AIDC IMPLEMENTATION IN MALAYSIA

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CHIEF OF COMMUNICATION, NAVIGATION & SURVEILLANCE

CAA MALAYSIA

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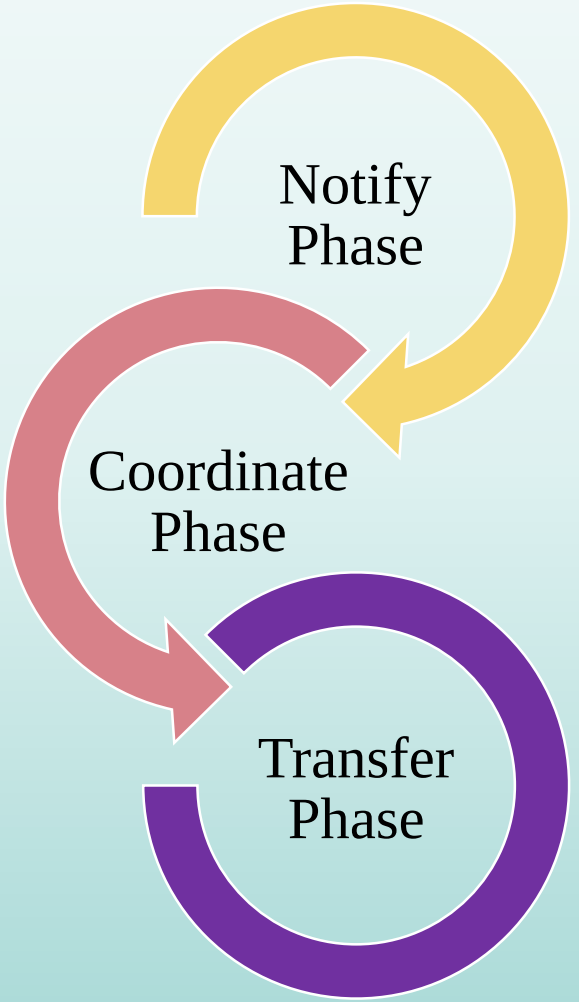
ATS INTER-FACILITY DATA COMMUNICATION (AIDC)

- The AIDC application exchanges information between ATSUs in support of critical air traffic control (ATC) functions, including notification of flights approaching an FIR boundary, coordination of boundary-crossing conditions, and transfer of control.

- *ICAO doc 9464, MANUAL OF AIR TRAFFIC Services data link application*

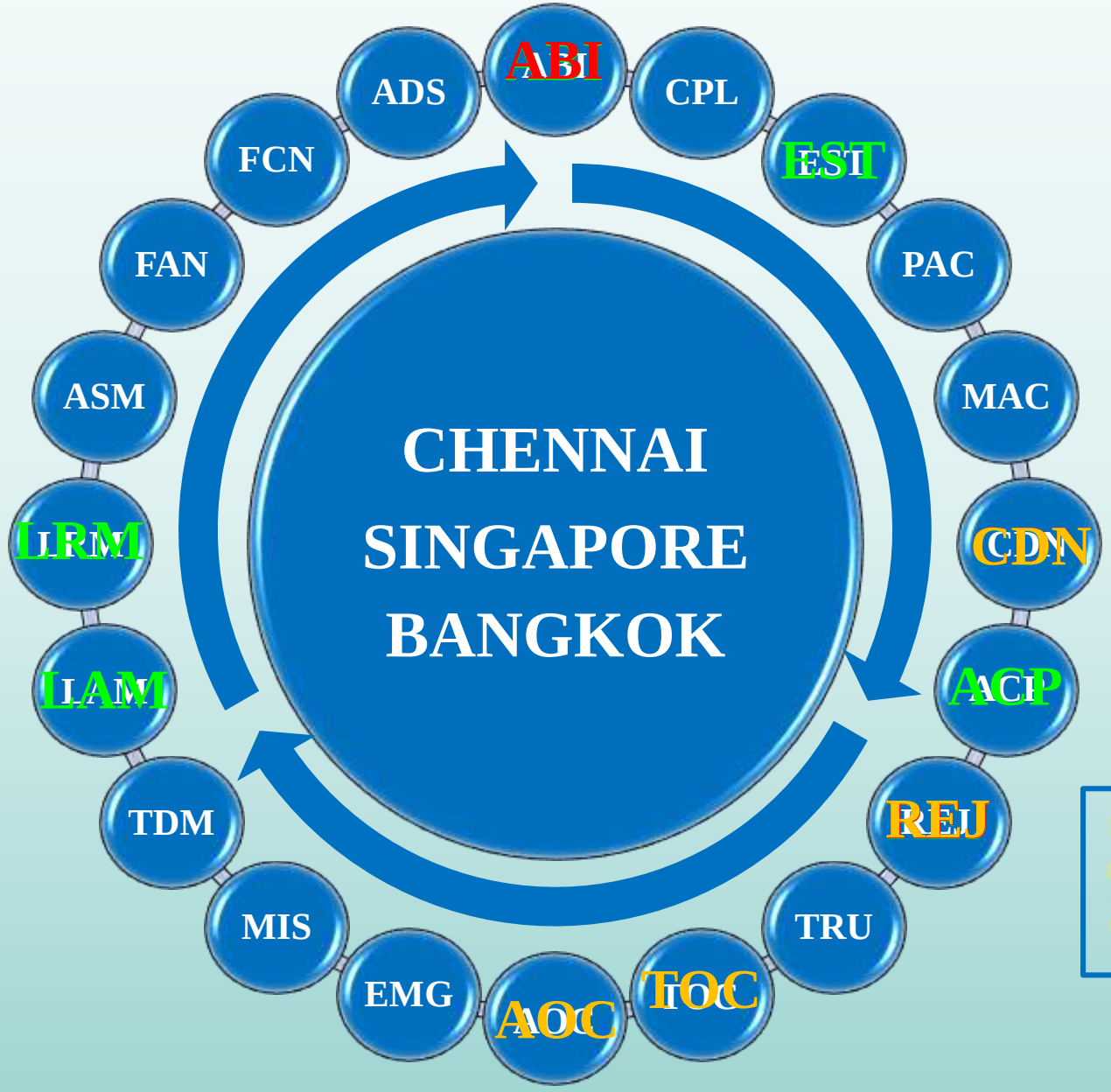


BENEFITS

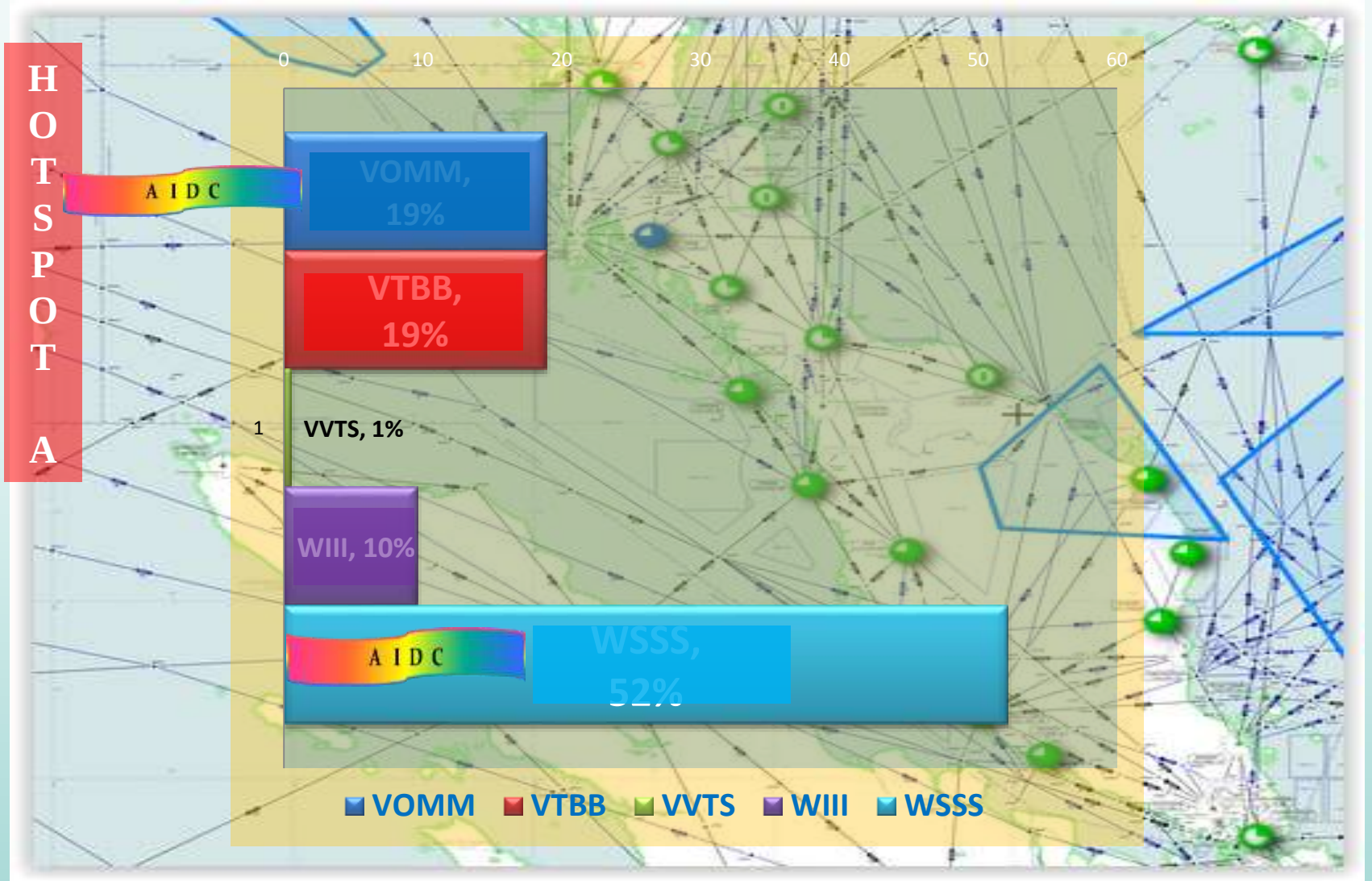
- Reduced workload for ATCOs
- Reduction of read-back and hear-back errors due to manual coordination
- Reduction of LHD which may occurs due to ATCO to ATCO coordination errors
- Allowing flight data operators prioritise work
- Performs handoffs electronically

AIDC STATUS IN MALAYSIA FIR

AIDC MESSAGES EXCHANGED IN KUALA LUMPUR FIR



TRAFFIC DISTRIBUTION ACROSS FIRS

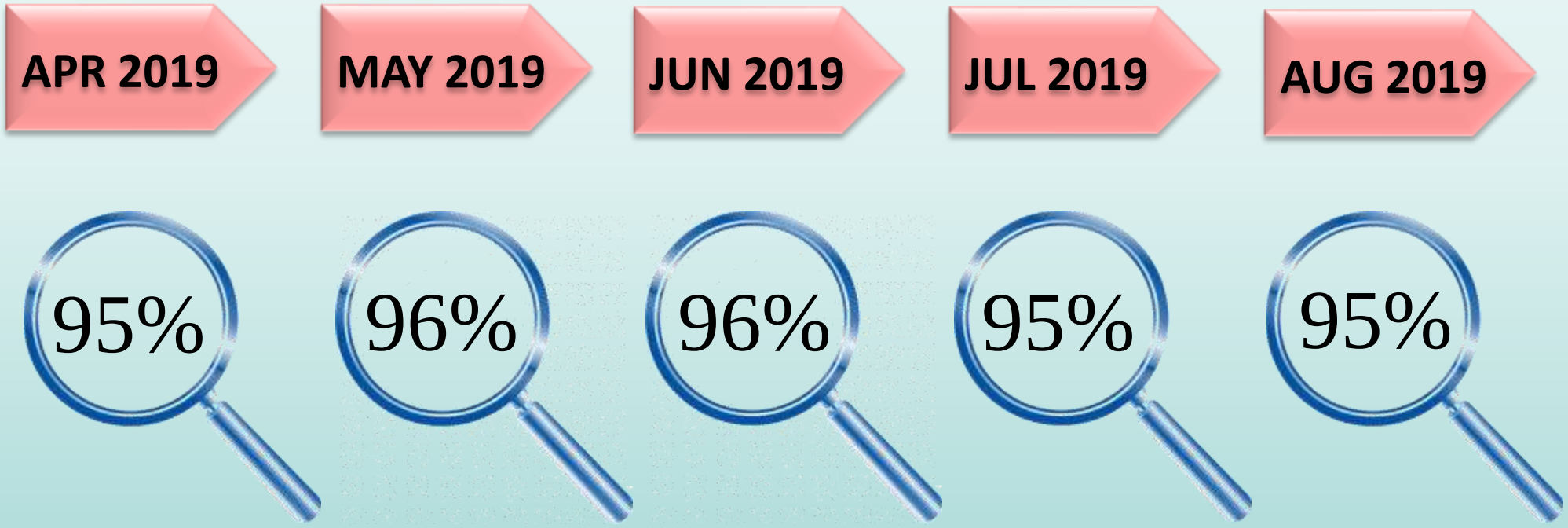


asean
CAAM
Civil Aviation Authority of Malaysia
SUCCESS RATE

SUCCESS RATE (EST+ACP)

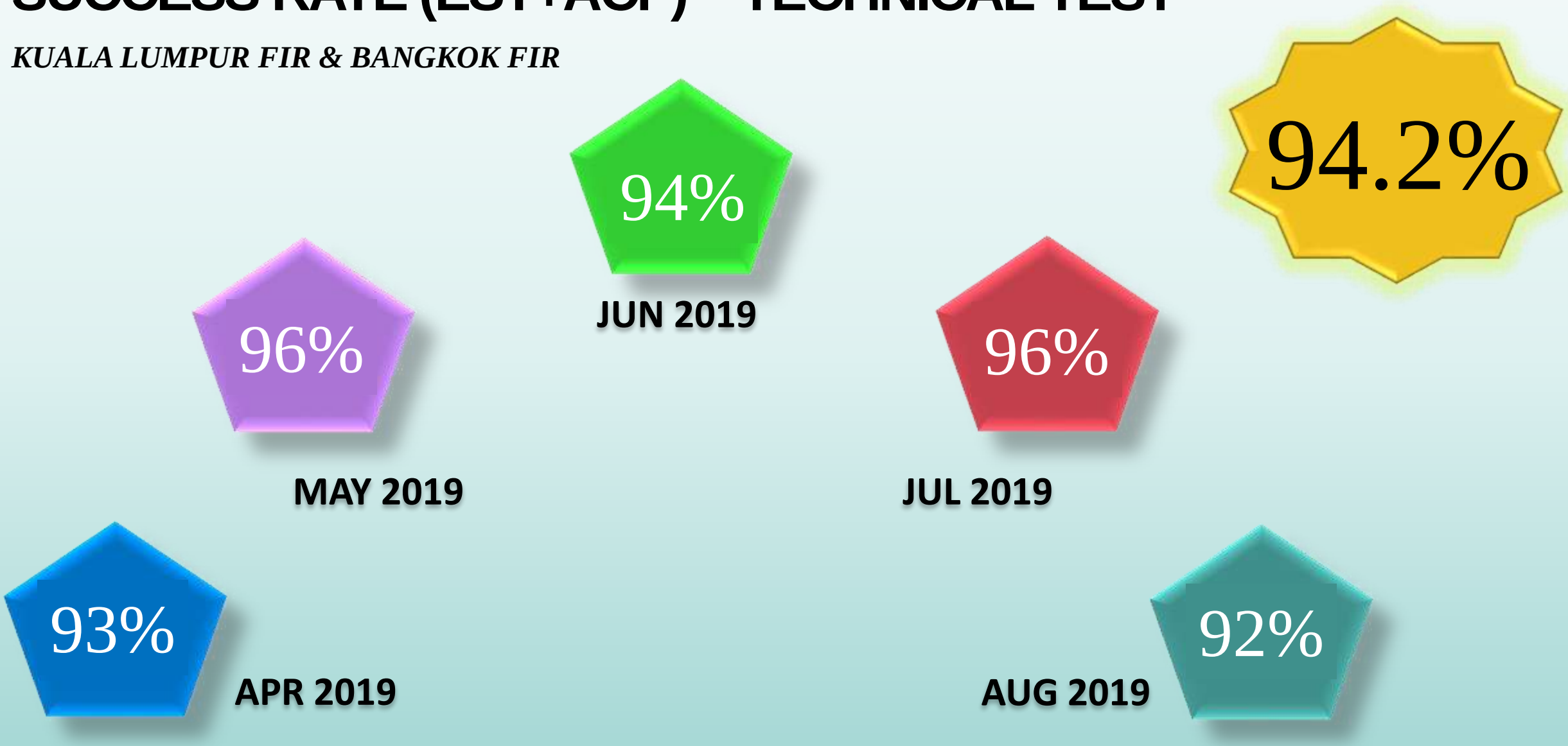
KUALA LUMPUR FIR & SINGAPORE FIR

95.4%



SUCCESS RATE (EST+ACP) – TECHNICAL TEST

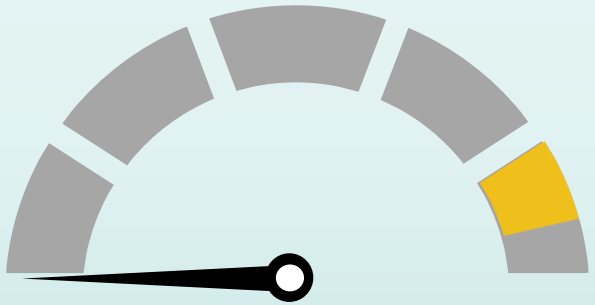
KUALA LUMPUR FIR & BANGKOK FIR



SUCCESS RATE (EST+ACP)

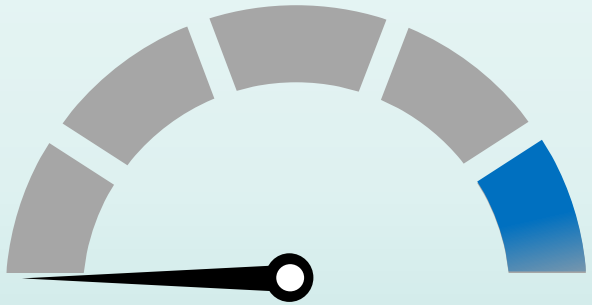
KUALA LUMPUR FIR & BANGKOK FIR

88.7%



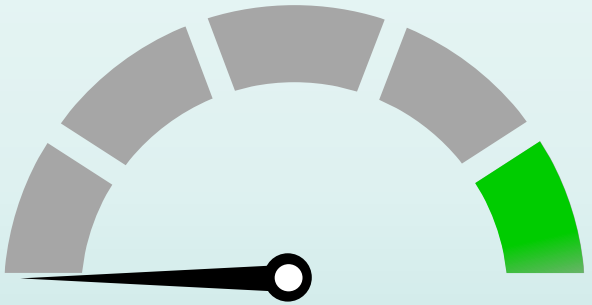
88%

29th AUGUST 2019



87%

30th AUGUST 2019



91%

31st AUGUST 2019

ABI SUCCESS RATE (ABI)

KUALA LUMPUR FIR & CHENNAI FIR

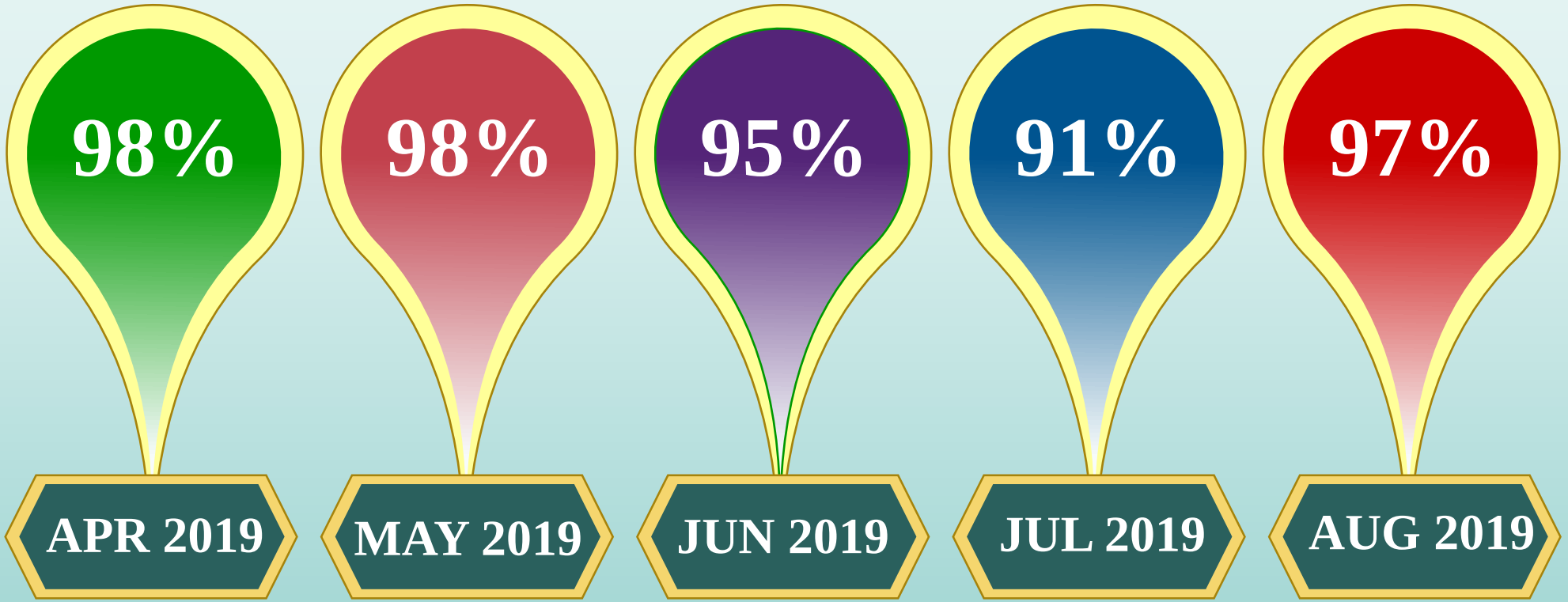
97%

1st AUG 2019	2nd AUG 2019	3rd AUG 2019	4th AUG 2019	5th AUG 2019	6th AUG 2019	7th AUG 2019

SUCCESS RATE (EST+ACP)

KUALA LUMPUR FIR & CHENNAI FIR

95.8%



IMPLEMENTATION ISSUES

Implementation Issues

- No corresponding system FPL or inconsistent routing of FPL data by different operators may cause issues in subsequent FIRs if not processed correctly.
- Connectivity issue.
- ATCO understanding in AIDC application.

IMPLEMENTATION GUIDELINE

IMPLEMENTATION ROADMAP

- ATN (AFTN/AMHS/CRV)
- LATENCY

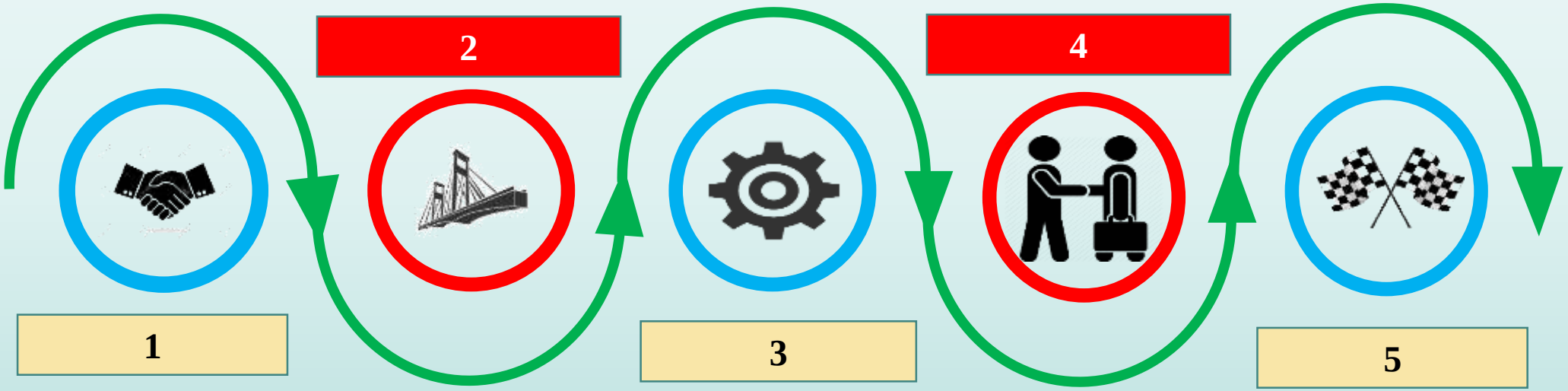
- TECHNICAL COORDINATION (OPTION ATS COORDINATION MEETING, MAIL,ETC.)

INFRA STUDY

2

ENGAGEMENT

4



1

TEAM SETTING UP

- LOCAL TEAM
- ADVISE TO HAVE AT LEAST 2 PERSONNEL

3

H/SOFTWARE STUDY

- READINESS ON CURRENT SYSTEM
- PREPARATION & PLANNING ON THE ADDITIONAL REQUIREMENT

5

FINAL

- FINALISE AND PROFILES THE PLAN

STAKEHOLDERS

Internal Entities

- The ANSPs, ATCOs, air traffic
- Control assistants & flight data
- Officers
- Air traffic control supervisors
- Maintenance Team
- Adjacent ANSP ACC
- Aeronautical Information
- Aeronautical Information Services officers

External Entities

- Airline operators
- Flight Despatchers
- Airport Operators

TRAINING

Beginner phase (Before Implementation)	• introduction training/user training: to educate and provide fundamental AIDC application to ATC.
Intermediate phase	• refresher training: to maintain their knowledge and improve their performance on the jobs. • Ability to detect AIDC failures.
Advanced phase	• to update ATC on additional subset of messages and other data.
Retraining	• Retraining is necessary to understand AIDC process and apply correctly. • Ability to detect AIDC failures.

CONCLUSION

AIDC EXCHANGE PROCESS

THANK YOU

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