

# Chinese ATM system Analysis and Solutions



Civil Aviation Administration of China

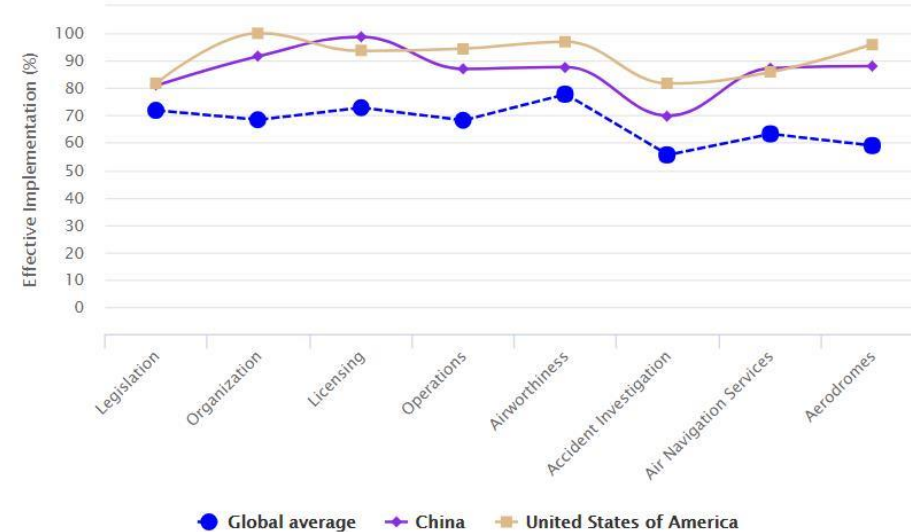
- manage all non-military aviation in China
- provide general and commercial flight service

# •The strengths

- Fastest-growing country market and second largest Domestic Aviation market
- More airports and more travelers- bigger market
- Striving to improve the efficiency of the facilities and takeoff-landing numbers
- Very good safety performance

## Worst geographical regions

List of the 25 geographical regions having the highest number of fatal civil airplane accidents from 1945 until



13	Venezuela	65	1103	71
14	Ukraine	61	1331	9
15	Bolivia	61	638	88

# Notorious punctuality record

- Low on-time departure rating (punctuality)
- Airspace Constraint Issue
  - Central Military Commission manage the airspace under the regulations in the Civil Aviation Law of the People's Republic of China. CAAC doesn't the responsibility.
- Military has the privilege of airspace



## World's Worst Airports Ranked by 2015 on-time- departure ratings

1. Jakarta, Indonesia	35.22%
2. Hangzhou, China	40.58%
3. Nanjing, China	44.65%
4. Shanghai-Pudong, China	51.62%
5. Shenzhen, China	53.93%

Source: *FlightStats*

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# The opportunities

1. Aircraft business travel is booming, which need high level ATM services
2. Open sky policy-30% low-altitude airspace(below 1000m) opened up to general aviation flights from 2015
3. International co-operation with advanced administrative department, e.g. NASA

管制区示意图（中低空）



# Leads for improvement

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The awareness from country

- adopting the best practices in the aviation industry
- training crews to be more efficient as they maneuver the planes to improving its air-traffic control capabilities and the lighting on the runways

If the military transferred just 10% of its airspace to passenger planes, it could boost China's GDP by 200billion RMB (\$32.6bn).

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*China is developing very, very quickly, far faster than any other country around the world has ever developed that capability.*