ICAO SEMINAR ON
GREEN AIRPORTS

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# Circular economy

Schiphol Group

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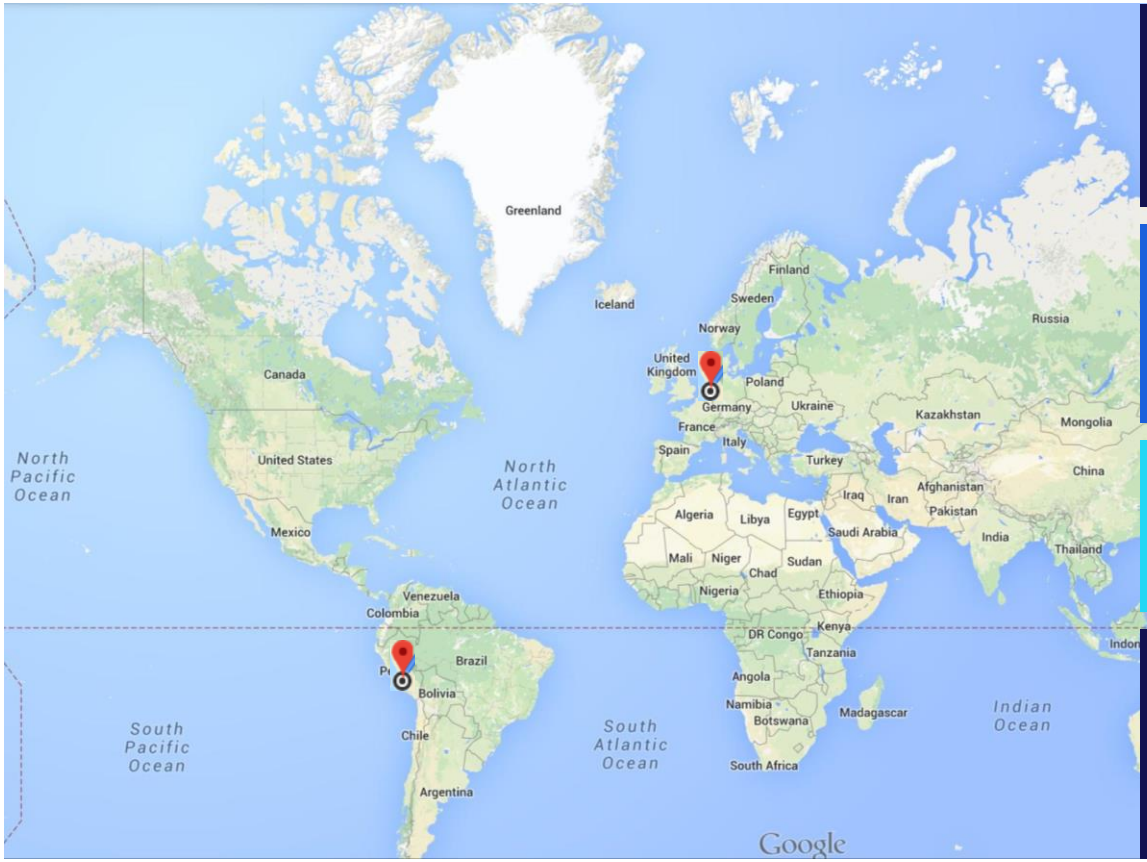
# Amsterdam Airport Schiphol




**327** direct destinations

(329 in 2017)

**71.1**

million travellers

(+3.7%)

**1.7** million

tonnes of cargo

(-2.5%)

**499,444**

air transport movements (+0.5%)

**1.5** billion

revenue (+3.5%)

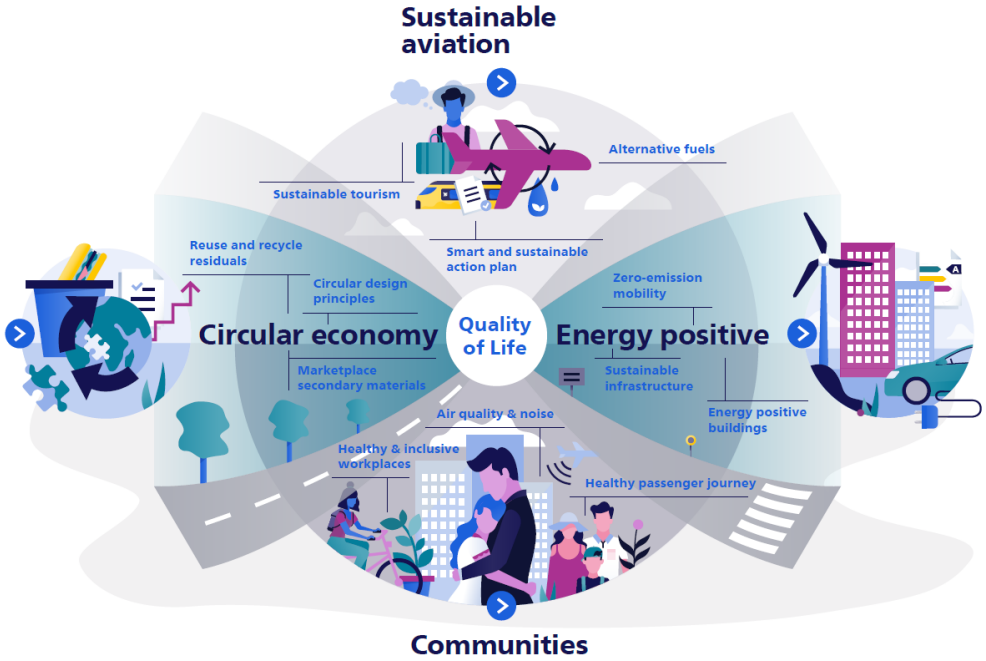
**67,000**

jobs on airport

airport carbon accredited

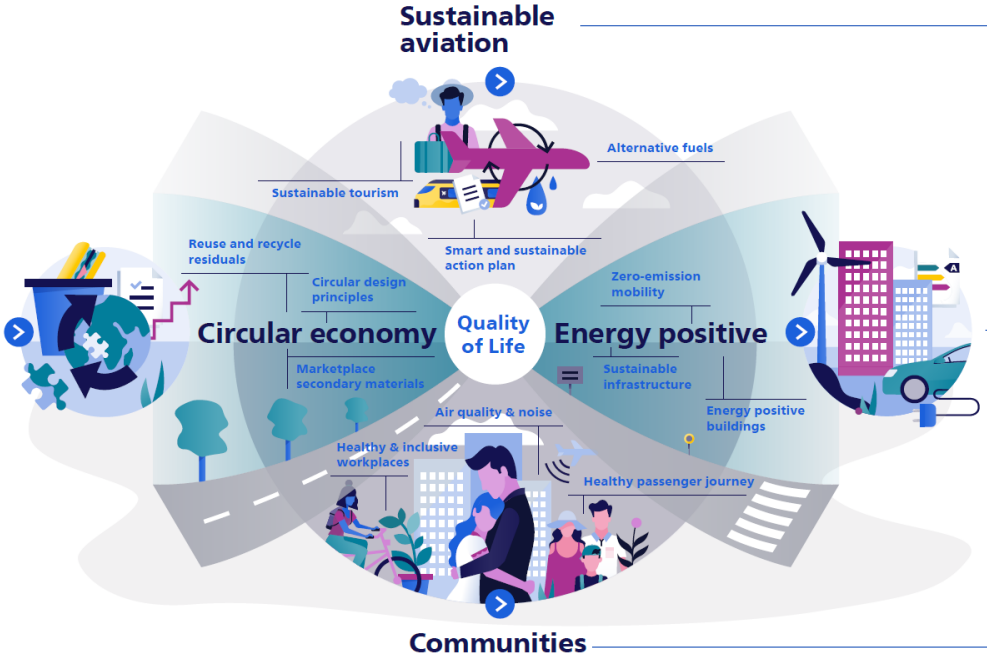
NEUTRALITY

# Sustainability at Schiphol Group (1/2)




International guiding principles and agreements

# Sustainability at Schiphol Group (2/2)




Goal: emissions int. aviation in 2030 back on 2005 level

- Joint action agenda “Smart and Sustainable” to reduce aviation emissions

Goal: zero emission airport 2030

- Reduction of natural gas, increase in zero emissions vehicles, generation renewable electricity

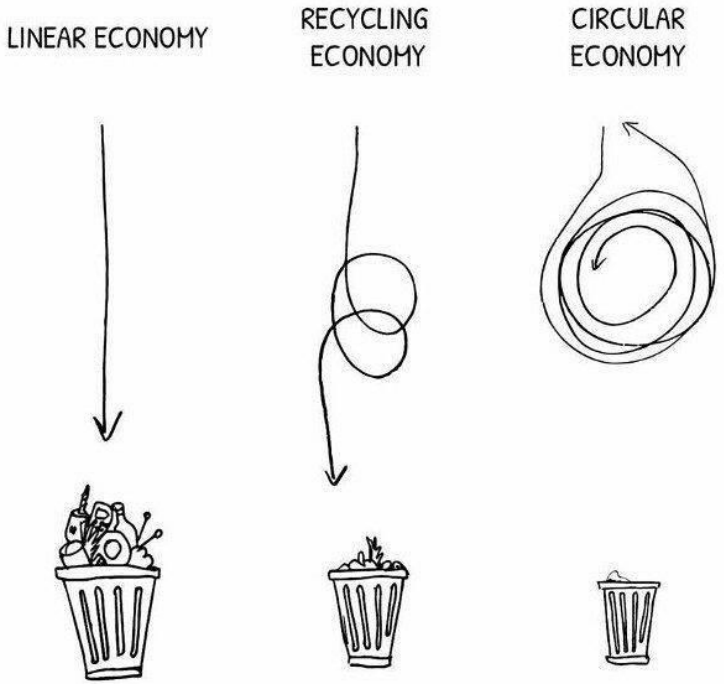
Goal: improving quality of life together with surrounding communities

- Lower noise hindrance and improve air quality

# Circular economy – what is it?

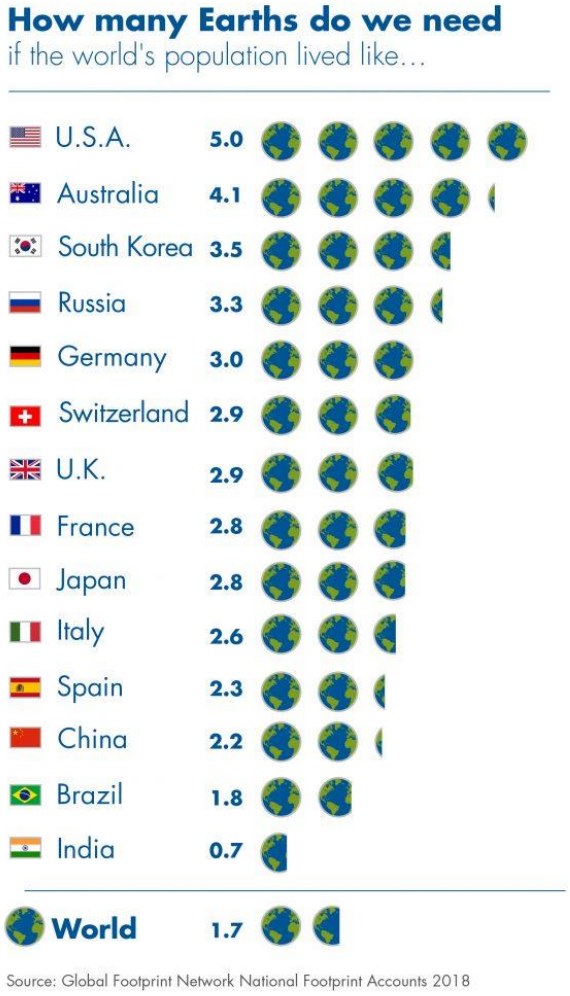
A circular economy is restorative and regenerative by design, and aims to keep products, components, and materials at their highest utility and value at all times.

- Ellen MacArthur Foundation

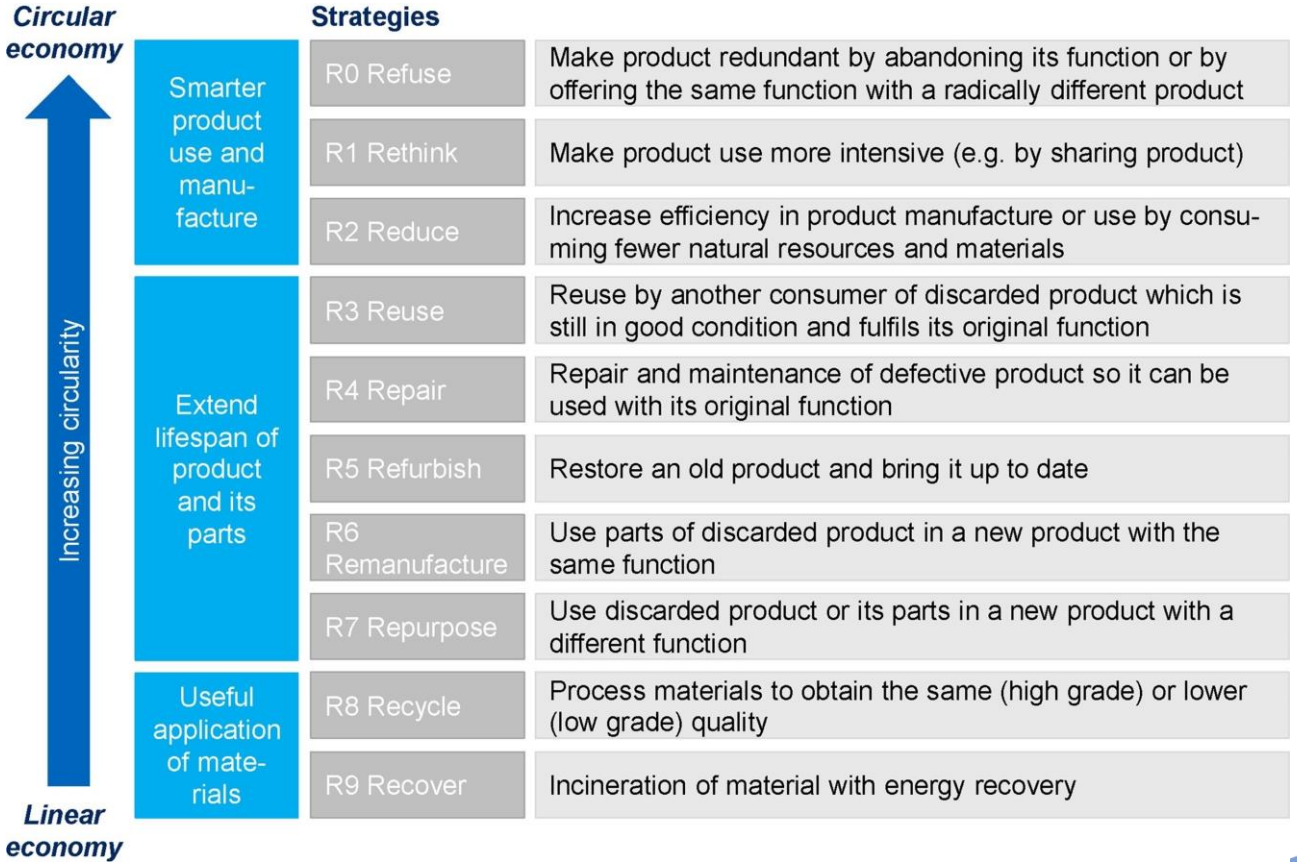


# Circular economy – why is it important?

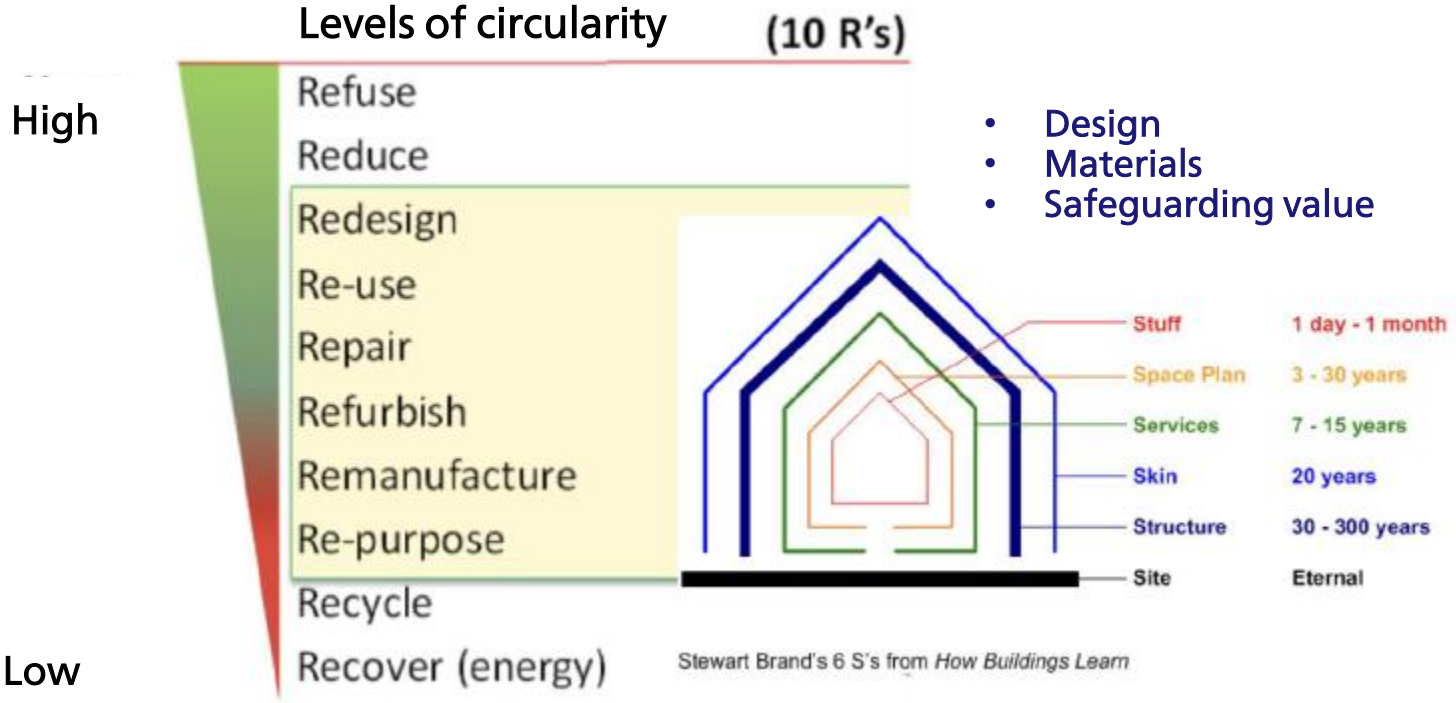
- Growing world population and rising prosperity levels
- Earth overshoot day: we use more from nature than our planet can renew in the whole year.
- Use of primary natural resources
- Embodied carbon in infrastructure
- Food wastage
- Electronic residuals



# Circular economy in practice (1/2)



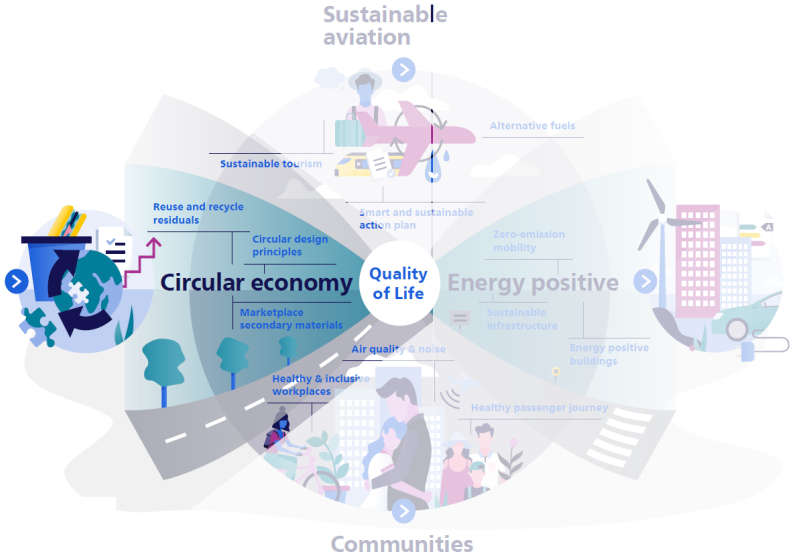
# Circular economy in practice (2/2)



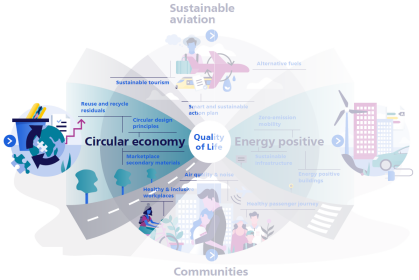

- Design
- Materials
- Safeguarding value

# Circular economy at Schiphol Group

- 2050: circular economy at our airports
- 2030: zero waste airports



# Current performance related to zero waste 2030 goal




**Schiphol Circular**

8 % — 100%

Estimate according to Metabolic research — 2050

**Value reuse operational residuals**

90% — 100%

% processed at an high tread on the 'Ladder van Lansink' — 2030

**Waste separation operational flow**

46% — 100%

% of non-hazardous operational flows

**Circularity building index**

22% — 80%

Estimate according to Alba research — 2030

**Material passports**

5

Number of new buildings with a material passport — 2030

On a scale from 1 (start) to 5 (completed)

# Thank you for your attention

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