Delivering digital innovation to the emerging global circular economy

Waste EXPO AUSTRALIA

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AMCS

Delivering digital innovation to the emerging global circular economy

Michael Bates

13:15 - 13:45

Circular Economy + Waste Innovation

Michael Bates

Head of ANZ Region, AMCS

Waste EXPO AUSTRALIA

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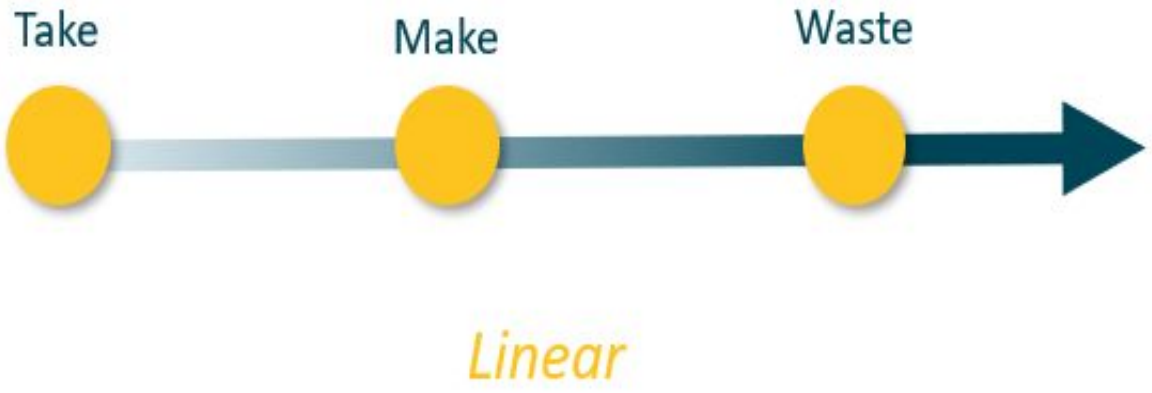
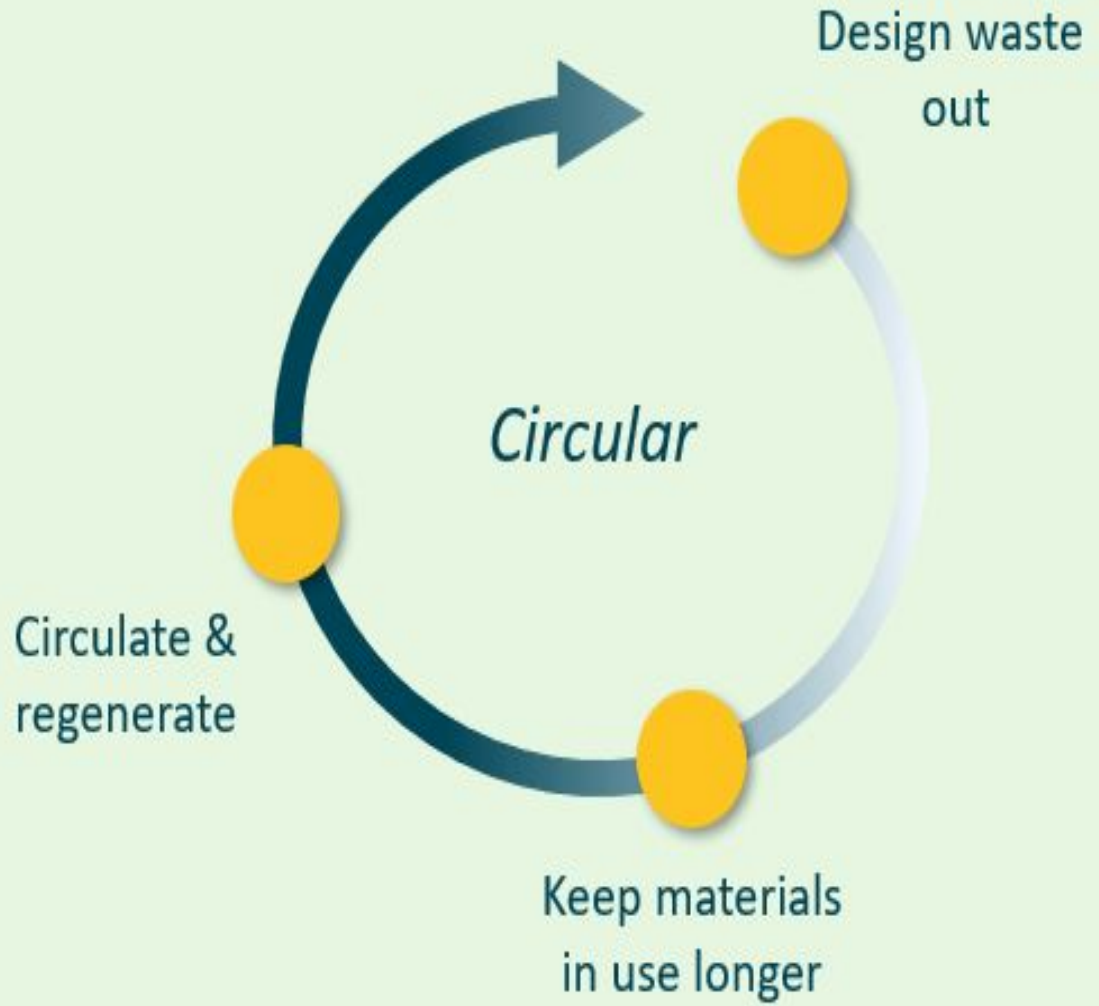
Agenda

- 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



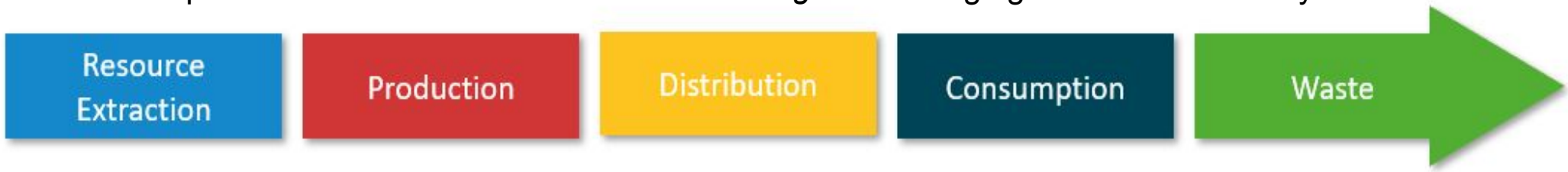


How Circular Economy Drives Value

- 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

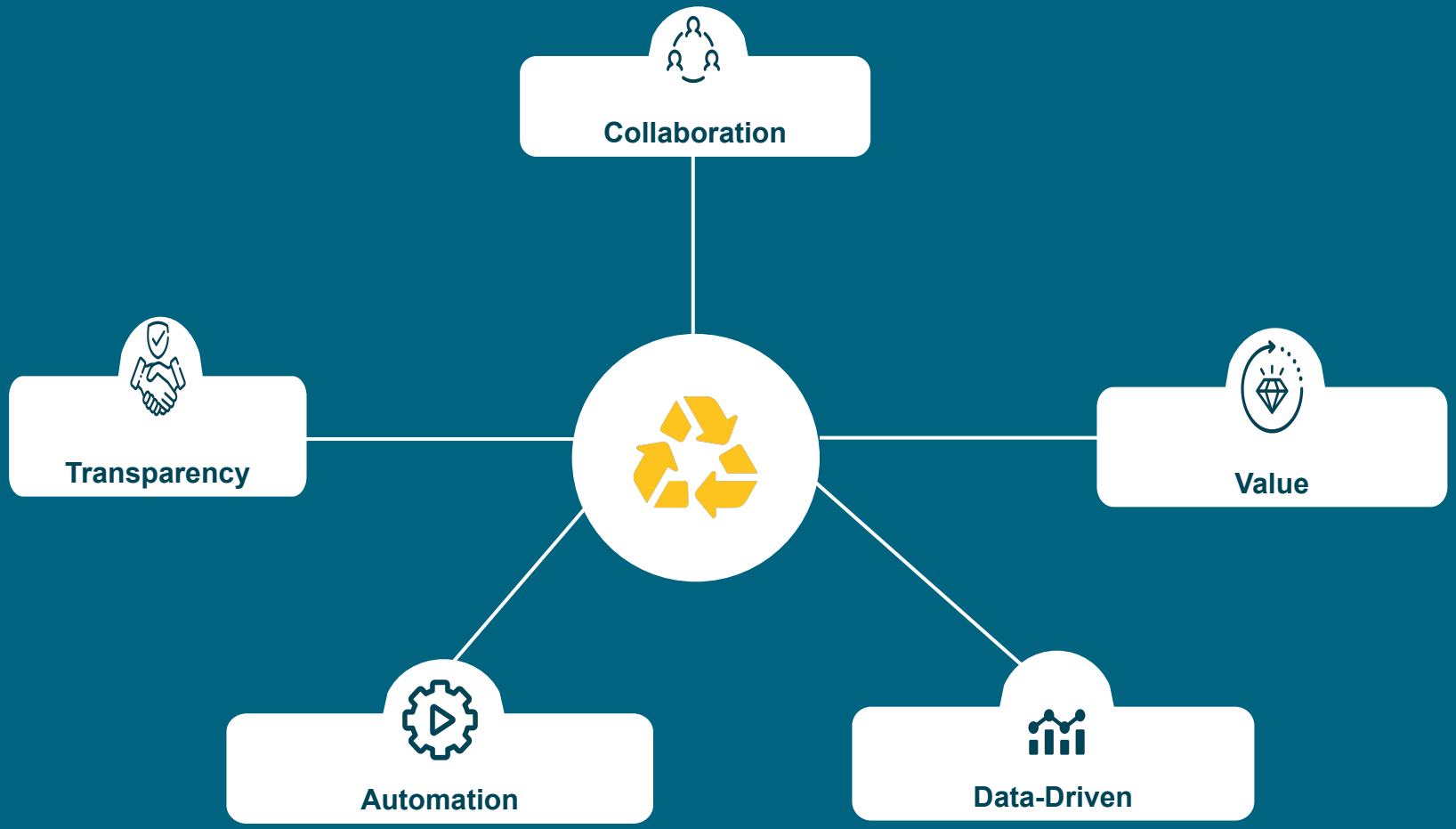
Changing Role of Resource Company in Circular Economy

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

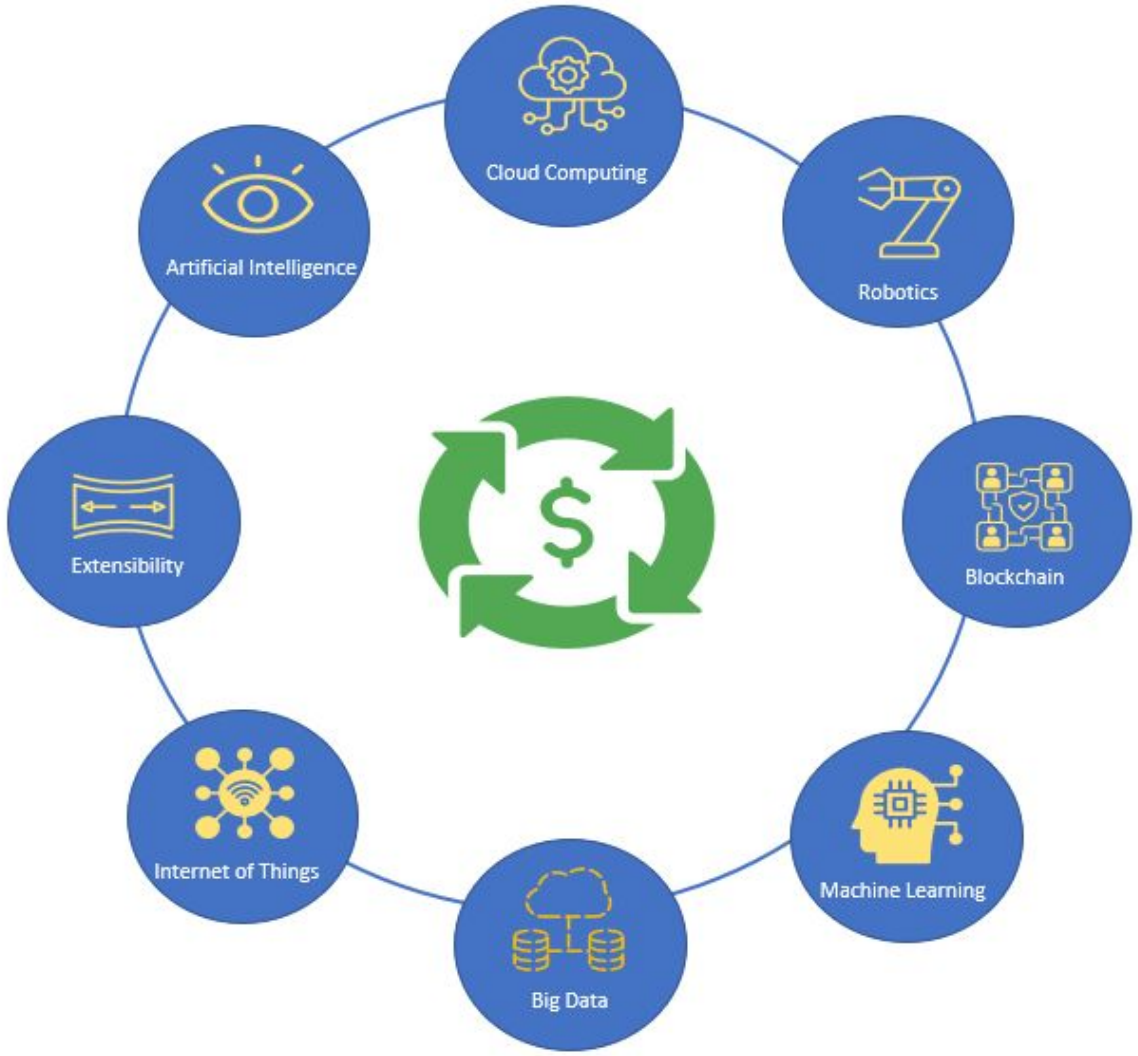


To **CIRCULAR** - *Resource Manager* who sits in the middle of the cycle – where waste is now a resource.

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

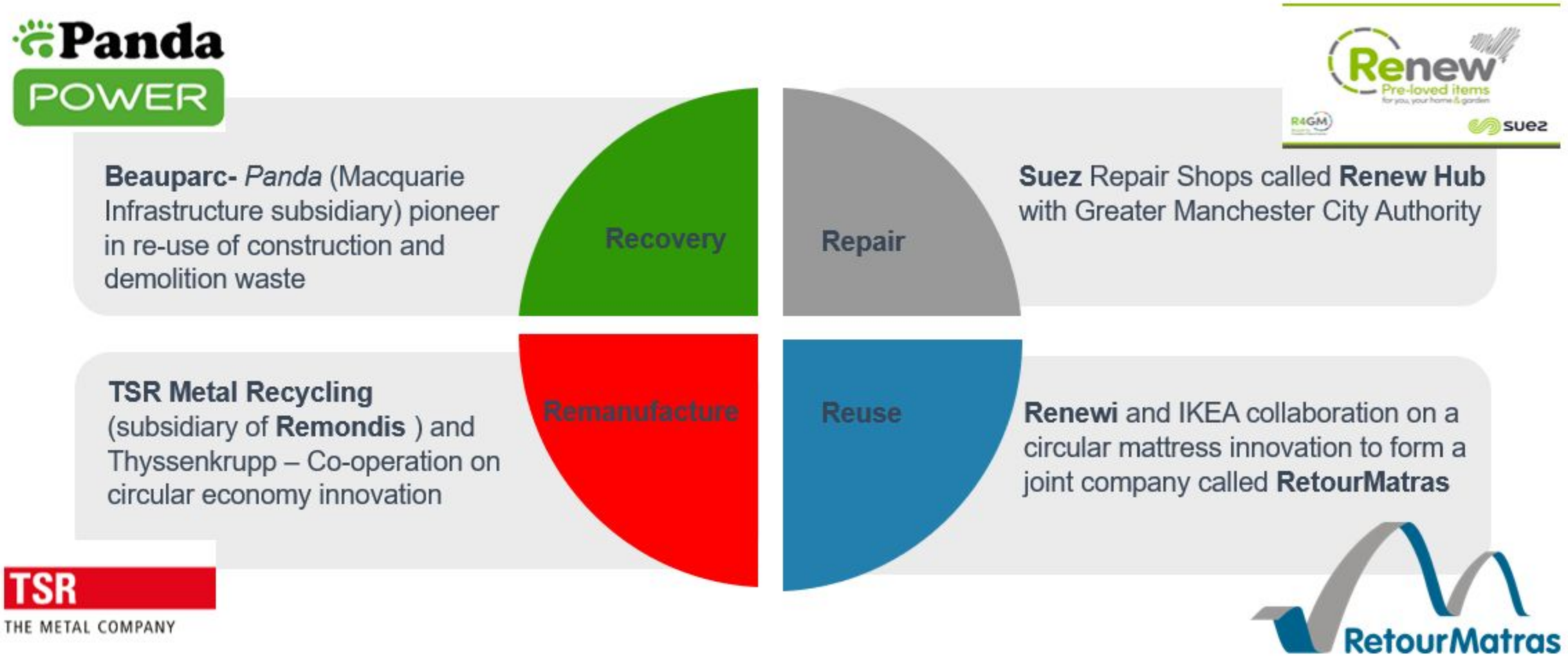
Reduce their **carbon** and resource **footprint**

Manage the **resources** under their stewardship efficiently

Embed **Sustainability** into their organizations

Transition to a critical role in a **Circular Economy** focus

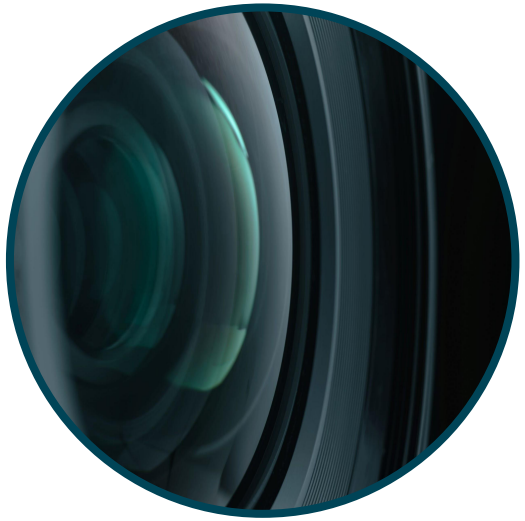
Best Practice International Examples



Introducing AMCS Vision AI

AMCS Vision AI

Camera

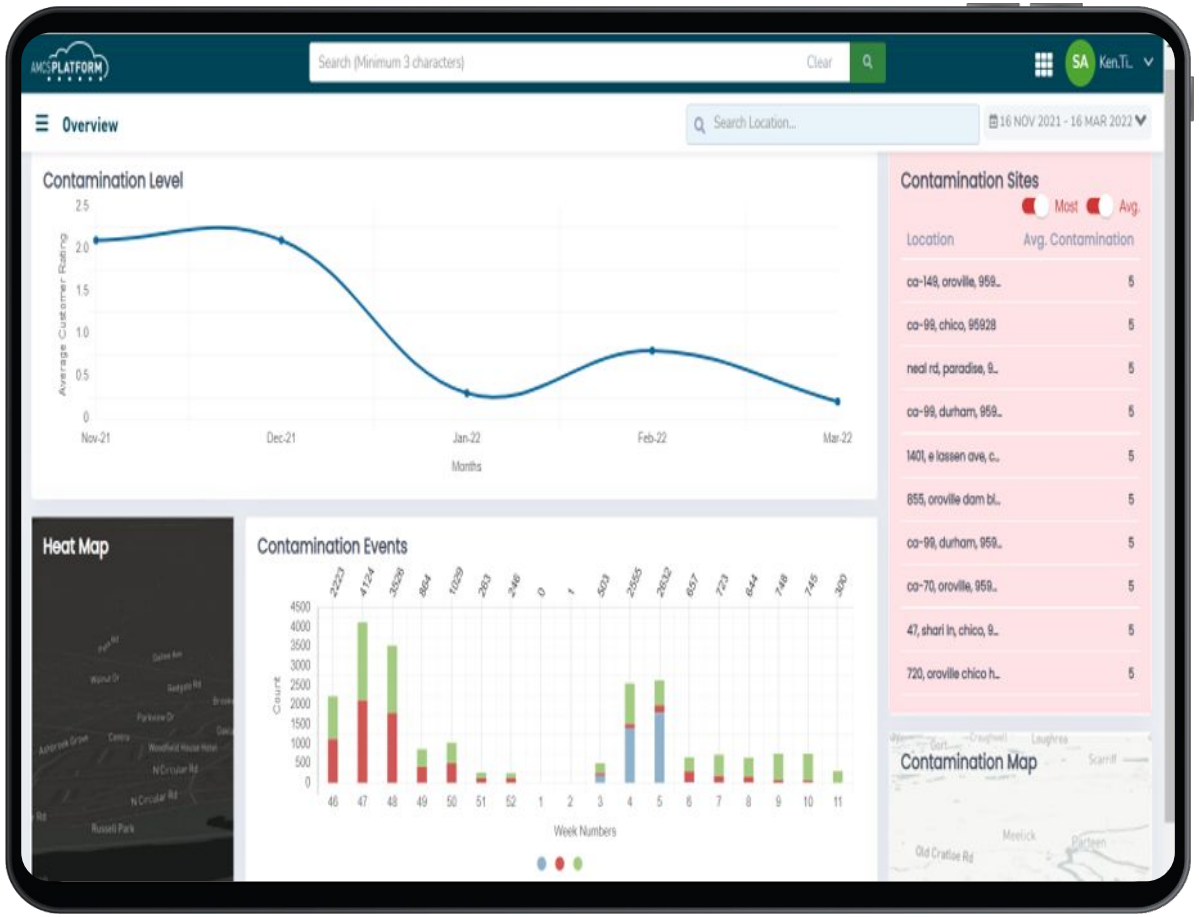


Vision AI

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

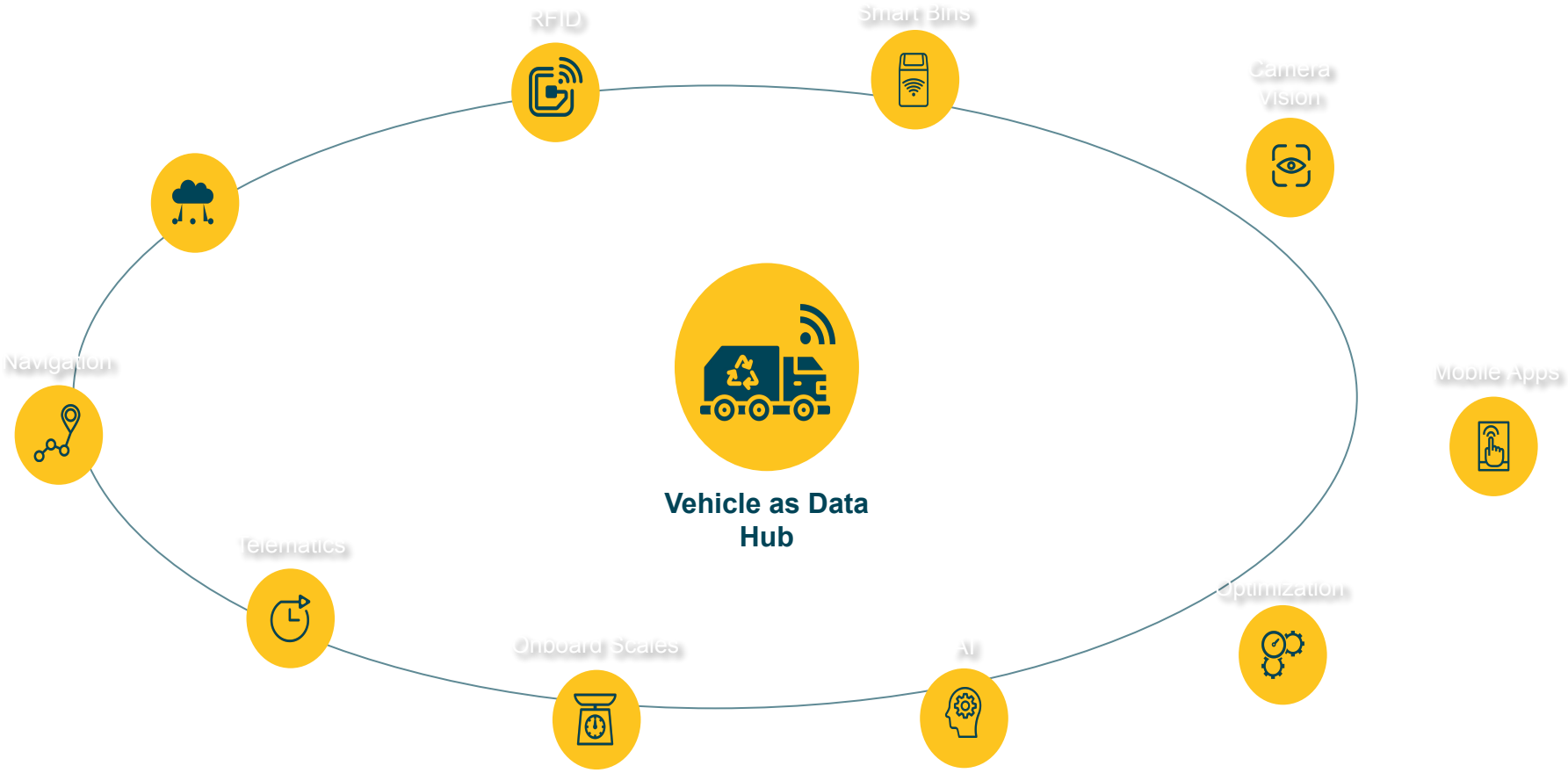
Better Environmental Outcomes

Enhance Staff Safety

Increase Public Trust & Loyalty

AMCS
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

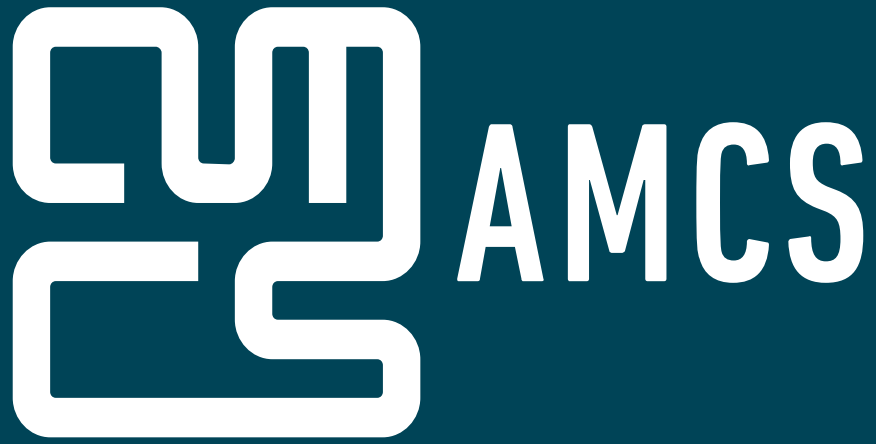
$900K+

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/ domestic waste collection and services

- Commercial & Industrial waste collection

- Construction & Demolition waste collection

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

- Renewable energy bill pay and metering – efficient resource management

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

- Health & safety, environmental management, quality and sustainability

Customer Brands

North America

Europe

Australia/New Zealand

Q&A

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