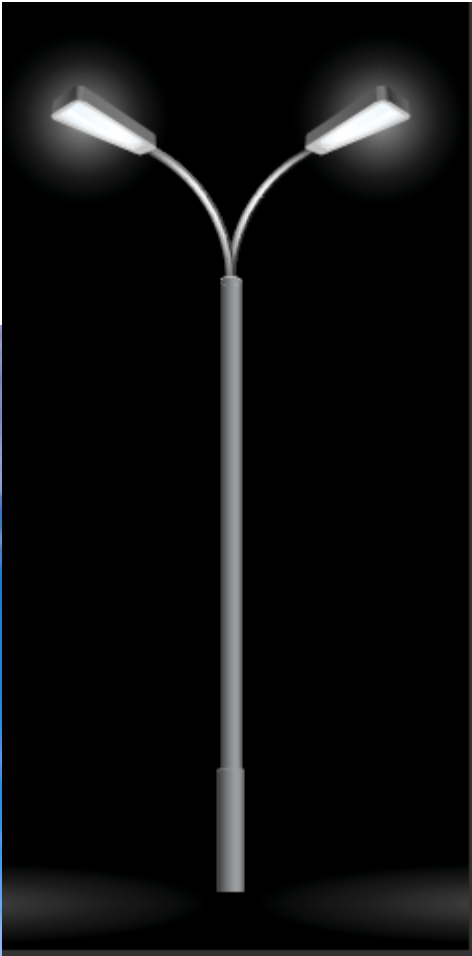


A photograph of two men in a modern office setting. They are leaning over a wooden table, looking at a glowing touchpad device. The man on the left is wearing a grey sweater and glasses, and the man on the right is wearing a blue sweater and glasses. In the background, another man in a dark sweater and glasses is visible, working at a desk. The scene is brightly lit, suggesting a collaborative work environment.

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EV Roadmap 9 | July 21, 2016





# Smart Street Lights



## Potential Use Cases

- Analysis of road characteristics (moisture, temperature) and environmental characteristics (air quality, noise)
- Analysis of movement sensor data
- Diagnosis functions
- Detection of dustbin filling degree

If you were a sustainability officer in a major US city or a smart grid engineer at a US Utility and had:

- Electrical power distribution sites every 50-100 feet via thousands of strong mechanical fixtures 25-60' above all roadways and parking facilities in the city or service area?

# Smart Light Pole Audit – EV Charging

1. Right-of-way issues – public streets, feeder streets, cul de sacs, parking lots
2. Controlled by timer or photocell – power available at pole 24/7?
3. Available dedicated circuit protection – 30 or 40 amp chargers
4. Gauge of wire – adequate for circuit upgrade if needed?
5. Available power – AFTER retrofit to LED luminaires
6. Mechanical soundness (40 lb. charger)

# Smart Light Pole Audit – EV Charging

7. AHJ – Authority having Jurisdiction -  
Inspector/permitting allows tapping into pole –  
electrical and mechanical – and mounting on pole
8. Security issues – visibility/isolation
9. Throughput issues – can cars access the space well –  
two to four parking spaces can be served by one EV  
Charger on Pole if access is right.
10. Access to pole – bollards, pole gardens, curbs, etc.
11. Density for Wi-Fi to gateway/mesh to cloud
12. ADA issues – 44 inch height for HMI







**BMW  
GROUP**

Referenz: München.  
BMW Welt. D-80809.

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**BMW  
GROUP**

Formula E

BMW Safety Car

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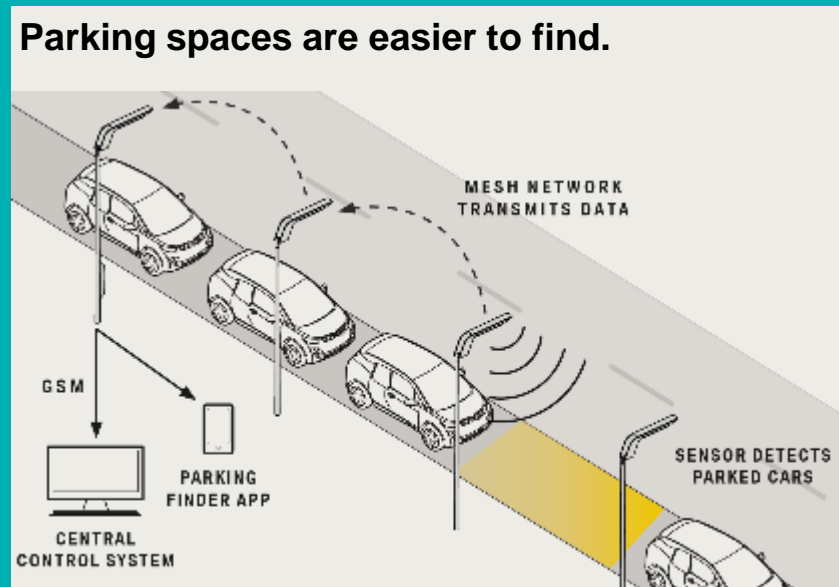
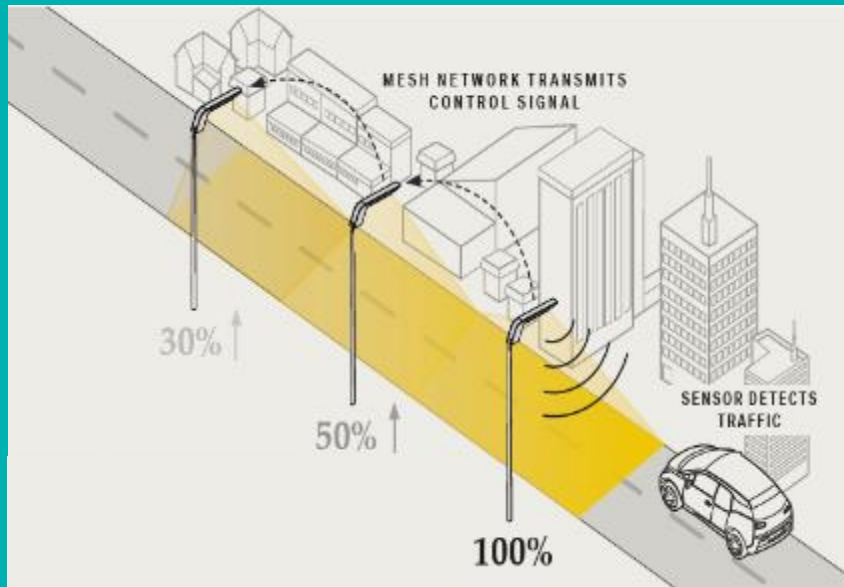
BMW i3 Photoshooting.  
Los Angeles.

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# Sensors

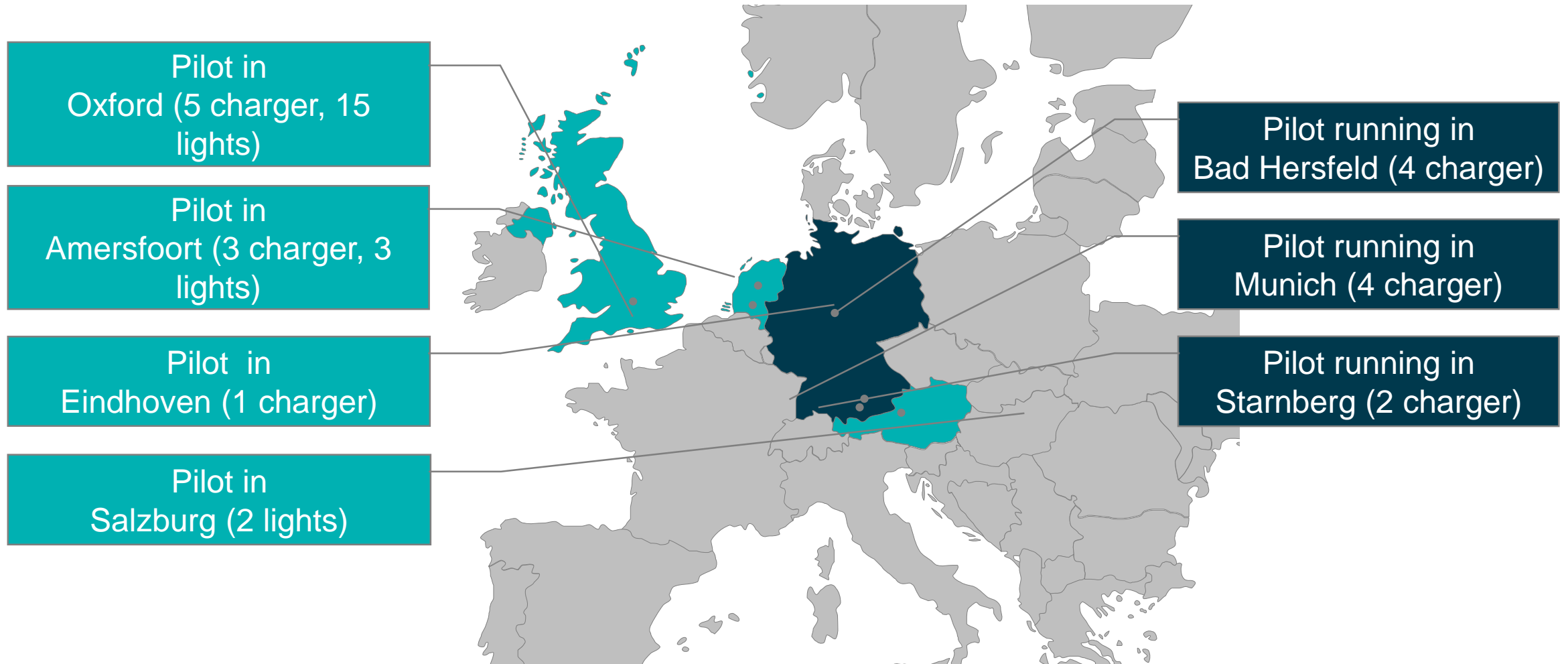


# City-wide infrastructure for EV



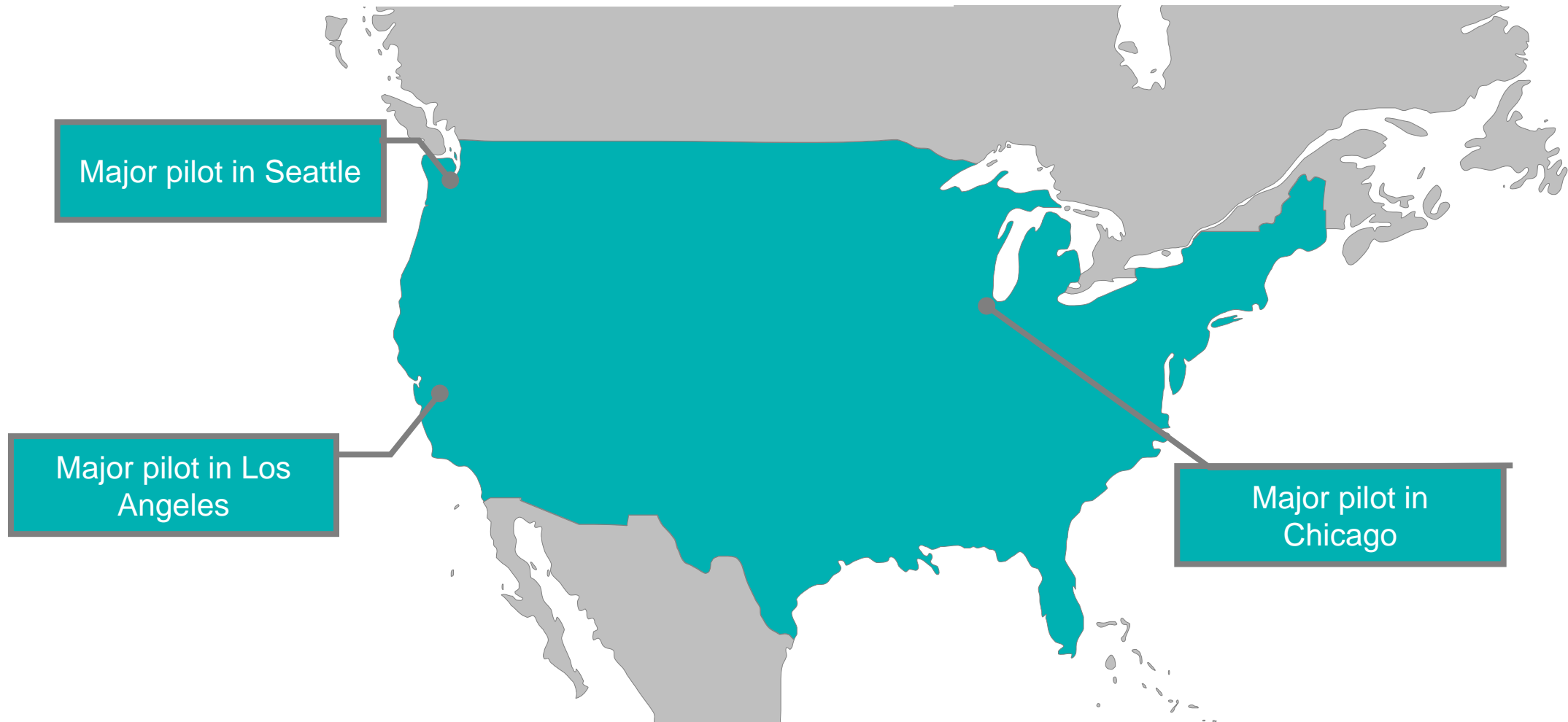
resi

# EU Pilots





# US Pilots





Landeshauptstadt  
München

Reference: Munich.  
Holbeinstraße 5. D-81679.

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Landeshauptstadt  
München



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Think smart. Charge smart.

Light Poles ARE a viable option for EV  
Charging

Don't overlook them!