

ISA for London

A nighttime photograph of the London skyline. The London Eye is prominent on the left, illuminated against the dark sky. The River Thames flows through the center, with several bridges crossing it. The Houses of Parliament and Big Ben are visible on the right, also illuminated. The city lights create a vibrant scene.

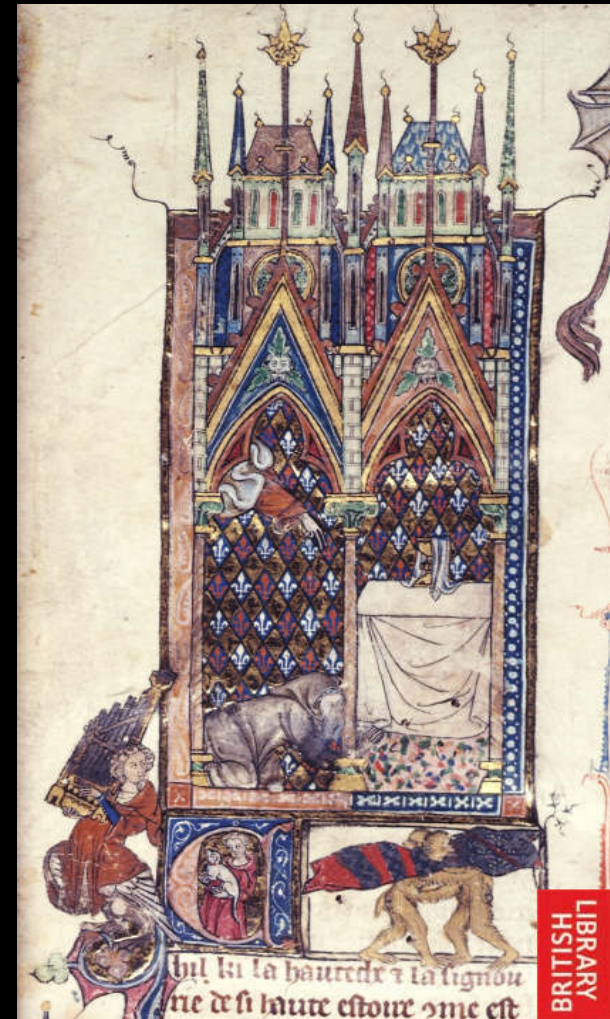
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What is ISA and what are the different types of ISA?

Why are we looking at ISA?

What are we doing in London?

What is ISA ?



Intelligent speed adaptation...

WHAT IS ISA ?



WHAT IS ISA? ADVISORY ISA

- **No engine management**
- **Speed limit is displayed on the dashboard**



WHAT IS ISA?

VOLUNTARY ISA

- Driver controlled engine management
- Steering wheel control or similar
- Emergency over-ride



WHAT IS ISA?

MANDATORY ISA

- **Engine management 'always on'**
- **Kick-down or similar for over-ride**

WHAT IS ISA?

- **Fixed, variable or dynamic?**

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London's Road Safety Plan

November 2001

MAYOR OF LONDON



Explore the issue of voluntarily fitting 'black box' speed monitoring devices to buses, police vehicles, taxis, TfL fleet, and to commercial fleets. The aim of these measures is to identify patterns of speeding amongst drivers and to identify the causes of collisions.

ISA – WHY?

- Another tool to assist speed management, to encourage compliance with speed limits
- Reduce reliance on engineering measures - in the long term
- Engineering measures effective, but have a high capital outlay, maintenance costs and risk of increased emissions, noise and vibrations
- Reduce street clutter
- Improve driving behaviour

Reduce casualties

ISA WHY? – ROAD SAFETY BENEFITS

- **Advisory ISA predicted collision savings of up to 13% (18% KSI and 24% Fatal)**
- **Voluntary ISA predicted collision savings of up to 18% (26% KSI and 32% Fatal)**
- **Mandatory ISA predicted collision savings of up to 36% (48% KSI and 59% Fatal)**

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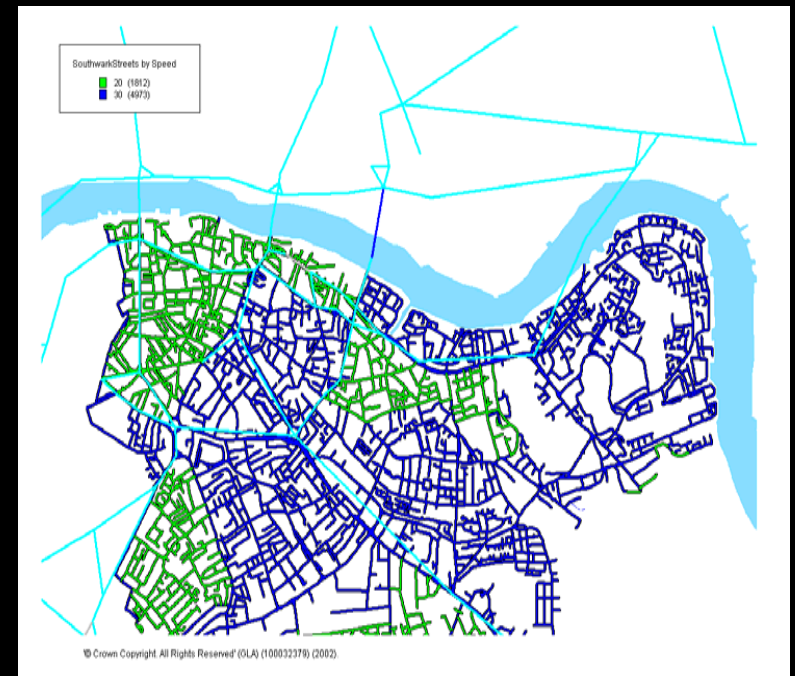
What are we doing in London?

ISA – IN LONDON

- **Advisory and voluntary systems to be developed.**
- **Advisory system, currently investigating the use of Tom Tom nomadic satellite systems as a platform**
- **Voluntary ISA systems will be developed and tested on TfL vehicles (first vehicle due mid 2008)**

ISA – DIGITAL SPEED LIMIT MAP

- ... the key to making ISA work
- TfL working with Colin Buchanan to collect ‘on the road’ speed limits for whole of Greater London.



DIGITAL SPEED LIMIT MAP

- **Data will be compliant with OS Mastermap products for London Boroughs and other organisations**
- **Map to be made available to all...**
- **Map will be updated through London Gazette speed limit traffic orders and verified with site surveys**

ISA – POSSIBLE (DIS)BENEFITS

- Journey time impacts? (slower speed vs. smoother network flow)
- Vehicle emissions – current predictions show ISA will reduce carbon?

need to confirm

ISA – IN LONDON

- **Fleet vehicles (inc. TfL fleet), buses, private hire, taxis will be initial focus.**
- **Will also look at wider rollout, potentially using incentives such as:**
 - **reduced congestion charge**
 - **partnering with insurance companies**

ISA – TIMESCALES

- **Get speed limit map during 2007**
- **Make map available during 2008**
- **First vehicle mid 2008**
- **Plan pilot trial of 4-10 vehicles**
- **Run pilot trials & evaluations in 2008/09**



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