**Traffic Management**-Real-Time; Updates users with real-time traffic data-Crucial

People behave differently when loved one’s pass- Safety/Security

**Under smart traffic management**

1. Real-time traffic updates
2. Adaptive traffic control

**Adaptive traffic control**- always a reason behind it even if we don’t see it (changing a perfectly green light to red no one knows why)

**Another type of traffic control:**

* Marathons use adaptive traffic control for certain roads to get blocked due to runners and the traffic is rerouted accordingly.
* Natural disaster(hurricane) all traffic systems are adjusted to prioritize evacuation routes

**Energy Management**

* During summer months your AC is recommended to be set at 75 degrees F instead of 60 degrees F- lower temperatures consume significantly more energy.
* Smart and efficient energy management optimizes energy use.
* AI-driven systems generate suggestions and even analyze entire housing plans.
* **Example:** Houses built before 2005 lack smart windows, leading to higher energy consumption. AI can identify these inefficiencies and suggest upgrades to improve energy efficiency.

**AI in Predictive Policing**

* AI can analyze crime rates and mobilize police forces accordingly
* **Example:** During Pride month data might show an increase in LGBTQ-related crimes in certain areas. AI can anticipate crimes based on location and patterns ensuring law enforcement presence where it’s needed most.

**Waste Management**

* The biggest issue?
* Difference between people who recycle vs those who don’t
* People don’t always know the difference between trash and recyclables.
* Plastic bottles take 300 years to decompose
* Paper cups should go in the trash while Amazon boxes should be dropped off for repurposing not recycled.
* Anything made of paper can be composted but items like leather bags with buckles and zippers cannot.
* Microplastics should always go into recycling
* Nobody can protect the Earth more than us.
* Some countries are forced to be more considerate due to environmental policies.

**Social Responsibility and Recycling Incentives**

* In some places you get money for recycling bottles.
* **Example:** California offered 10 cents per bottle to encourage recycling. People exploited the system; they brought in bottles from other states, made millions and got arrested.
* California introduced the recycling law with good intent to keep the state clean. But now it’s not just that Californians recycling people from other areas bring bottles in for profit.

**AI in Environmental Monitoring**

* Weather and air quality matter
* Humidity affects pollution levels

Water Quality alerts – messages telling you to boil your water. When sensors detect poor water quality AI can trigger automated safety alerts.

**Smart Transit and Event-Based Transportation**

* Big events like Mardi Gras/Trump’s inauguration increase public transit demand.
* AI helps cities adjust transit schedules based on real-time and forecasted demand.

Smart Parking & Ticketing Systems

* Before smart tickets there were integrated smart systems. Use cases where AI has solved problems and problems that still exist.