

VALUES

UTILITY

CREDIBILITY

PROMPT RESPONSE



“MANAGE, SO THAT EVERYBODY CAN FLY.”

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT & RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

Objective

Present an overview of the Brazilian airspace planning and lessons learnt during FWC BRAZIL 2014 & an overview of the Brazilian airspace planning for RIO 2016 Olympics and Paralympics.



PLANNING & LESSONS LEARNT

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

DECEA (Department of Airspace Control) and CGNA (Centre of Management of Air Navigation) concept

Air Defense concept

Results

Lessons Learnt

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

DECEA and CGNA concept

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

- **DECEA (Department of Airspace Control) and CGNA (Centre of Management of Air Navigation) concept**

Previous events

Demand and Capacity

Human resources training

Technical support

Operational improvements

Information sharing

Collaborative Decision Making

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

- **DECEA (Department of Airspace Control) and CGNA (Centre of Management of Air Navigation) concept**

AIRSPACE MANUAL

- CHAPTER 1 – Capacity
- CHAPTER 2 – Demand
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FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

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AIR DEFENSE concept

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

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Air Defense concept

RESERVED AREA (WHITE AREA)

Dimensions corresponding to TMA localities and vertical limits from ground level to FL145.

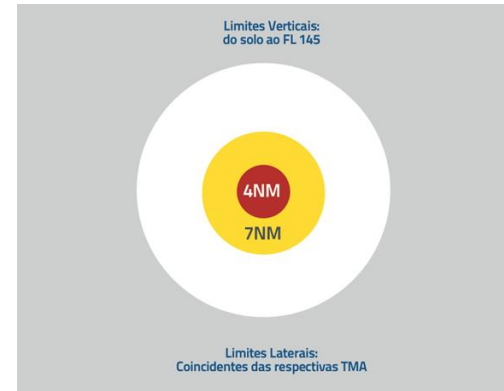
RESTRICTED AREA (YELLOW AREA)

7 NM radius centered on the football stadium and vertical limits from ground level to FL145.

PROHIBITED AREA (RED AREA)

4 NM radius centered on the football stadium and vertical limits from ground level to FL145.

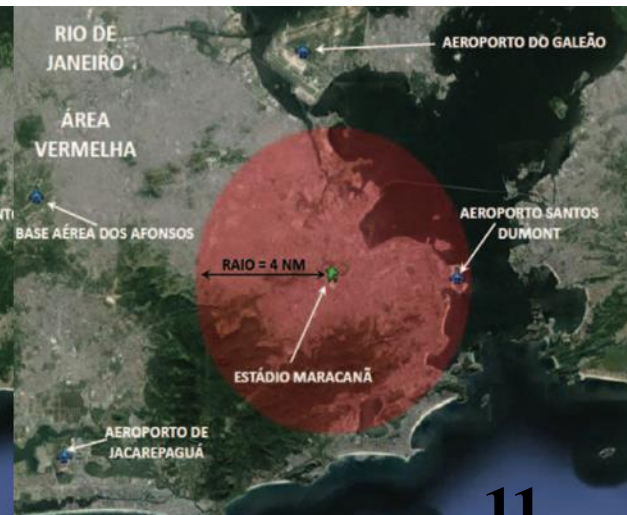
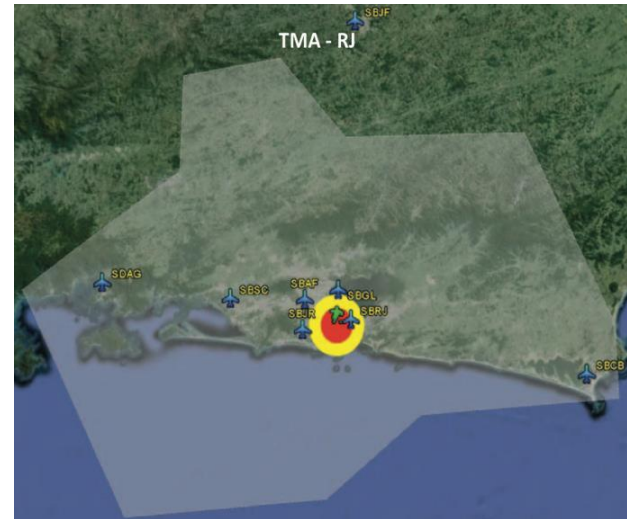
The areas were activated only on match days, a few hours before until a few hours after the matches.



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Air Defense concept



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

RESULTS

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

Domestic Scheduled Flights

+12% (- 5%)

International Scheduled Flights

+25% (+27%)

Charters

+600% (550%)

General Aviation

+150% (+150%)

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

General Aviation Slots

SLOTTED AIRPORT	12/jun	30/jun	05/jul
SBBH	2	10	12
SBBR	4	10	10
SBCF	4	10	12
SBCT	4	8	8
SBCY	1	4	4
SBEG	2	6	6
SBFL	1	6	6
SBFZ	2	10	10
SBGL	6	12	14
SBGO	1	8	8
SBGR	3	8	10
SBJD	7	32	32
SBJR	4	40	40

SLOTTED AIRPORT	12/jun	30/jun	05/jul
SBKP	3	10	10
SBMT	8	44	44
SBPA	3	10	10
SBPR	0	28	28
SBPS	8	8	8
SBRF	4	8	8
SBRJ	2	8	8
SBSJ	1	6	6
SBSP	4	4	4
SBSV	4	8	8
SBBI	2	28	28
SBCG	1	6	6
SBSG	4	6	6

TOTAL	85	338	346
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FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

General Aviation Slots

Domestic: 2,839 aircrafts (21,537 slots)

International: 635 aircrafts (1518 slots)

Obs1: 19,035 arr slots

Obs2: SBSP (Congonhas) and SBPT (Carlos Prates) arr / dep slots

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

General Aviation Slots



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

General Aviation Slots



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

General Aviation Slots



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

Scheduled Flights

Passengers

Daily Average - 485,000 passengers (21 airports / 12 cities)

Delays (over 30 minutes)

FWC BRAZIL 2014 Delays Average – 7.46%

International Delays Average – 15%

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Results

Scheduled Flights



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

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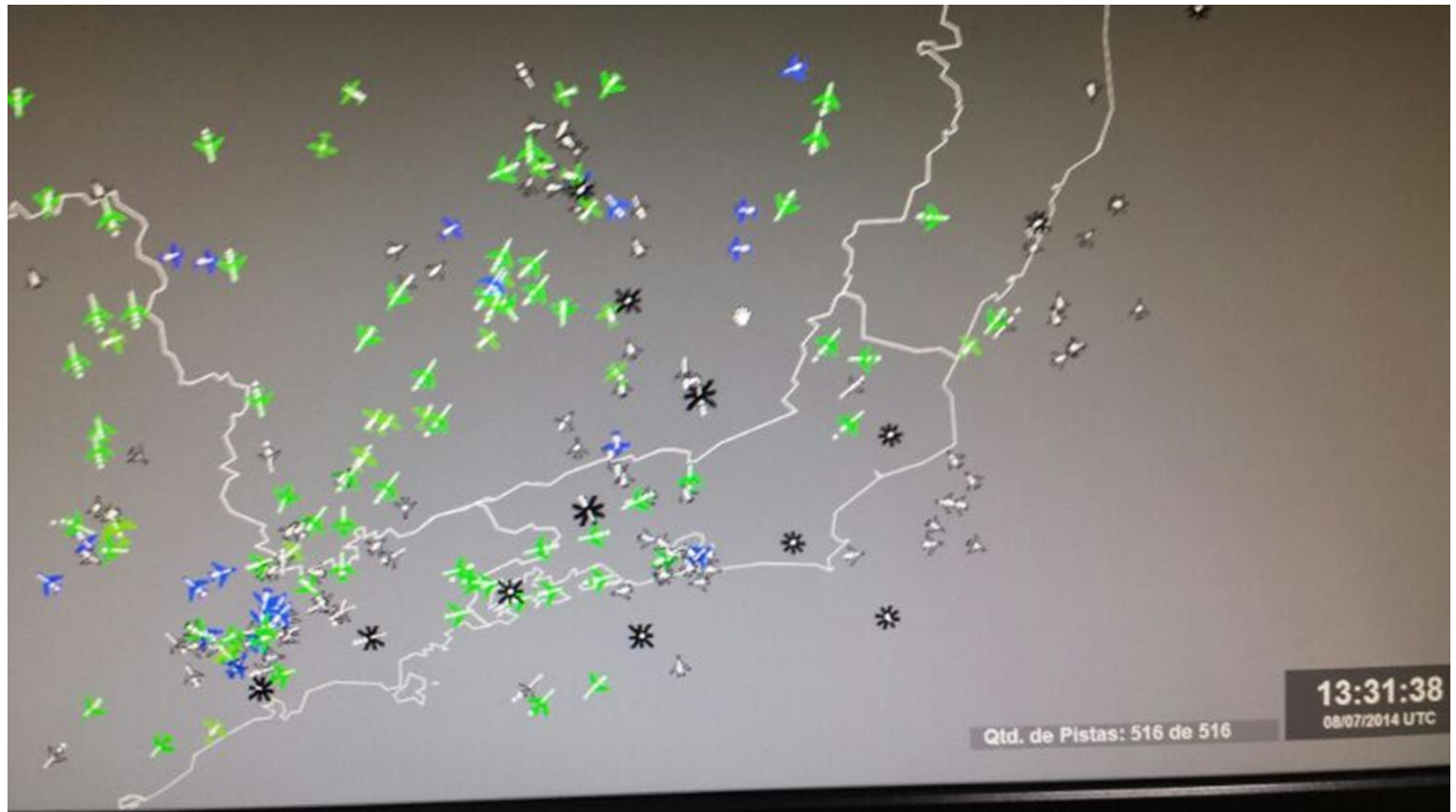
Results ATFM



FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

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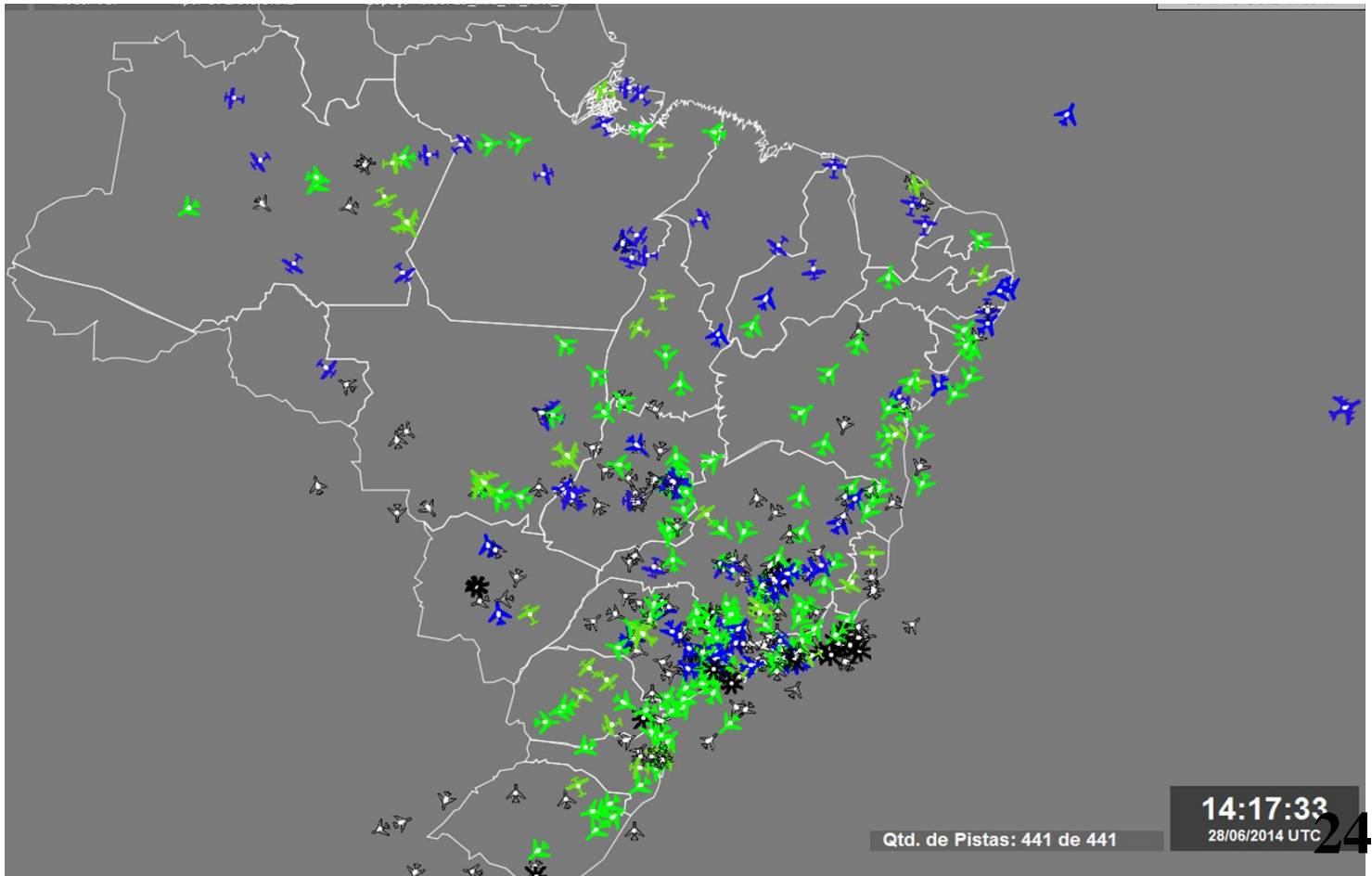
Results ATFM



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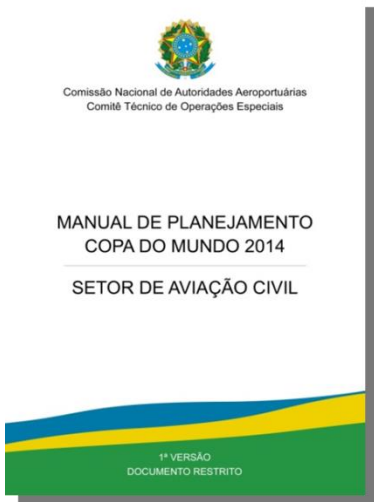
LESSONS LEARNT

FWC BRAZIL 2014 PLANNING & LESSONS LEARNT

Roadmap

Lessons Learnt – Strengths

- **PUBLICATIONS;**
- **REGULATIONS (RESOLUÇÃO 316 ANAC);**



SLOT ALLOCATION REGULATION FOR AIR TAXI AND GENERAL AVIATION AIRCRAFT AT COORDENATED AERODROME THROUGHOUT FIFA BRASIL SOCCER WORLD CUP 2014

1. PRELIMINARY CONSIDERATIONS

1.1. PURPOSE

This aeronautical information circular (AIC) purpose is detailing the procedures for the landings and departures of air taxi and general aviation aircraft at coordinated aerodromes, throughout FIFA Brazil 2014 Soccer World Cup, modifying the rules in AIP Brazil Part ENR 1.9 and ICA 100-11 (Flight Plan) items 3.2.1, 3.3.1, 5.3.1 and 5.4.1.

1.2. SCOPE

The provisions within this AIC apply, when suitable, to the facilities, and sectors of the Air Space Control System (SISCEAB) concerned with the air navigation management, and also the air space users under Brazilian jurisdiction.

2. INTRODUCTION

On October 30th 2007, the Fédération Internationale de Football Association (FIFA) officialized the occurrence of the Soccer World Cup 2014 in Brazil, having, however, the matches of the 32 delegations that will participate in the championship, distributed to 12 cities.

The experience acquired throughout the United Nations Conference about sustainable development (Rio+20), FIFA Soccer Confederations Cup Brazil 2013 and Catholic World Youth Day Rio 2013 raises the confidence that the current airport infrastructure at the main aerodromes in the cities where the soccer matches are going to take place will not suffice to accommodate the expected air traffic demand.

In order to manage the increase of the air traffic and maintain a safe, orderly and efficient air traffic flow, the Air Navigation Management Center (ANM) is going to

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Lessons Learnt – Strengths

- *MASTER ROOM;*
- *BRIEFINGS DEBRIEFINGS;*
- *INFORMATION SHARING;*
- *COLLABORATIVE DECISION MAKING;*



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Roadmap

Lessons Learnt – Strengths

- **WORKSHOPS (ATCO - AIS - AIRSPACE USER);**
- **ATCO AIS SPECIFIC TRAINING;**



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Lessons Learnt – Strengths

- *CLIMATOLOGY X WEATHER FORECAST;*
- *TECHNOLOGY IMPROVEMENTS;*

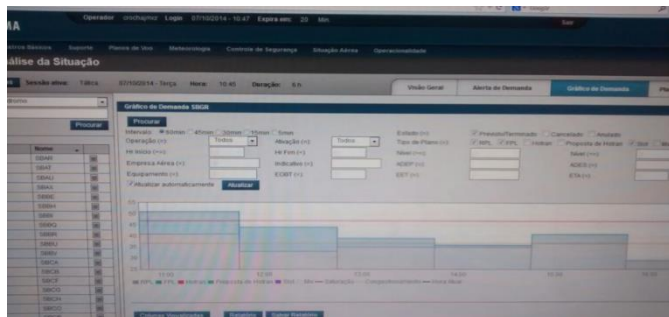
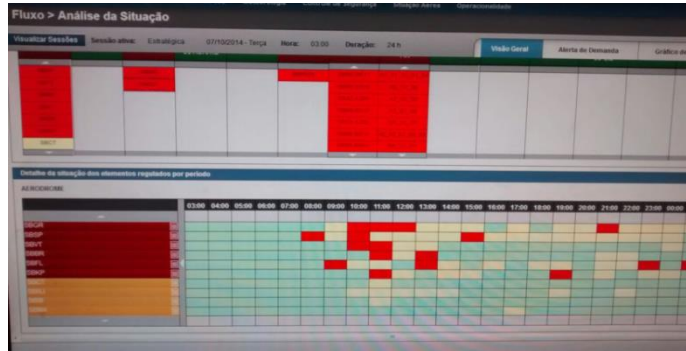


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Roadmap

Lessons Learnt – Strengths

➤ **SIGMA;**



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Roadmap

Lessons Learnt – Weaknesses

- *SCHEDULED FLIGHTS PLANNING;*
- *FLIGHT PLAN;*
- *INFORMATION MANAGEMENT;*
- *APRONS*



OLYMPICS AND PARALYMPICS PLANNING

INFORMATION SHARING

&

COLLABORATIVE DECISION MAKING

RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

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CHALLENGES

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RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

CHALLENGES

RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

OLD AND NEW QUESTIONS

- WHO DO WE HAVE TO SUPPORT?
- HOW CAN WE SUPPORT YOU?
- ...
- WHAT IF...?

RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

AIR & GROUND SIDE

- NUMBER OF HEADS OF STATE
- NUMBER OF DELEGATIONS
- VIP

RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

AIR SIDE

- **DEMAND X CAPACITY**
- **HIGH AIRSPACE OCCUPANCY (LONG PERIODS)**
- **CLIMATOLOGY**
- **ARRIVALS AND DEPARTURES TO/FROM SAME
TERMINAL AREA**
- **AIR DEFENSE STANDARDS**

RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

GROUND SIDE

- **APRONS**
- **AERODROMES**
- **DEFINITION OF AERODROMES VOCATION**
- **TIME TO PROCESS FLIGHTS**
- **GUESTS WITH DISABILITIES**

RIO 2016 OLYMPICS AND PARALYMPICS PLANNING

ONGOING ACTIONS

- **MEETINGS APO (Olympic Public Authority), COI (International Olympic Committee) & COMAER (AIR FORCE)**
- **AIR DEFENSE STANDARDS**
- **MASTER ROOM UPDATING**
- **ATCO & AIS TRAINING (PROSIMA BCT e AIS 2015 e 2016)**
- **CGNA TECHNICAL IMPROVEMENTS**
- **SIGMA**