

# **Sustainable Smart Cities Tale of Two Cities: Active Travel**

21 May 2021







## Agenda

#### Introduction:

Michael Rudd, Chair of the Sustainable Smart Cities taskforce, Bird&Bird

#### Presentations by:

- Richard Eason, London Borough of Enfield
- Steven Arnold, Birmingham City Council
- Marianne Weinreich, Ramboll
- Alex Pazuchanics, Vianova
- Erik Hasselbalch, Voi

Q&A







## Housekeeping

- To ask questions please use the chat box in your control panel.
- Ask your questions throughout the webinar, you don't have to wait until the end.
- Don't worry if you miss anything we will be uploading this to our website in the next few days, so if you want to listen again to us you can!









Richard Eason
Programme Director
London Borough of Enfield





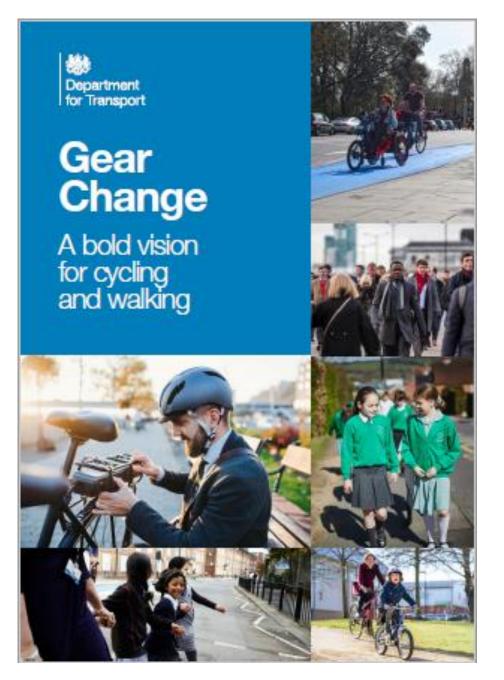




### **Richard Eason**

Healthy Streets Programme Director











Cyclists joined a protest to save the High Street Kensington cycle lanes / Daniel Hambury/Stella Pictures Ltd

















## Ongoing challenges to work on



Enabling emergency services access



Developing how we communicate



Considering issues of equality



Monitoring the impact of projects



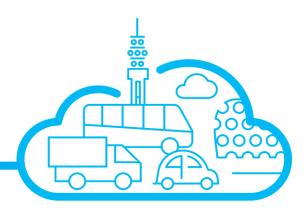


**Steven Arnold**Head of Clean Air Zone
Birmingham City Council





## **BRUM BREATHES**



**BIRMINGHAM'S JOURNEY TO CLEAN AIR** 

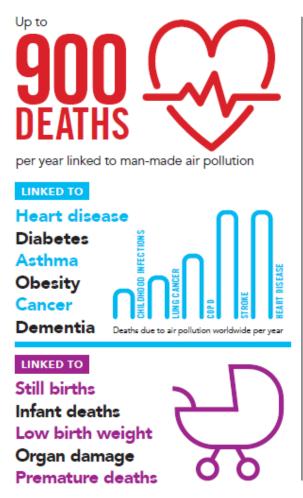
### **Stephen Arnold**

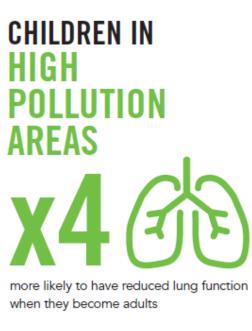
**HEAD OF CLEAN AIR ZONE** 





## The impact of poor air quality







G10/O OF JOURNEYS TO WORK ARE BY CAR OR VAN

Exposed to 21% higher levels of pollution

Affects the VULNERABLE & DEPRIVED areas most

### **BUS & TAXI DRIVERS**

3x (E)

more pollution than anyone



## Tackling poor air quality

#### **Clean Air Zones**

A Clean Air Zone defines an area where targeted action is taken to improve air quality and resources are prioritised and coordinated in order to shape the urban environment in a way that delivers improved health benefits and supports economic growth.

#### Non-charging Clean Air Zone

- These are defined geographic areas used as a focus for action to improve air quality.
- This action can take a range of forms but does not include charge based access restrictions

#### **Chargeable Clean Air Zones**









## Birmingham's Clean Air Zone

### **TYPE D**

Includes all vehicle types



#### Daily charge will apply 24 hours a

dayCars, taxis, vans

■ HGVs, coaches and buses £50

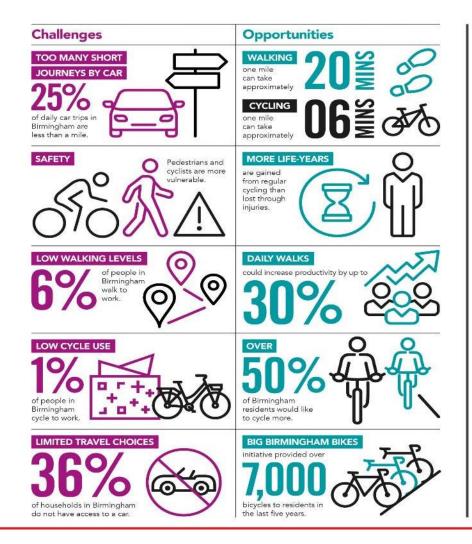
## Revenue generated to be re-invested in transport-related projects and policies

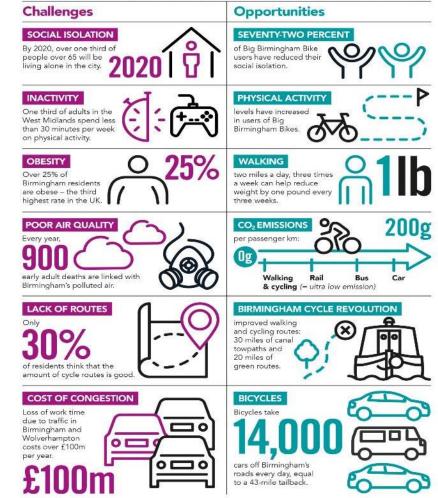
- Opportunities already identified:
  - Controlled Parking Zones to mitigate localised impacts of the Clean Air Zone
  - Funding for the Hydrogen bus pilot
  - City centre pedestrianisation and public realm improvements
  - Enhanced programme of bus priority, walking and cycling schemes





## Creating a more sustainable city





### The bigger picture

### **BIRMINGHAM'S TRANSPORT PLAN**

Published for consultation in January 2020

#### The vision

A smart, innovative, carbon neutral and low emission transport network that will support sustainable and inclusive economic growth, tackle climate change and promote the health and well-being of Birmingham's citizens.

## Delivered through four 'big moves'



Reallocate road space



Transform the city centre



Prioritise active travel



**Manage** demand

## The Clean Air Zone as an enabler of change



#### A long term ambition for zero emissions

The council is committed to taking a leading role, playing its part, and working with individuals, communities, businesses, partners, and others across the city and region to act now on the causes and impacts of the climate emergency.

The ambition was set for the council and city to become net zero carbon by 2030. This is the city's 'route to zero' (R20).

## Additional programmes supported by the Clean Air Zone team include:

- Significant expansion of the city's electric vehicle charging points
- Purchase of 20 hydrogen buses to encourage the adoption of the technology in the city
- Purchase of up to 50 electric hackney carriages to encourage adoption of this technology within the taxi fleet



## brumbreathes.co.uk



#### **STAY CONNECTED**

#### birmingham.gov.uk















Marianne Weinreich
Market Manager
Cycling Embassy Denmark/Ramboll







## MARKET MANAGER, SMART MOBILITY RAMBOLL

Chair of Cycling Embassy of Denmark















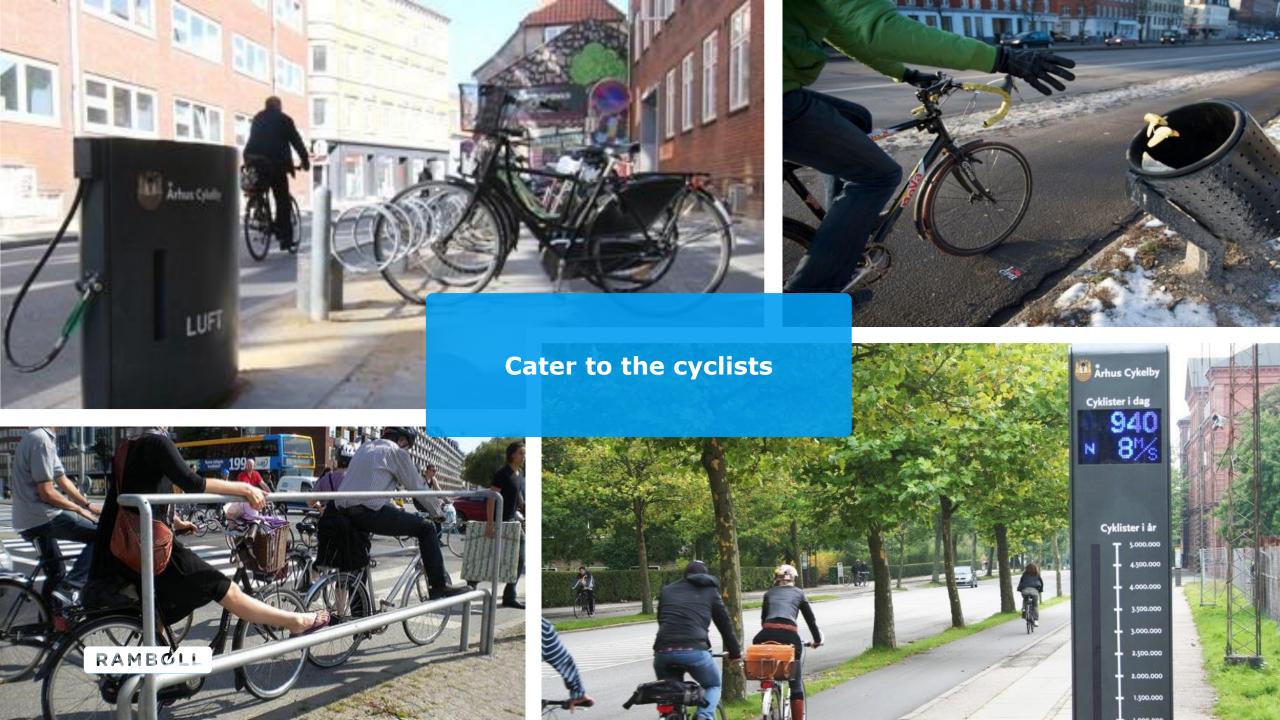












Q

GATE 21

Projekter 3 Living Labs 3

Netværk & Videndeling 3

Nyheder 3



#### Resultater Test en Elcykel

Læs meget mere om Test en Elcykels resultater i folderen her:

TEST EN



Bilkøer og transport er for et andet

Vi ved, at nover fem ki

for samfund trængslen o

en almindel

Derfor har Gate 21 sammen med med otte danske kommuner og otte hospitaler i Region Hovedstaden over tre år udlånt elcykler til næsten 1.700 personer, som tidligere kørte i bil til arbejde.

**SKEJBY** 

Gennem Test en Elcykel har vi undersøgt, om gratis udlån af elcykler over en længere periode kan skabe nye, sunde og grønne transportvaner blandt medarbejdere og borgere. Deltagerne har vist, at det sagtens kan lade

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4.000 GLADE CYKLISTER







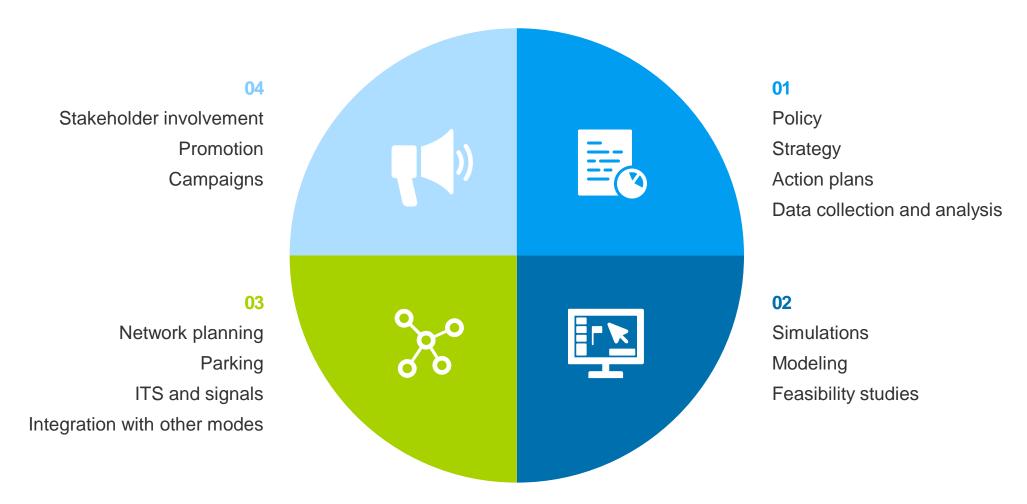


# Bright ideas. Sustainable change.

RAMBOLL



## **CYCLING SERVICES**









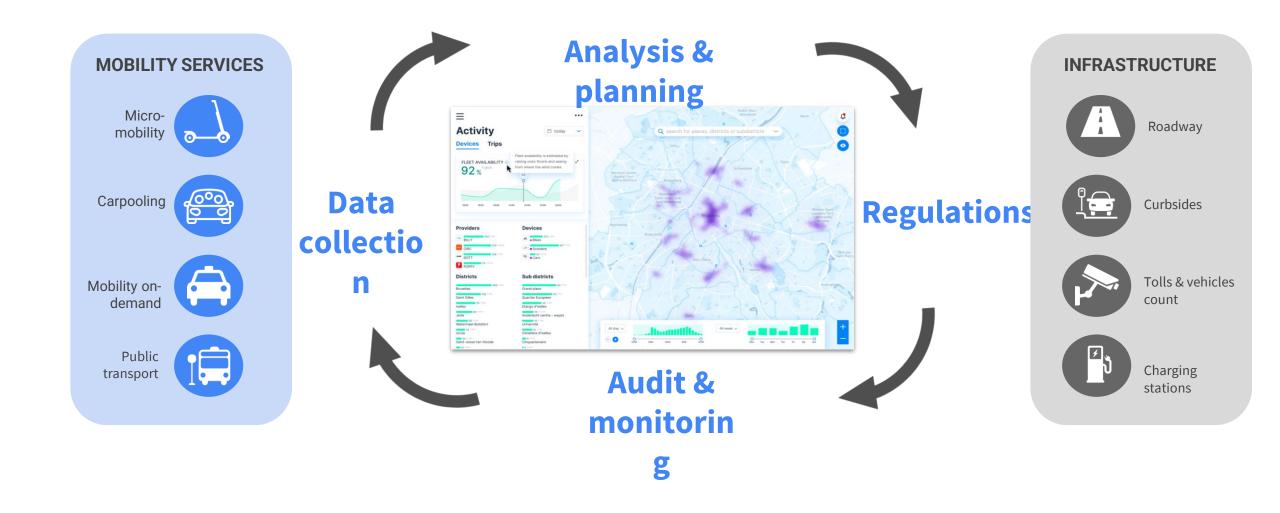
Alex Pazuchanics
Head of Policy and Partnerships
Vianova







# Vianova: Managing Mobility Data



A "silver buckshot" approach to better cities

Active and shared mobility both benefit from similar policies:

- -Education
- -Enforcement
- -Engineering
- -Equity

Both support more pleasant, more sustainable transport networks

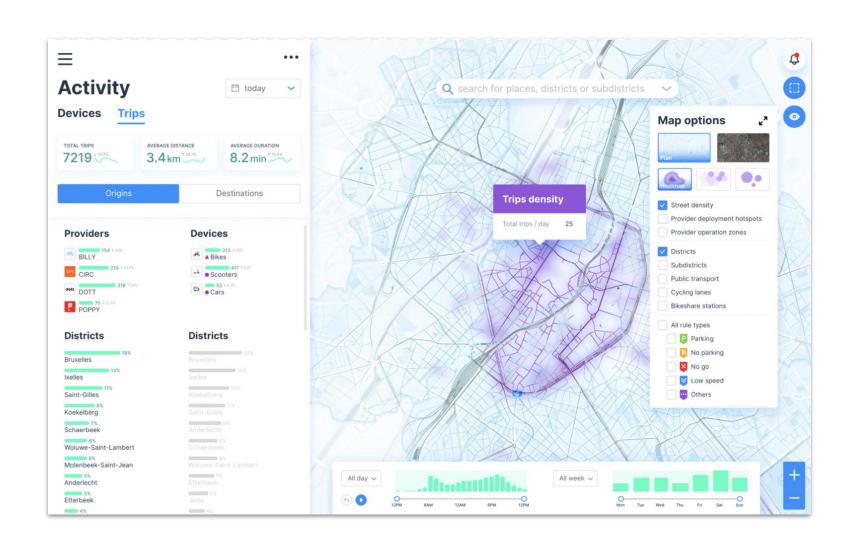


#### What's Working Well?

Adding new "Coronalanes"-temporary or permanent

Allocation of parking spaces to other purposes ("streeteries", public space, etc)

Decarbonisation targets are inspiring cities to make big improvements



# What Are the Outstanding Challenges?

- Parking tends to be a major challenge for all cities
- Safety of riders and non-riders
- Evaluating whether policies are being followed and holding operators accountable
- Understanding the actual value that shared mobility brings in terms of sustainability
- Making use of data



# Thank you!



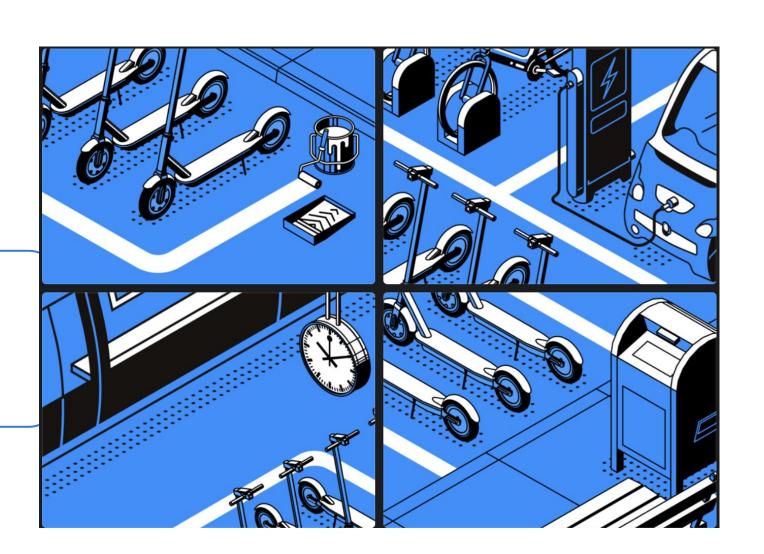
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Erik Christian Hasselbalch
Senior Operations Manager UK & Ireland
Voi Technology





voi.

Voi by the numbers:

2018

FOUNDED IN SWEDEN

+85%

LIFECYCLE EMISSION REDUCTION IN 2 YEARS +60

CITIES ACROSS 10 COUNTRIES

4.8

USER SATISFACTION RATING (HIGHEST IN THE INDUSTRY)

\*\*\*

-6

MILLION USERS

4

LIGHT-ELECTRIC VEHICLE TYPES ON-OFFER

(including accessible model)

0

CARBON NEUTRAL SINCE JAN 2020

0

GIG-ECONOMY WORKERS

+45

MILLION JOYFUL RIDES

0

ROGUE LAUNCHES

+30

PUBLIC TRANSPORT AND MAAS PARTNERSHIPS +500

**EMPLOYEES** 

# voi. Voi is live in 16 UK cities and the largest e-scooter operator

Liverpool



Cambridge



Birmingham



+2m Trips

7,500 E-scooters in Operation

**Bristol** 



Bath



Northampton



+5m km travelled

from earth to the

+TK **Active Users** in the UK

+TK

Voi-4-Heroes registered users +TK

Car trips avoided on UK roads since launch



# We collaborate with cities.

Wherever we work we consider ourselves locals, integrating into the transport and business landscape, supporting city regulation and policy, sharing data transparently, engaging with local people and groups, and championing their concerns.

Our impact on cities and communities is highlighted by:



A strong local presence and dedicated teams.



Preferred city partner to European cities



Public transport collaborations



**Data Sharing** 

# voi. Multimodality

# Multimodal shared mobility catered to all urban & intra-urban journey distances

Working together, e-scooters, e-bikes and e-mopeds cater to different use cases and journey distances for seamless intermodality and increased modal shift from cars...





1-5 miles

5-10 miles



#### E-scooter: Voiager 4

- Designed for journeys 1-5 miles
- +5-year lifespan
- Turning indicators
- Phone charging and phone holder
- Beacon / status lights on the handlebars
- Adjustable seat and basket
- Swappable li-ion battery



#### E-bike: Voiager 80

- Designed for journeys 5-10 miles
- +5-year lifespan
- Phone charging and phone holder
- Beacon / status lights on the handlebars
- Adjustable seat and basket
- Swappable li-ion battery (same as V3X)



# voi. Burden of car-centric mobility

### Ending car dependency is key for reducing city carbon footprints.



of city air pollution is related to transport, with significant health implications.



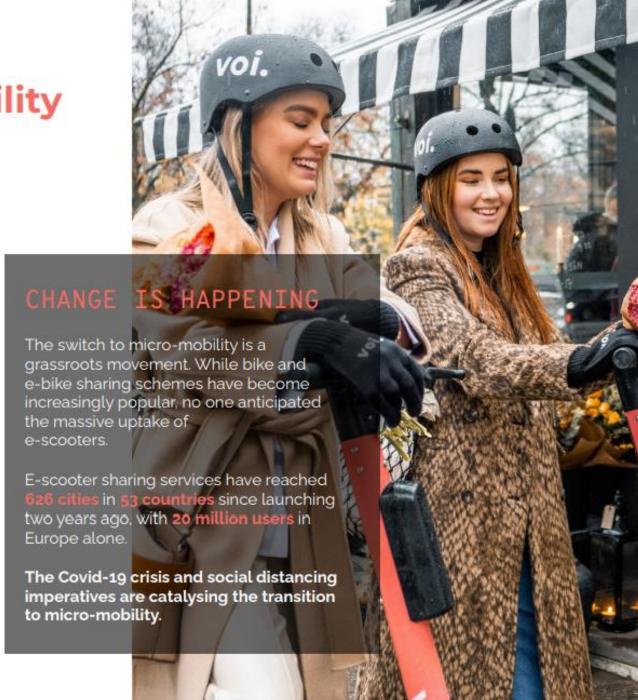
of Europe's population is exposed to excessive long-term traffic noise.



of urban space is allocated to cars.



in 2018 UK drivers spent 178 hours on average stuck in traffic.



#### Sustainability at Voi

# Intermodality & Modal shift

Mode share in European cities. With transport driving 25% of Europe's GHG emissions, decarbonising transport and reducing car trips is a main focus of many city climate plans.





#### **Today's European cities**

63% of users report combining Voi with public transport12% of users report replacing cars or taxis

Alternative mobility still < 10% mode share in most European capitals

#### Post-car cities?

90% alternative mobility & public transport share 10% shared car share for transporting goods and other needs

#### The e-scooter opportunity

#### Catalyst for change

Rapid adoption shows power of e-scooters for mobility behavior change. E-scooters can service as catalyst towards post-car, sustainable urban transport.

Alternative mobility combined with smart policies can foster **higher car replacement** driving key trends:

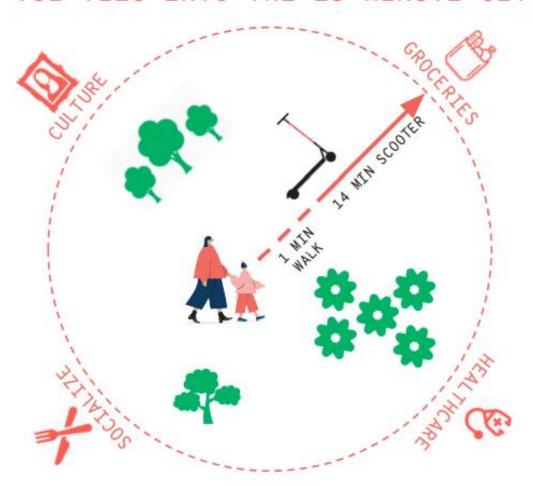
- → Access vs. ownership
- → Light weight vs. heavy weight
- → Electric vs. fossil fuel

Solutions & policy need to work together



# We are an enabler of the cities of the future

#### VOI TIES INTO THE 15 MINUTE CITY



- A Voi in every neighborhood & transport interchange
- Makes Voi the key that connects people with their city
- We help citizens reclaim the city space from cars





# Q&A



Bird&Bird