SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES

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**IDEAS ON SMART WASTE MANAGEMENT SYSTEM:**

**IDEA 1:**

• City administration needs an understanding of the big picture, generating reports, control over pricing etc.   
• District administrations are interested in controlling the process of waste collection, checking the quality of service (all waste collected, all in time, waste collected cleanly, waste transported to special places), quick and legal ways for solving disputes and problems.   
• Municipalities can also deploy and maintain smart city infrastructure like capacity sensors in waste bins and wireless networks for data transferring.

**IDEA 2:**

• Waste trucks owning companies need a platform for organizing and optimization of their business process in general without serious investments in developing, deploying and supporting their own system. Such a system must include effective dynamic routing based on IOT data for the truck fleet. Besides, controlling drivers and tracking the fleet is also an important issue.   
• Waste truck drivers need a navigation system for fulfilling their tasks. Another issue is reporting problems and passing them to the operators in the office instead of thinking about how to solve the problem, this can sufficiently save the time of a driver and vehicle. Drivers also need evidence that their work was done correctly and cleanly.

**IDEA 3:**  
• Managers of dumps and recycling factories can publish their possibilities or needs in acquiring a certain amount of waste for storing or recycling.   
• Staff that is responsible for trash bins in the current yards needs communications with waste management companies and truck drivers.   
• Road police can get reports about inaccurate car parking that leads to the impossibility of waste collection. • Citizens want to have better service, lower cost and having easily accessible reports on what has been done and how much it cost.