





HOW TO BEST ESTABLISH EFFICIENT DEMAND-BASED ATCO POSTERING

FLEMMING NYTUP

Senior atm advisor maastricht atm knowledge centre

A MAKC Production

Pre-QUIZZ













customer orientation



culture & communication

STAFF resourcing

resilience

environment

safety

capacity

COST EFFICIENCY

























GUIDELINES ON FATIGUE MANAGEMENT IN ATC ROSTERING SYSTEMS



INTERNATIONAL FEDERATION OF AIR TRAFFIC CONTROLLERS' ASSOCIATIONS

15 - 19 April 2024, Singspore

Agenda Item: C.6.5 WORKING PAPER WP No: 156 IFATCA'24



Study on the Analysis, **Prevention and Management of** Air Traffic Controller Fatigue May 2024



Doc 9966



Aprellade por la Terraturia Deservir pullicanti bajo su responsabilitad

ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL.

EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION



No financia a based or \$4.00 between Basels. The course are not menting. They prompt attenues and equipments or may believe bed prompt.

Managing Shiftwork in European ATM: Literature Review

EUROPEAN AIR TRAFFIC MANAGEMENT









CHarter

create a sustainable, Healthy, Flexible and efficient demand based roster

Trade structural inefficiency for less working days / Better working conditions







Pretact Executed Comparison

Planning

Pretact

Executed

Shifts: 34 Wrkld: 100,0h

18

S016 S016 S016 S016 S016

5017 5017 5017

S018 S018 S018

S019 S019 S019

OCC OCC SO29

OEC 5024

LCC LCC

LEC LEC

KCC KCC

KEC

S020 S020 S020 S020 NEC NEC NEC

OEC OEC 5028 5028 5028 5028 NCC

NEC NEC NEC NEC 5021 5021 5021

LCC LCC LCC S030 S030 S030

KEC

S023 S023 S023 S023 LCC

OEC OEC 5026 5026 5026 5026 NCC NCC NCC NCC 5026

S029 S029 OCC OCC

5027 5027 5027 5027

NCC NCC S018 S018 S018 S018 S018 S018

S028 S028 S028 S028 S028 S028 OEC OEC

S021 S021 S021 S021 S021 S021 S021 S021

5030 5030 5030 5030 5030 5030 5030

S026 S026 OEC OEC

S029 S029 OCC OCC

S020 S020 S020 S020

S023 S023 S023 S023

OCC OCC 5019 S019 S019 S019 S019 LEC LEC LEC LEC

S024 S024 NCC NCC NCC NCC S024 S024 S024 S024 OEC OEC

OCC OCC S029 S029

NEC NEC NEC NEC

LEC LEC

5022 5022 5022 5022 5022 5022 NCC NCC NCC NCC S022 5022 5022 5022 OEC

5025 S025 S025 S025 S025 S025 OCC OCC OCC S025 S025 S025 S025 OCC

3.1

5

3.1

3.1

5

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0/0	5004 - NM	75																			0,000		7
0/0	S006 - M1	180	5006	5006	5006	5006	5006	5006	5006	5006	5006	S006											
0/0	5009 - M1	150	NEC	NEC	5009	5009	5009	5009	5009	5009	5009	5009											
0/0	5013 - M1	120	5013	5013	5013	5013	5013	5013	NEC	NEC	NEC	NEC											
0/0	5015 - M1	120	S015	5015	5015	5015	occ	occ	occ	occ	S015	5015											
0/0	S007 - M1	150	5007	5007	NEC	NEC	NEC	NEC	S007	5007	S007	5007											
0/0	S008 - M1	180	5008	5008	5008	5008	5008	5008	5008	5008	8008	5008											
0/0	S010 - M1	180	5010	5010	5010	5010	5010	5010	5010	5010	5010	5010											
0/0	5011 - M1	180	5011	5011	5011	5011	5011	5011	5011	5011	5011	5011											
0/0	S012 - M1	150	OCC	occ	occ	occ	5012	5012	5012	5012	5012	5012											
0/0	S014 - M1	150	5014	5014	5014	5014	NCC	NCC	NCC	NCC	5014	5014	11										
0/0	S005 - M1	150	5005	5005	5005	5005	OEC	OEC	OEC	OEC	S005	5005	1										
0/0	5016 - SM	195	LCC	LCC	LCC	LCC	5016	S016	5016	5016	S016	5016	NEC	NEC	NEC	NEC	5016	5016	S016	S016	5016	S016	
0/0	S017 - SM	135	NCC	NCC	NCC	NCC	S017	S017	S017	5017	OEC	OEC	OEC	OEC	5017	S017	5017	5017	5017	5017	KCC	KCC	

S018 S018 S018 S018 NCC

OEC OEC 5019 S019 S019 OCC OCC

0/0 S018 - SM

0/0 S029 - A1

0/0 S020 - A1

0/0 5022 - A1

0/0 S025 - A1

0/0 S028 - A1

0/0 S031 - NE

S024 - A1

S026 - A1

S023 - A1

S027 - A1

5021 - A1

S030 - A1

S019 - SM 135

135

180

180

180

180

180

180

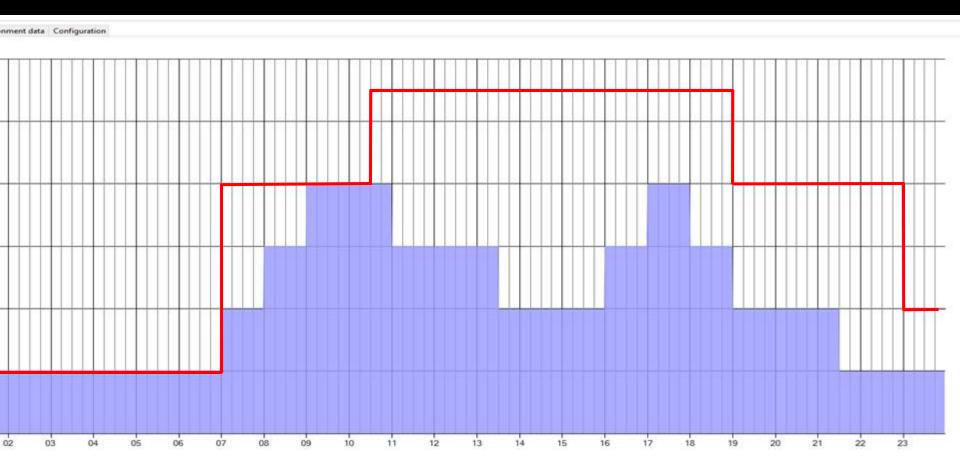
150

180

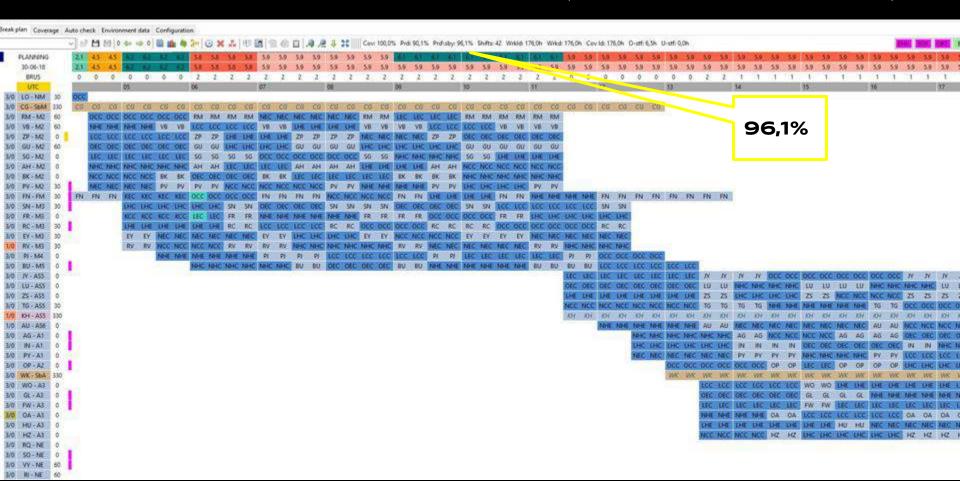
180

240

STructural Inefficiency



STructural efficiency (real example)





Preferred





(r)evolution

- Problem solved?
- new problems?
- adjustments?

ALIE OU

Problem

WORK PACKAGE MODULES

WP 1: POST OPS

WP 2: Capacity management

WP 3: resource management

WP 4: Performance management

WP 5: SUPPORT TOOLS

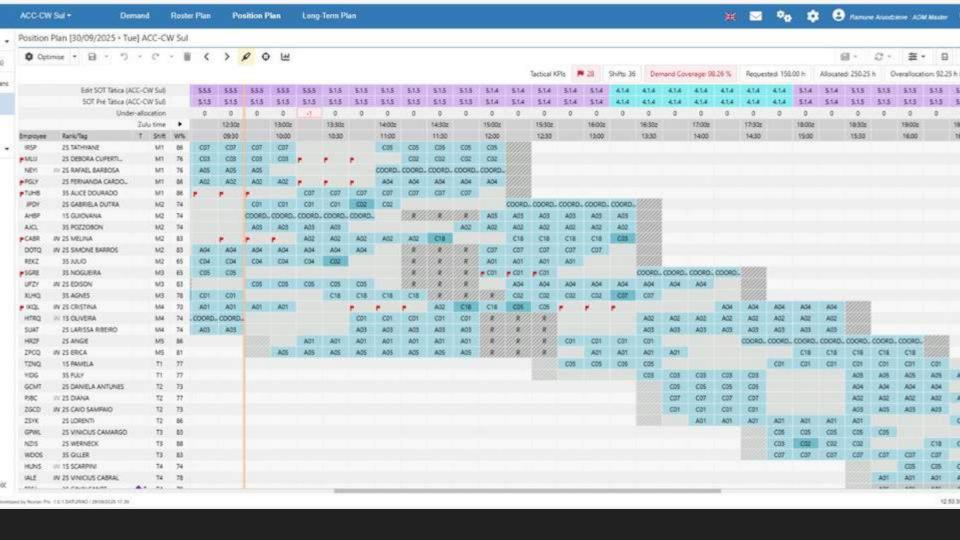
SHIFTING ATM





- OPS POSTER TOOL
- POSITION PLANNER
- Long Term Planning
- preference tool
- preplanner
- SIGN-IN/SIGN-OUT
- SWAP TOOL
- medical planner
- eBrief Tool
- CONTROLLER COCKPIT



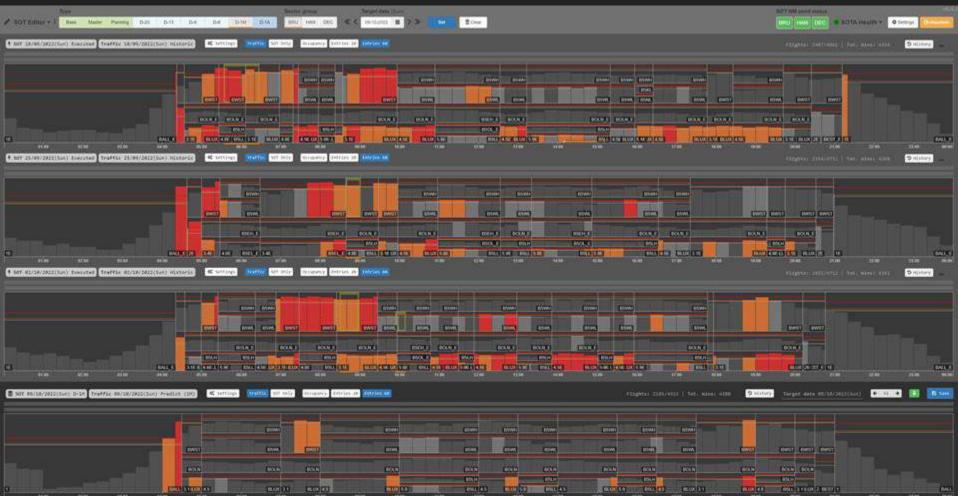


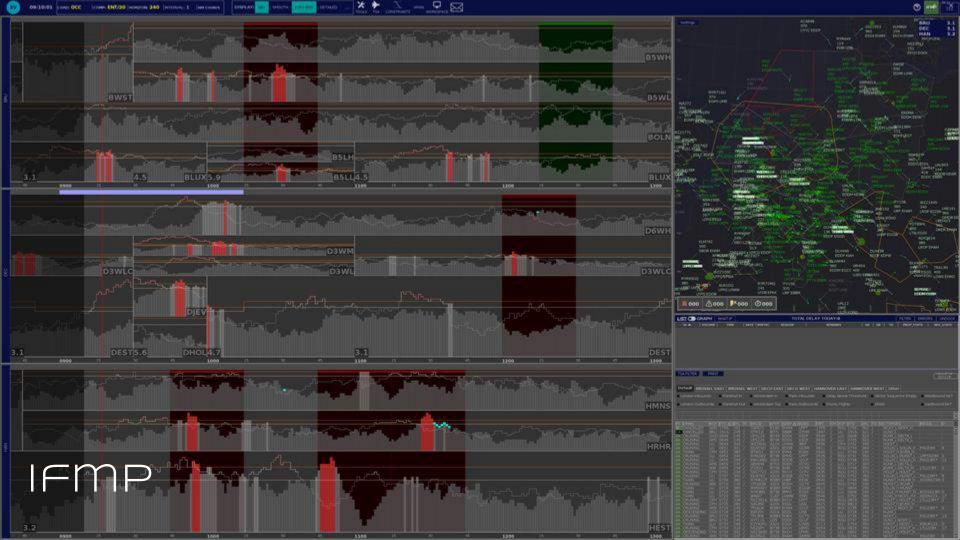




SAIT BRIDE

sota





customer orientation



culture & communication

STAFF resourcing

resilience

environment

safety

capacity

COST EFFICIENCY

culture

eats

STrategy

FOr Breakfast





Pre-Quizz

