



Adjusting A-CDM Implementation to Local Realities

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Part A

- Need for A-CDM
- A-CDM - Aims
- A-CDM Partners
- Airport Operators – Strong Involvement

Part B

- Practical Application
 - Airport Operations Control Center
 - Operational Efficiency
 - CDM Culture
 - Local Realities

PART A: What is A-CDM?



Growth in Air Travel and Airports

- air passengers 12 billion (arr and dep) by 2031
- airports as bottlenecks to the overall ATM-system
- as airports become busier:
 - **real-time airport operations management gets more difficult**
 - **potential for disruption to normal operations and impact on passengers increases**
- airports: operational efficiency and resulting infrastructure capacity is important objective for airports.
- airports need to constantly
 - **monitor operations,**
 - **identify and solve problems before they escalate into protracted disruptions and crises.**

Challenges (1)

Common situational awareness between the airport partners



Challenges (2)

Enhance predictability of airport operations

Partidas 16:16					
Hora	Estim.	Destino/Escala	Cia. Aérea	Voo	Term.
16:10	16:25	São Luiz	Azul	AD 2474 AD 2474	1 8
16:30	16:45	São Paulo - CGH	GOL	G3 5487 G3 5487	1 1
16:45		São Paulo - GRU	Azul	AD 2415 AD 2415	1 4
16:50		Uberlândia	Azul	AD 2528 AD 2528	1 R4
16:55		Cabo Frio	Azul	AD 2822 AD 2822	1 R5
17:00		Rio de Janeiro - SDU	GOL	G3 6865 G3 6865	1 R1
17:05		São Paulo - GRU	GOL	G3 6795 G3 6795	1
17:05		São Paulo - CGH	TAM	JJ 3122 JJ 3122	1
17:10		Vitória	Azul	AD 5047 AD 5047	1
17:15		Campinas	Azul	AD 4251 AD 4251	1
17:30		São Paulo - CGH	Azul	AD 2677 AD 2677	1
17:35		Ipatinga	Azul	AD 2616 AD 2616	1
17:35		Brasília	TAM	JJ 3844 JJ 3844	1
17:40		Lisboa	TAP	TP 104 TP 104	3

Chegadas 16:16					
Hora	Estim.	Origem/Escala	Voo	Term.	Situação
13:00	17:10	Rio de Janeiro - GIG	Azul	AD 9602 AD 9602	1
13:55	18:17	Porto Seguro	TAM	JJ 9071 JJ 9071	1
15:55		Campinas	Azul	AD 2463 AD 2463	1 Última bagagem
16:00	16:10	Salvador	GOL	G3 2194 G3 2194	1 Entrega de bagagem
16:05		Vitória da Conquista	Azul	AD 2563 AD 2563	1 Entrega de bagagem
16:20	16:15	Rio de Janeiro - SDU	GOL	G3 6846 G3 6846	1 Pouso
16:25		São Paulo - CGH	Azul	AD 2676 AD 2676	1 Entrega de bagagem
16:25		São Paulo - CGH	TAM	JJ 3123 JJ 3123	1
16:35		São Paulo - GRU	GOL	G3 6794 G3 6794	1
16:45		Ilhéus	Azul	AD 5119 AD 5119	1
16:55		Barreiras	Azul	AD 2465 AD 2465	1
16:55		São Paulo - CGH	TAM	JJ 3202 JJ 3202	1
17:00		São Luis	Azul	AD 4204 AD 4204	1
17:20		Rio de Janeiro - GIG	GOL	G3 5881 G3 5881	1

Optimise the utilisation of airport resources



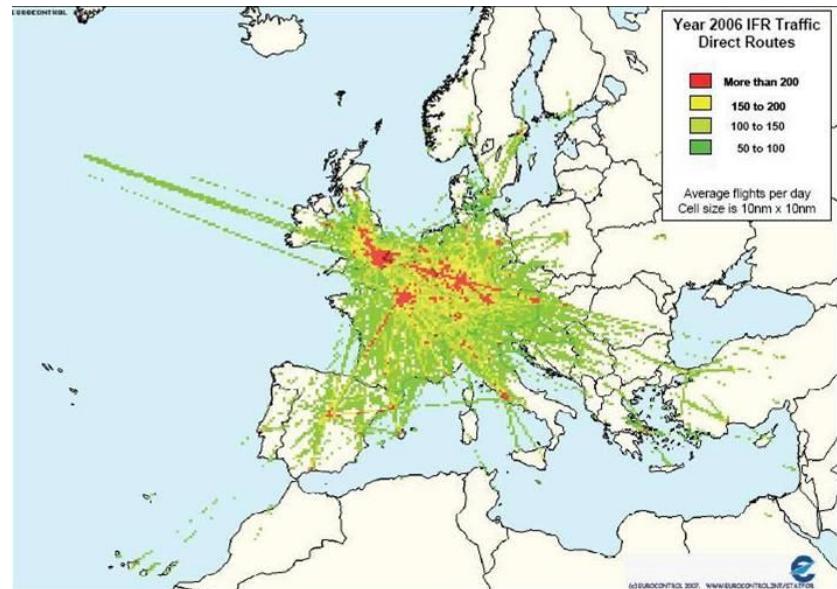
Challenges (4)

Limit the environmental impact of airport operations



Challenges (5)

Better integrate the airports into the ATM Network



Airport-CDM improves operational efficiency by

- reducing delays
- Increasing predictability of progress of a flight
- optimizing the utilization of resources
- making most of existing capacity

Airport CDM will

- benefit irregular and adverse weather operations
- reduce kerosene consumption and both CO₂ and noise emissions

Airport-CDM Partners



ATC



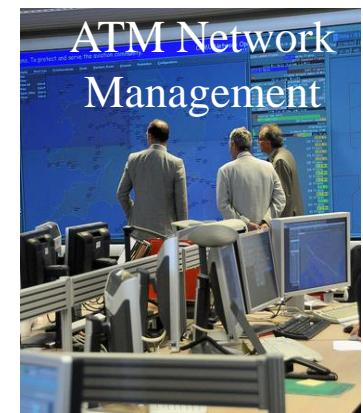
Airport Operator



Aircraft Operator



Ground Handler



ATM Network
Management

Benefits – Environmental (ZRH)

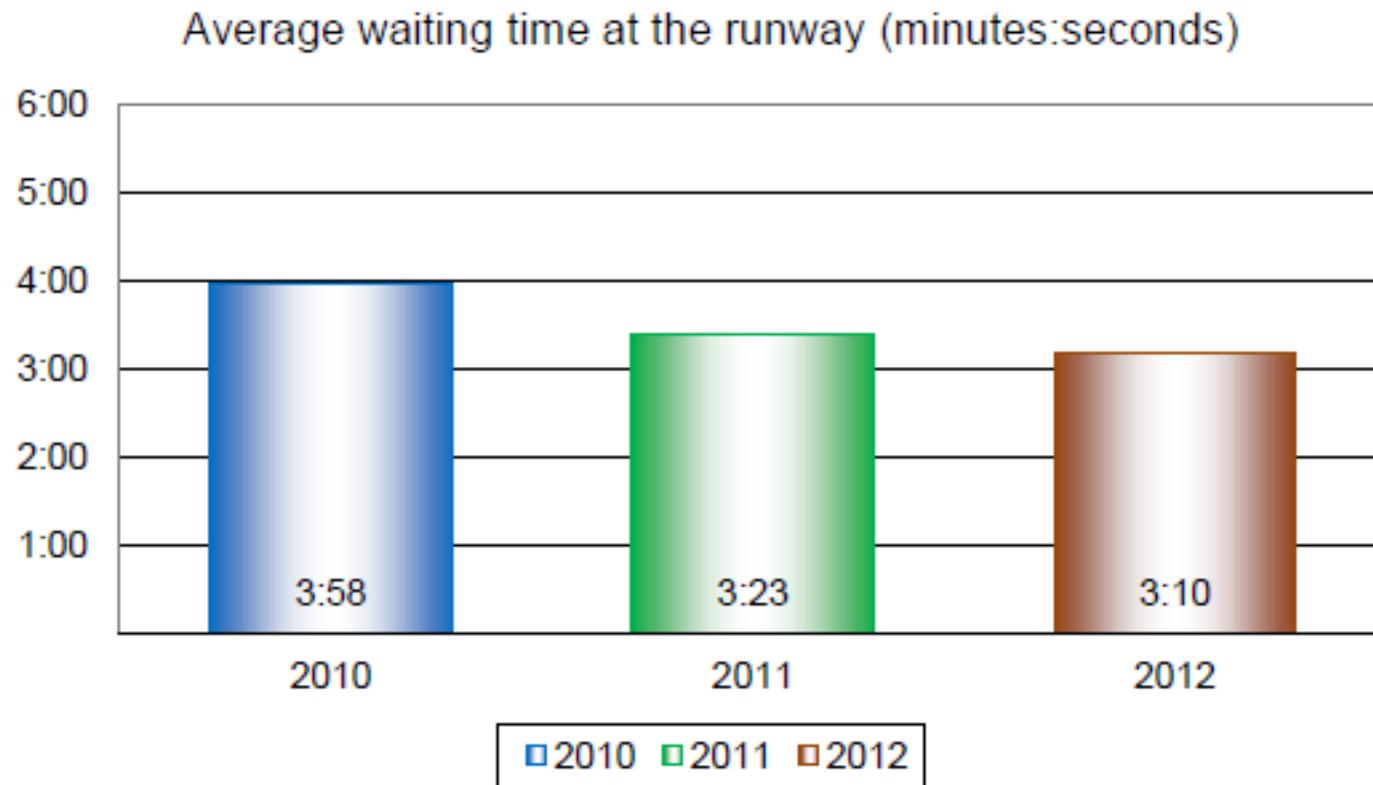
Emission Reductions	DARTS 2004	A-CDM 2014	% of all taxi-emissions	Cumulative Benefits
Reduction of CO ₂	3,620 t	3,680 t	1.4%	7,300t
Reduction of NOx	4 t	4.8 t	0.5%	8.8 t
Reduction of HC	4 t	4.4 t	3.0%	8.4 t
Reduction of CO	34 t	34.9 t	3.0%	78.9 t
Reduction of PM	na	0.1 t	1.1%	na

Table 2 Environmental Benefits

Local ACDM Implementation

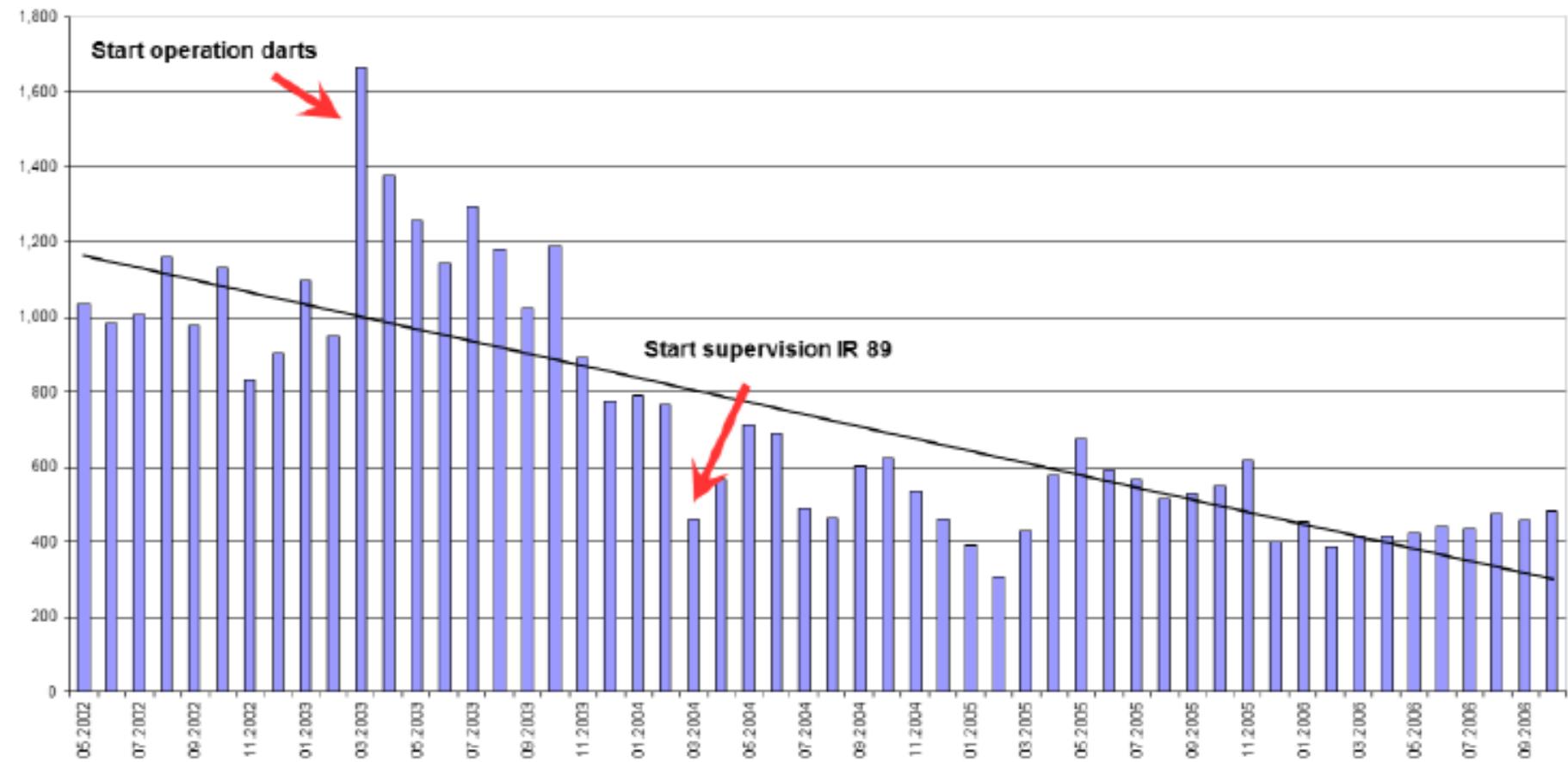
Full ACDM Implementation
(-40sec avg. taxi time)

Benefits– Operational (MUC)



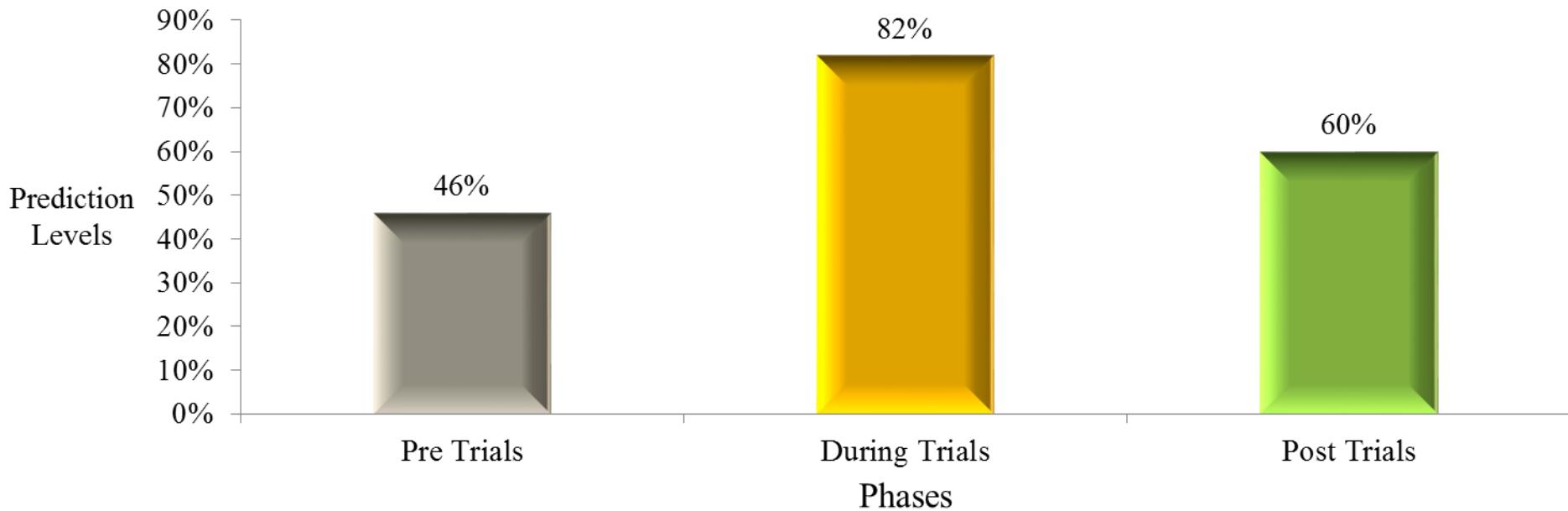
Graph: Courtesy DFS/Flughafen Muenchen GmbH

Trend of Start-up delays at Zurich Airport



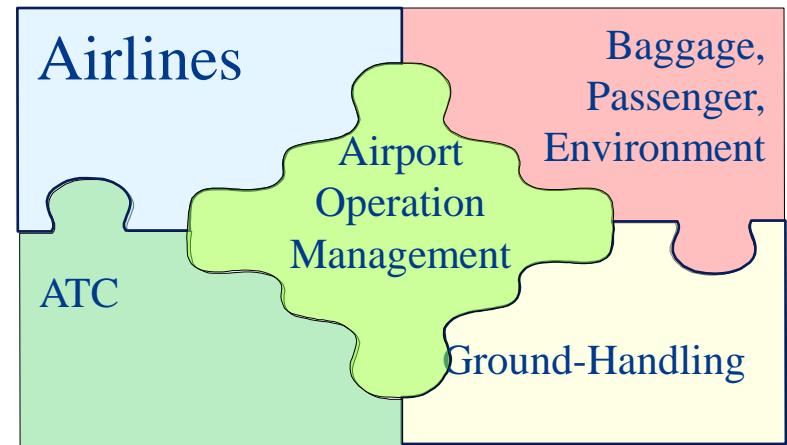
Benefits– Predictability (BLR)

Average TOBT Prediction Levels



Graph: Courtesy Kempegowda International Airport, Bengaluru

1. Overall responsibility for the airport performance
2. Most neutral view on all airport stakeholders interests
3. Comprehensive overview of the status of operation (stands, gate, baggage, safety, environment)
4. Provider and integrator of airport flight data

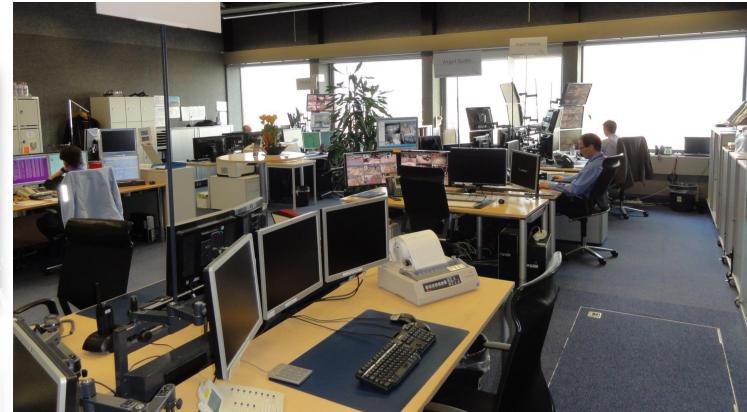


PART B: Implementation

1. Airport Operations Control Center
2. Achieving Operational Efficiency
3. A-CDM Culture
4. Local Realities



1. Airport Operations Control Center



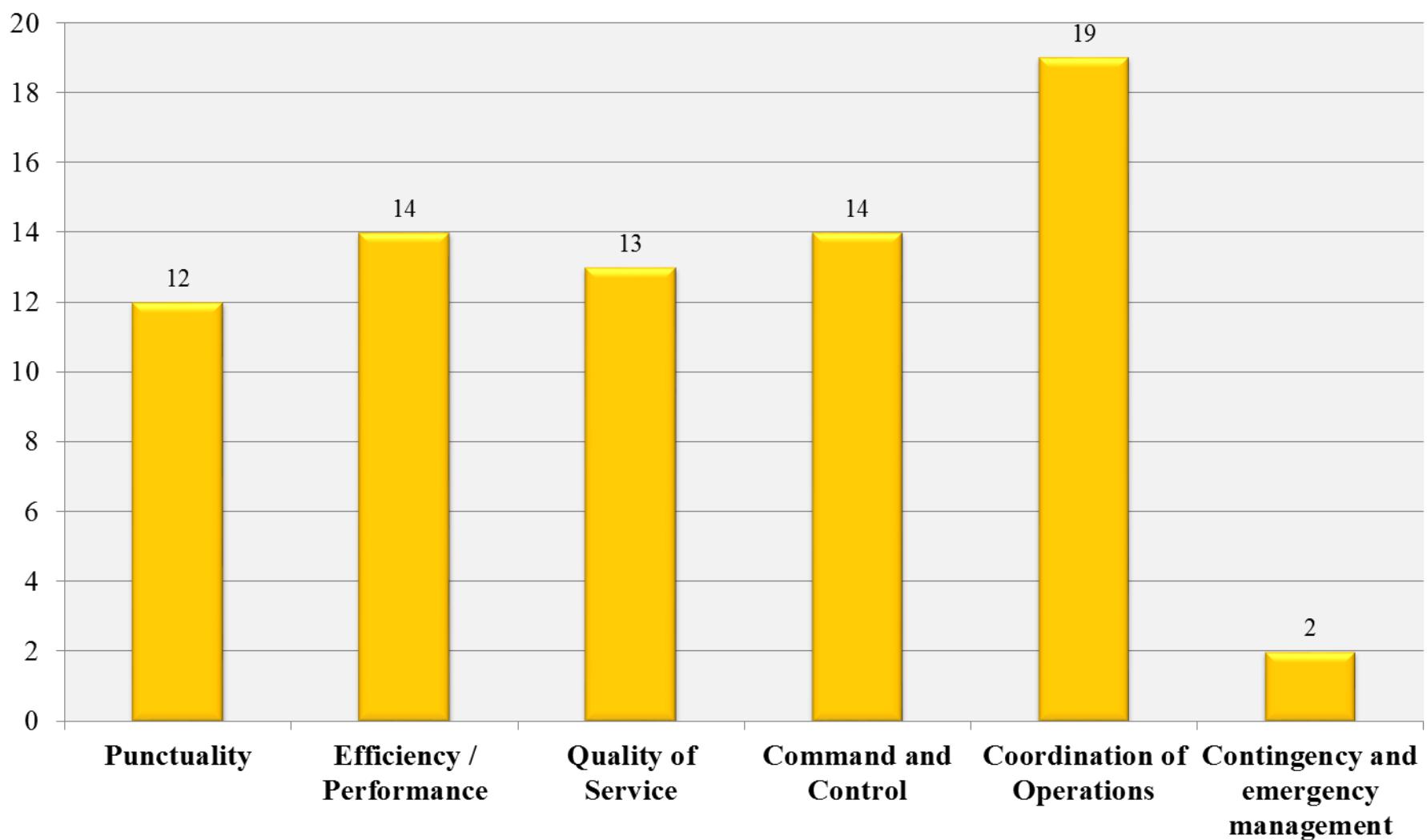
The Airport Operations Centre (APOC)

- ✓ Pro-actively manages the performance of airport operations (present and short-term)
- ✓ Provides a common operational overview of the airport to relevant airport stakeholders
- ✓ Allows them to communicate, coordinate and collaboratively decide on their progress

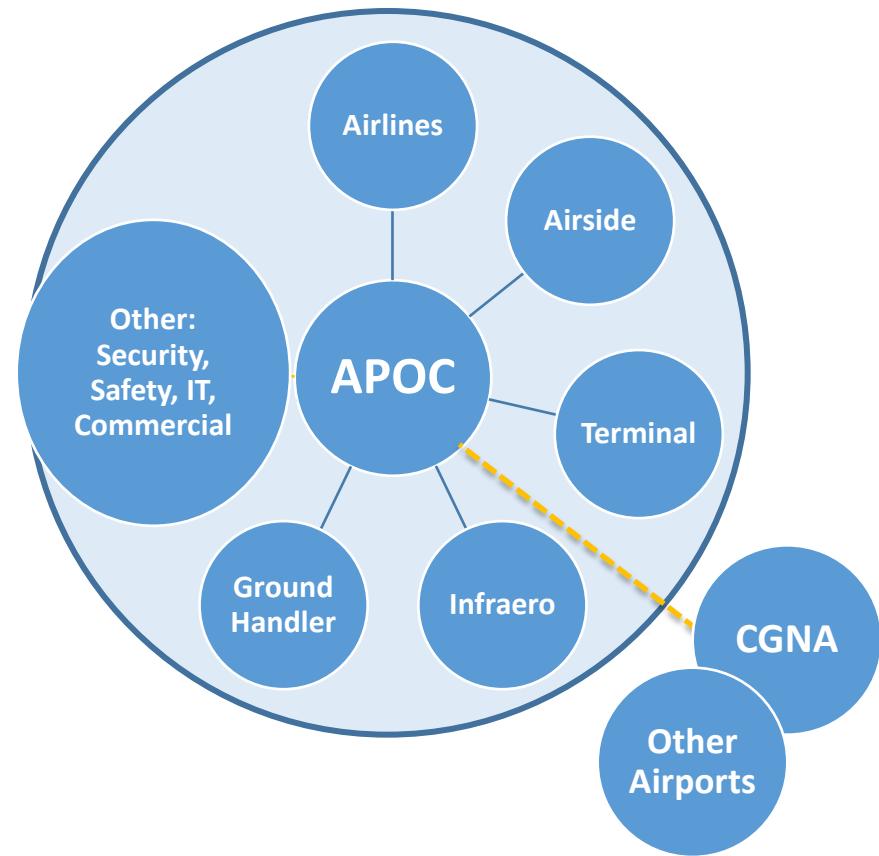
Focal point for:

- ✓ Local multi-stakeholder collaborative decision making
- ✓ Coordination with the network (if established)
- ✓ Performance management.

APOC Objectives (GVA Survey)



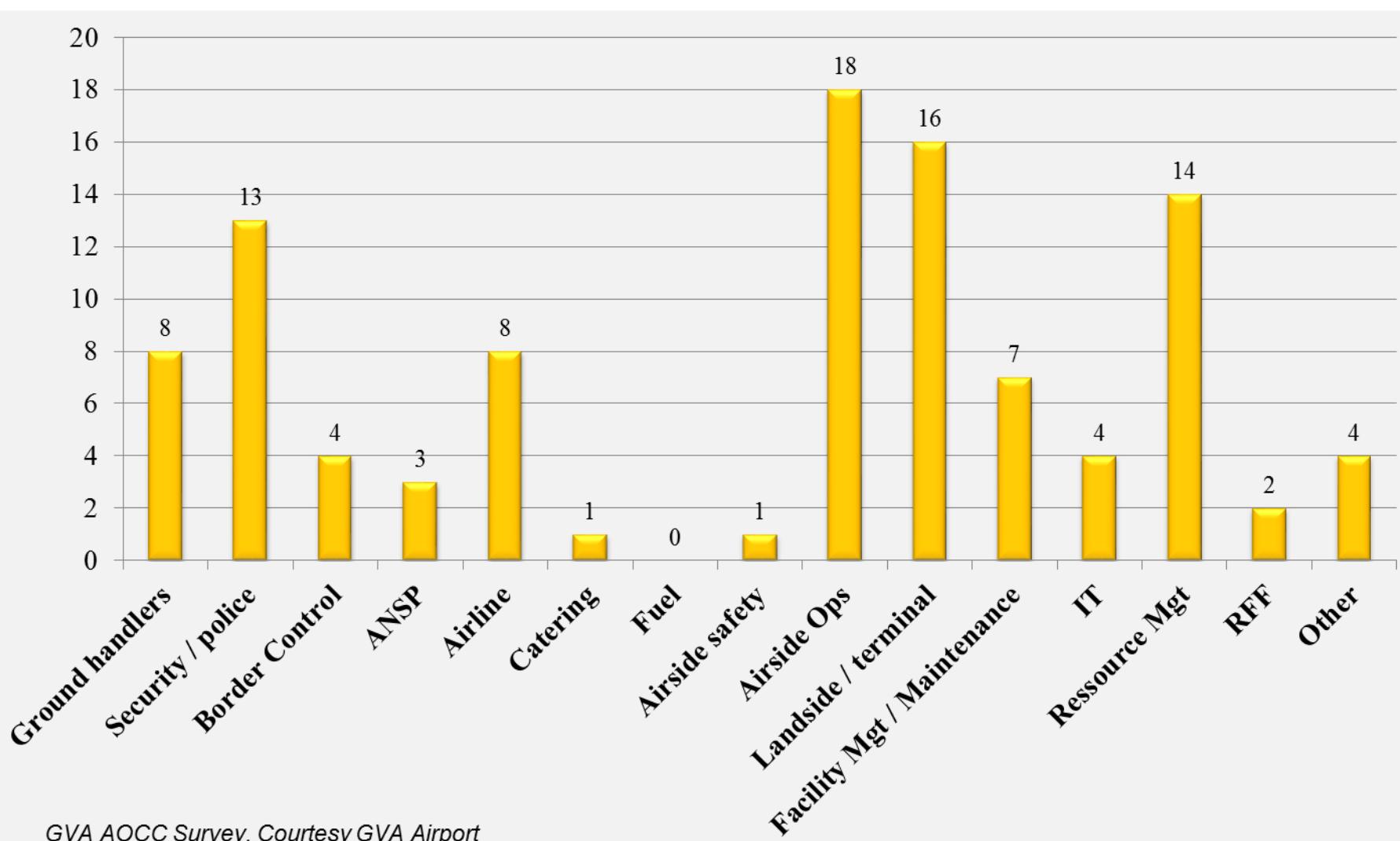
Stakeholders



Activities

- Flight approval
- Planning of airport resources (positions, boarding gates, baggage belts)
- Monitoring of passengers, aircraft flows
- Activation and leadership of contingency plans
- Information management for the FIDS
- Communication with external stakeholders

APOC Composition (GVA Survey)



GVA AOCC Survey, Courtesy GVA Airport

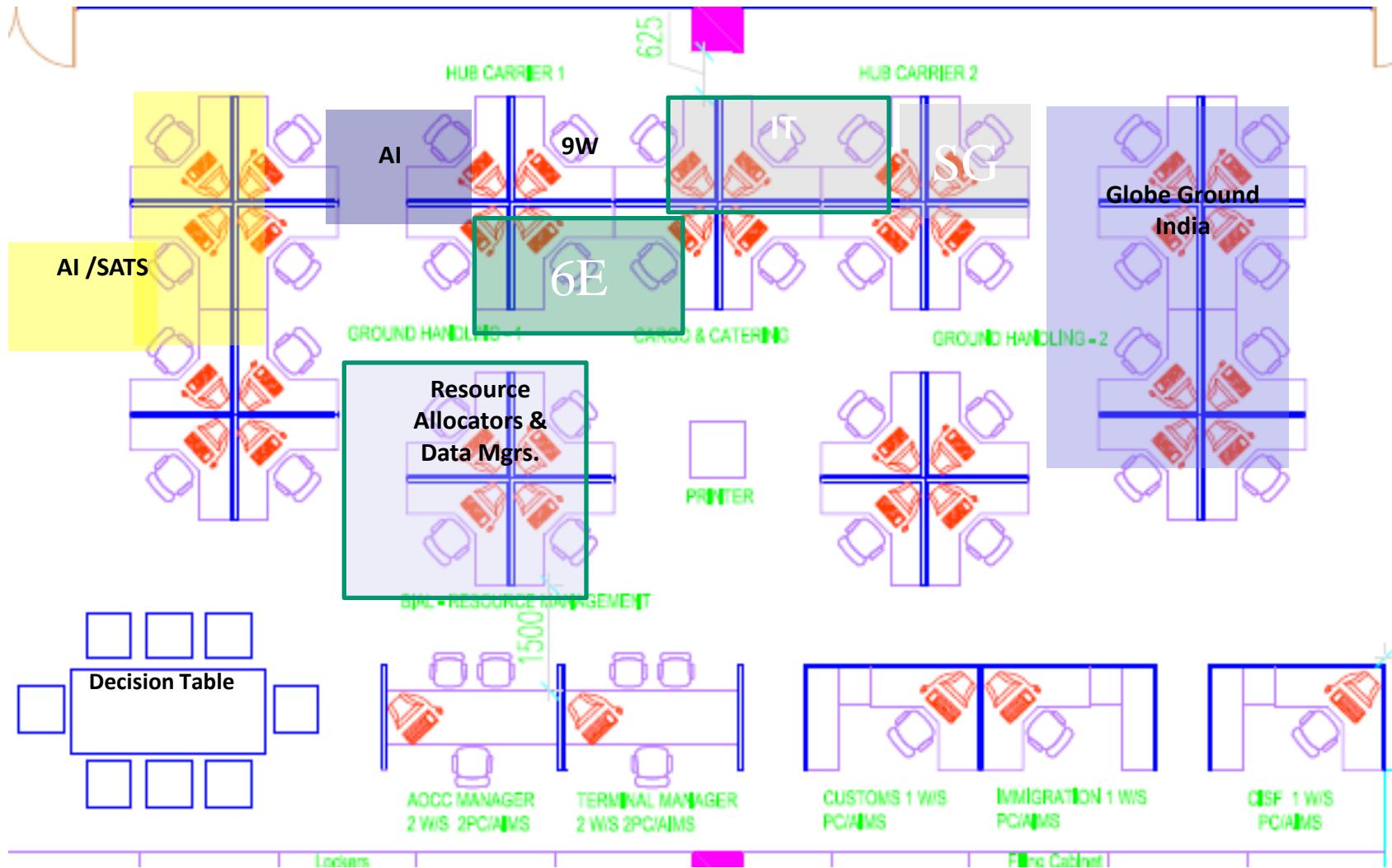
Composition of CNF APOC



1. IT
2. APOC
3. APOC
4. APOC
5. SECURITY
6. LATAM
7. AZUL
8. GOL
9. DUTY MANAGER
10. AIRSIDE
11. LANDSIDE
12. -
13. INFRAERO
14. AVIANCA
15. -
16. -
17. -



Composition of BLR AOCC



Airport Steering Zurich Airport, Switzerland



Johannesburg, South Africa



Moscow Sheremetyevo, Russia



Duesseldorf, Germany



Picture: Courtesy GVA Airport

Indianapolis, United States



Geneva Airport, Switzerland



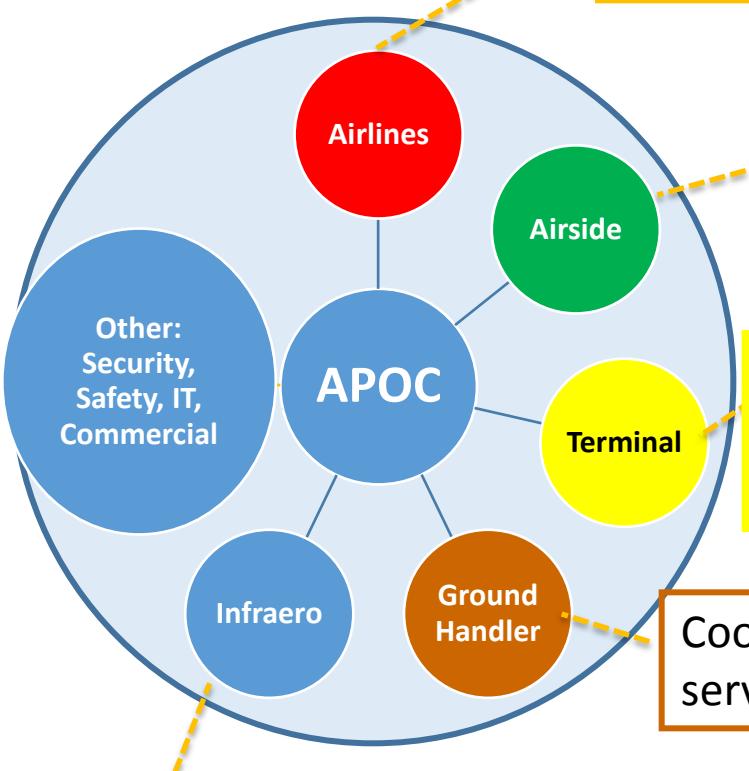
Picture: Courtesy GVA Airport

Bengaluru International Airport, India



Picture: Courtesy Kempegowda International Airport, Bengaluru

Stakeholders



Feed and update flight information such as landing and departure time, passengers quantity, communication.

Manage Apron activities with airlines and ground handlers, remote operations

Manage passenger terminal operations and act immediately in order to eliminate any issue that shows up

Coordinate with airline and APOC to assure that all services are delivered on time

Guarantee the information exchange between BH Airport and Infraero airports

APOC CNF aims at working side by side with the key Airport stakeholder (Airlines, GHA, Authorities, AD Operator) to ensure that everyone has the same information and Works towards the same objective.

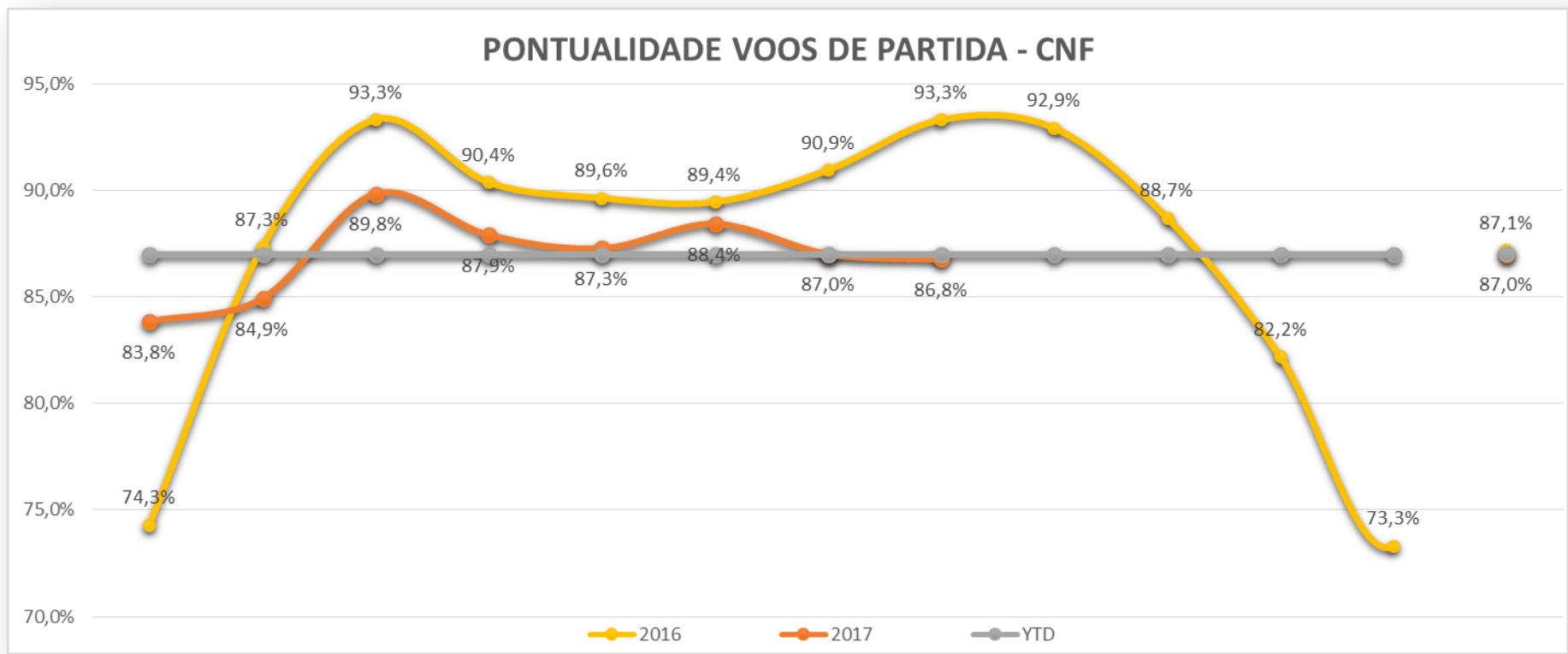
Daily Coord. Meeting



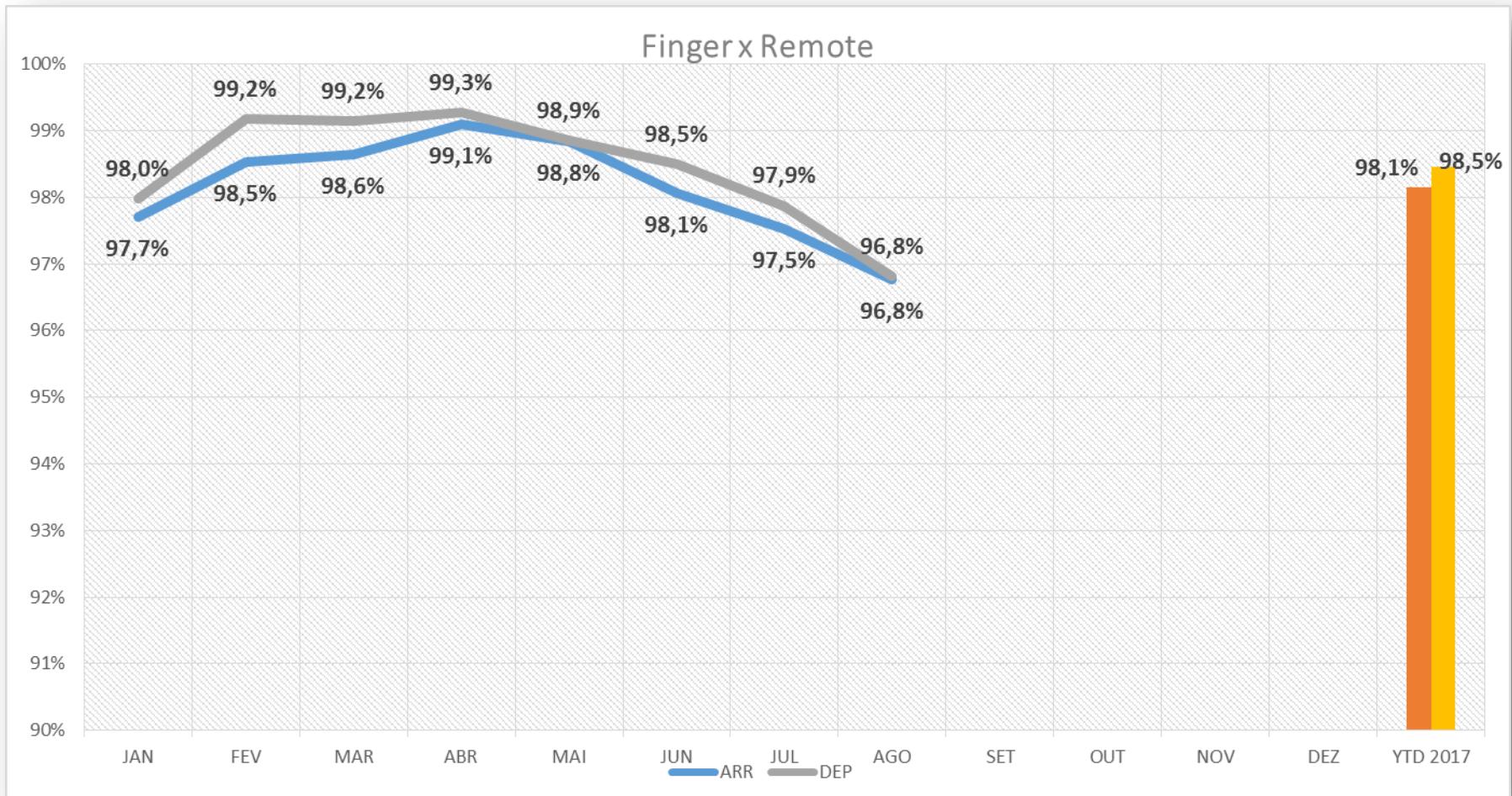
Focus: Share information about Weather (local,national), planned movements and pax numbers, events (Sports, VIP, Strikes....)

Participants: BH Airport (Ops, Security, Maintenance, IT), Airlines, ATC, Flow Management

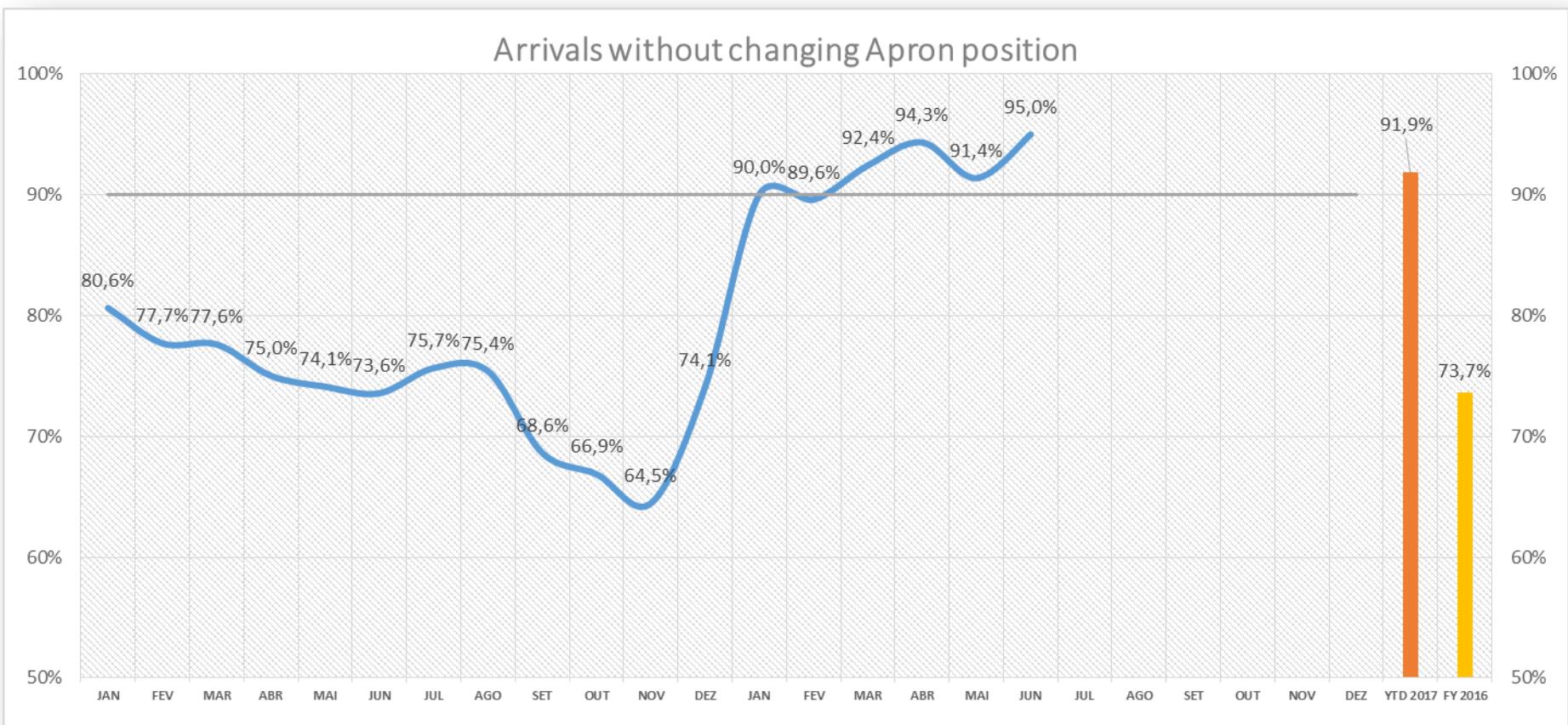
Punctuality



Finger x Remote Operations



Arrivals without changing Apron position



7-Days Meeting



Focus: Weekly Meeting analysing indicators and relevant facts of the previous 7 days and the upcoming 7 days such long-term weather forecast (local e national), planned movements, events, planned Works other other interventions

Participants: Mid-level Managers (BH Airport - OPS, Security, Safety, IT, Airlines, Control Tower, other partners as required)

Collaborative Decision Making (CDM) project with key domestic airlines

Objectives: identify efficiency and customer service improvements by better planning processes, aligned key performance indicators and pilot projects



Projeto CDM com Empresas Aéreas

KPIs - APOC



Indicadores	Metodologia	Baseline (YTD 2016)	Meta	YTD 2017	
Pontualidade - Partidas	Intervalo -15'<STA>+15'	89%	87%	87%	
Alocação das Aeronaves (excluindo ATR)	% voos no finger e remota	96%	91%	99%	
Pontualidade geral de CNF	EA	TBD			
Atrasos de Infraestrutura Aeroportuária	EA	TBD			
Recuperação de Malha	EA	TBD			
Qualidade das informações: informações de voo	ANAC	3,96	4,20	4,33	
Qualidade das informações: sistema sonoro de aviso aos passageiros	ANAC	3,90	4,20	4,16	
Aderência ao Silent Airport	% de voos que realizam até 3 chamadas de som	--	95%	62%	
Troca de posição de pátio	Troca de posição de pátio para chegadas com menos de 20 min para o pouso	76,3%	90%	91,1%	

KPIs - ACDM GOL – BH Airport I



Categoria

Indicadores

Responsável

1 Punctuality

1.1

Pontualidade Chegada 15'



1.2

Pontualidade Partida 15'



1.3

Pontualidade 0' / Load Factor / Conectividade



1.4

Principais atrasos 15'



1.5

Chegadas Antecipas e Atrasadas 15'



1.6

Voos Ofensores de Partida 15'



1.7

Taxiamento



2 Infrastructure

2.1

Alocação de voos no finger



KPIs - ACDM GOL – BH Airport I



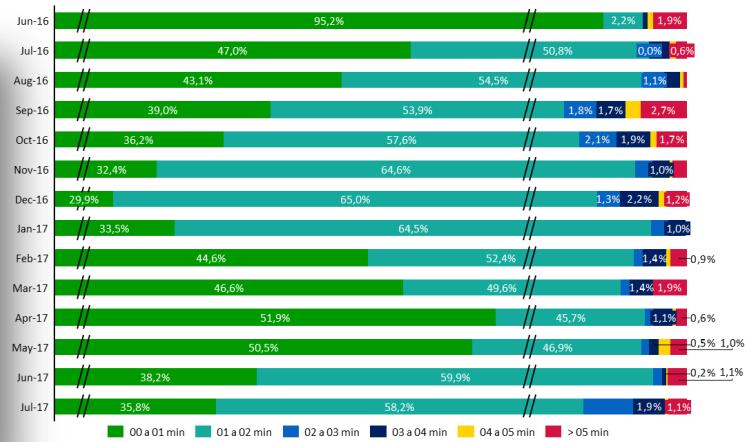
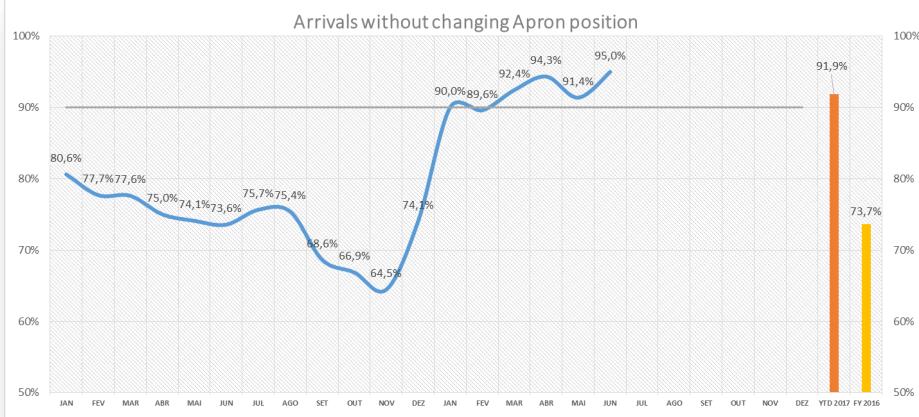
Categoria	Indicadores	Responsável
3 Handling	3.1 Extravio de Bagagem (AHL) 3.2 Danificação de bagagem (DPR) 3.3 Restituição de bagagem	GOL Linha aérea Inteligente
4 Customer Experience	4.1 Canais de Atendimento 4.2 Pesquisa de Satisfação Gol 4.3 Pesquisa de Satisfação Infraero SAC	GOL Linha aérea Inteligente
5 Safety	5.1 Ocorrências com fauna	BH

2. Achieving Operational Efficiency

Cockpit – Mensal

MOVIMENTAÇÃO	Mês	YTD	SECURITY	Mês	YTD	SAFETY	Mês	YTD
Passageiros	● ●	● ●	Teste AVSEC	● ●	● ●	Colisão Aérea	NA	● ●
Aeronaves	● ●	● ●	SME	● ●	● ●	Ocorrências de Solo	NA	● ●
Receita Cargas	● ●	● ●	Bombeiros	● ●	● ●	Ocorrências de Rampa	NA	● ●
QUALIDADE DO SERVIÇO	Mês	YTD	RESTITUIÇÃO DE BAGAGEM	Mês	YTD	Incidente	NA	● ●
Pontualidade (Partidas)	● ●	● ●	Doméstico ponta – 1ª bag	● ●	● ●			
Tempo de fila – 5 min	● ●	● ●	Doméstico ponta – última bag	● ●	● ●			
Tempo de fila – 15 min	● ●	● ●	Doméstico remota – 1ª bag	● ●	● ●			
Credenciamento – Espera	● ●	● ●	Doméstico remota – última bag	● ●	● ●			
Credenciamento – Atendimento	● ●	● ●	Internacional C – 1ª bag	● ●	● ●			
Tempo Importação – Aéreo	● ●	● ●	Internacional C – última bag	● ●	● ●			
Tempo Importação – Rodov	● ●	● ●	Internacional D E – 1ª bag	● ●	● ●			
Tempo de liberação	● ●	● ●	Internacional D E – última bag	● ●	● ●			

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Performance Management – Key Pillars

A) Regular Reports

- Daily: summary of daily ops
- Monthly: monthly KPI report



B) Performance Dialogs

- Internal:

A vertical stack of four colored boxes labeled N1 through N4 from top to bottom. Arrows point upwards from each box to the label next to it:
N1: Gestor - Diretor
N2: Coordenador - Gestor
N3: Líder/Supervisor - Coordenador
N4: Operador - Líder/Supervisor
- External: monthly with contractors (e.g. Cleaning) and partners (e.g. GHA)

C) Facilitation Meeting:

Monthly

- Key Figures;
- Performance Indicators
- Customer Surveys ANAC e SAC;
- Work group results



A) Regular Reports

APOC Daily Report

Relatório Diário: quinta-feira, 14 de setembro de 2017																					
Processado em: sexta-feira, 15 de setembro de 2017																					
MOVIMENTAÇÃO																					
ATM		OPERAÇÕES POR CABECEIRA																			
Doméstico	Internacional	Total do Dia	Acumulado	4% mesmo período	Mês	2017/2016	Pousa	Decolagem	Total												
Posso	4	147	1.861	7%			RWY 16	131	129												
Descolagem	4	151	1.856	7%			RWY 34	16	22												
Total	8	298	3.717	7%			Total	147	131												
PASSAGEIROS																					
Doméstico	Internacional	Total do Dia	Acumulado	4% mesmo período	Mês	2017/2016	Embarque	Desembarque	Total												
Embarque	837	16.264	202.560	11%			Doméstico	-	-												
Desembarque	583	15.259	196.872	17%			Internacional	13,00	5,10												
Total	1.320	31.523	399.232	13%			Total	13,00	5,10												
* Os valores de passageiros diários deste relatório obtêm informações extratas vindas das empresas aéreas, considerando passageiros com bilhetes em reservas e passageiros em trânsito.																					
Deve-se considerar um desvio aproximado de -4% desse número para a informação real de passageiros processados mensalmente.																					
PONTUALIDADE																					
Chegadas					Chegadas - Acumulado																
Partidas					Partidas - Acumulado																
ATRASOS NAS PARTIDAS (>15 min)																					
ATRASOS ATRIBUÍDOS AO AEROPORTO																					
Código	Descrição	Qtd de voos																			
AR	Retardo no Aeroporto de Partida	-																			
AF	Facilidades do Aeroporto	1																			
AM	Retardos no Aeroporto de Partida com / sem ATM	-																			
ATRASOS POR EMPRESA ÁREA																					

Operations Monthly Report

Cockpit – Mensal

MOVIMENTAÇÃO	Mês	YTD	SECURITY	Mês	YTD	SAFETY	Mês	YTD
Passageiros	●	●	Teste AVSEC	●	●	Colisão Avifauna	NA	●
Aeronaves	●	●	SME	●	●	Ocorrências de Solo	NA	●
Receita Cargas	●	●	Bombeiros	●	●	Ocorrências de Rampa	NA	●
QUALIDADE DO SERVIÇO	Mês	YTD	RESTITUIÇÃO DE BAGAGEM	Mês	YTD	GESTÃO DE PESSOAS	Mês	YTD
Pontualidade (Partidas)	●	●	Doméstico ponte – 1ª bag	●	●	FTE	●	NA
Tempo de fila – 5 min	●	●	Doméstico ponte – última bag	●	●	Afastamentos	●	●
Tempo de fila – 15 min	●	●	Doméstico remota – 1ª bag	●	●			
Credenciamento – Espera	●	●	Doméstico remota – última bag	●	●			
Credenciamento – Atendimento	●	●	Internacional C – 1ª bag	●	●			
Tempo importação – Aéreo	●	●	Internacional C – última bag	●	●			
Tempo importação – Rodov.	●	●	Internacional D E – 1ª bag	●	●			
Tempo de liberação	●	●	Internacional D E – última bag	●	●			

● Acima da Meta

● Entre a Meta e o mínimo estabelecido

● Abaixo do mínimo estabelecido

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← voltar início →

B) Performance Dialog: Example APOC I

Indicator	Mês	YTD	Mês	Ano
Departure Punctuality	87,1%	87,0%	⬇️	⬇️
Alocation at Aerobridges (Arr)	97,5%	98,3%	⬇️	⬆️
Alocation at Aerobridges (DEP)	97,9%	98,7%	⬇️	⬆️
Gate Changes before landing (<20min ETA)	91,1%	92,0%	⬇️	⬆️

⬆️ Acima da meta e
tendência positiva

⬆️ Abaixo da meta e
tendência positiva

⬇️ Acima da meta e
tendência negativa

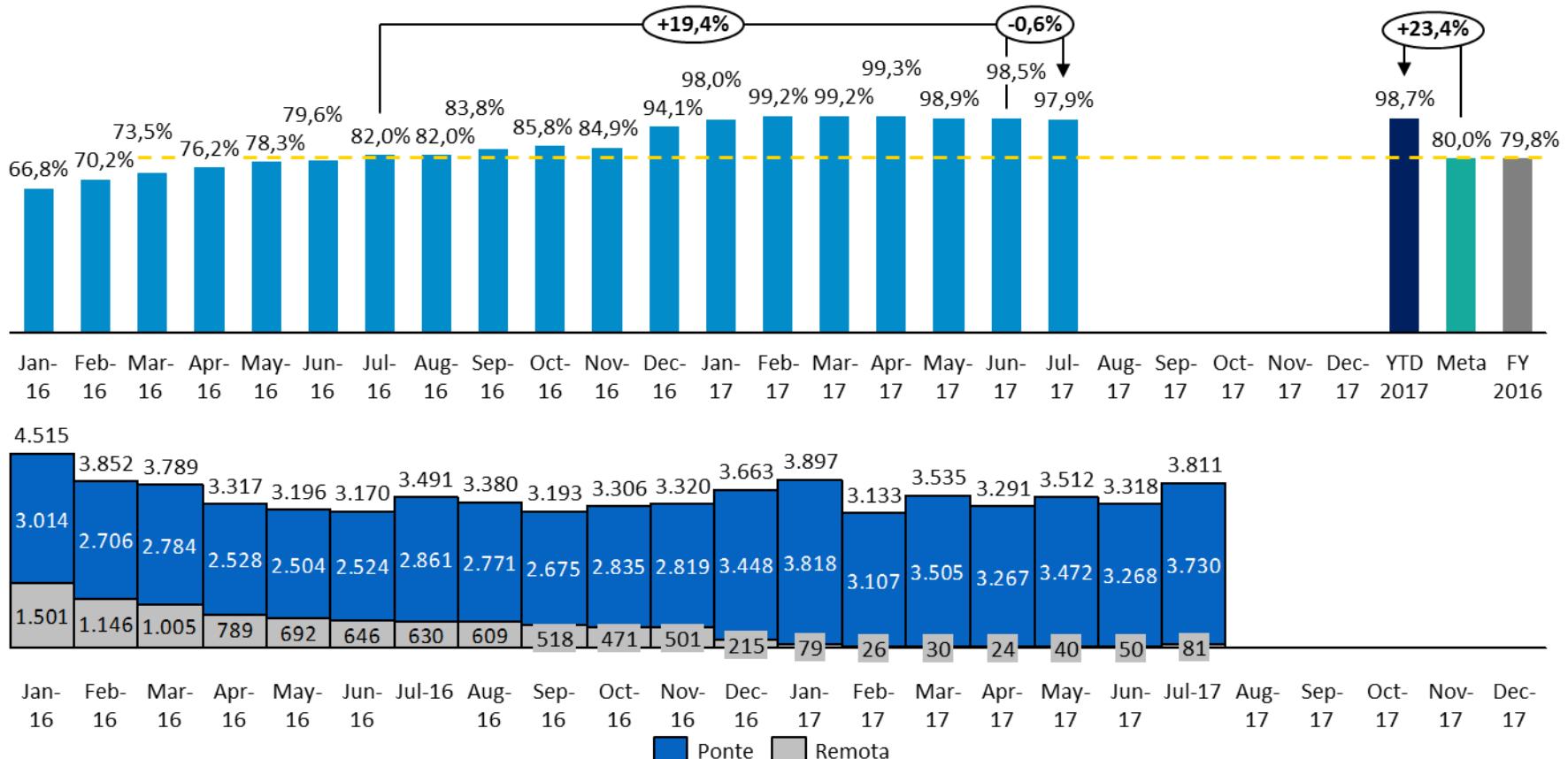
⬇️ Abaixo da meta e
tendência negativa

ND Não disponível

NA Não aplicável

B) Performance Dialog: Example APOC II

Allocation at Aerobridges (DEP)



B) Performance Dialog: Example Airside Ops I

Indicador	Mês	YTD	Meta	Mês	Ano
Time to couple the boarding bridge (ARR)	94,1%	96,9%	95,0%	⬇️	●
Tempo de desacoplagem da ponte de embarque	99,7%	99,6%	95,0%	⬆️	●
Disponibilidade de fiscal de pátio	98,0%	97,0%	90,0%	⬆️	●
Disponibilidade de equipamentos das ESATAS	100,0%	99,8%	90,0%	⬆️	●
Disponibilidade de ônibus para embarque	94,8%	94,4%	90,0%	⬇️	●
Disponibilidade de ônibus para desembarque	95,5%	95,4%	90,0%	⬇️	●
Tempo médio de restituição da 1º bagagem em ponte - Doméstico	00:10:06	00:09:07	00:09:00	⬇️	🔴
Tempo médio de restituição da última bagagem em ponte - Doméstico	00:18:15	00:16:51	00:19:00	⬇️	●
Tempo médio de restituição da 1º bagagem em remota - Doméstico	00:14:16	00:11:57	00:12:00	⬇️	●
Tempo médio de restituição da última bagagem em remota - Doméstico	00:18:23	00:15:20	00:22:00	⬇️	●
Tempo médio de restituição da 1º bagagem em ponte - Internacional ANV CAT C	00:09:04	00:08:52	00:15:00	⬇️	●
Tempo médio de restituição da última bagagem em ponte - Internacional ANV CAT C	00:21:35	00:20:59	00:25:00	⬇️	●
Tempo médio de restituição da 1º bagagem em ponte- Internacional ANV CAT D - E	00:12:07	00:09:30	00:15:00	⬇️	●
Tempo médio de restituição da última bagagem em ponte - Internacional ANV CAT D - E	00:37:12	00:36:53	00:40:00	⬇️	●
Colisões entre veículos e equipamentos (Ocorrências de Solo)	0,011%	0,002%	0,002%	●	●
Colisões entre veículos, equipamentos e aeronaves (Ocorrências de Rampa)	0,000%	0,003%	0,005%	⬇️	●

 Acima da meta e
tendência positiva

 Acima da meta e
tendência negativa

ND Não disponível

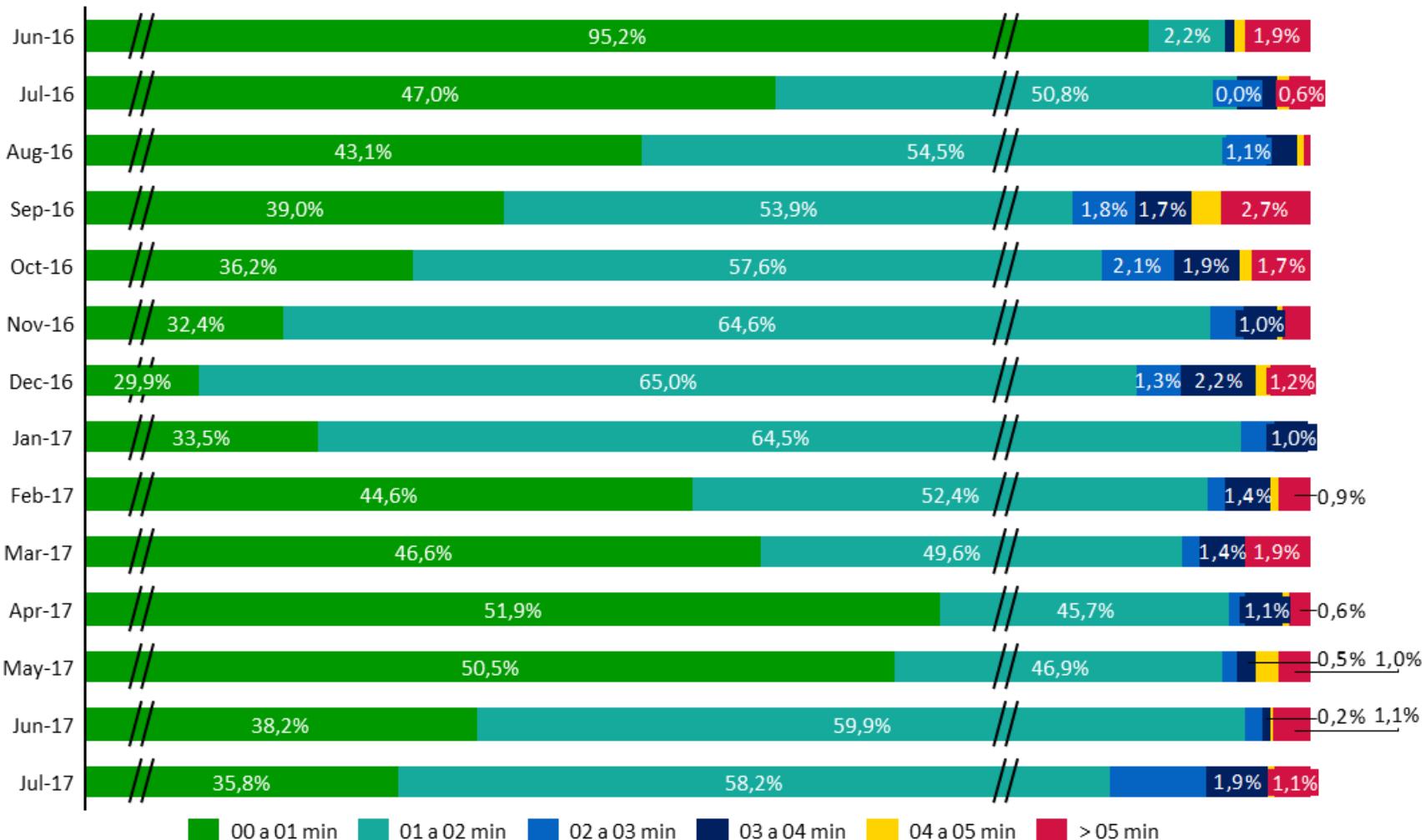
 Abaixo da meta e
tendência positiva

 Abaixo da meta e
tendência negativa

NA Não aplicável

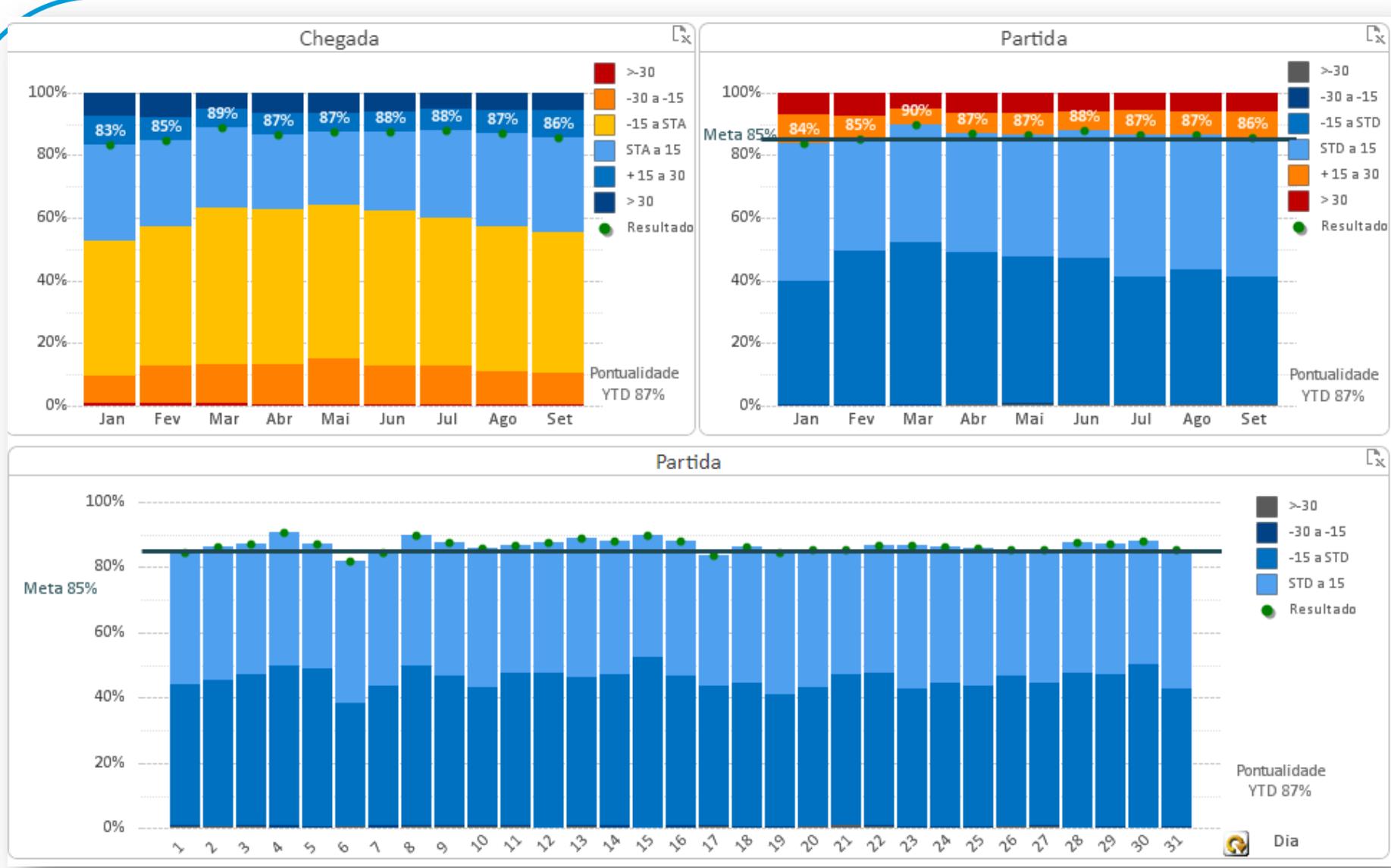
B) Performance Dialog: Example Airside Ops II

Time to couple aerobridge (ARR)





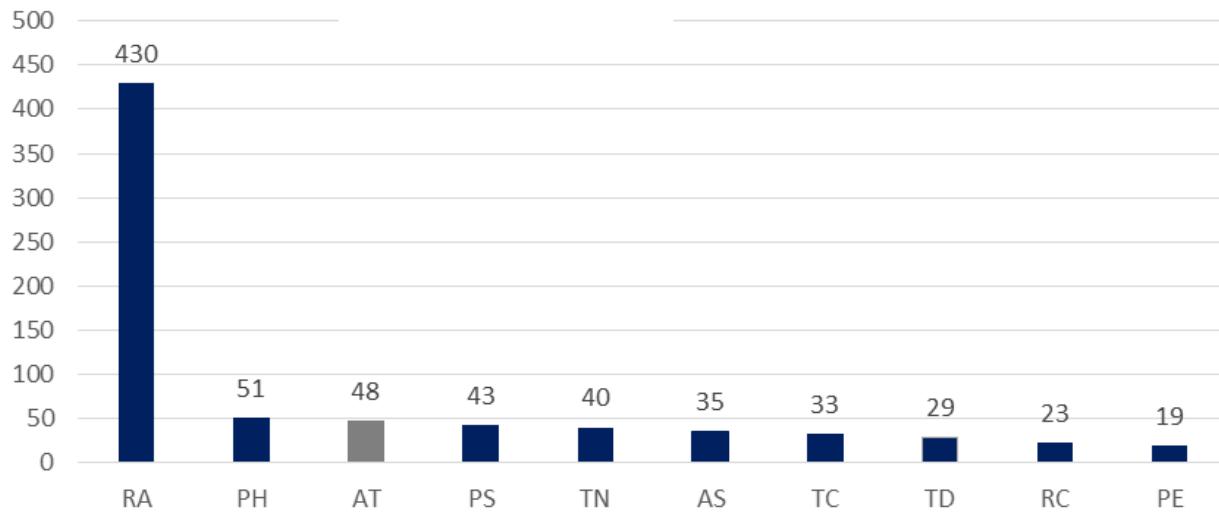
Punctuality – Key indicator for efficiency is monitored daily, monthly and annually



Delay Code Analysis (Ex CNF)

Atrasos por tipo

7



RA	Trilho da aeronave	AS	Segurança Mandatoria
PH	Embarque, discrepâncias, passageiro com check-in perdido	TC	Troca de aeronave, por motivos técnicos
AT	Ger. fluxo de traf. devido demanda/capac. do contr. de traf. aer	TD	Defeitos na aeronave
PS	Embarque PNAE	RC	Escala de tripulação
TN	Manutenção não programada	PE	Check-in erroneo

Analysis of repeatedly delay flights

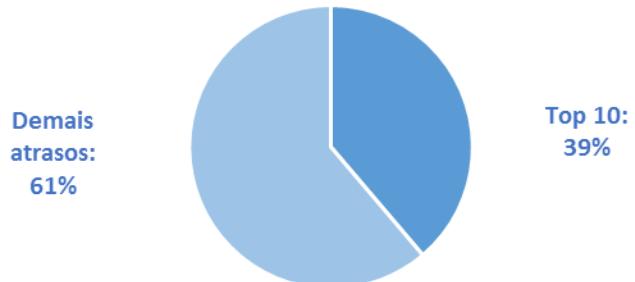
Delay Arrival

Voo	Atrasos	Oper.	% atrasos
AD5045	9	11	81,8%
AD4251	5	10	50,0%
AD4423	4	10	40,0%
AD9286	3	8	37,5%
AD2465	3	8	37,5%
AD2529	4	13	30,8%
AD6417	3	10	30,0%
AD2581	3	10	30,0%
AD2816	2	8	25,0%
AD4217	2	10	20,0%

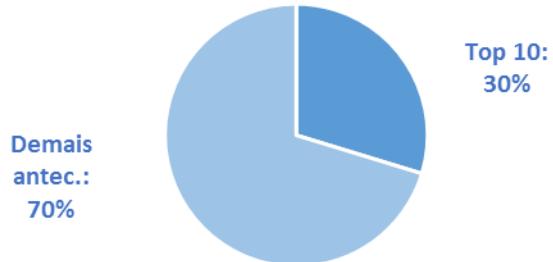
Early Arrival

Voo	Antec.	Oper.	% antec.
AD2410	11	13	84,6%
AD5702	8	10	80,0%
AD5251	4	7	57,1%
AD8761	9	16	56,3%
AD4951	6	11	54,5%
AD2456	6	12	50,0%
AD2557	6	12	50,0%
AD4421	5	10	50,0%
AD5759	3	6	50,0%
AD2678	5	11	45,5%

ARR ATRASADAS AZUL



ARR ANTECIPADAS AZUL



Delay Code Analysis (Ex BLR)

Delay contributors	Delay in mins- Mar 2012	Delay in mins- Apr. 2012	Difference
16-passenger inconvenience	347	286	Marginal Decrease
32-loading/unloading	411	349	Marginal Decrease
41-aircraft defects	724	4644	Major Increase
43-Non Schedule Maintenance	47	297	Major Increase
46-aircraft change	123	553	Major increase
63-departure procedures/late crew boarding	603	513	Marginal Decrease
64-flight deck crew shortage	414	27	Major Decrease
72-destination station - below ops limit	11	327	Major Increase
88-Restrictions at Destination Airport	8	529	Major Increase
91-Load connection	153	395	Major Increase
93-aircraft rotation	22479	28783	Major increase
95 - Crew Rotation	1130	524	Major Decrease
96-operation control	6799	5771	Major Decrease

CNF: Most Punctual Brazilian Airport 2016

- And 4 most punctual world-wide

Published: January 2017

OAG Punctuality League – Annual on-time performance results for airlines and airports

Airports: medium category
5–10m departing seats per annum

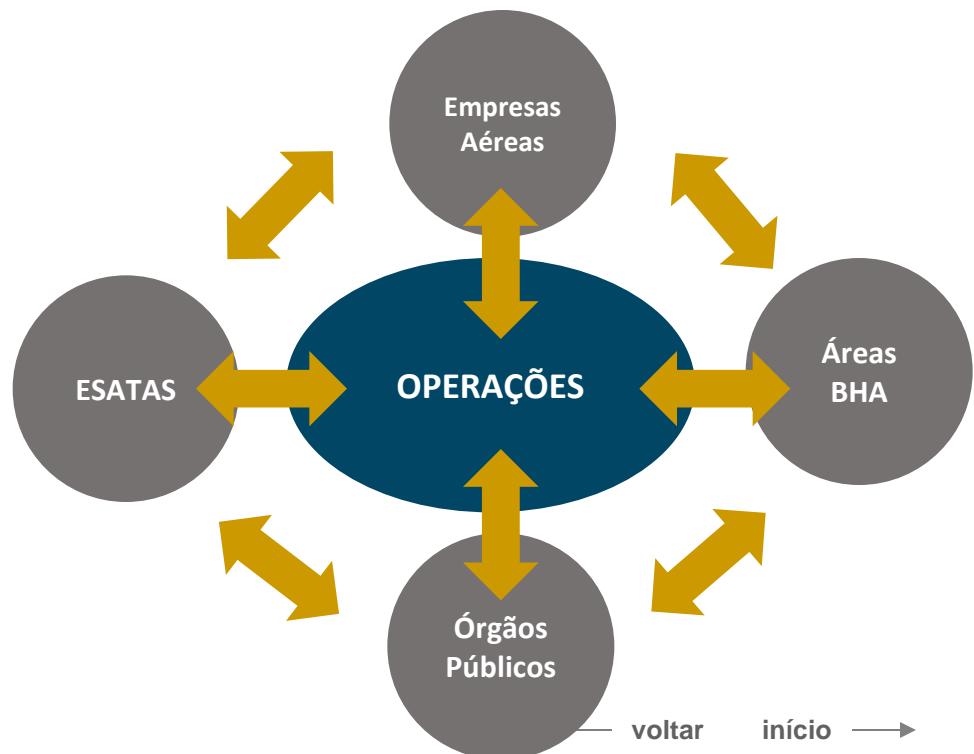
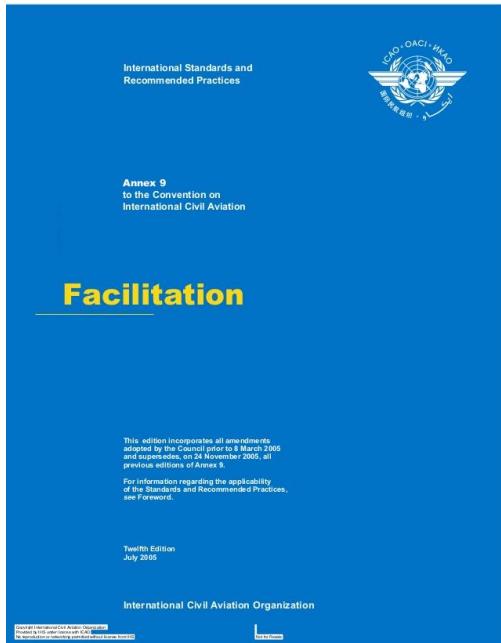
Table 9: Top 20 medium airports by OTP

Rank	Coverage	Name	Airport Code	OTP 2016
1	97.1%	Birmingham	BHX	91.28%
2	94.4%	Osaka	ITM	89.68%
3	95.7%	Panama City	PTY	89.56%
4	85.4%	Belo Horizonte	CNF	88.49%



C) Facilitation Meeting

1. Promote the continuous improvement of Airport Operations and Customer service:
 - a. Performance Monitoring (Punctuality, Baggage Delivery, Resource allocation);
 - b. Specific Working groups



3. A-CDM Culture



A-CDM (Project) Team Events



Table for Collaborative Decision Making



Picture: Courtesy Kempegowda International Airport, Bengaluru

Creating an Identity



A-CDM
BRU





HELSINKI-VANTAA AIRPORT CDM (AIRPORT COLLABORATIVE DECISION MAKING) PROJECT, MEMORANDUM OF UNDERSTANDING

1. PARTIES

Ilmailulaitos - Finavia Helsinki-Vantaa airport P.L. 29 01531 Vantaa	Finnair Oyj
SAS / Blue1	Finnish Commuter Airlines Oy
Northport Oy	Oy Nordic Airport Services Ab
Airpro Oy	Servisair Finland Oy
Inter Handling Oy	Oy Air Finland Ltd

2. BACKGROUND

Helsinki-Vantaa Airport in collaboration with EUROCONTROL and a variety of companies operating at Helsinki-Vantaa completed two of the four phases of CDM concept between years 2002 and 2004. Since the project initially ceased in the end of 2003 the CDM concept has developed well ahead and some airports around Europe have implemented it into daily operational use.

A wide scale of operational analyses was carried out 2002-2003 and a first model of turn-round process (milestone approach) was generated. As the high fuel price, other economical issues and the environment aspects require further enhancements to the ATC procedures, airport operations and to the airline and de-icing/handling company operations itself Finavia Helsinki-Vantaa has decided to implement the CDM concept to Helsinki-Vantaa airport during the next two years.

Possible Content of an ACDM MOU

- 1) Description of the project
- 2) Objectives of the MoU
- 3) Partners obligations
- 4) Organisation
- 5) Costs
- 6) Responsibilities of partners providing data
- 7) Confidentiality
- 8) Dispute resolution
- 9) Amendments
- 10) Signatures of contracting partners

4. Local Realities

- Culture of collaboration (APOC, Meetings, Dialog)
- Availability of flight data and positive attitude towards data sharing
- Stability of Turnaround Process to predict flight readiness
- IT Integration and Support
- Willingness to make investments (systems, manpower, infrastructure, time, training)
- Urgency of operational and network challenges
- Type of Airport/Airline Operation (Hub, O/D, Regional)

Summary

A-CDM is:

- ✓ An important cultural change
- ✓ Bringing benefits to Airlines, Airports, ATM & ATM network
- ✓ Harmonization of data
- ✓ Continuous operational improvements

A-CDM is not:

- Doing things the old way
- Implementing a new system
- An obligation to share commercially sensitive data
- Only providing financial benefits

A culture of collaboration and joint decision making (e.g. through APOC) and measuring of the airport performance (KPIs) are the basis for a successful A-CDM implementation.

Aeroporto Internacional de Belo Horizonte

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