

Delivering digital innovation to the
emerging global circular economy



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Michael Bates

🕒 13:15 - 13:45

Circular Economy + Waste Innovation



Michael Bates

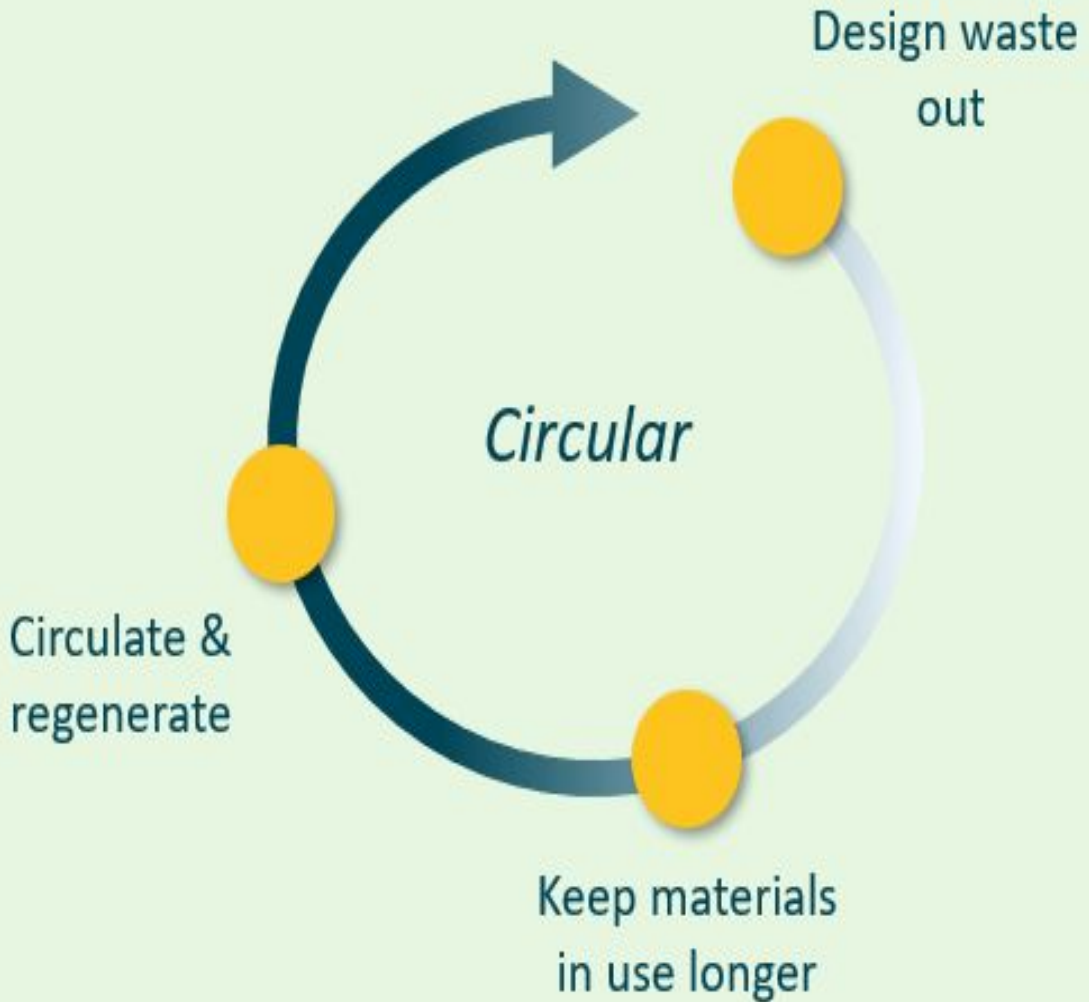
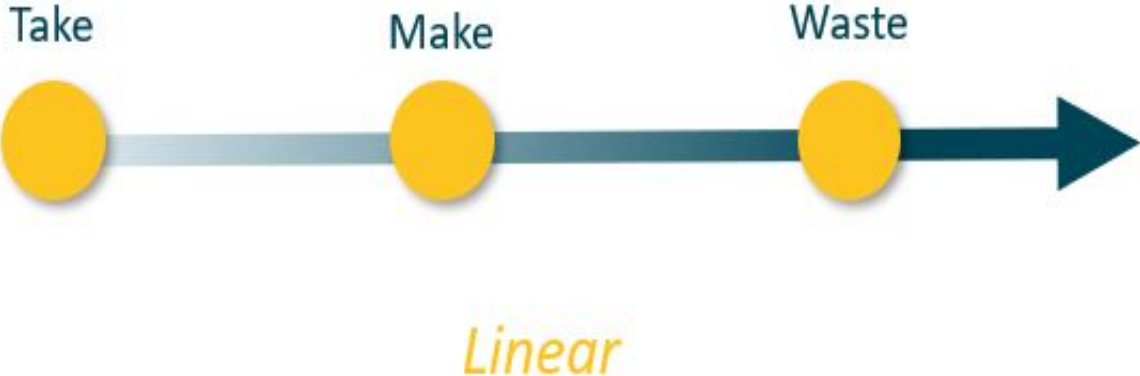
Head of ANZ Region, AMCS

Agenda

- How the Circular Economy Drives Value
- What Does CE Mean for the Role of Resource & Recycling Companies
- Digitalisation in Action - Case Studies & Solutions
- Q&A



Shifting Gears – Linear to Circular



How Circular Economy Drives Value



Reduce waste and prevent the depletion of materials



Drive greater resource productivity



Deliver a more competitive Australian economy and boost economic growth globally



Reduce the environmental impacts of linear economy



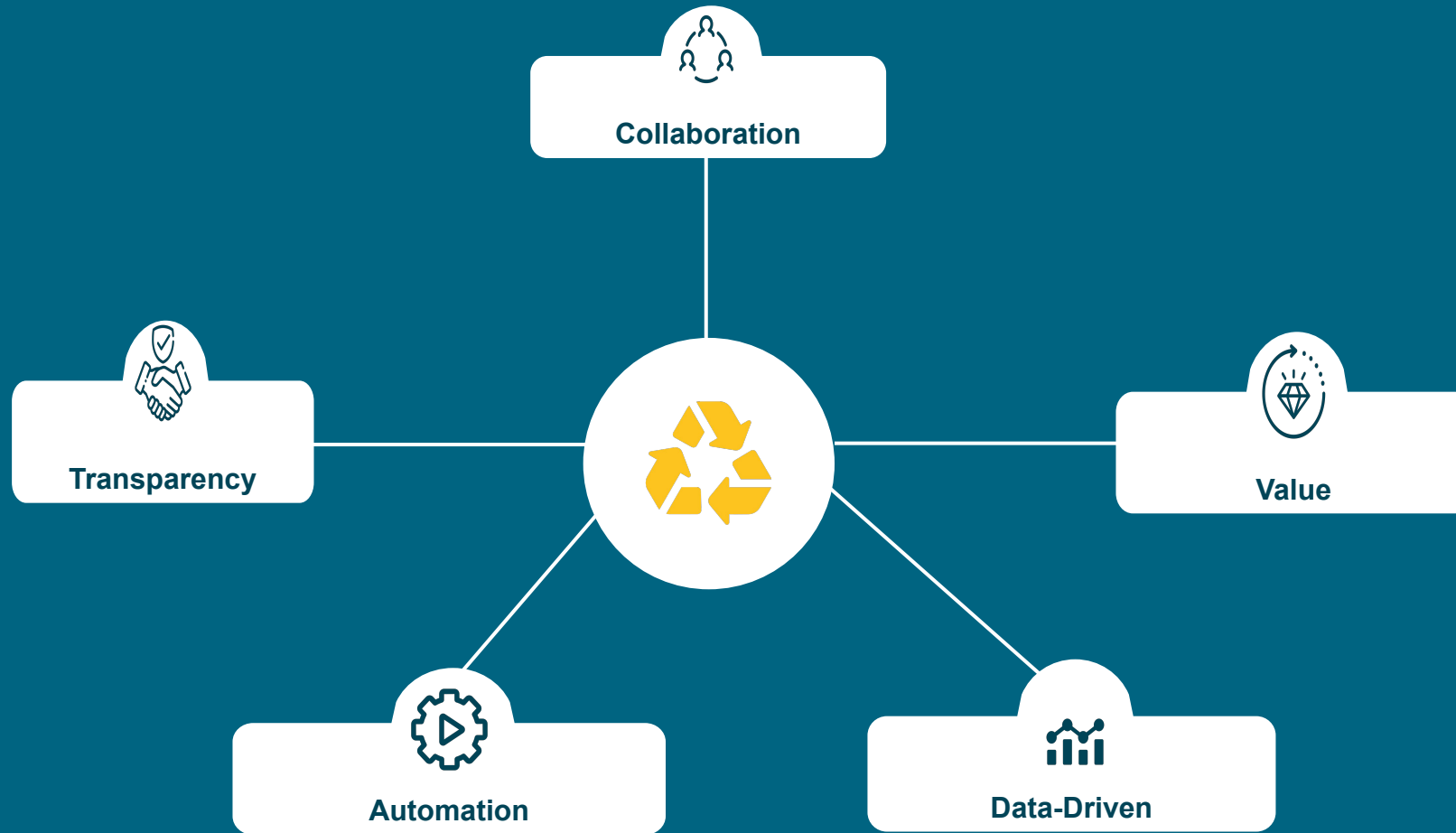
Changing Role of Resource Company in Circular Economy

Waste Companies move from **LINEAR** – *Waste Manager* is managing waste at the end cycle

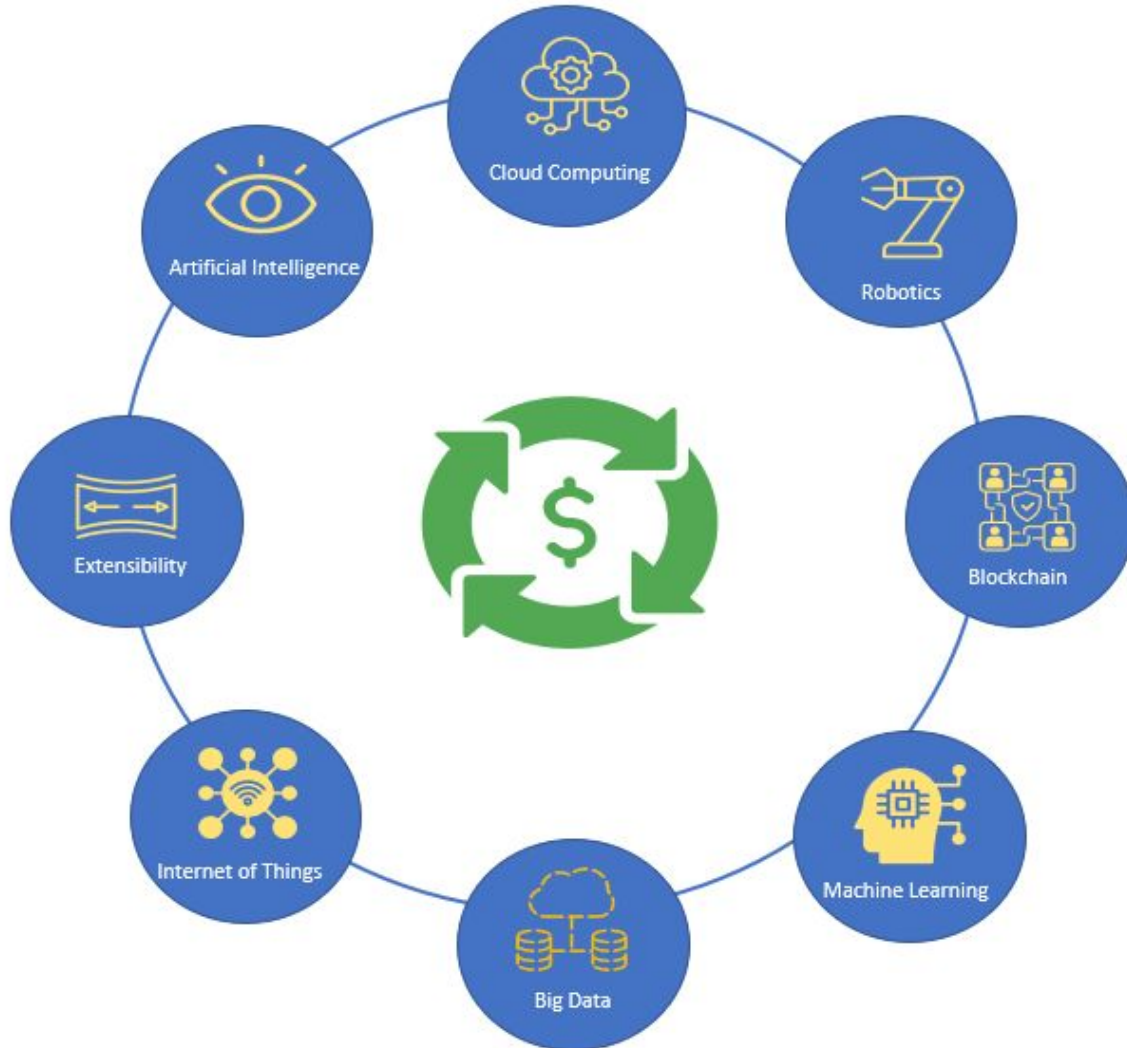


To **CIRCULAR** - *Resource Manager* who sits in the middle of the cycle – where waste is now a resource.

Data is Central to Circular Economy



AMCS Digitalization Driving Circularity



- ✓ Automation across Enterprise
- ✓ Digitization through AI
- ✓ Optimization for decision support
- ✓ Collaboration across the Supply Chain
- ✓ Trading Platforms
- ✓ Extensibility and Open Systems
- ✓ SaaS Cloud foundation

AMCS Partnership with Customers



Reduce their **carbon**
and resource **footprint**



Manage the
resources under
their stewardship
efficiently



Embed
Sustainability into
their organizations



Transition to a
critical role in a
Circular Economy
focus

Best Practice International Examples



Beauparc- Panda (Macquarie Infrastructure subsidiary) pioneer in re-use of construction and demolition waste

Recovery

Repair

Suez Repair Shops called Renew Hub with Greater Manchester City Authority



TSR Metal Recycling (subsidiary of **Remondis**) and Thyssenkrupp – Co-operation on circular economy innovation

Remanufacture

Reuse

Renewi and **IKEA** collaboration on a circular mattress innovation to form a joint company called **RetourMatras**

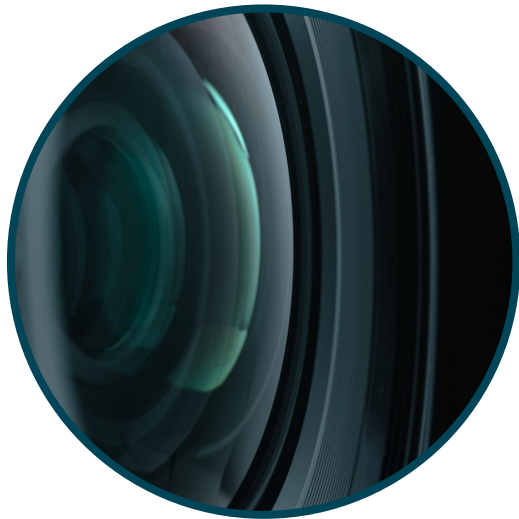


A close-up portrait of a woman's face, looking slightly to the right. The image is heavily layered with digital and technological motifs. Overlaid on her face and the background are numerous binary digits (0s and 1s) in white and blue. There are also various small, semi-transparent images scattered across the scene, including cityscapes at night, a globe, a person's hands, and abstract digital patterns. The overall color palette is dominated by blues, greys, and whites, with some warmer tones from the background lighting.

Introducing AMCS Vision AI

AMCS Vision AI

Camera



Vision AI



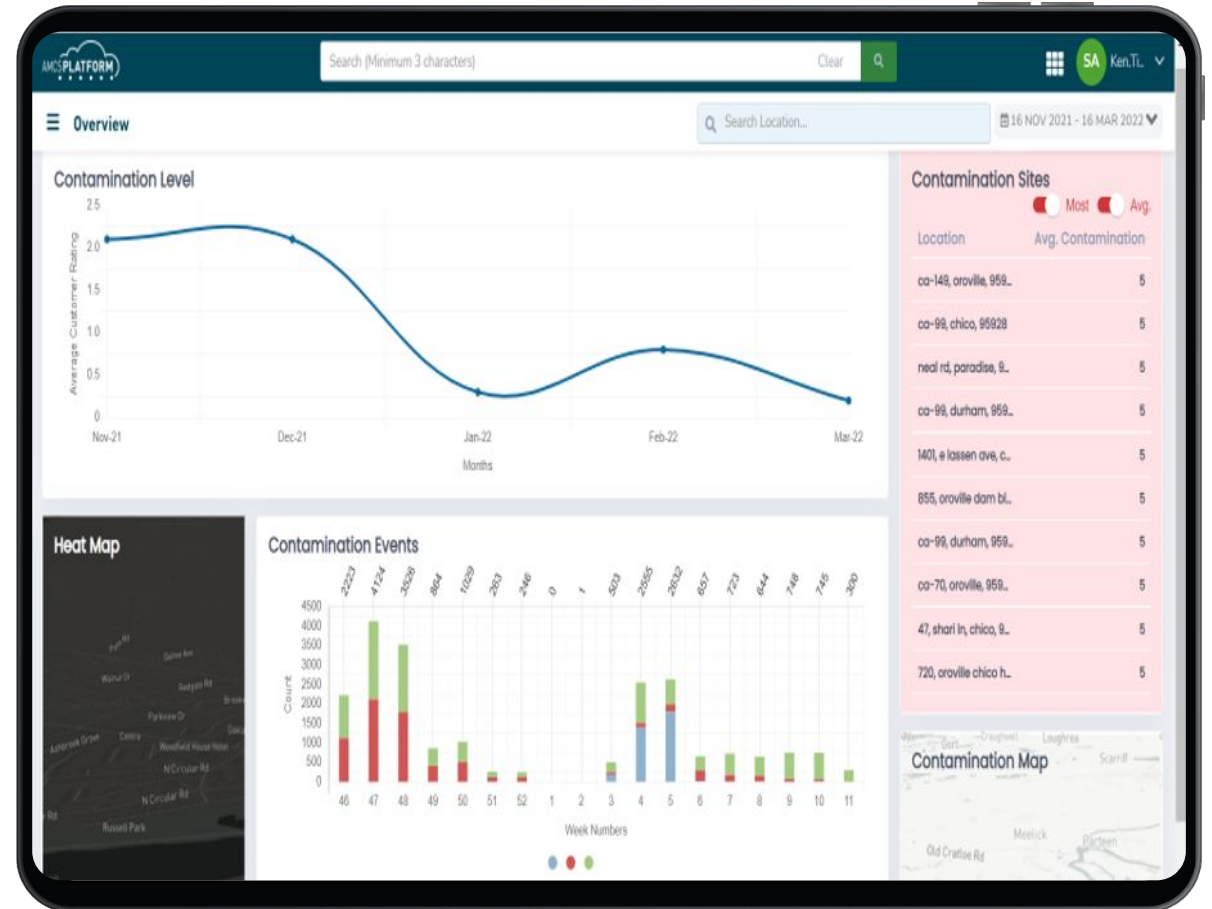
Vision AI Analytics Portal



AMCS Vision AI Data Flow



- Video Stream
- GPS
- Time/ID Stamp
- Event ID
- Vehicle ID etc.



Power of Vision AI

Automation at Scale



**Accuracy/
Repeatability**



Insights



**Actionable
Information**



AMCS Vision AI Benefits



**Reduce
Contamination
Costs**



**Better
Environmental
Outcomes**



**Enhance Staff
Safety**

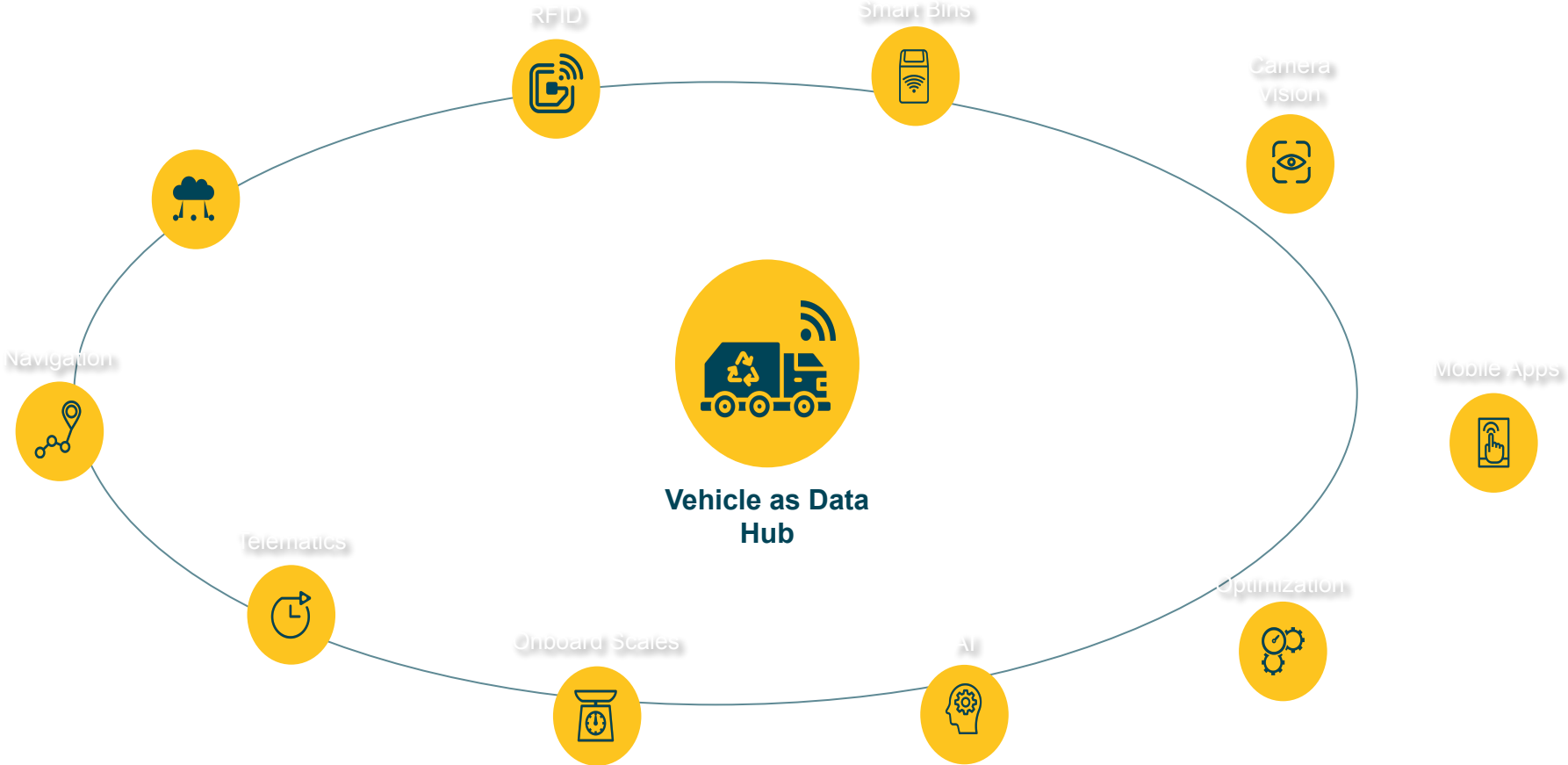


**Increase Public
Trust & Loyalty**

The background of the slide is a complex network of glowing blue lines connecting various colored nodes (white, yellow, orange, red) against a dark blue gradient. The nodes and lines are scattered across the frame, creating a sense of interconnectedness and data flow.

Intelligent Optimization for the Circular Economy

AMCS Intelligent Optimization - Data Driven Logistics



Intelligent Optimization Outcomes



7%

Reduction in Fuel & Emissions



8%

Increase on Orders Serviced



\$900K+

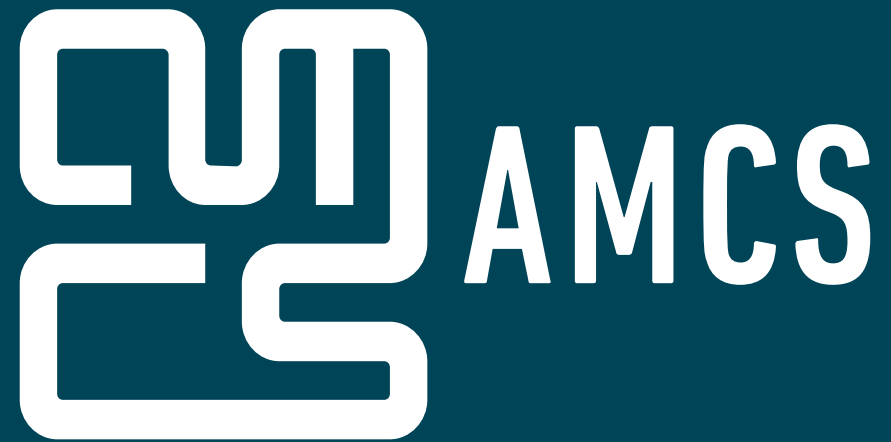
Headcount Transfer



4%

Reduction in Fleet

INTRODUCING



Digital ways to a cleaner world

About AMCS



2003
Founded



22
Offices



1200+
Employees



4500+
Customers



23
Countries



80,000+
Trucks under management

Industries Serviced



Municipal



- Municipal/ domestic waste collection and services

C&I



- Commercial & Industrial waste collection

C&D



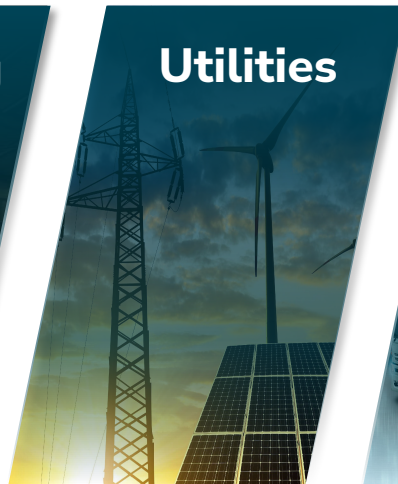
- Construction & Demolition waste collection

Recycling



- Recycling and material trading – Metal, Paper, Plastic, General

Utilities



- Renewable energy bill pay and metering – efficient resource management

Complex Logistics



- Home delivery
 - Retail
 - Fuel distribution
 - Postal
 - Waste and recycling

Compliance & ESG



- Health & safety, environmental management, quality and sustainability

Customer Brands



North America

Europe

Australia/New Zealand



Q&A



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