



Regulating Vehicle Access for improved Livability

UVARs

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The key aspects

- Enforcement options
 - Permit systems
- Awareness rising



Enforcement options

- Camera with Automatic Number Plate Recognition (ANPR).
- Manual inspection
- Physical barriers
- Transponders (e.g. RFID – radio-frequency identification)
- Dedicated short range communication (DSRC)
- Global Navigation Satellite System (GNSS) based tolling.
- Intelligent Speed Adaptation (ISA)*
- Geofencing*



* See ReVeAL geofencing guidance



Enforcement options

To consider...

- Legal options available
- Political/culturally accepted options
- Level of compliance that can be expected
- Resources (set up and operation)
- Matching UVAR type
- Reliability
- Interoperability
- Data privacy*

Permit systems*

The system

- Receiving application
- Application validation
- Issuing of permits



- Manual
- Digital/online

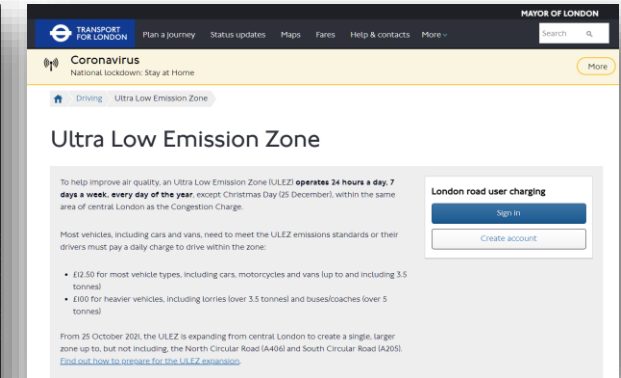
 Exemptions



Awareness rising*

- Purpose → One-way^x vs. two-way[~]
- Real-time → Dynamic/reactive[‡]

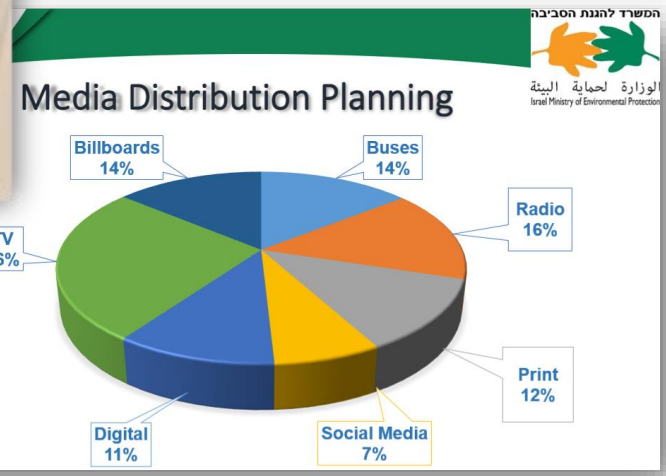
Ensuring Compliance



<https://tfl.gov.uk/modes/driving/ultra-low-emission-zone>

Smartphone apps ^{x‡}	Letters ^x	Digitizing UVAR ^{x‡}
Governmental and dedicated websites ^{x~‡}	E-mails ^x	SMS ^{x‡}
	Social media ^{x~‡}	Road signage [‡]
Traditional media ^{x‡} (radio, TV, newspapers, billboards, flyers)	Navigation systems ^{x‡}	Web ads ^x
	Call line ^{x~‡}	Website widgets ^{x‡}

Awareness rising*



www.uvarbox.eu

* See ReVeAL communication and awareness guidance (Autumn 2021)

Thank you for your attention

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