



UTMC

RTI

SMARTCARDS

- What are they ?
- Where are we in Kent ?
- How do they join together ?
- Where are we hoping to go ?



UTMC - Urban Traffic Management Control

- Joining up information from all systems to allow monitoring and management of the network.
- Real-time control and information provision
- Historic analysis for incident management and improvements.



Traffic Management Centre

- Opening Hours
 - Monday – Friday 06:30 – 19:00
 - Saturday 08:00 – 17:00
- Extended hours
- Changing role
- Fault control
 - 293 junctions
 - 377 pedestrian crossings
- Training







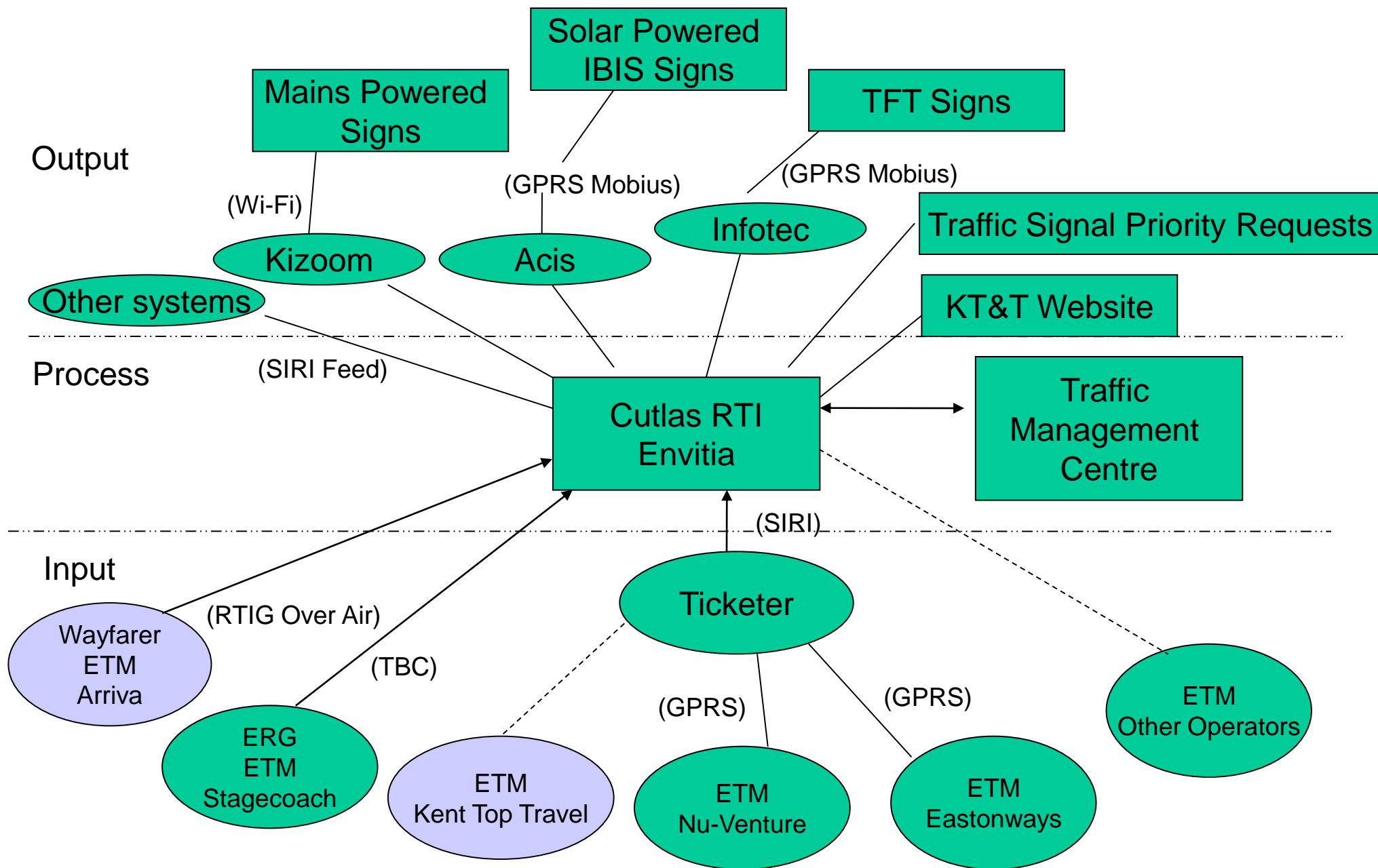
Public Transport Integration

- Information for passengers at bus stops and transport interchanges, using all data sources.
- Bus priority across the network, coordinated through UTMC.



RTI Real-time Information

- Closed Systems
- Costs and flexibility
- Currently 315 buses, 100 signs.
- Need the whole 800
- New technology
- Splitting into parts. SAM
- Transfer Processing Display





Smartcards

What are they

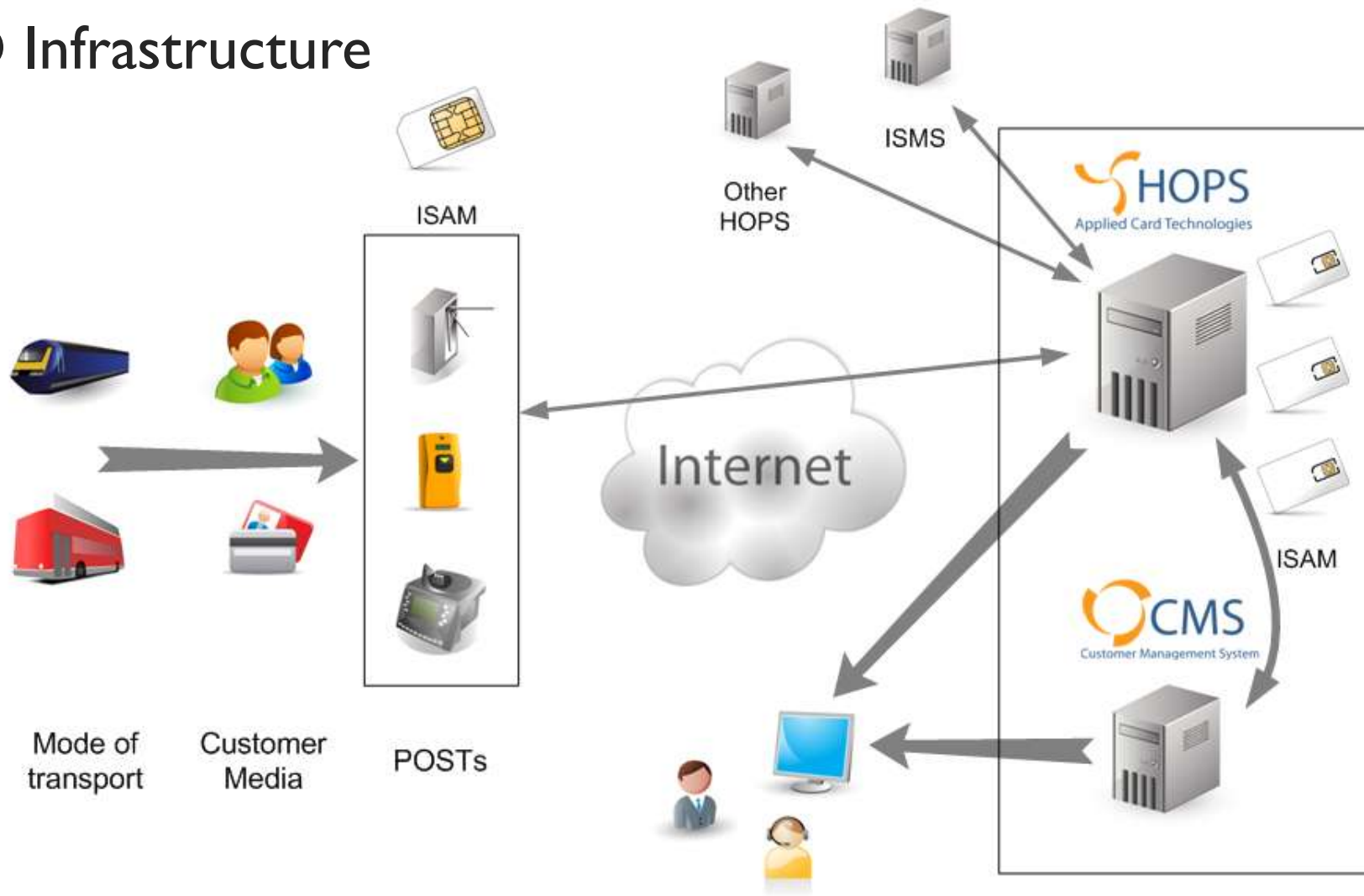


- Electronically enabled cards with permissions or value encoded.
- When placed against or close to a reader the validity is checked and details of use stored.
- All transactions downloaded overnight
- Passed to appropriate central iHOP and filtered from there.





ITSO Infrastructure





How do they join together?

- Smartcards are read by ETM
- Same ETM can communicate to UTMC giving location information & inserting priority requests





Where are we hoping to go?

- ETMs on every bus
- Kent Freedom Pass (KFP) Smartcards
- Accurate reimbursement for ENCTS and KFP concessionary fares
- Potential “Kent Card” with wider applications
- RTI feed for the UTMC and RTI signs



Wayfarer 200 ETM

- 2 Market Surveys

- 30 Years Experience

- Extensive, focused multi-disciplinary development effort





Traffic Signal Priority

- Currently based on local message to junction
- From GPS/radio or Sietags and loops
- Possibilities of more intelligent and considered response from UTC and other types of detector ANPR
RFID vehicle type recognition loops



Information Dissemination

- Signs
 - Real Time information
 - Accurate and reliable information
 - Solar-power, Poles, and TFTs
 - Working with partners to deliver



Information Dissemination

- Current Website - www.kent.gov.uk/traffic-and-travel
 - Information for varied users
 - Links to information sites
- New Website
 - Easy to use format
 - Accurate and reliable information managed by the TMC through Cutlas





Information Dissemination

- Feeds
 - Providing data to Traveline
 - And possibility of others such as
 - Shopping Centres
 - Train Stations



Information Dissemination

- Development of email alerts
- Twitter
- Greater integration into wider KCC organisation
 - Winter service
 - Highway hubs
 - Contact centre
- Traffic and travel web site
- Liaison with RCC
 - Tactical Diversions
 - Jurisdiction agreement



Web Based Operating System (WeBOS)

- Access to CUTLAS for stakeholders:
 - Kent Highway Services
 - District and Borough Councils
 - Car Park operators
 - Public Transport operators

Limited according to account by area and / or equipment type



Making better use of historic data

- Monthly reporting of journey times from ANPR data
Comparison with journey times achieved overnight
- Monthly reporting of traffic flows
- Developing wider range of off-line data analysis tools