



EasyWay



National Traffic Control Centre Highways Agency, England

Himadri Hazarika (*IBI Group*),
Dr. Mahendra 'Mandi' Patel (*IBI Group*),
Pete Radford (*Serco*)

DATEX II Forum Berlin
March 16/17 2010

Highways Agency (HA)

- Managing, maintaining and improving England's motorways and trunk roads
- Information to enable smarter travel choices

National Traffic Control Centre (NTCC)

- Strategic signage and real time traffic information delivery to partners and public
- PFI contract, 2001 – 2011, Traffic Information Services (Serco)

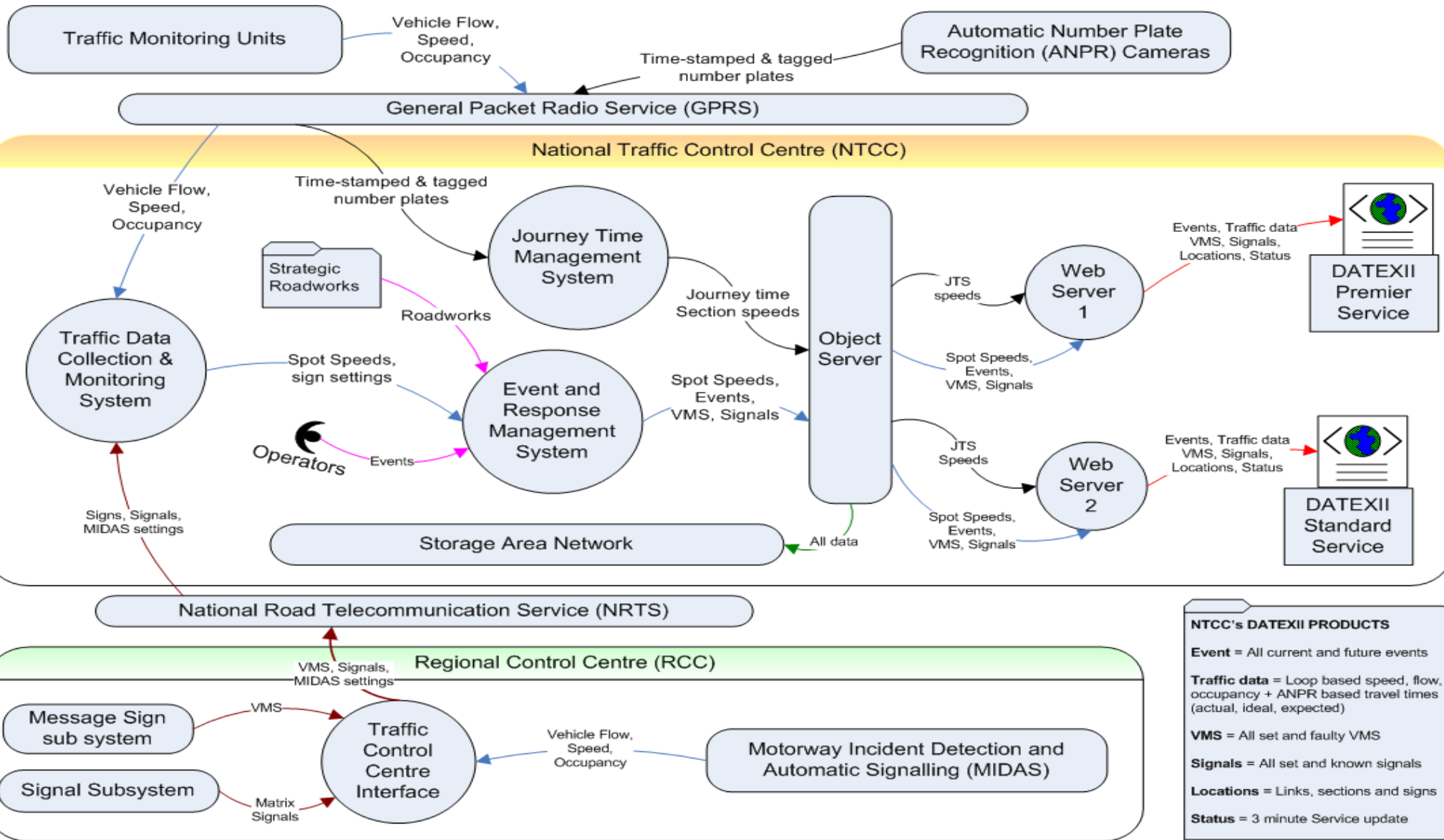
NTCC Information Services

- Websites – Traffic England, Atlas Pro
- TIH feeds – DATEXII, UTMC, CORBA, TPEG, OTAP
- Others – RSS, IVR, Emails, Desktop, HAIL, Traffic Information Provider

NTCC DATEXII service

- Pre release version 47 – Pilot (2006)
- Version 1.0 – Production (July 2007), Last update (Jan 2010)
- Version 2.0 – Awaiting standard publication

NTCC – DATEXII Publisher service system environment



NTCC's DATEXII PRODUCTS

- Event** = All current and future events
- Traffic data** = Loop based speed, flow, occupancy + ANPR based travel times (actual, ideal, expected)
- VMS** = All set and faulty VMS
- Signals** = All set and known signals
- Locations** = Links, sections and signs
- Status** = 3 minute Service update

22 products

- 1M – 30M
- Regional

Premier Service

- 2 minutes

Standard Service

- 10 minutes

Information Product	Premier Update Frequency	Standard Update Frequency	Estimated Payload Size
Current Roadworks	2 minutes	10 minutes	1 M bytes
Future Roadworks	6 hours	6 hours	2 M bytes
Current Planned Events	2 minutes	10 minutes	10 K bytes
Future Planned Events	6 hours	6 hours	200 K bytes
Unplanned Events	2 minutes	10 minutes	50 K bytes
Variable Message Signs	2 minutes	10 minutes	3 M bytes
Matrix Signals	2 minutes	10 minutes	9 M bytes
All Traffic Data	5 minutes	10 minutes	30 M bytes
Journey Times Traffic Data	5 minutes	10 minutes	500 K bytes
NERCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
NWRCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
SERCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
SWRCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
EMRCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
WMRCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
ERCC Loop-based Traffic Data	5 minutes	10 minutes	4 M bytes
ATM Loop-based Traffic Data	5 minutes	10 minutes	1 M bytes
Dartford PCO Loop-based Traffic Data	5 minutes	10 minutes	1 M bytes
All Predefined Locations	On occurrence within 5 minutes	On occurrence within 5 minutes	25 M bytes
Journey Time Sections Predefined Locations	On occurrence within 5 minutes	On occurrence within 5 minutes	1 M bytes
Links Predefined Locations	On occurrence within 5 minutes	On occurrence within 5 minutes	14 M bytes
Variable Message Signs and Matrix Signals Predefined Locations	On occurrence within 5 minutes	On occurrence within 5 minutes	9 M bytes



Publisher Inputs

- Traffic data every 5 minutes
- Processing time upto 13 minutes

Service Status

- Service update
- Payload update

TIH feed registered users

- DATEXII – 45
- UTMC – 7
- CORBA – 10
- OTAP – 2

Premier service (3 users)

- Every 2 minutes
 - Google
 - Journey times through roadworks (Mouchel)
 - Southwest RCC

Standard service (42 users)

- Every 10 minutes
 - 20 local authorities
 - Traffic Scotland
 - Media
 - 20+ research and traffic information providers



NTCC – DATEXII for Google Maps



[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Mail](#) [more](#) ▼

[New!](#) | [Help](#) | [Sign in](#)

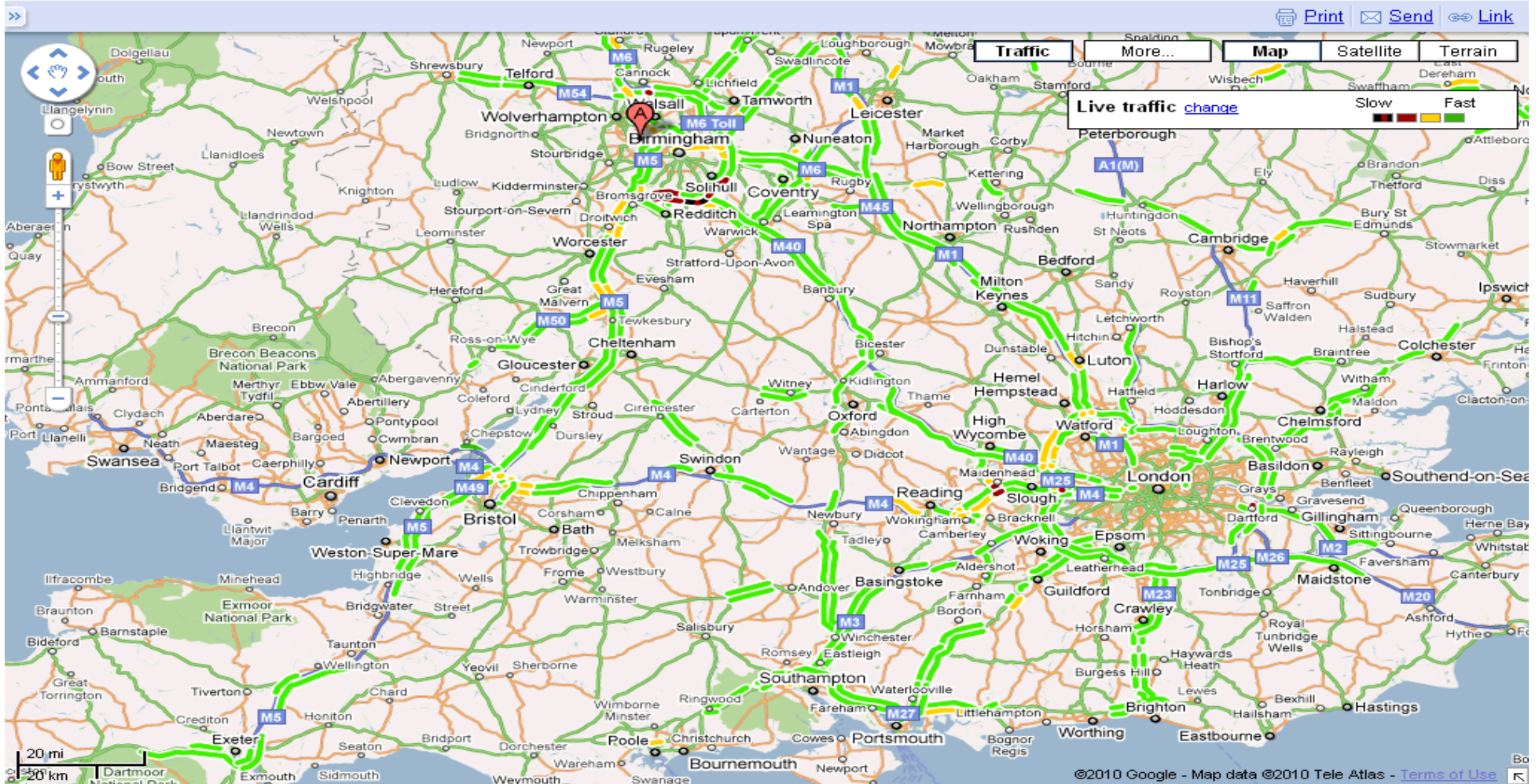
Google maps

NTCC DATEXII service

Search Maps

[Show search options](#)

Find businesses, addresses and places of interest.





Change and relationship management

- With the customer (HA)
 - Joint Improvement Process (JIP)
 - Reactive to contract and Agency requirements
- With the users
 - Email survey questionnaire
 - Updates notified by email after the change
 - 24/7/365 ICT contact by email and telephone
 - Limited support to users for their receiver development
- DATEXII development group
 - No direct contributions to development
 - DATEX specification queries to Dr. Tim Wright

Incorrect usage of the feed

- Server Connections and Frequency of Downloads

Incorrect Monitoring of service outage

- Metadata / If-Modified-Since / Polling every 10 minutes

Size of downloads

- Load analysis – requires hardware upgrades

Awareness of the service

- Minimal amongst non ITS / NTCC traffic community

Development of receiver

- Time and cost, software sharing

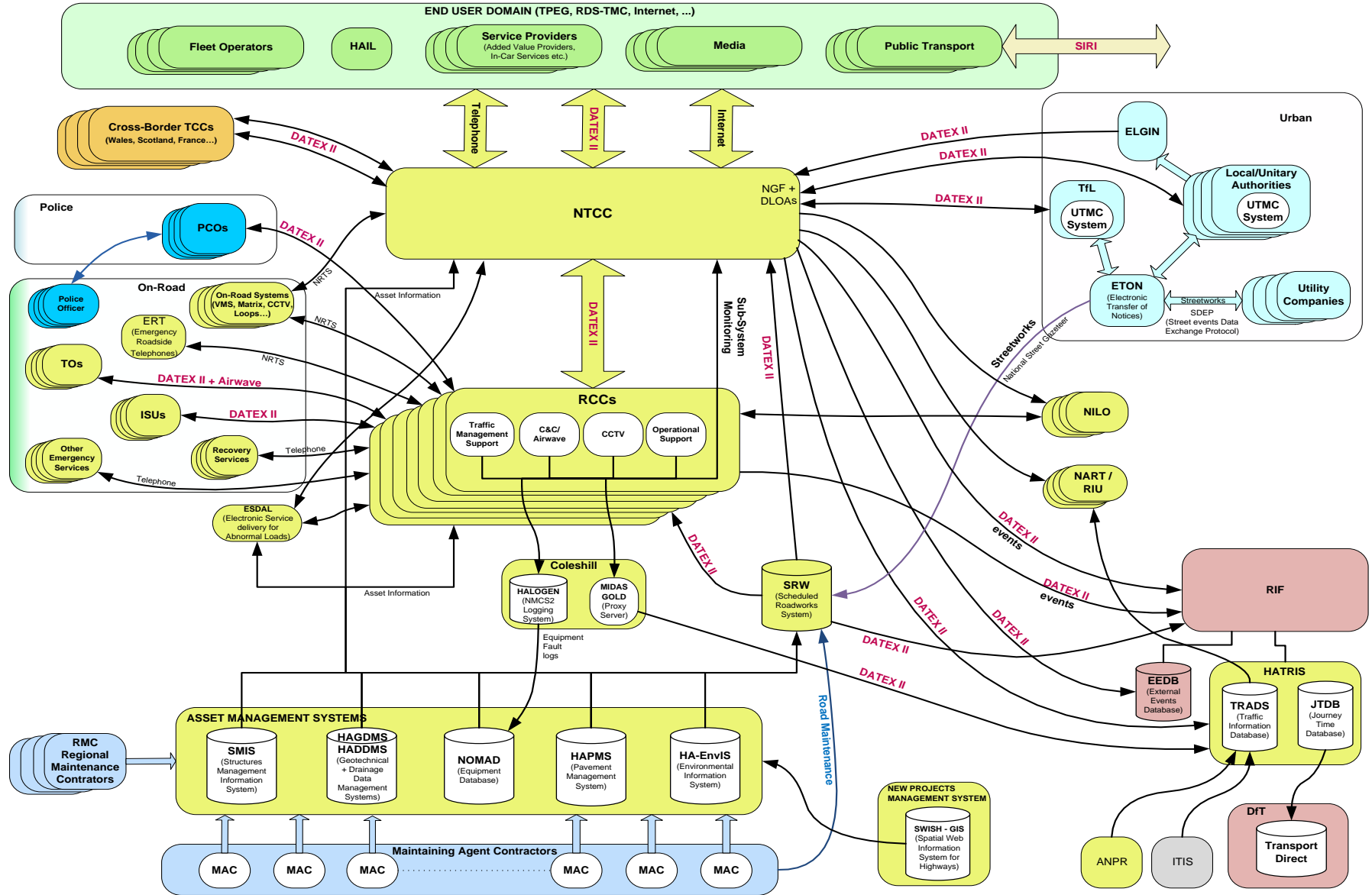
Updates take up

- January update, good trial but no current users

Pictograms

- Numbers and Consistency with HA standards

Future – NTCC and HA Operational Interfaces



Thank you

Email queries to

hhazarika@ibigroup.com