



# TEST of Summer Weekend Runway Alternation – FINAL Results

6<sup>th</sup> December 2018 – CENAC  
MEETING

Nick Boud

# content

**1. Objectives & concept**

**2. Operational Analysis**

**3. Community Engagement & Post-Test**

**Survey**

**4. Conclusions & Next Steps**





# Objectives & Concept

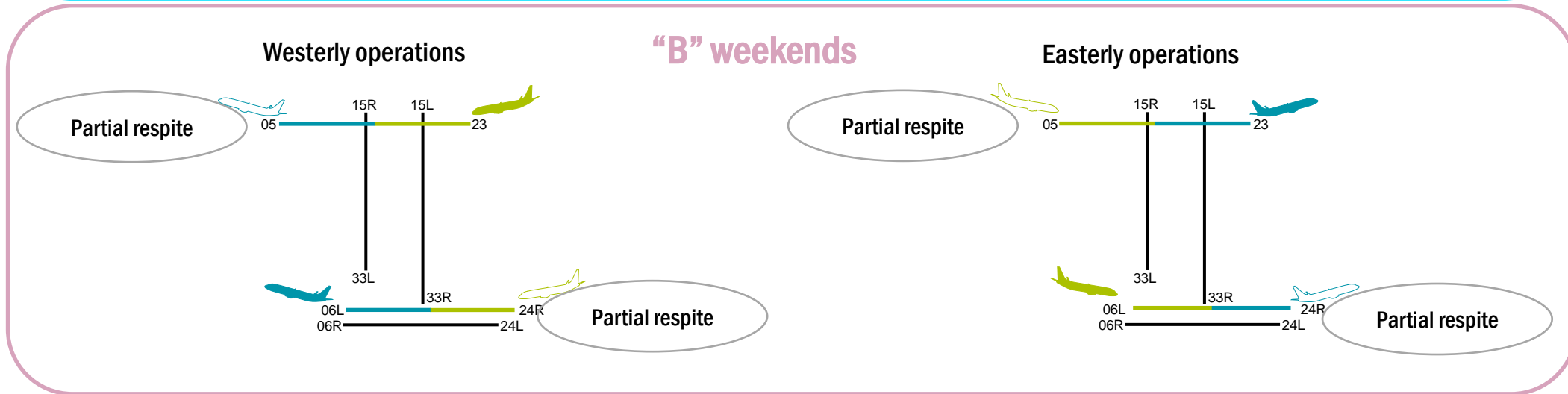
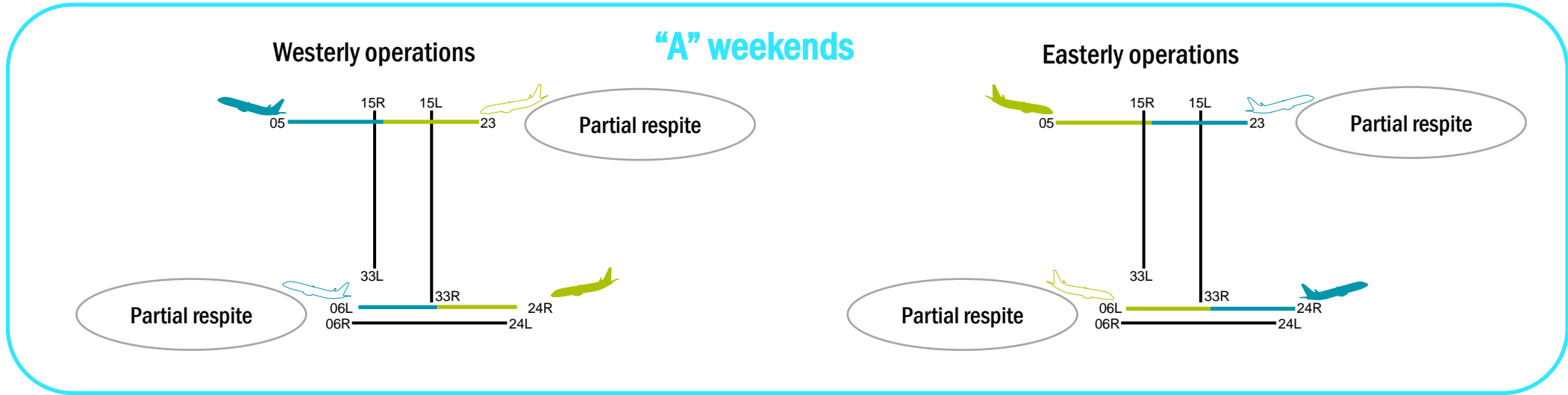


# Objectives of Test

- **Allow community members to provide informed feedback on their experience during the testing.**
- **To validate the anticipated benefits to communities, such as the actual levels of respite achievable.**
- **Enable all operational stakeholders to test, evaluate and learn**

# Concept

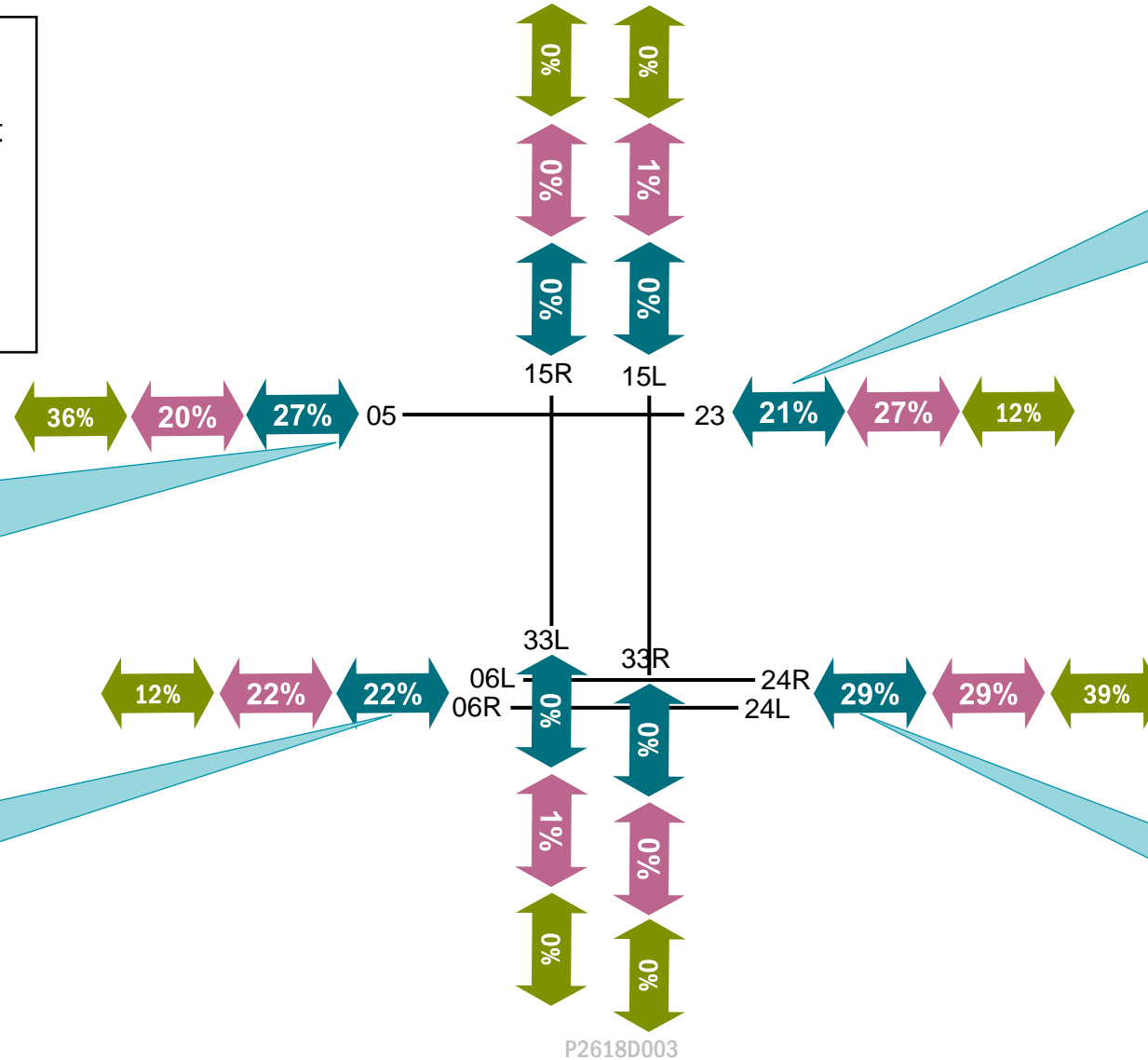
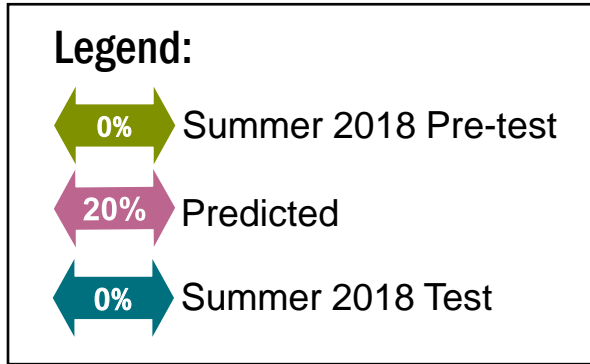
-  Primary departure direction
-  Primary arrival direction
-  Overflow for departure demand
-  Overflow for arrival demand



# Operational Performance



# Distribution of traffic by "Quadrant" – All Weekends



9% less traffic than normal  
7% higher than predicted

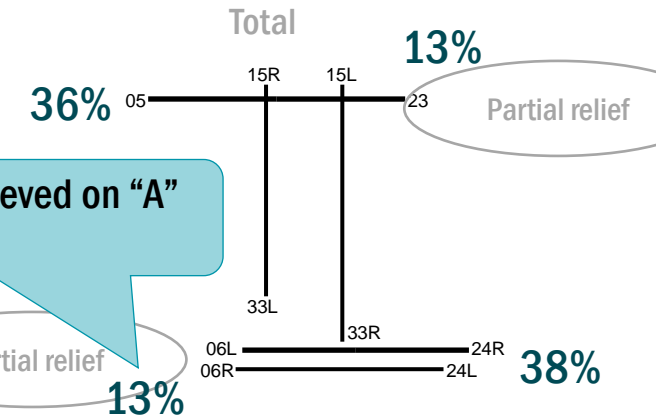
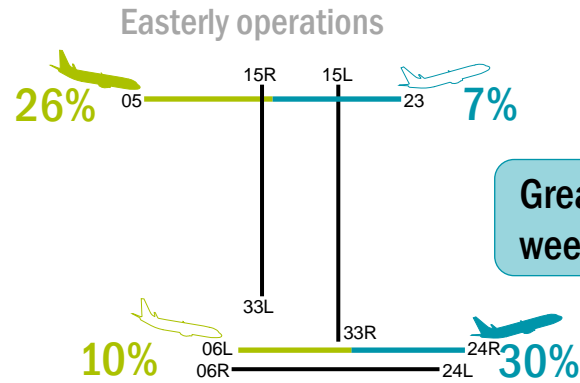
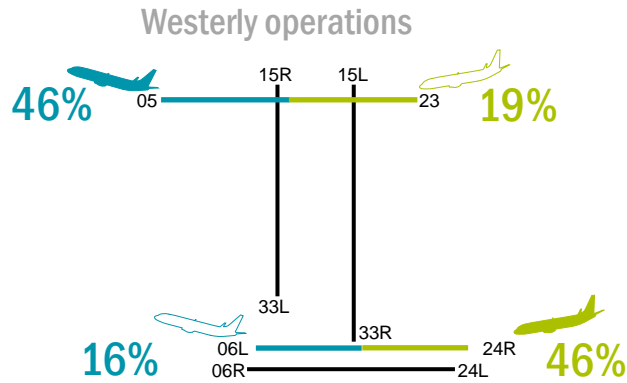
Increased traffic, 12% up to 22%

9% more traffic than normal  
6% lower than predicted

Reduced traffic, 39% down to 29%

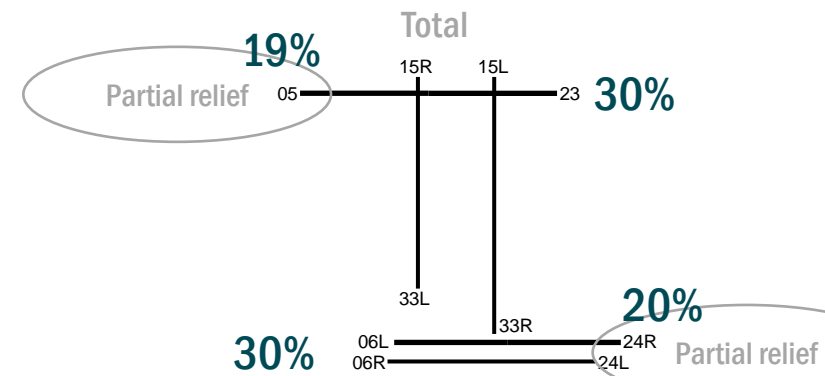
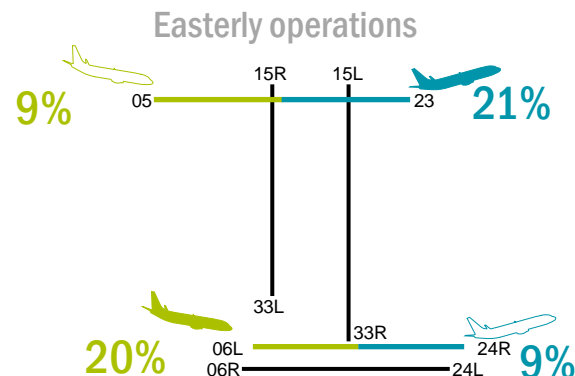
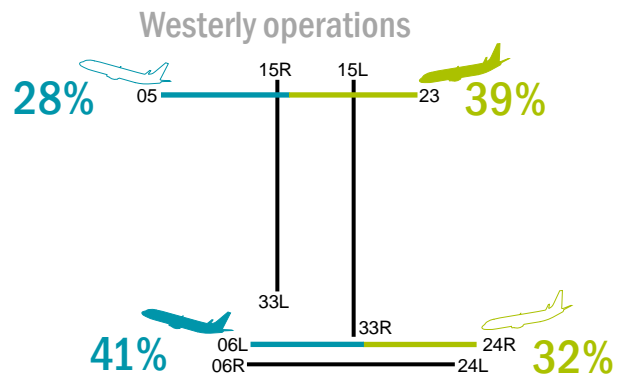
# Compliance by Weekend & Operating Direction

## "A" weekends



Greater respite achieved on "A" weekends than "B"

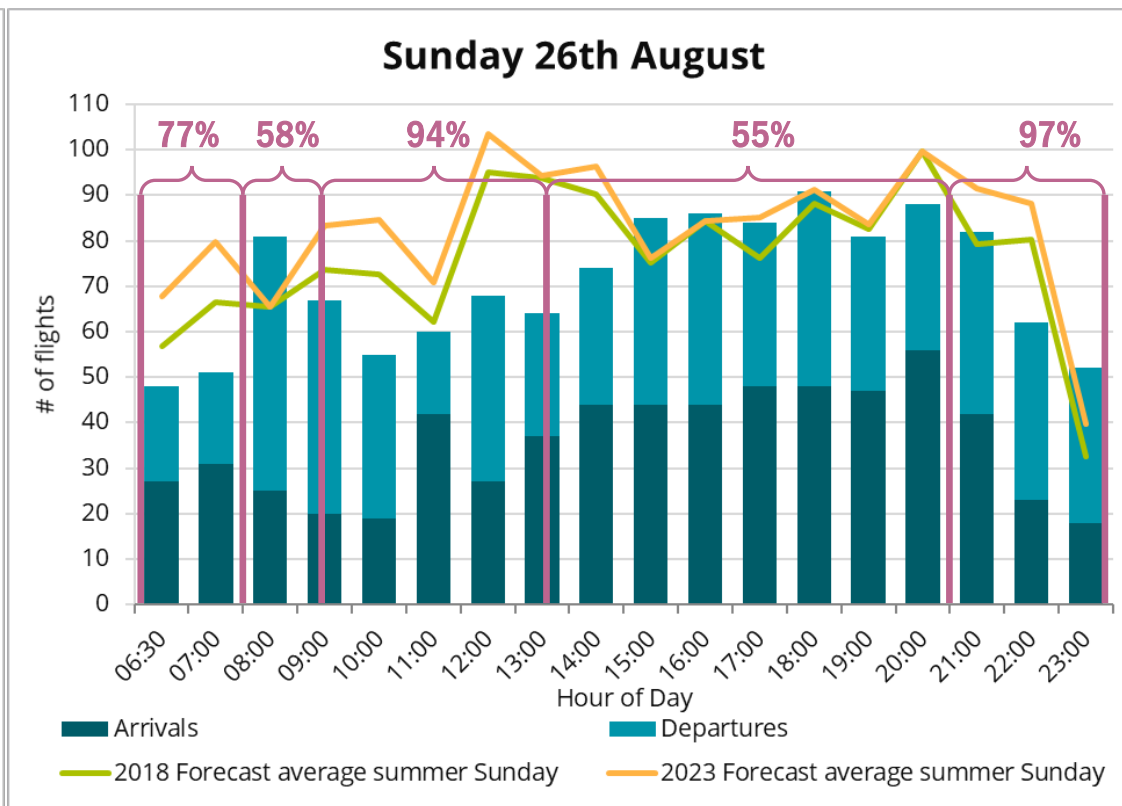
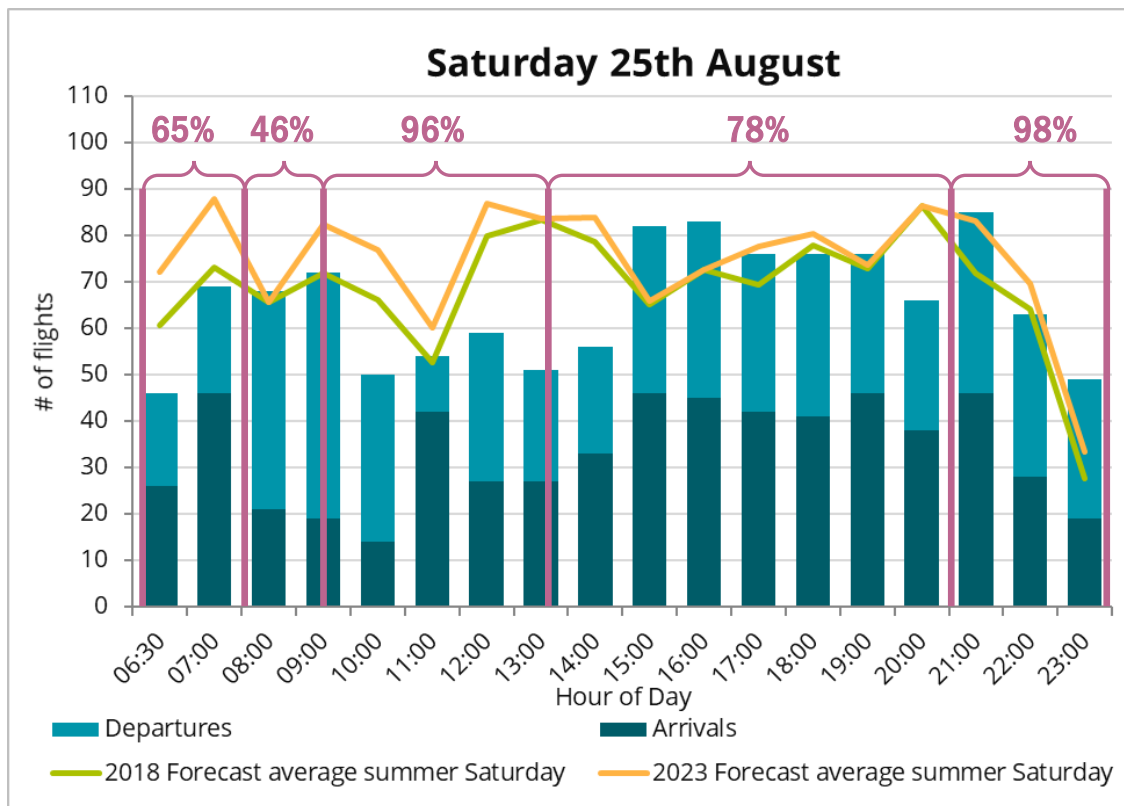
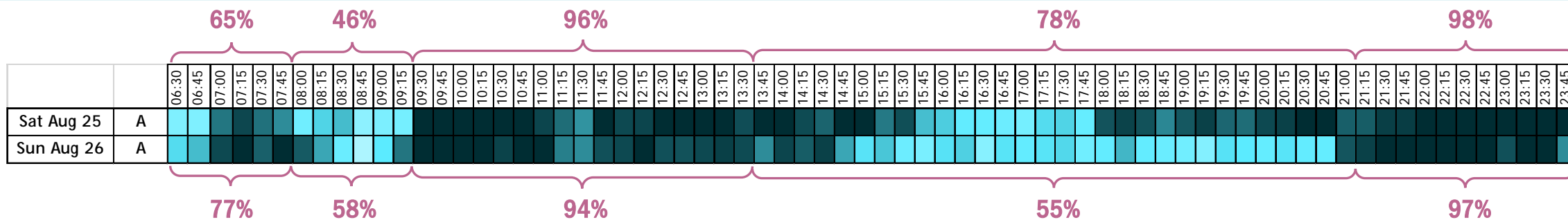
## "B" weekends







# Actual Demand vs Predicted – Example Weekend



# Factors that Influence Compliance

- **Limited timeframe to implement a significant operational change**
- **Change was for a temporary period of time**
- **Operational test commenced during peak summer**
- **Weather**
- **Planning & time to safely switch runway operating modes**
- **Afternoon traffic levels**

# Noise Events

- Variable compliance means we have to look at specific time intervals to get data that is representative of planned runway operation

## "A" Weekends, from 06:30 to 09:29

		06:30	06:45	07:00	07:15	07:30	07:45	08:00	08:15	08:30	08:45	09:00	09:15	
Sat July 28	A	█	█	█	█	█	█	█	█	█	█	█	█	73%
Sun July 29	A	█	█	█	█	█	█	█	█	█	█	█	█	
Sat Aug 11	A	█	█	█	█	█	█	█	█	█	█	█	█	77%
Sun Aug 12	A	█	█	█	█	█	█	█	█	█	█	█	█	
Sat Aug 25	A	█	█	█	█	█	█	█	█	█	█	█	█	61%
Sun Aug 26	A	█	█	█	█	█	█	█	█	█	█	█	█	
Sat Sep 8	A	█	█	█	█	█	█	█	█	█	█	█	█	96%
Sun Sep 9	A	█	█	█	█	█	█	█	█	█	█	█	█	

## Number of noise events > 70dB

North East - West Humber Collegiate Institute		06:30 - 07:59	08:00 - 09:29
Group A	28th - 29th Jul	19	18
Group A	11th - 12th Aug	9	19
Group A	25th - 26th Aug	38	25
Group A	8th - 9th Sep	-	-
South West - Braeburn Golf Course		06:30 - 07:59	08:00 - 09:29
Group A	28th - 29th Jul	-	32
Group A	11th - 12th Aug	12	-
Group A	25th - 26th Aug	6	37
Group A	8th - 9th Sep	3	-



# Community Engagement & Post-Test Feedback

# Engagement Objectives

- **Inform residents within the target respite areas of the program and how it works**
- **Encourage and enable residents to provide feedback**
- **Learn if the respite provided was meaningful and predictable**
- **Verify anticipated benefits to communities**

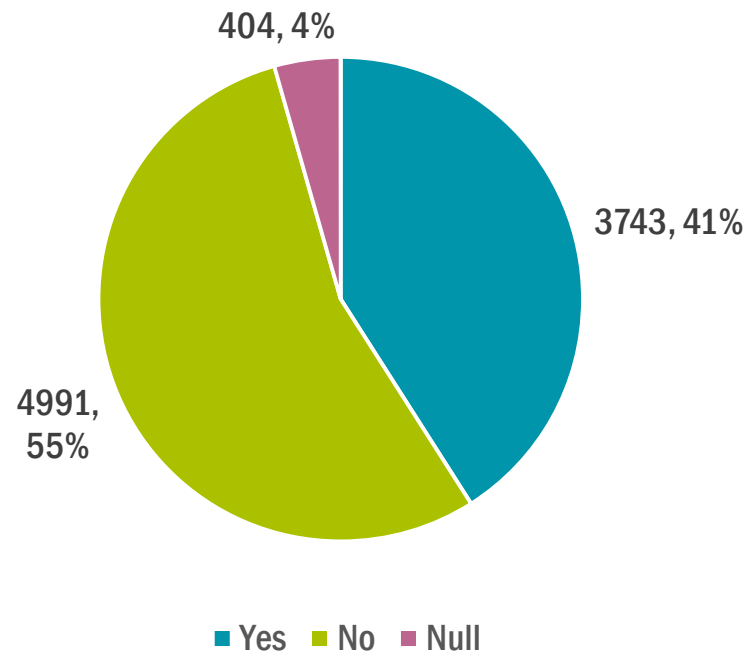
# Communications

Pre-Test	During the Test	Post-Test
<ul style="list-style-type: none"><li>• Dedicated webpages</li><li>• Print Ads (full page, colour)</li><li>• Automated phone calls</li><li>• Social Media</li><li>• Checking In e-newsletter</li><li>• Email to engaged residents</li><li>• Elected officials briefings</li></ul>	<ul style="list-style-type: none"><li>• Feedback accepted through the online feedback form, emails, emails, and phone calls</li><li>• Continued social media posts</li><li>• Checking In e-newsletter</li><li>• Mid-point web update and emails to emails to respondents</li></ul>	<ul style="list-style-type: none"><li>• Web update</li><li>• Emails to Elected officials and engaged residents</li><li>• Checking In e-newsletter</li><li>• Survey: Sept 24 – Oct 9</li><li>• Phone surveys (8,500+ respondents)</li><li>• Online survey (500+ respondents)</li></ul>

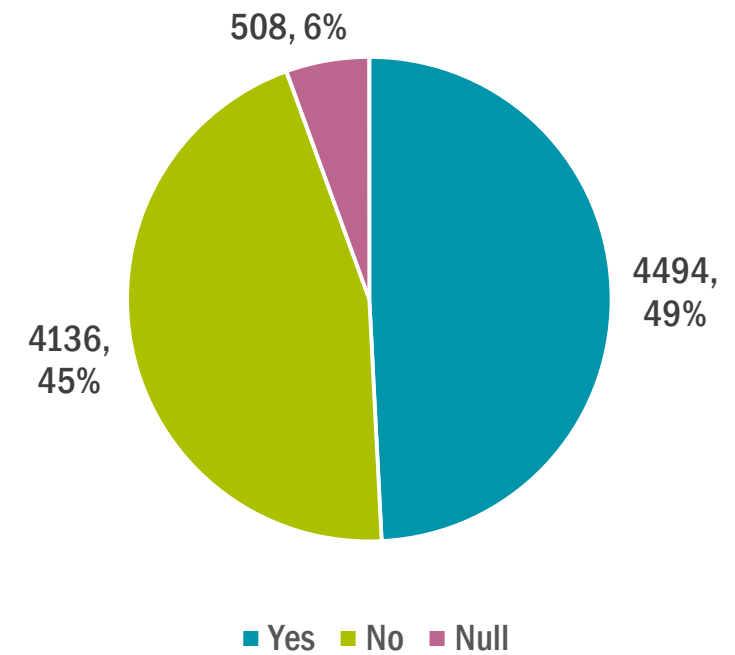
# Post-Test Survey



Did you know about the test?



Did you notice a difference weekend to weekend

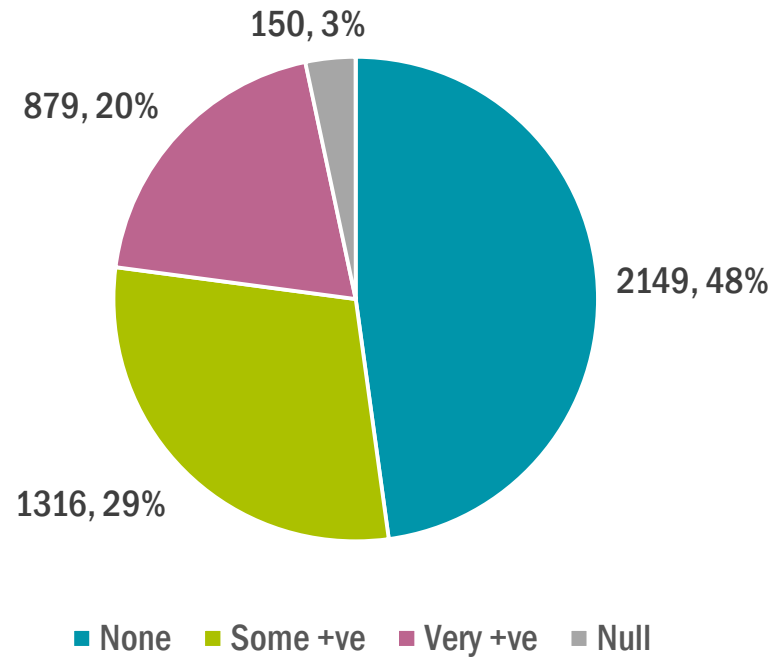




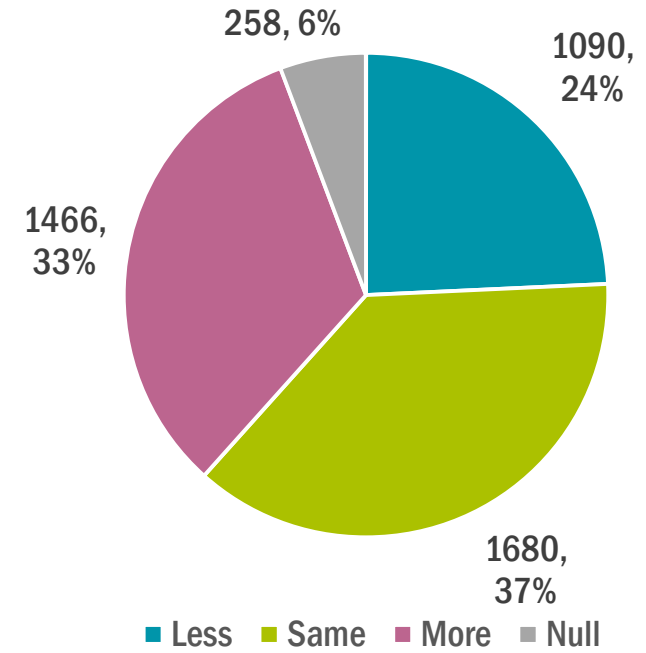
# Post-Test Survey – If you noticed a difference then:

Number of respondents that noticed a difference  
**4,494**

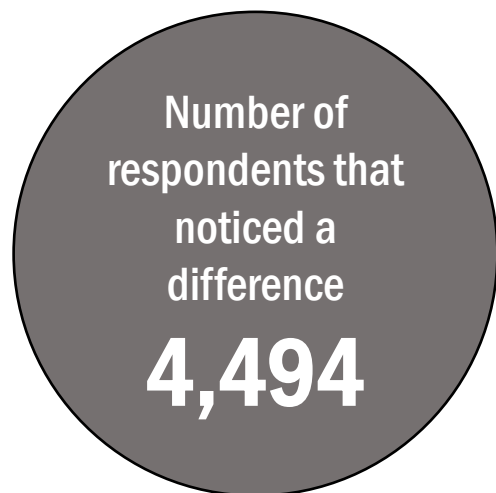
Did a relief weekend have an effect on your ability to enjoy the weekend?



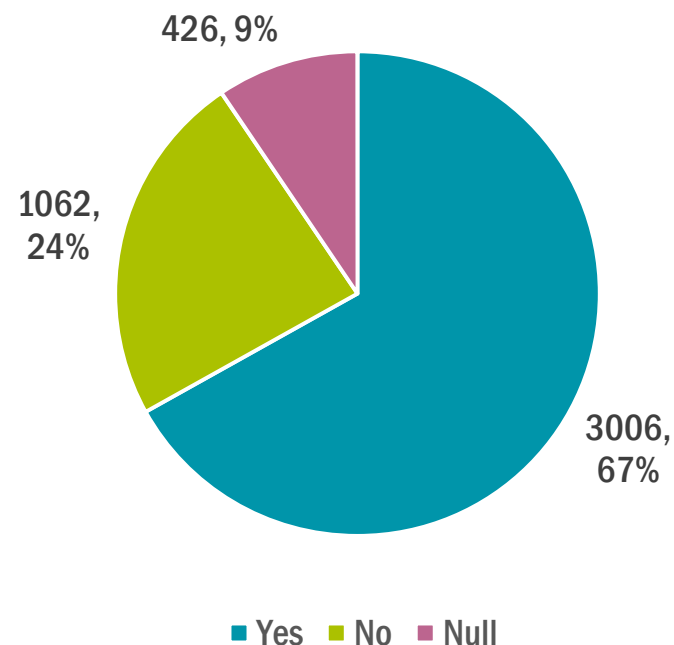
Did a non-relief weekend feel more impactful than a regular weekend?



# Post-Test Survey – If you noticed a difference then:



Would you support an annual weekend runway alternation program?



# Post-Test Survey

- **Less than 50% of those responding to the survey were aware of the test.**
- **Evenly split were those who**
  - noticed a change and those who did not
  - perceived a positive effect and those who did not
- **More respondents noticed no difference during non-respite weekends (37%), while more people felt they were more impactful (33%) than less impactful (24%). Overall 61% felt that they were at least the same or less impactful.**
- **Three quarters (67%) of those who noticed a difference supported an annual program.**



# Conclusions & Next Steps

# Analysis Conclusions

- **Respite is possible during the weekend mornings & late evenings**
- **There is scope to improve the level & consistency of respite provision**
- **Respite is only consistently achievable during lower traffic levels**
- **When compliance is high, the number of noise events in respite areas is minimal**
- **Community supports a trial for a full summer (May to Oct inc.).**
- **8 weekends is too short to optimise a new operation but was sufficient to meet the objectives of the test.**

# Next Steps

- **GTAA to assess growth in weekend traffic levels in Summer 2019 over Summer 2018**
- **GTAA to commence operational planning with all industry stakeholder for a weekend runway alternation trial for Summer 2019**
- **GTAA to develop stakeholder communication and feedback strategy**

Nick Boud  
Principal Consultant



29 Hercules Way  
Aerospace Boulevard AeroPark  
Farnborough | Hampshire  
GU14 6UU | UK  
Tel: +44 1252 451 651  
[www.askhelios.com](http://www.askhelios.com)

P2618D003

an  egis company