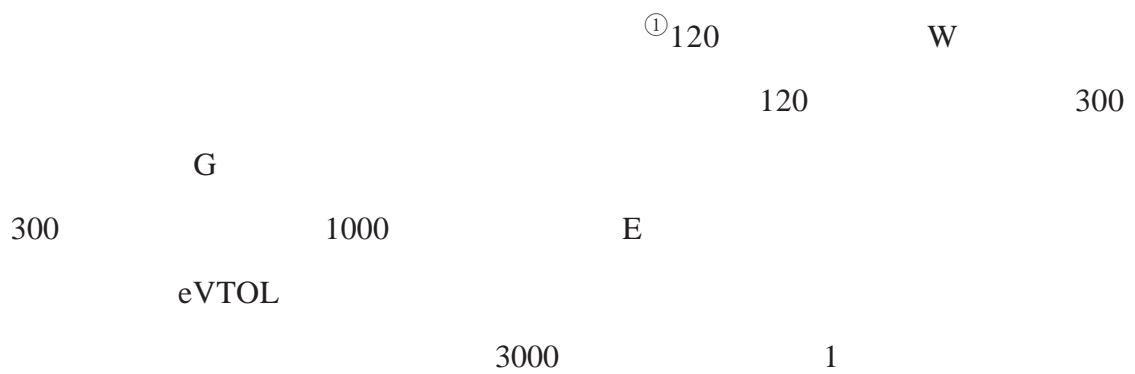
二 低空航行 面临挑战

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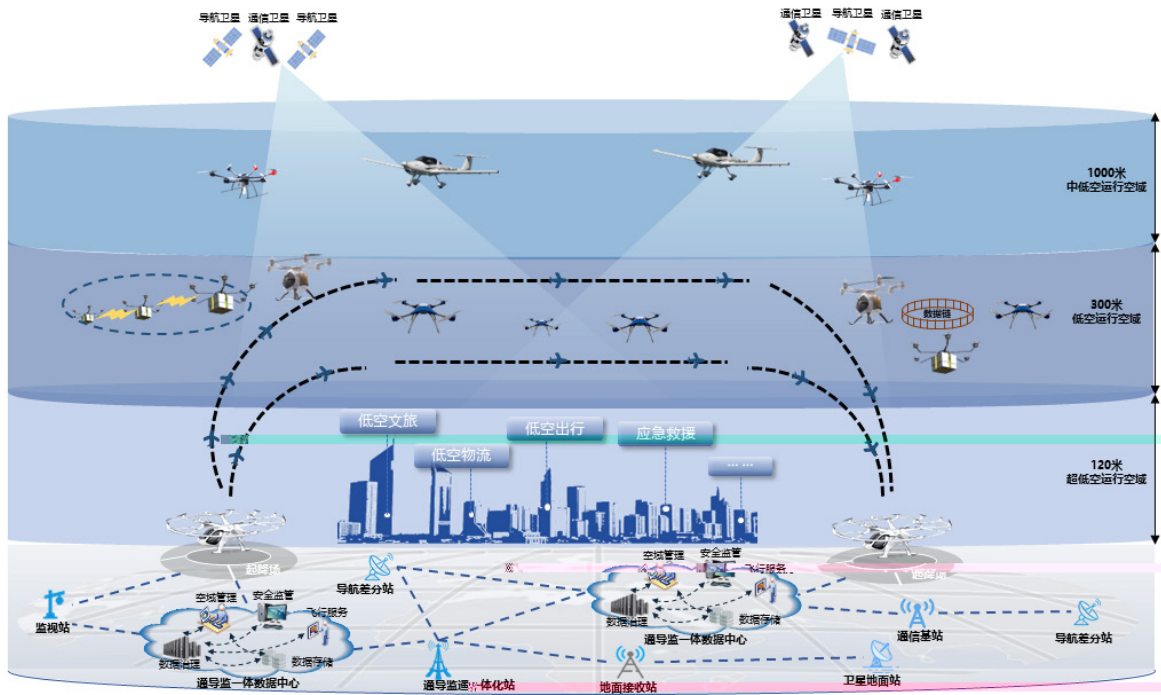
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三 低空航行 目标愿景

(一) 运行概念



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eVTOL

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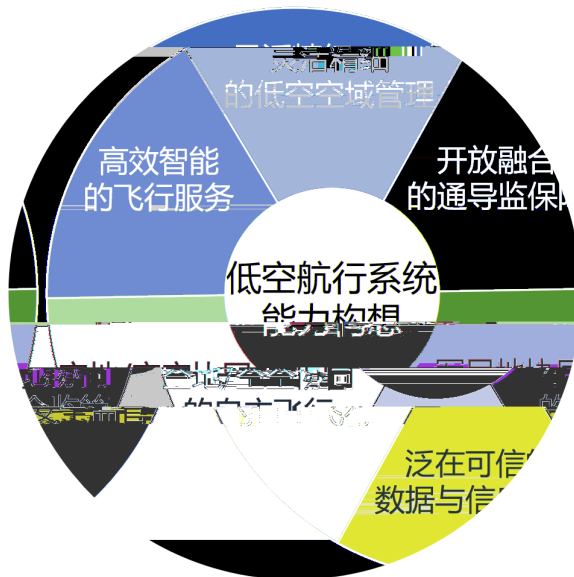
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(二) 能力构想

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(三) 阶段目标

300

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(二) 系统组成

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eVTOL

eVTOL

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FBO

4G/5G

ISAC

GNSS

BDSBAS

RemoteID

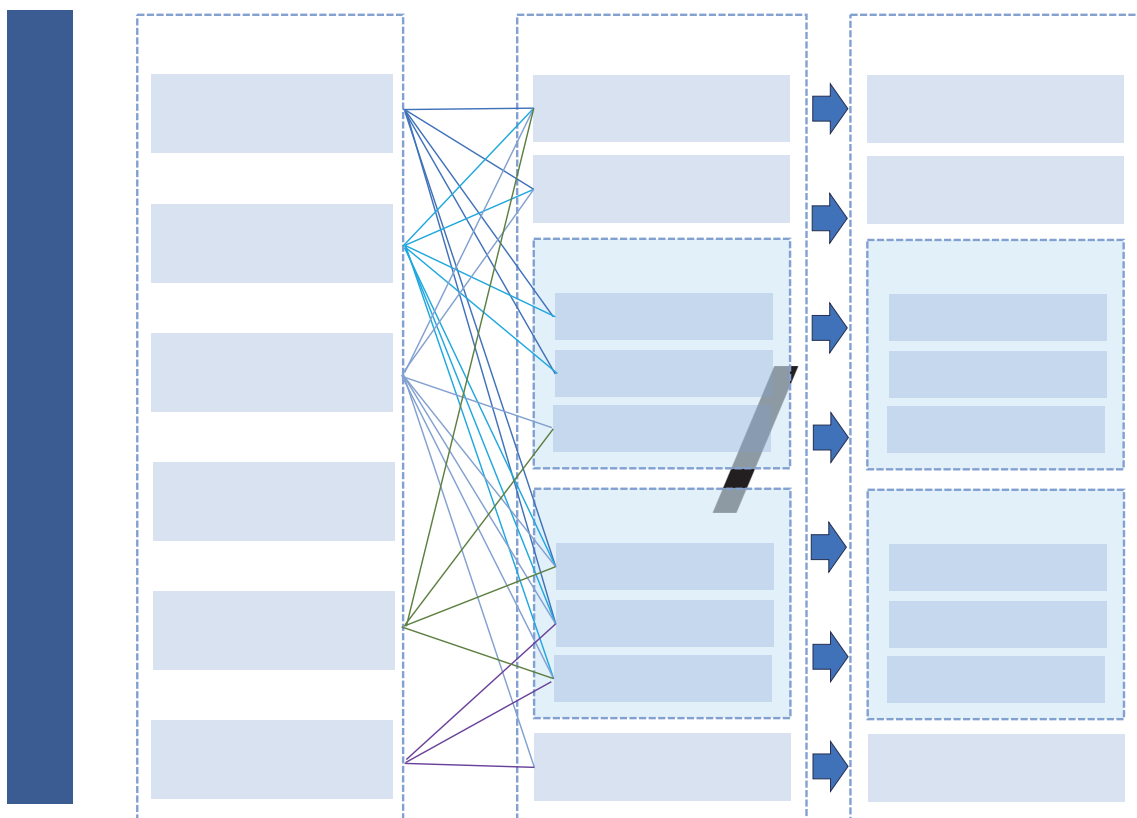
5G A

ADS B



(三) 系统演进

5

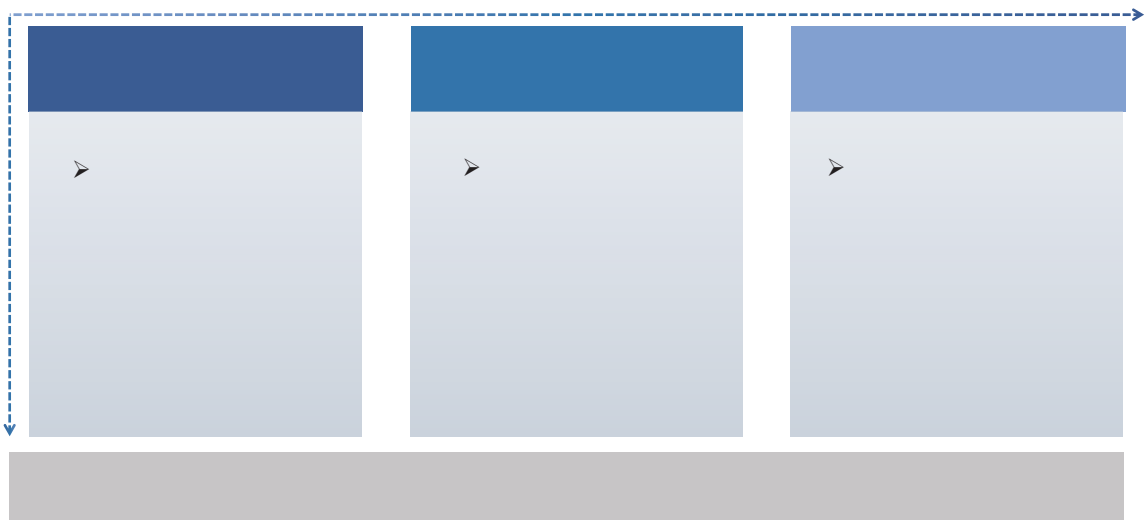




GIS



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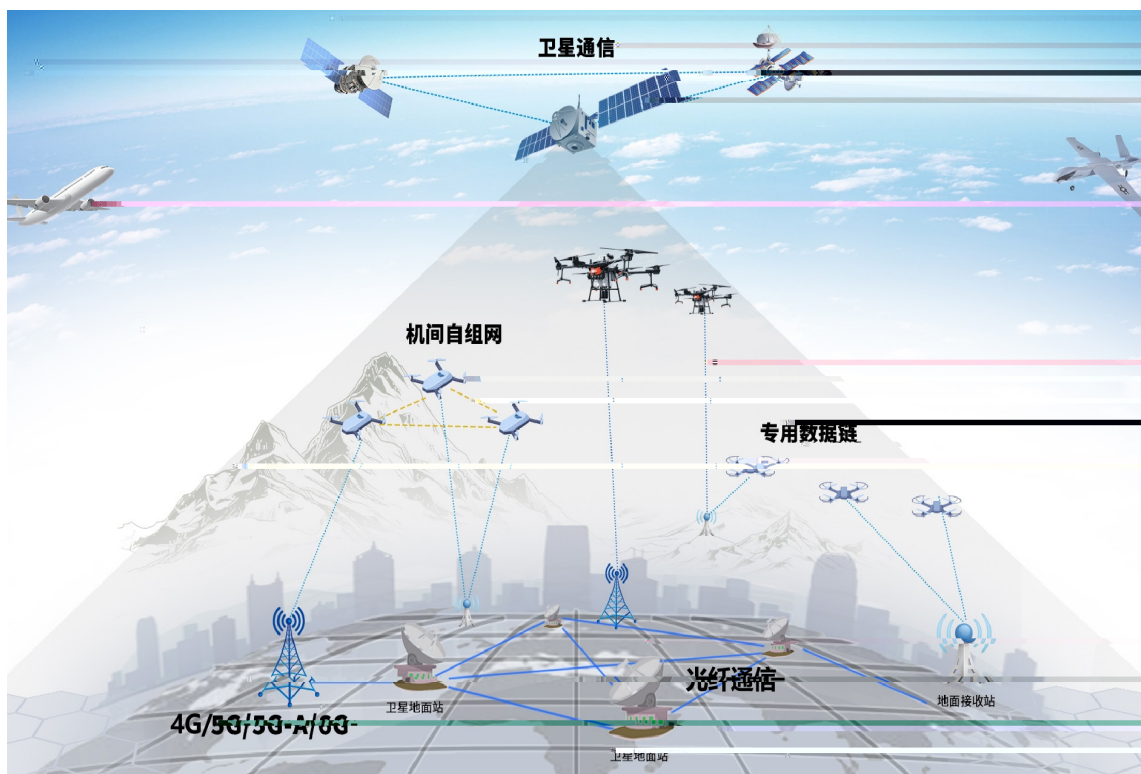






4G/5G/5G A/6G

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5G

5G

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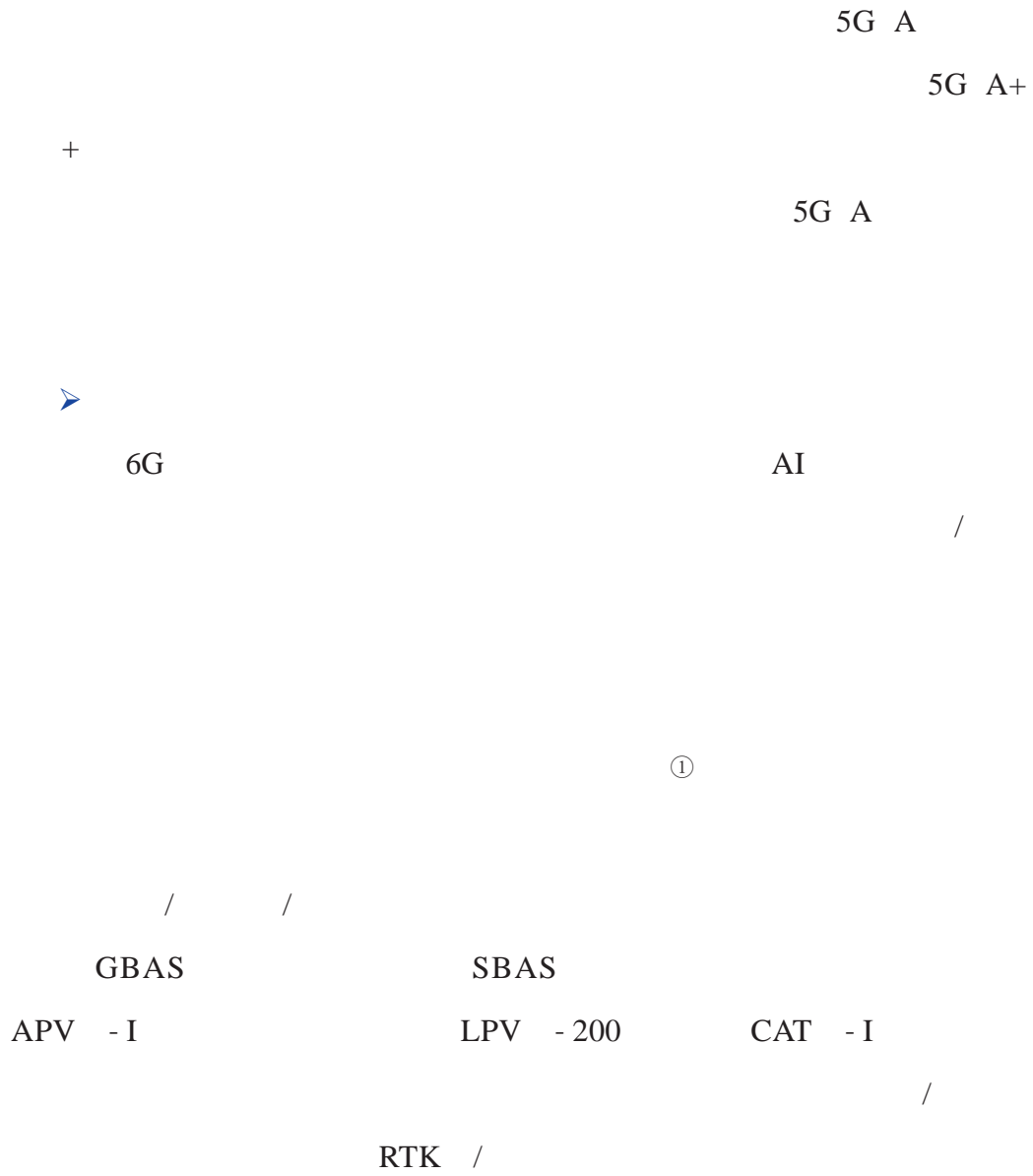


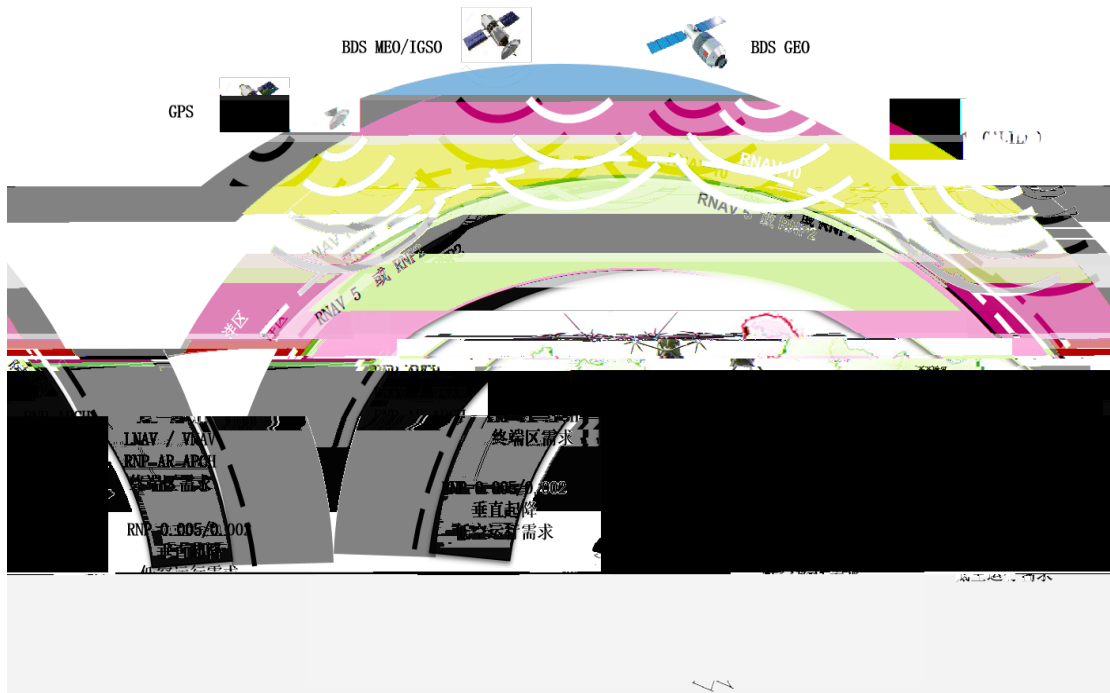
5G 5G A

5G A

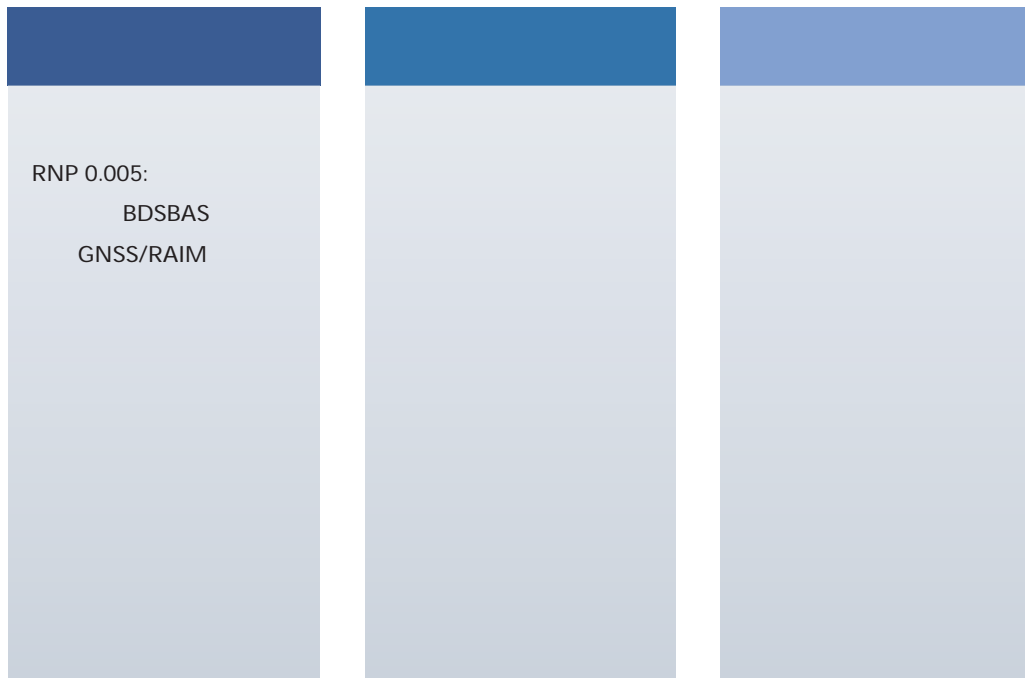
150m

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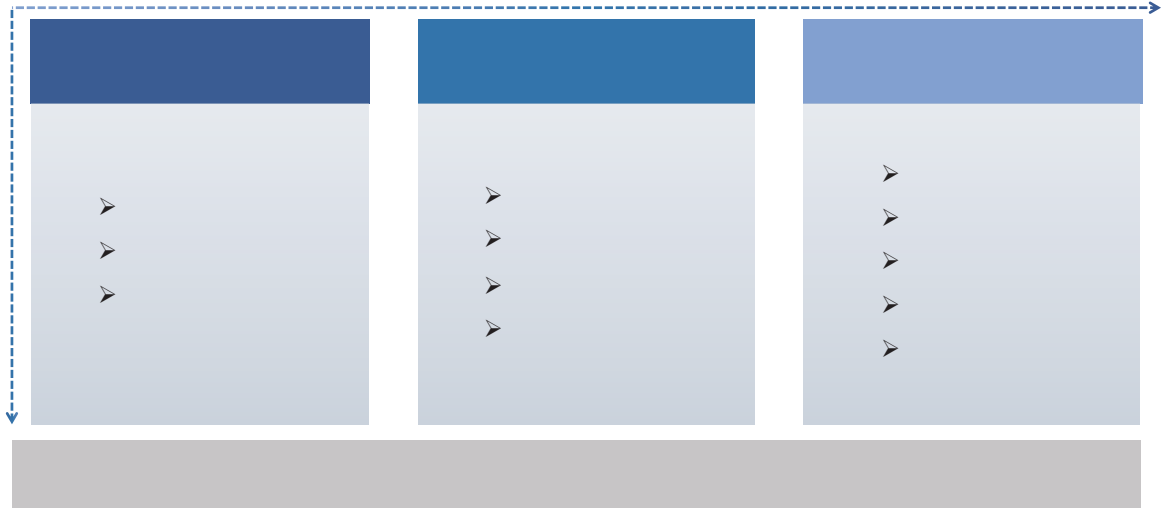
GNSS/BDSBAS / ① GNSS/RAIM
 RNP0.005 40ns
 GBAS GBAS 3m/ 4m
 95% 2×10^{-7} /
 2×10^{-7}
 RTK/ RTK
 8cm/ 10cm



GNSS/BDSBAS
 / ② GNSS/ARAIM RNP0.002
 20ns
 BDSBAS GBAS BDSBAS 3m/ 4m
 95% 2×10^{-7} /
 GBAS 1.5m/ 2m
 95% 2×10^{-7} /
 RTK/ 10



①
 GNSS RAIM
 RAIM
 ②



ADS B 5G WIFI

AI

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AI



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AI

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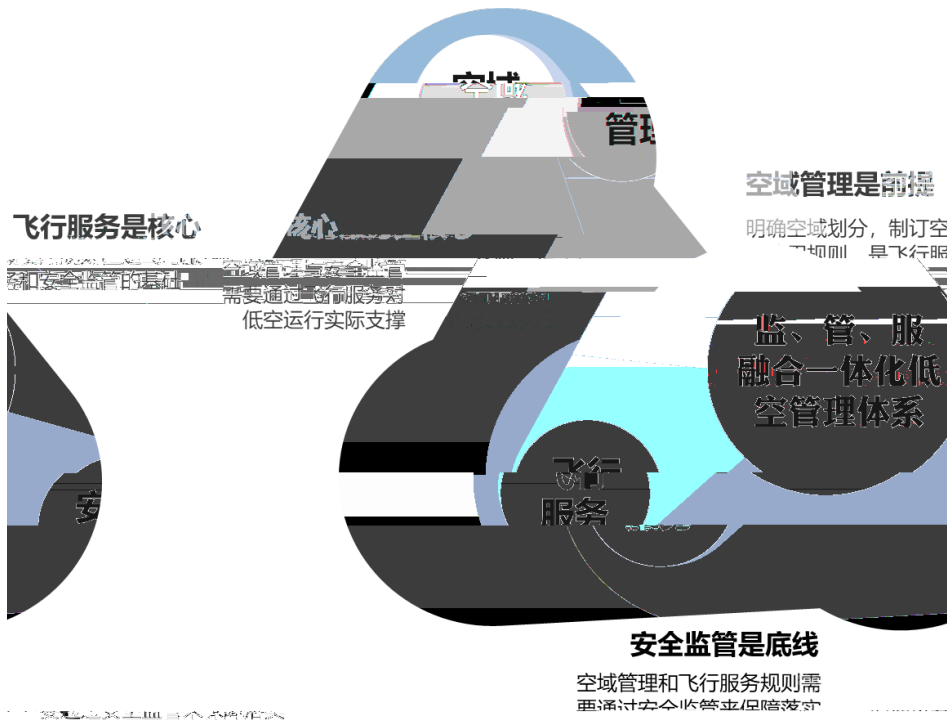
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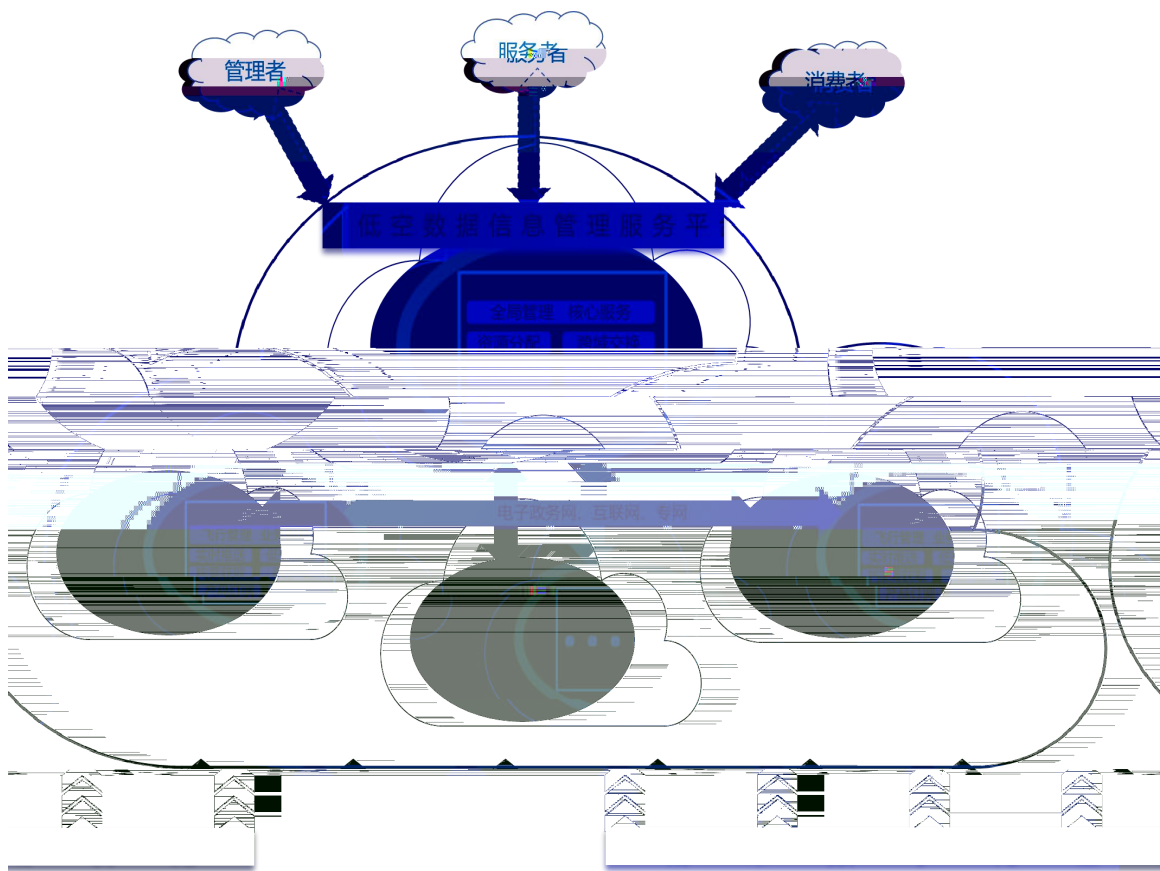


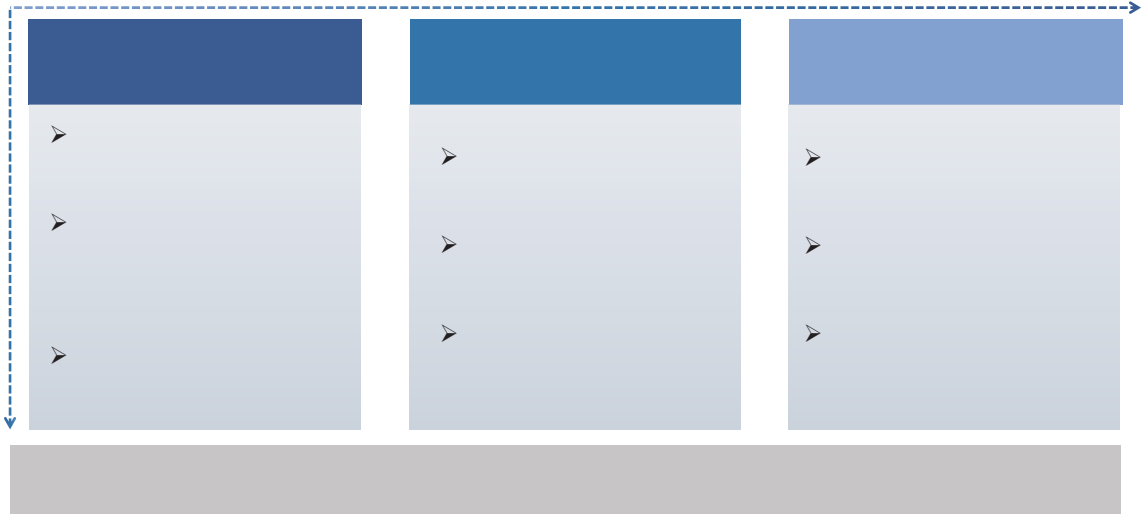
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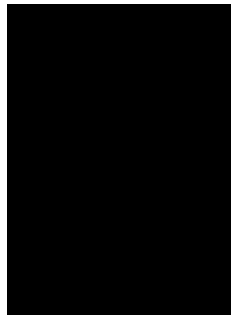
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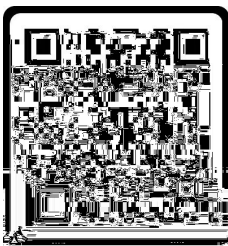
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