Automated Parking Systems

Users

App

Cloud

API

Analytics

Databases

Internet

Sensors & Network

Product

Parking Lot

Parking Lot
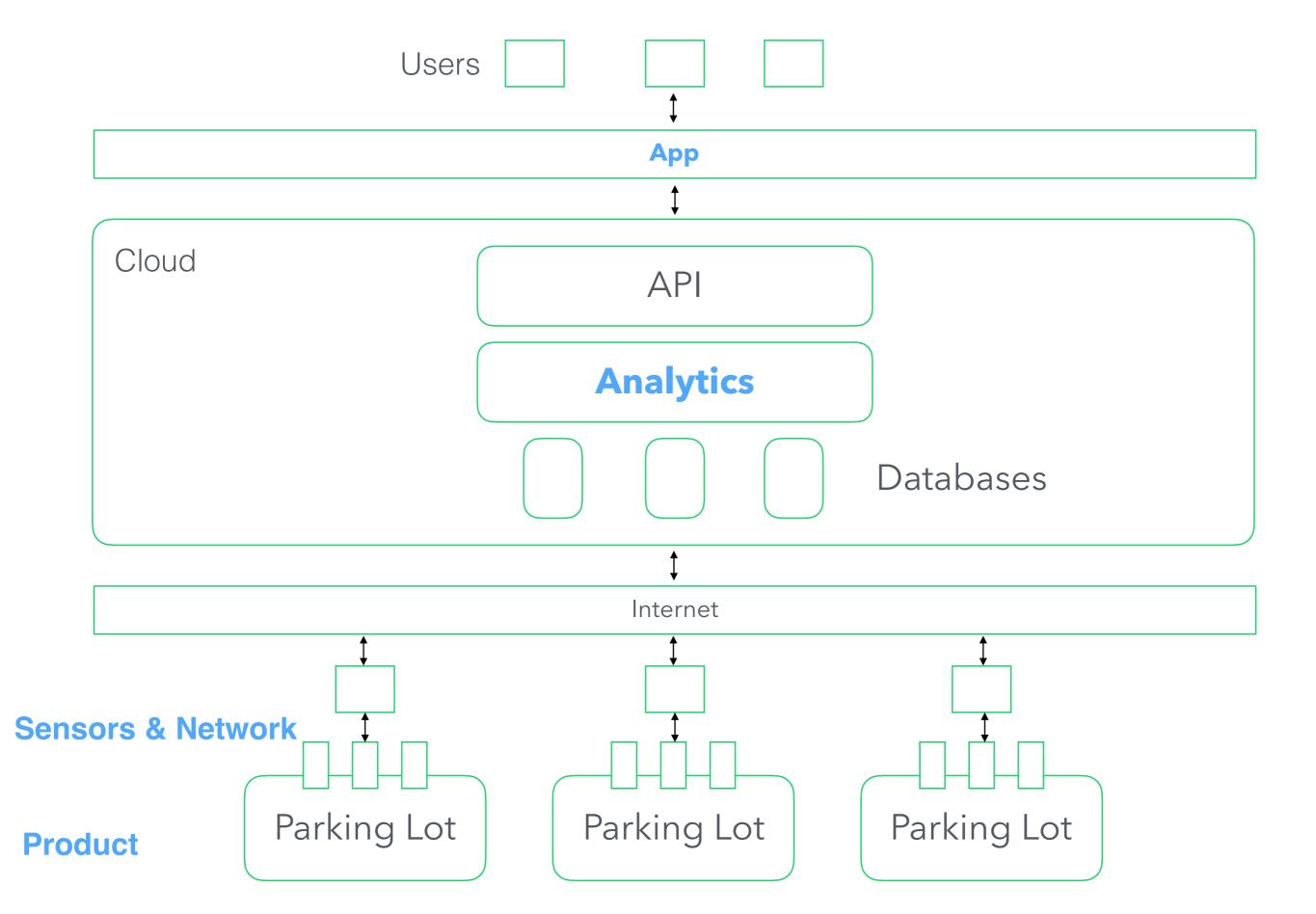
Parking Lot

Problem: 30% of urban traffic is caused by people looking for parking. This leads to wastage of fuel, time and in some case business opportunity.

Users: People who drive cars, Businesses

Stakeholders: Government

Solution - Features

- Monitor Parking spaces via sensors in entry/exit points or even at each floor levels.

- Provide suggestion for closest parking near destination.

- Predict occupancy percentage at each lot for estimated arrival time.

- Update suggestion based on real-time usage while user is in transit. May redirect to other nearest lot.

- Provide dynamic pricing based on demand analytics.

- Reserve spots - This can be done only if user is nearby.

Business Case - Users, Businesses

- Drivers can save time by directly going to nearest available parking.

- Save fuel costs of idle time in congestion/traffic.

- Businesses provide better experience to user by increasing predictability and assurance.

- Businesses can capture more revenues by dynamic pricing based on demand analytics.

Other Considerations

- Government needs to provide incentive for adoption by businesses/public parking lots.

- Company with expertise to deploy the solutions physically.

Business Case - Government

- Economy is helped by reducing dependency on fuel(usually imported)

- Better traffic management so less strain on government resources for infrastructure.