



IBC

ELUMO 5G – The high-speed data highway owned by the operator

- **Innovative:** The street lamps become radio towers and form a 5G data highway.
- **Scalable:** The Federal Network Agency supports the concept for cities and municipalities.
- **Low Radiation:** Lamp to lamp communication is through infrared or fiber optic.
- **Safe:** The communication and the data of the citizens remain in the city (digital city wall).
- **Profitable:** The operator becomes a carrier and earns the data (google money) and services.
- **Autonomous driving:** The road, the intersection and the city are controlled autonomously.
- **Modular:** The radio tower, cameras, sensors, and charging stations integrated in the street lamp.
- **Multifunctional:** Many functions are possible - camera, music, weather, lighting & charging
- **Low energy:** Communication via smartphone remains local (low CO2, no server farms).
- **Intelligent:** The lamp has the intelligence of a mobile phone (Video Analytics, ...).
- **LED street lamp:** 120 watts, 80,000 operating hours, remotely controllable (dimming), bw & color.
- **Scalable:** Smart (lamp only), Secure (camera), Professional (full equipment)
- **Future-proof:**scalable - new modules can be integrated in the middle section.
- **Robust and secure:** military tested hardware & software for the router (linux)
- **Components:** camera, speaker, microfon, siren, **S**oftware **D**efined **R**adio
- **Convenient:** The signal is sent from lamp to lamp (networked lamps).
- **Drone Defense:** The system enables drone detection and drone defending.
- **The ELUMO offers:** Security, Comfort and Entertainment in an 5G Network.



5G



LED

WiFi

Hi-Fi

