

PowerPoint Presentation Outline

- Date : 8th May 2019 (Wednesday)
Event : ICAO Seminar on Green Airports
Topic : HKIA "airport-wide" carbon reduction programme
Presented by : Mike Kilburn
Audience : Environmental managers of airports worldwide

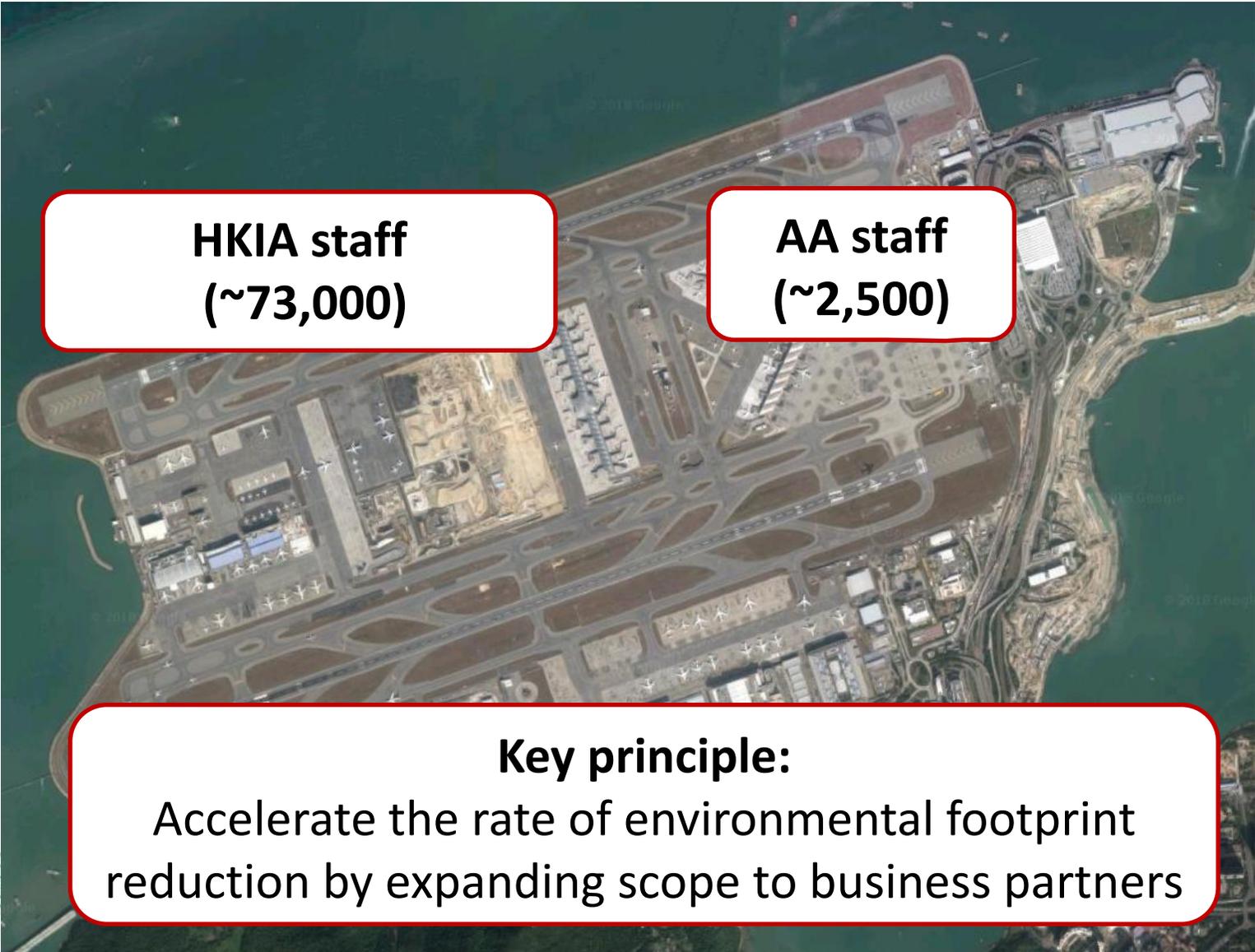


“Airport-wide” Carbon Management at Hong Kong International Airport

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“Airport-wide” approach at HKIA



HKIA staff
(~73,000)

AA staff
(~2,500)

Key principle:

Accelerate the rate of environmental footprint reduction by expanding scope to business partners

Principles for “airport-wide” carbon reduction programme



HKIA's carbon roadmap

Continuous Investment

2010

25% carbon
reduction
pledge

2011

Online
Carbon
Audit
System

2012-16

Achieved
ACI-ACA
Level 3

2015

Achieved
2010 pledge

2015-16

New carbon
target &
strategies

2016+

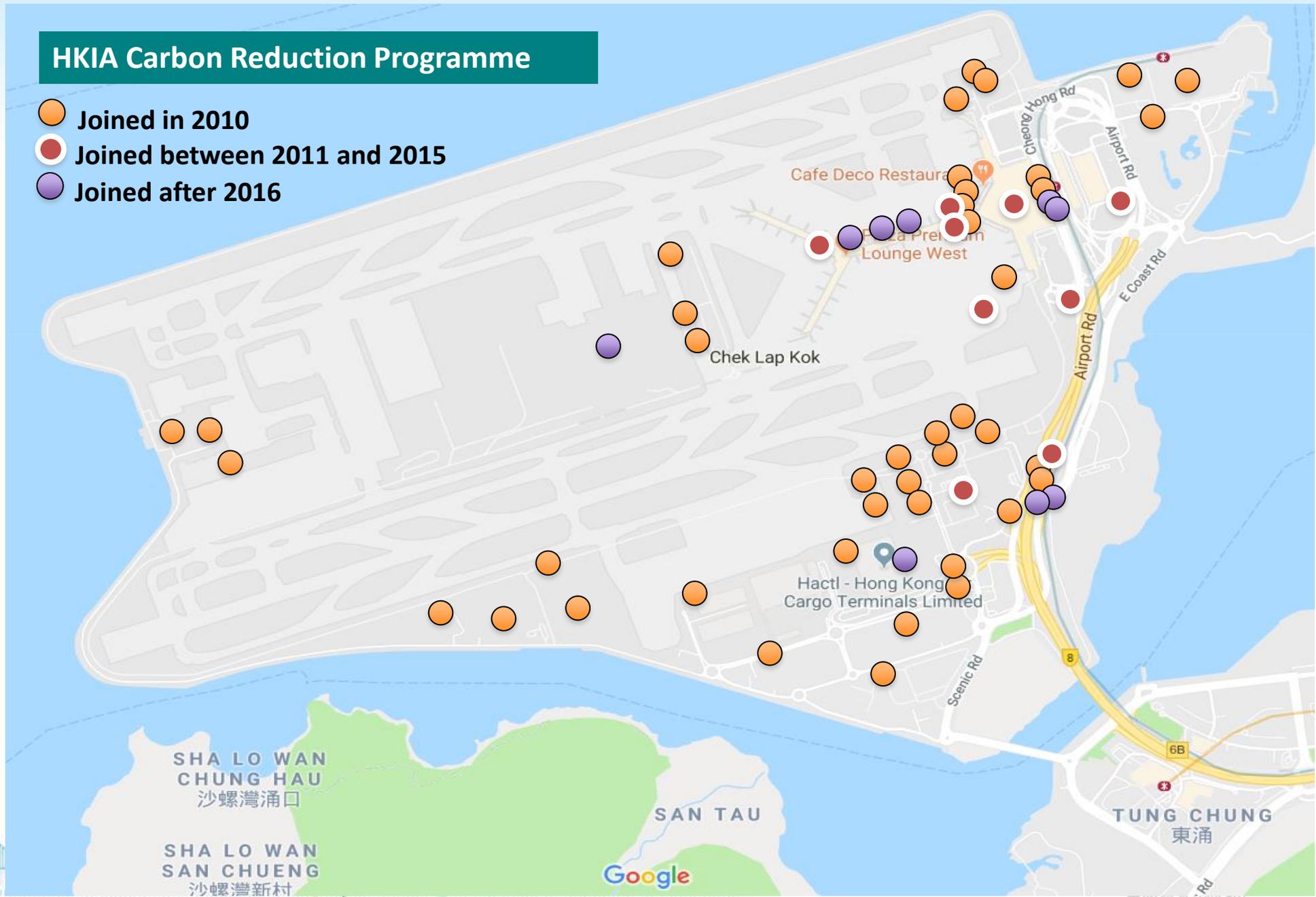
Implement
support
strategies for
2020 target

Continuous Communication



HKIA Carbon Reduction Programme

- Joined in 2010
- Joined between 2011 and 2015
- Joined after 2016



The “4Ps” of HKIA Carbon Reduction Programme

Pledge

25% by 2015 +
a further 10% reduction by 2020

Platform

Online Carbon Audit Systems &
free carbon audits

Partners

54 business partners

Performance

Carbon intensity reduced by 25.6%



Pledge: 1st airport-wide carbon reduction target



AA and 40 BPs pledged to reduce airport-wide carbon intensity by 25% per workload unit by 2015 from 2008 levels

Pledge: 2nd airport-wide carbon reduction target



AA and 54 BPs pledged to further reduce airport-wide Carbon intensity by 10% by 2020 from 2015 levels

Platform: Investing in the infrastructure

2011: Launched Online Carbon Audit System

**System development cost:
HK\$500,000+**

**On-going investment in
increasing no. of BPs and
system user interface**

**6 internal staff trained as
Certified Carbon Auditors**



https://intranet.hkairport.com/cas_int/login.faces



Partnership: Engagement with airport business partners

Voluntary submission of carbon data from 54 airport business partners to map and reduce HKIA's carbon emissions



Partnership: Support strategies for 2020 target

1. HKIA Carbon Reduction Award Scheme

•Carbon Reduction Award (2017)

- Nine BPs with most significant reductions

•Implementation Award (2018)

- For successful reduction measures supported by a robust business case

•Innovation Award (2018)

- For BPs implementing new measures at HKIA

AA is developing a book of case studies to share best practice



Partnership: Support strategies for 2020 target

2. Annual Senior Executive Roundtable

Raise awareness of the business case for accelerating carbon reductions

3. Technical Working Group

Best practice sharing on emission reduction measures:

- ISO 50001 certification
- cooling system optimisation
- solar panel implementation



Partnership: Support strategies for 2020 target

4. Sector-based Benchmarking Scheme

- Friendly competition between BPs in the same sector
- 16 groups determined according to business nature.
- Carbon reduction performance reported to BPs via benchmarking report:
 - Carbon intensity of individual BP in the reporting year
 - Changes in carbon intensity against previous year & base year
 - Comparison against the sector's average carbon intensity



Partnership: The funding model – cost sharing

CAS platform and training (AAHK)

AAHK

Funds AA's carbon reduction projects

BPs

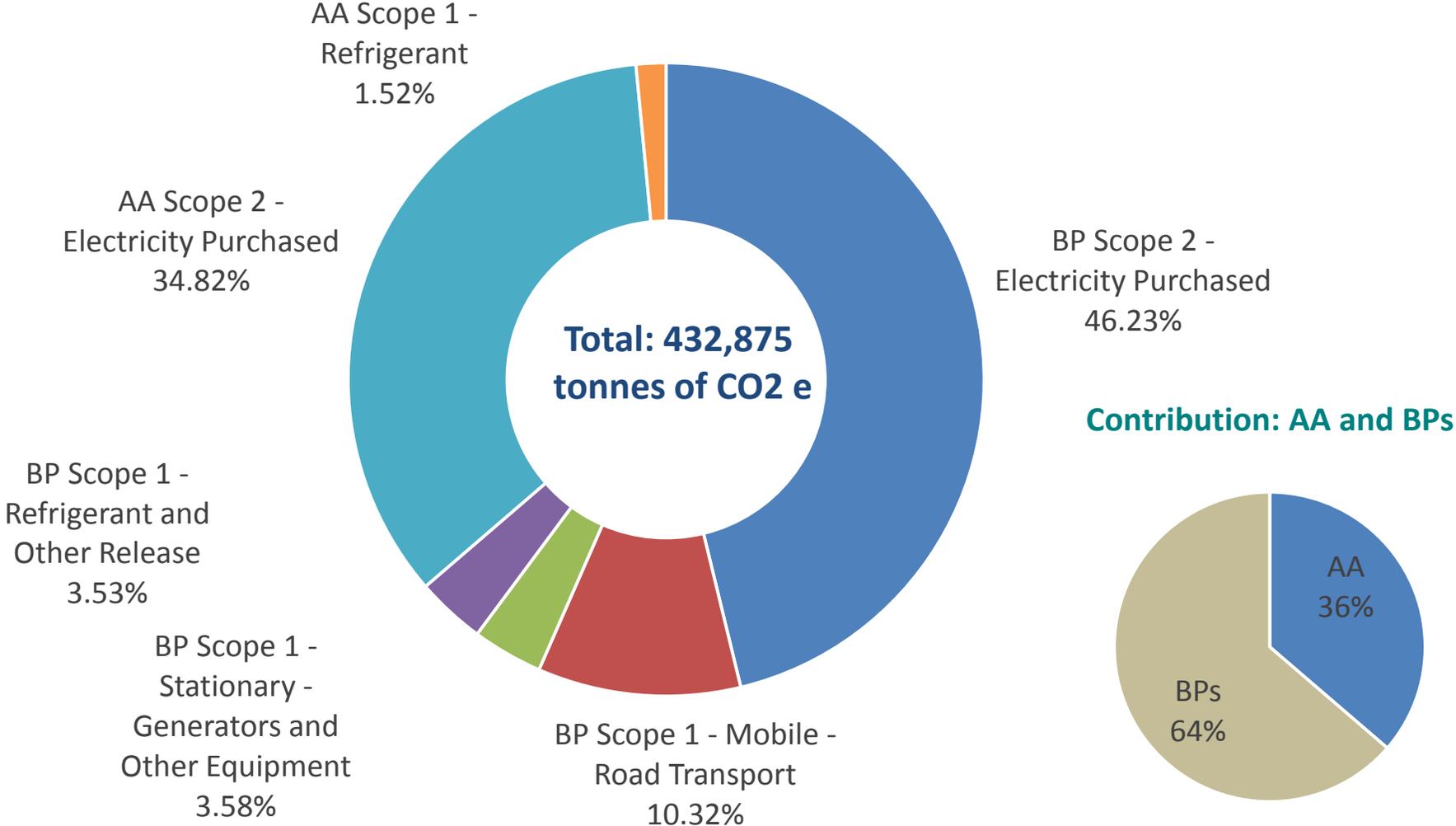
Measures based on business nature & business case

All parties benefit from sharing best practices

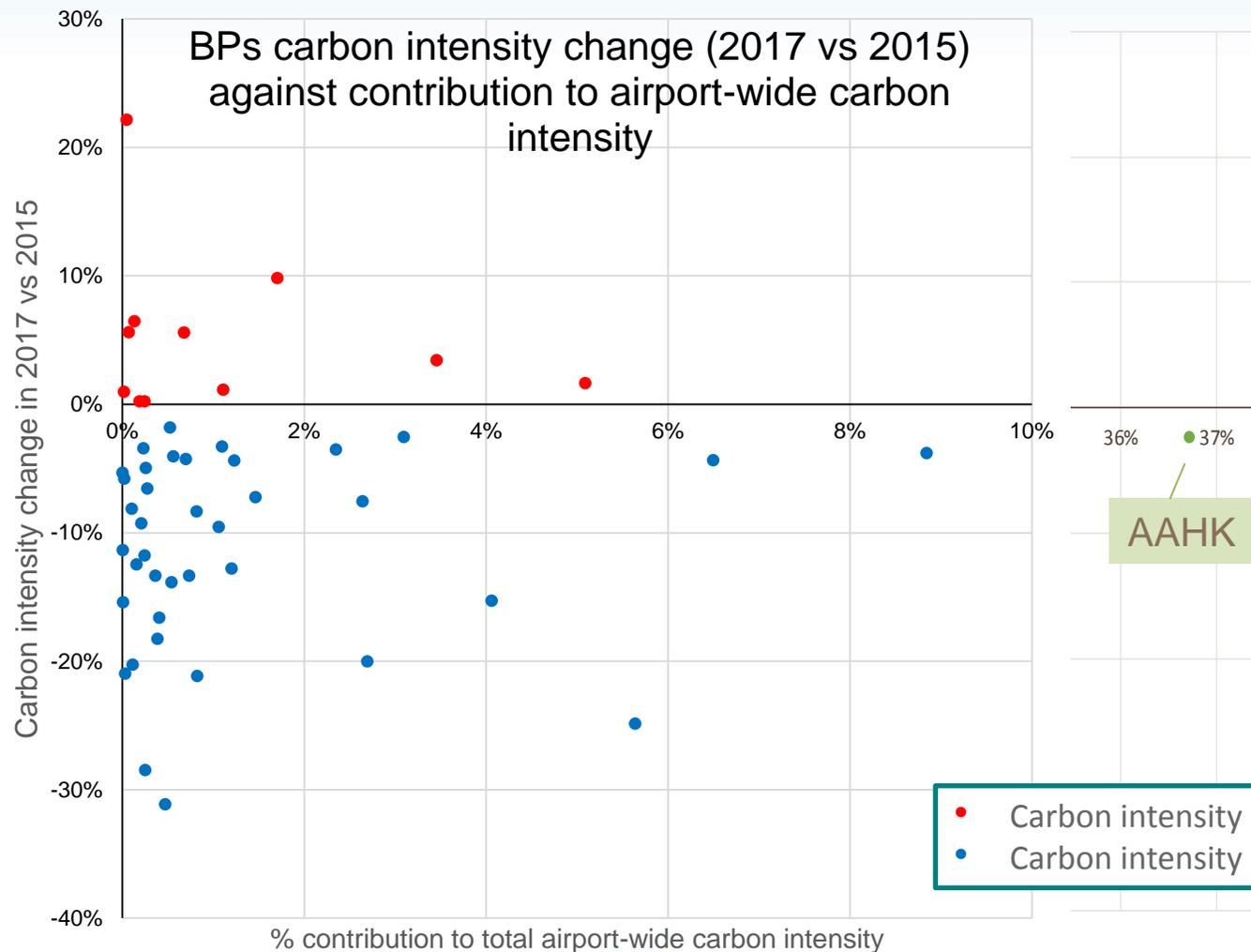
- Initiatives must be justified by a sound business case
- No “one-size-fit-all” solution

Performance: major scope 1 & 2 emissions

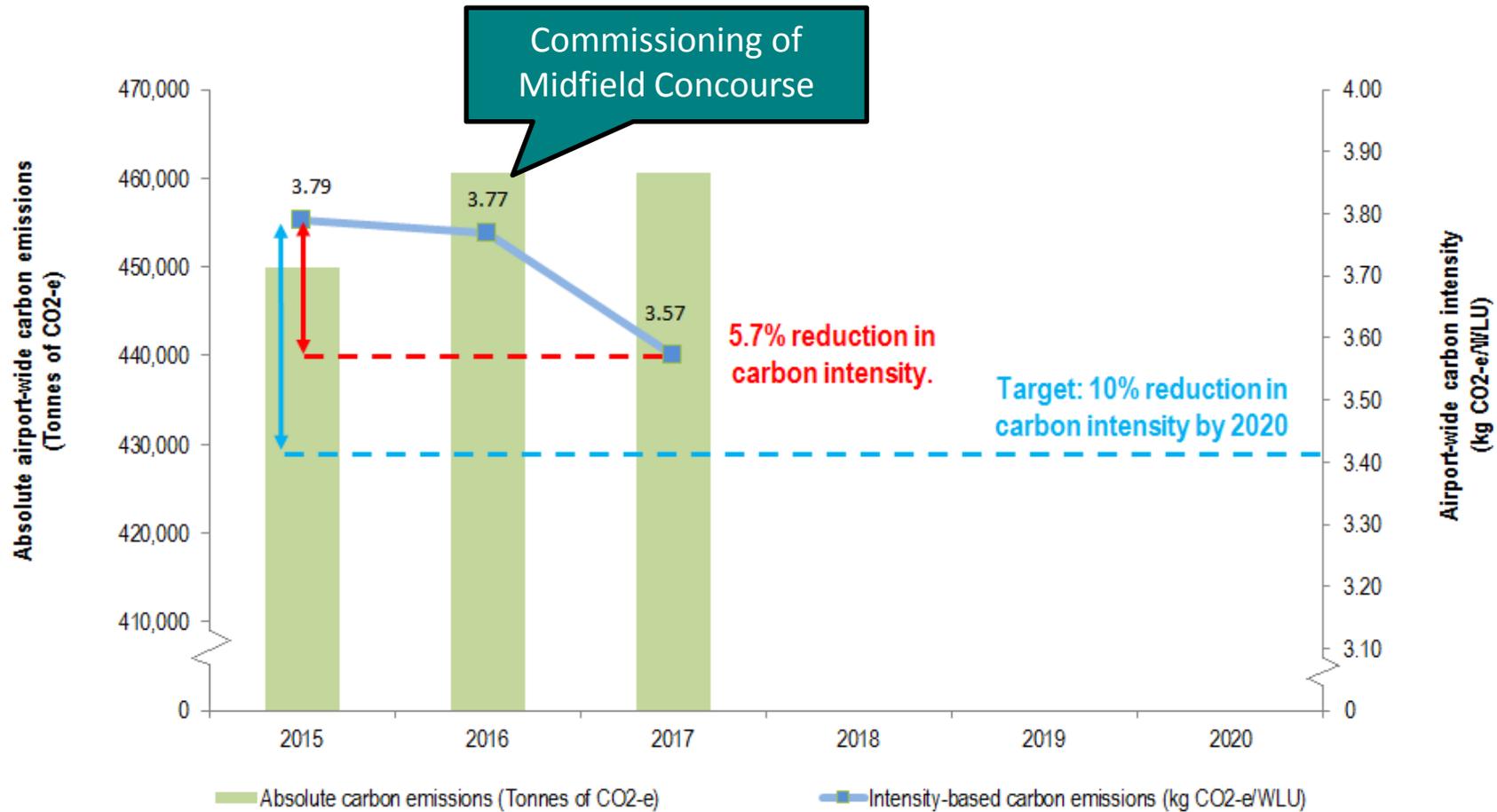
AAHK and BP 2017 Major Scope 1 and 2 emissions



Relative carbon reduction performance of BPs



Overall airport-wide performance



Conclusion

Advantages of “airport-wide” approach:

Wider boundary creates greater opportunities to achieve reductions

Larger footprint increases the impact with a percentage-based target

The bigger the boundary, the more credit you can claim

