



Resource Sustainability

Achieving a state of continuous beginnings

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Aviation's Goal: Net Zero Carbon by 2050

People and Planet



Sustainable Growth



Passengers



Goods

A blue rectangular graphic containing three white icons. The top icon is a person walking with a suitcase, labeled 'Passengers'. The middle icon is an airplane carrying a cargo container, labeled 'Goods'. The bottom icon consists of three figures: a construction worker in a hard hat, a businessman in a suit, and a pilot in a uniform.

Industry Commitments



How is Boeing supporting these goals?



Sustainable Aerospace Together

Fleet Renewal

15 - 25% more efficient airplane

Operational Efficiency

Up to 10% in fuel savings

Renewable Energy

100% SAF compatible by 2030

Advanced Technology

75% of R&D spend is on sustainability



Sustainable Aerospace Together



Resource Sustainability

An industry moving towards zero waste

Resource Sustainability

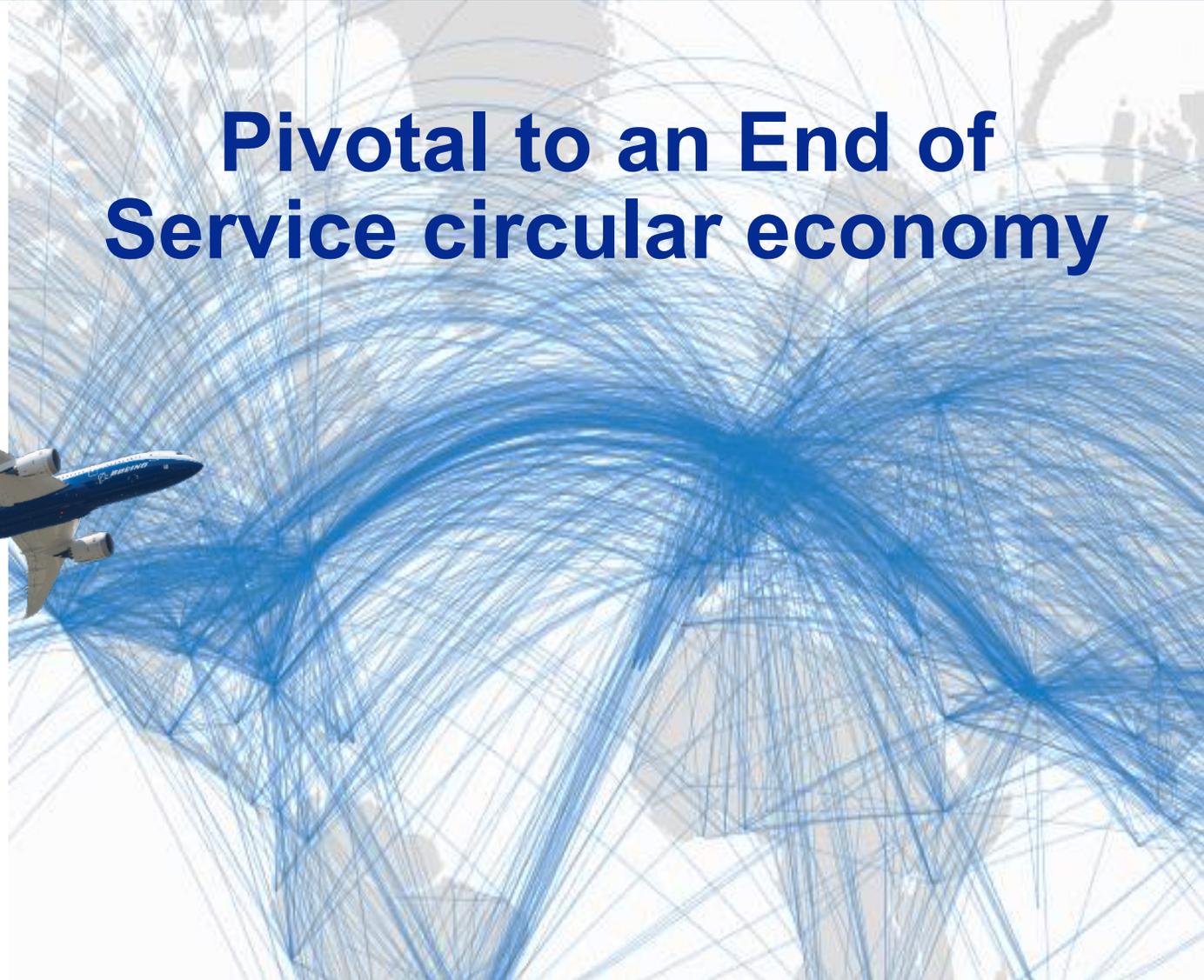
**Materials and parts go
through a series of
new beginnings**

Sustainable Products

Materials and parts go through a series of new beginnings



Pivotal to an End of Service circular economy

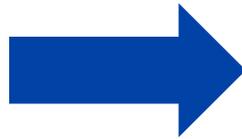


New Beginnings Start Here



MISSION:

Advancement of environmentally responsible end-of-service practices and realization of circular economy goals

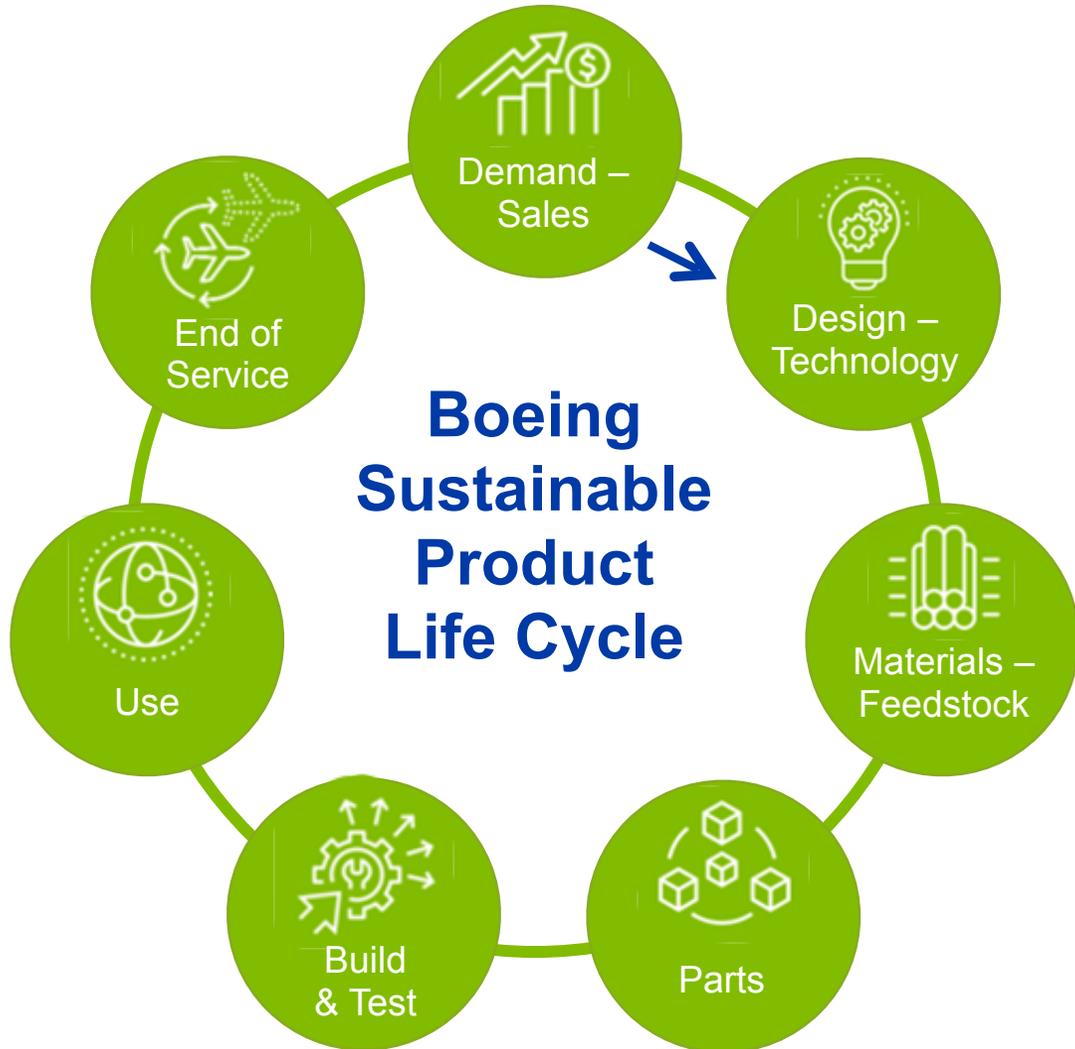


Rethink
Reduce
Reuse
Recycle

=

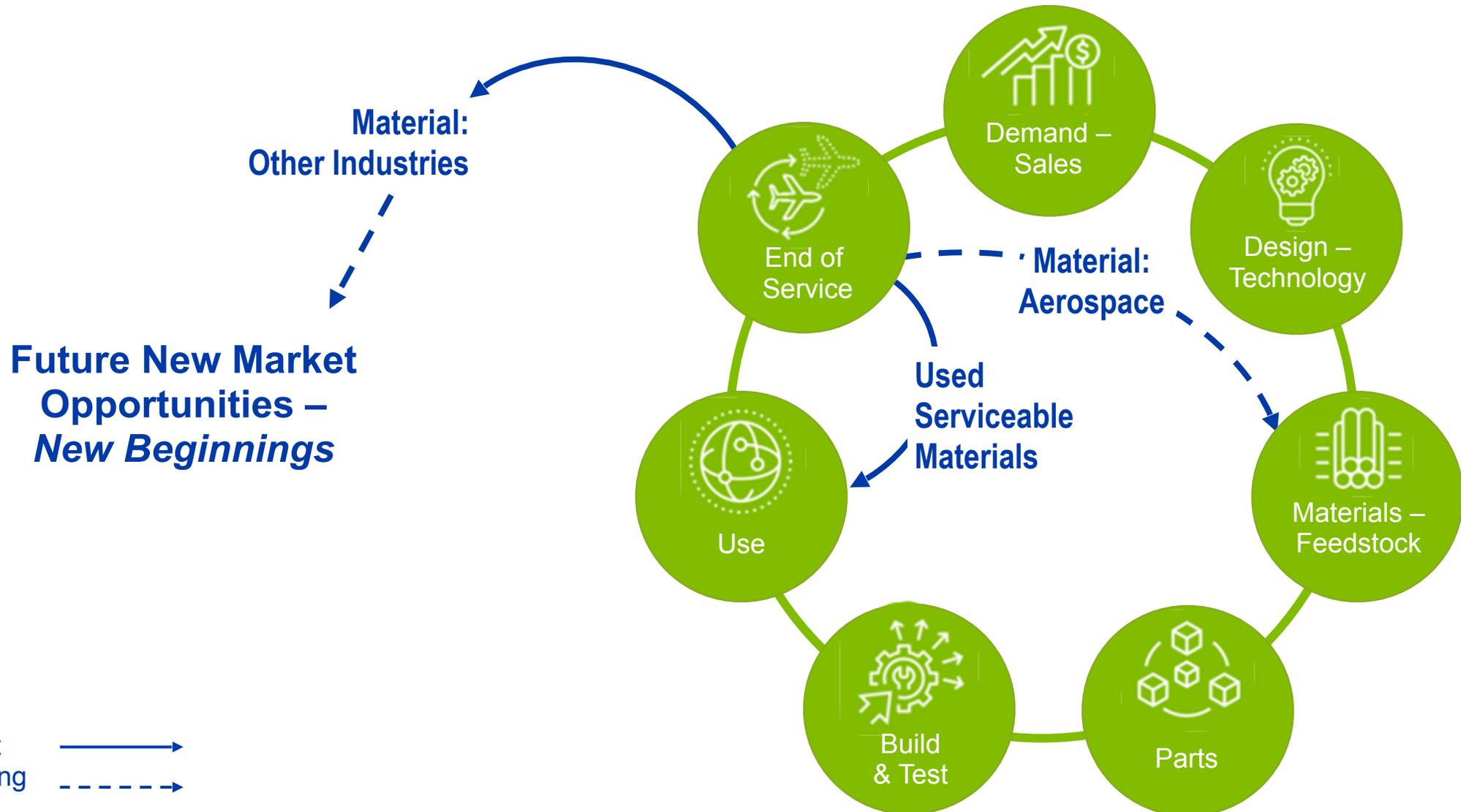
**Sustainable
Resource
Management**

From Design to Retirement, Sustainability is Built-In



- **Rethink** – design
- **Reduce** – waste to landfill
- **Reuse** – valuable parts
- **Recycle** – into aviation or a new industry

AFRA – Input to New Beginnings



Moving from Linear to Circular



- **Decouple growth**
- **Value of materials**
- **Avert waste**
- **Decarbonize materials**



**We can do more,
together.**

**Overcome Barriers
Build Momentum**

And Create New Opportunities



Today's Focus can Yield New Opportunities Tomorrow



- **90 to 100%** recyclability
- **CFRP** reuse and recycling
- **Logistics** reduction in carbon footprint
- **Make markets** for aviation materials
- **Recycle** for high value

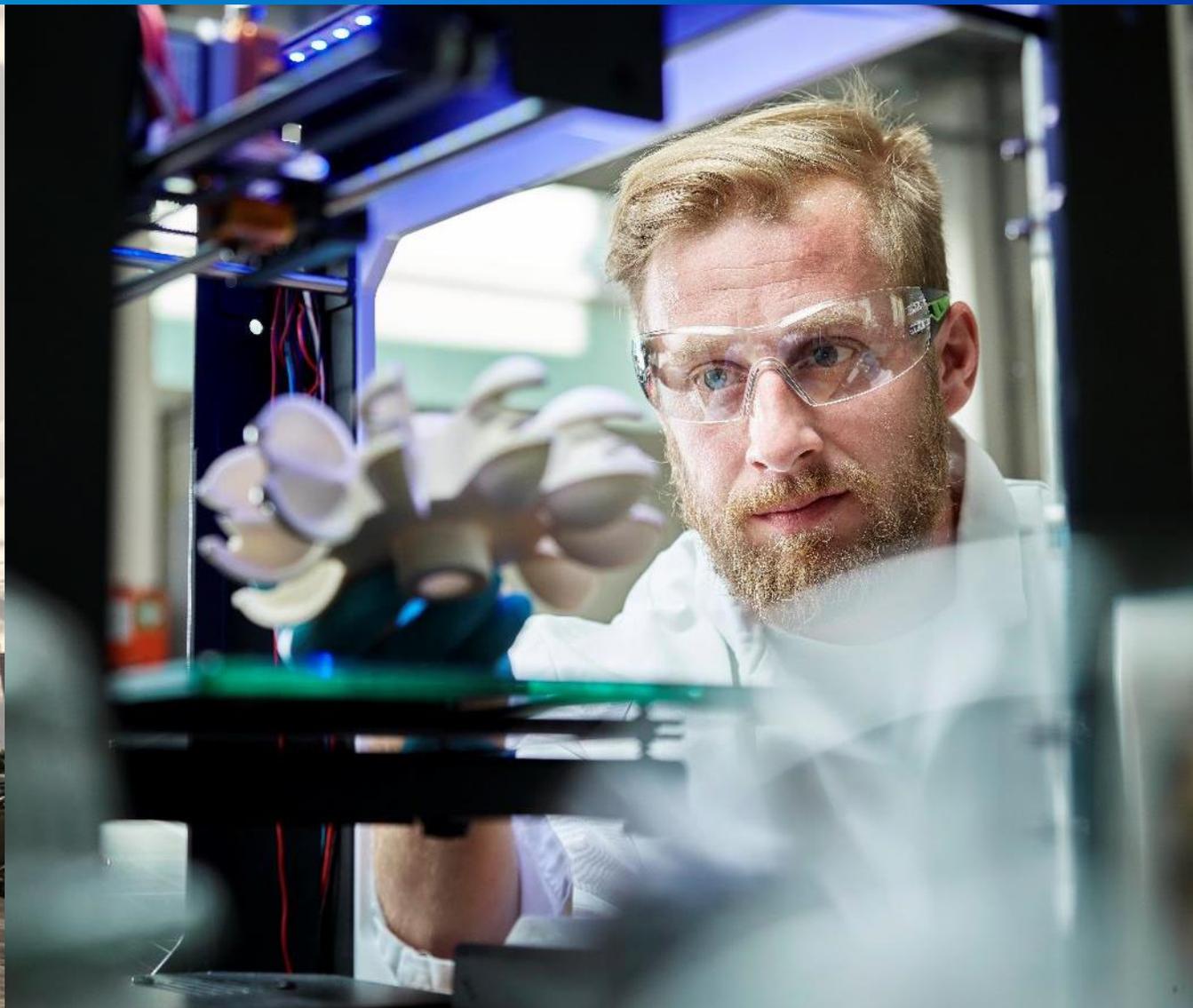


90% of the airplane by weight can be recycled



2015: 757 ecoDemonstrator

New Value From the Last 10%



Taking the Pledge



Boeing will
only use
AFRA
accredited
organizations

Our Commitment to AFRA Accreditation

“We are pledging to work exclusively with AFRA accredited organizations when directing aircraft in the Boeing-owned fleet for dismantling. We salute the aircraft dismantlers and recyclers who are already accredited under AFRA’s Recycling Best Management Practice program, and encourage other dismantlers and recyclers to implement the best management practices and seek accreditation.”





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We Can Do More - Together



“If working apart we are powerful enough to destabilize our planet, **surely** working together we are powerful enough to save it.”

Sir David Attenborough, COP26



