WASTE FLEETS ARE “SMARTENING” UP

New Directions in Smart Truck Technologies & Capabilities
WHAT DO TODAY’S FLEET MANAGERS NEED?

Fleets that are:

Efficient  Responsive  Environmentally friendly  Accountable
ENTER THE ERA OF THE “SMART TRUCK”
“SMART TRUCK” Components

- Telemetry Module
- GPS Positioning
- Configuration
- Message Store
- Process Workflow Driver Interface
- Driver Directions
- Back-up and peripheral video cameras
- Video capture & display
- Communications Manager
- Alarm Module
- Shock detection
- Messaging Interface
- RFID or Bar Code Interface
- Scale Interface
- Engine ECM
- Transmission, Brakes, Ignition, Angle Switch Etc...
- RF/Cellular/Satellite/Modem, Cables, Antennas
- On-Board Scale
- RFID or Bar Code Interface
8 REASONS WHY SMART DISPLAYS ARE A “MUST HAVE” FOR MUNICIPAL WASTE ORGANIZATIONS
1. IMPROVED CUSTOMER SERVICE

- Problem-free customer experience
- Faster and more accurate responses
- Real-time communications and connectivity
2. BETTER MEASURE RECYCLING PARTICIPATION

- Track every pickup in real-time
- Measure participation
- Accurately tally any credits
3. COMPLETE VISIBILITY AND OVERSIGHT

- Complete visibility into driver and truck activity
- Single point of interface
- Integrate several inputs
4. OPERATE MORE EFFICIENTLY

- Proactively track and monitor fleet activities
- Real-time reporting solutions to evaluate overall operational efficiency
- Ability to track:
  - Driver activity, performance and scoring
  - Fuel consumption
  - Fleet performance
- Managers can monitor all vehicles for issues
5. TRACK CARTS AND ASSETS

- RFID tags for each customer address
- Real-time inventory management updates
- GPS feature for view into truck operations and inventory status
- Ensures immediate and accurate billing information
6. IMPROVED SAFETY RECORD

- Easy to implement and monitor safety initiatives
- Real-time visibility into driver activity and behavior
- Safe driving alarms and rear view cameras
- Reduces driver distractions
7. “GREENER” FLEET

- Improve fuel consumption management
  - Reduce idling
  - Identify aggressive driving and maintenance problems
- Reduce overall mileage
  - Optimized routes
- Improve driver behavior
  - Monitor driver behavior
  - Allow managers to work proactively with drivers
8. IMPROVE THE DRIVER EXPERIENCE

- Increase safety and productivity
- Easy and intuitive bi-directional communication
- Single-point interface (No cell phones or mobile devices)
- Easy integration and control
MANAGERS BENEFIT FROM SMARTER FLEETS

(How can you manage what you can’t measure?)

- Improved ability to make decisions
- Better align their organization
- Increase operational efficiencies
- Address issues more quickly

![Dashboard](image)

![Residential](image)
CASE STUDY – CALIFORNIA WASTE RECOVERY SYSTEMS

• Problems:
  • Billing inefficiencies
  • Customer service delays

• Solution
  • On-board computing system with integrated reporting and mapping

• Results
  • Next-day billing
  • Increase operational efficiencies
  • Service verification
  • Cost savings
  • Billing accuracy
  • Better billing reconciliation
CASE STUDY – KIMBLE RECYCLING & DISPOSAL

• Needs:
  • Reduce overtime
  • Enhance route optimization
  • Improve customer service
  • Improve safety initiatives

• Solution
  • Onboard computing system with integrated driver/vehicle reporting and mapping

• Results
  • Easy access to vehicle and route data
  • Real-time service verification and tracking
  • Enhanced safety through driver and vehicle tracking
  • Improved overall efficiency
  • Voted Favorite Garbage Service
CLOSING THE GAP

- Efficiency
- Communication
- Accountability
- Safety
Questions?
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