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Office for Low Emission Vehicles

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The Future of EV Charging

Managing the Transition

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The transition to EVs WILL happen

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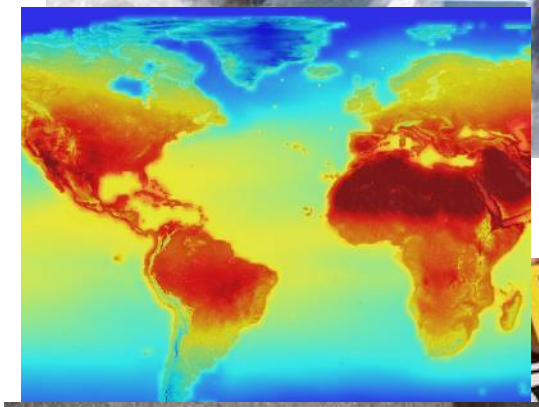

And it could happen very quickly

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What's your borough like with 100% EV?

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- What technology is deployed?
- How are people interacting with it?

Car Usage Patterns

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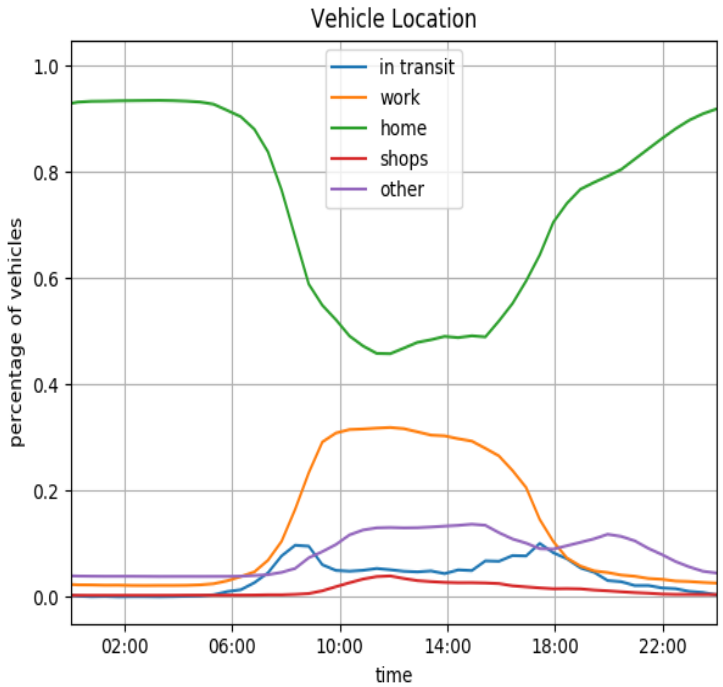

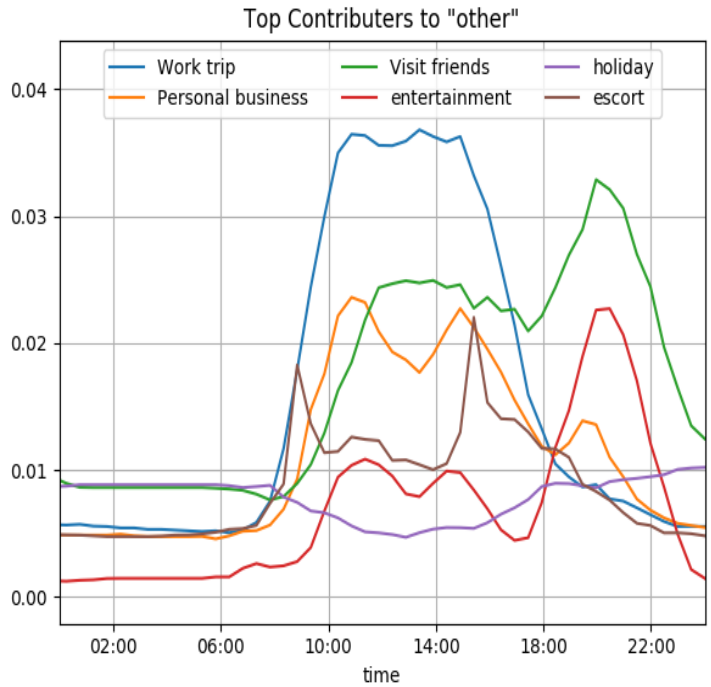

- 3% of vehicles are at the shops
- 30% of vehicles are at work
- At night 95% of vehicles at home (40% off-street)

Public EV infrastructure provision

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Metric	Value	Notes
No of Homes	150,000	
Car Ownership	1.4 per household	0.8 in London
No of Cars	210,000	
% cars at shops	3%	More for inbound Hubs
Potential EVCPs needed	6,300	
% provision	50%	This is the key unknown
EVCPs needed	3,150	
Average deployment to 2030	315 per year	

- Case Study: Oxford
- 3,000 EVCPs would need to include all public car parks plus Park and Rides

EVCPS could change your area

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Where does John Lewis go?

- Historically, the best shops migrate to be near the 'nicest car parks'
- We are likely to see he same with EV infrastructure provision
- And the reverse – what if an area is poorly served by EVCP?

Off-street issues

- Majority of charging will be done at home
- But 40% of households have no garage/driveway
- Much more in London and major cities
- That would be 80,000 cars from my Oxford example ….
- It's a LOT

- Extensive lamp-post charging is a key solution here

- Workplace charging can relieve some of this pressure
- Councils have a role to play in encouraging businesses to provide EVCPs

Getting creative ….

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- Cars are very underutilised assets
- At most 10% in use at anyone time; hence appeal of car sharing
- Shared charging hubs at end of roads?
- As part of Mini-Holland Schemes?
- EVCP provision could be transformational

Knock-on effects

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8 images

Property details | Floorplan | Map & Nearby | Market stats

1 bedroom | 1 bathroom | 1 reception room

Features

- Share of freehold
- One bedroom
- Sitting room
- Shower room
- East Oxford location

1 bed flat for sale

Hertford Street, Oxford OX4

New home

£290,000

Andrews

Andrews - Cowley

01865 360070

Email agent

Save

Andrews

Take the first step to sell or let your property

Get an instant valuation

Dedicated EV charging point

Conclusions

- The electrification of transport will happen
- And it will happen very quickly compared to other energy transitions
- Because there are multiple drivers in place

- EVCP infrastructure will affect people and how they live
- So EVCP infrastructure will affect towns/boroughs and how they are built and used
- It's an opportunity to re-design your neighbourhood to be a great place to live and work
- But there's a lot to be though about and not a lot of time

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Thank you for your attention….

Web: jojusolar.co.uk/joju-charging

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