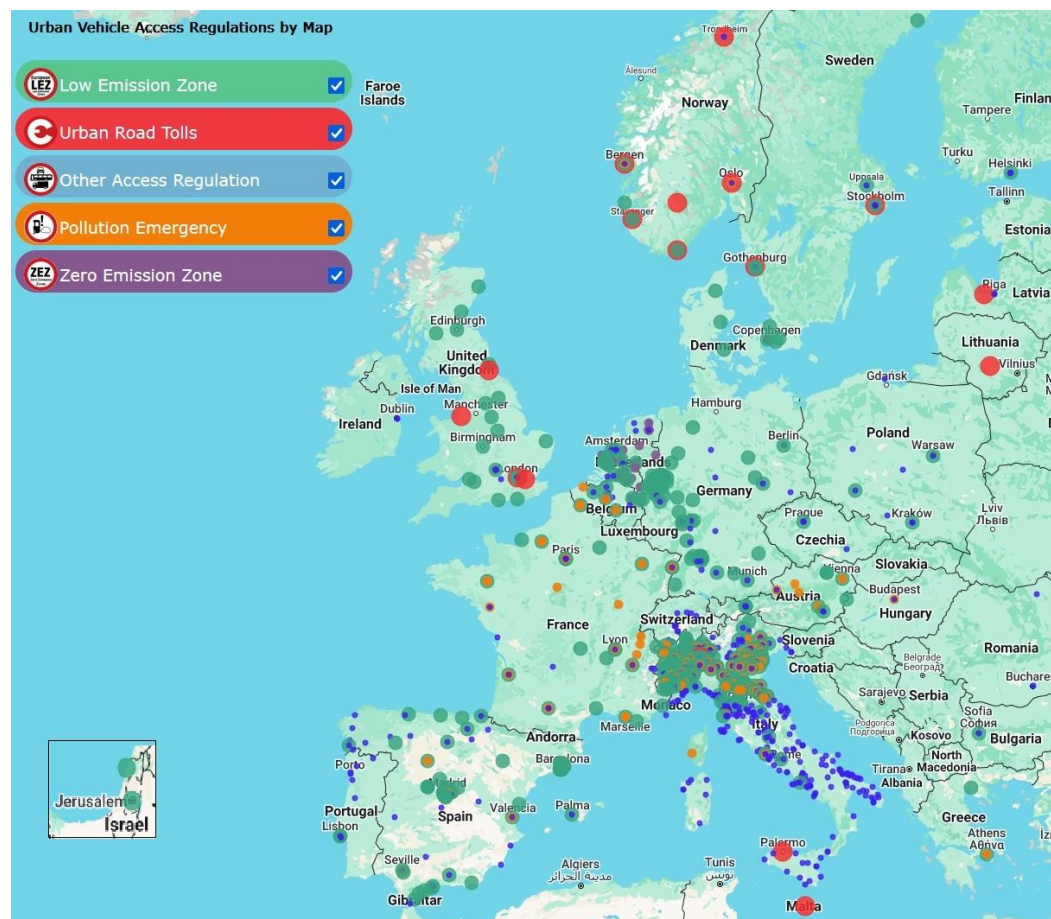




Low Emission Zones, Congestion Charges and other Urban Vehicles Access Regulations (UVARs)

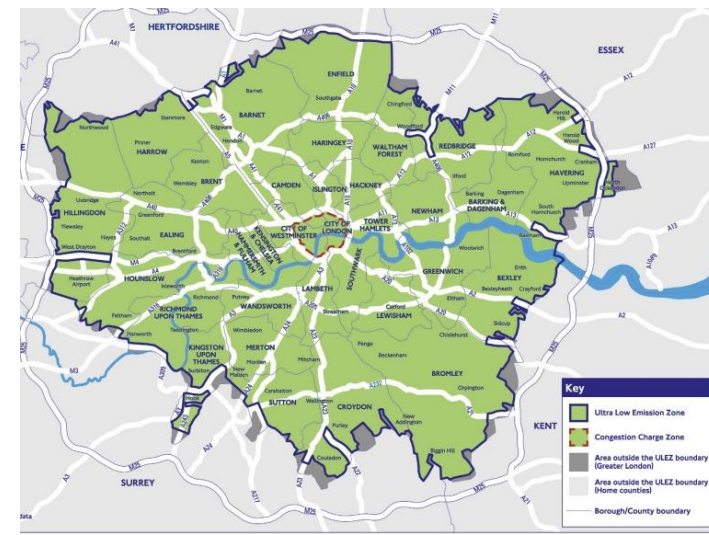


Source:
www.urbanaccessregulations.eu



Low Emission Zones (LEZs)

- Bans for vehicles not meeting emissions standards, or charges for non-complying vehicles
- Can be large areas to small towns
- Hundreds in Europe
 - Increasing numbers elsewhere in world
- Can be the most significant single tool to improve air quality
 - 12-30% emissions reduction
 - Part of air quality & transport strategies
- Camera or manually enforced
- Phased in, & importantly tightened over time
- (Emergency Schemes)





Congestion Charges

- Fairly rare, controversial, high profile
 - London, Milan, Singapore, New York, Stockholm, Oslo ...
- Done where pain of not implementing > pain of implementing
- Enforced with cameras
 - Sometimes also with transponders
- The only UVAR to bring revenue
 - Ring-fence revenue for sustainable transport
- ~ 30% congestion reduction, 15% traffic reduction
 - *For this to be possible: increase public transport*
- Part of a strategy
- Moving people & goods, not vehicles



Source:
Münster Planning Office





Limited Traffic Zone (LTZ)

- Only vehicles 'needed' can access a central area of the city
- Area accessible with various permits
 - Depending on residence, trip or vehicle type, potentially payment & emissions
- Camera or bollard & transponder enforced
- Can take the road-space and do something else with it





Spatial Interventions



Photo Stadt Bielefeld



Before



Before



After



After





Zero Emission Zones

- Entry to non-combustion vehicles
 - Cycle, e-bike, foot, electric & fuel cell vehicles
- For Climate, also improve air quality
- Ideally an LTZ first, also phased from LEZ
- Many already in place and more planned
- Phased in
 - Delivery vehicles
 - Size of zone
 - Vehicles bought after 2025 must be ZEV
- Will be needed to achieve net zero





Construction Schemes

- As road traffic emissions reduce, construction becomes more important
- Emissions standards on construction machines operating in an area – ‘Construction LEZ’
- Requiring cleaner machines or retrofit with diesel particulate filter
- Through planning permission, national law or air quality management strategy
- More tomorrow!





Latin American odd-even schemes

- Used in Latin American cities for air quality & congestion
- Significant impact on use of the vehicle
- Most important to affect vehicles/drivers that enter every day
 - These make up the majority of traffic
 - Give them other alternatives
- Some EU cities had odd-even, most now LEZs
- In Europe air quality impact LEZs > traffic reduction
- CALAC+ Chile UVAR study looked at LEZ & Congestion Charge as alternative to odd-even



COLOR DEL ENGOMADO DEL VEHÍCULO	ÚLTIMO DÍGITO NUMÉRICO DE LA PLACA DE CIRCULACIÓN	LIMITACIÓN A LA CIRCULACIÓN		
		DÍA ENTRE SEMANA	HOLOGRAMA 1 SÁBADO	HOLOGRAMA 2 SÁBADO
	5 o 6	LUNES	<p>Dejan de circular conforme al último número de la placa de circulación.</p> <p>IMPARES (1, 3, 5, 7, 9) Primer y tercer sábado de cada mes</p> <p>PARES (0, 2, 4, 6, 8) Segundo y cuarto sábado de cada mes</p> <p>HORARIO De las 9 a las 22 horas</p>	TODOS LOS SÁBADOS
	7 u 8	MARTES		<p>HORARIO De las 9 a las 22 horas</p>
	3 o 4	MIÉRCOLES		
	1 o 2	JUEVES		<p>HOLOGRAMAS 05 y 0 señal escritos de las limitaciones</p>
	9 o 0	VIERNES		
Vehículos foráneos con placas extranjeras		*No circula conforme a terminación de placa *Adicionalmente no circula de lunes a viernes de 5 a 11 horas		



Many things to consider with UVARs

- Not a magic wand, but often largest significant tool in box
- Part of a strategy, together with
 - Increased public transport, cycling, walking, logistics consolidation
 - Parking regulation & strategy.....
- Best if based on data
- Take people with you
 - Stakeholder engagement, communication, 'marketing', the right message....
- Ensure that people and goods can still access the area
 - Even if not by their first mode of choice
- Complementary measures
-





Resources

- Free online UVAR Training course
 - www.urbanmobilitycourses.eu/courses/urban-vehicle-access-regulations
- ReVeAL Toolkit to help design UVAR
 - www.civitas-reveal.eu
 - <https://civitas-reveal.eu/resources-overview/publications/guidance/>
- UVAR Box – digitising UVARs
 - www.uvarbox.eu
- UVARs in Europe
 - www.urbanaccessregulations.eu
 - www.urbanaccessregulations.eu/public-authorities

Lucy Sadler

Sadler Consultants Europe GmbH

lucy.sadler@airqualitypolicy.eu

urbanaccessregulations.eu

+49 (0)7641 9375 335

- Lucy Sadler over 25 years in UVARs
- Head of air quality for the Mayor of London
- urbanaccessregulations.eu since 2007
- EU UVAR projects
- Guidance, advice, data on UVARs
- Advising countries around the world
- Known as the European expert on UVARs