



knopfloch^{tv}

GPS-Tracking investigativ

Marcus Lindemann, November 5th 2019,
jot-con, Stuttgart

Where we are coming from – gadgets and techniques for investigative reporting

What we have used already:

- Hidden cameras
- time lapse cameras
- DNA testing
- chemical analysis
- Adsense to find sources
- website scraper
- use of FOIA and other (new) legal ways
- reading OBD-data of cars
- infrared-cameras/thermographic cameras
- noise measuring

Future ideas:

satellite imagery, meat quality,
website and price monitoring

This video perfectly shows how our bike gets stolen, but we could not track – because of technical and human shortcomings



Video und Tracking

Navigational systems for cars

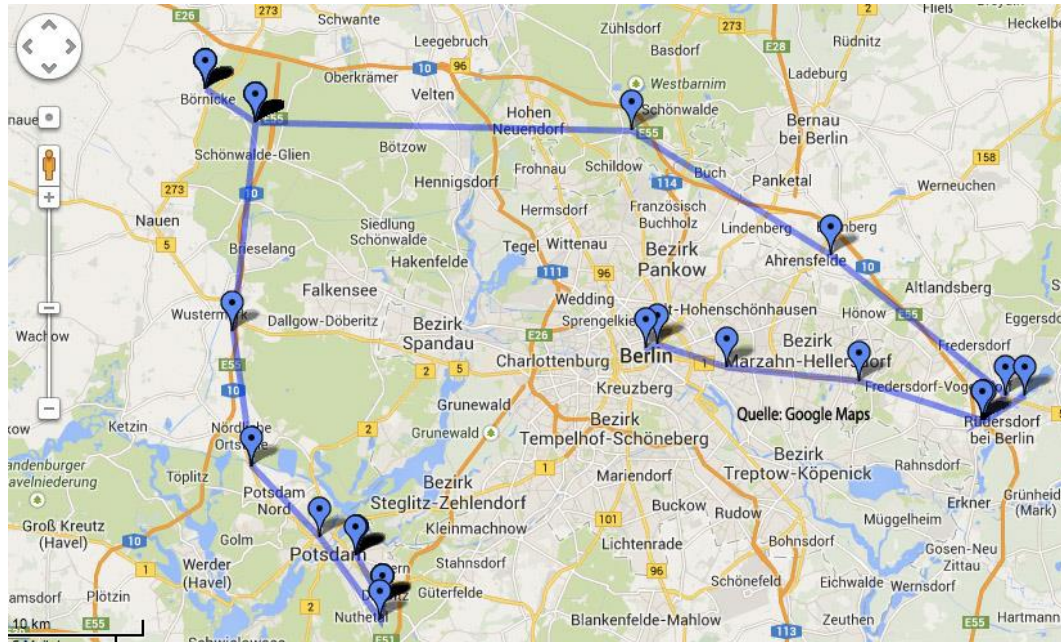
- Comparing Tomtom Live Traffic, Google Maps mit Traffic and TMC

Video und Tracking 2

Parcel service DHL – where is my parcel

- Airline security regulations → one solution: trackdot
2nd solution: research the means of transport
- GPS/GSM Tracker plus Smartphone with additional battery
- „bird houses“ covering recipients homes
- hidden camera in one parcel

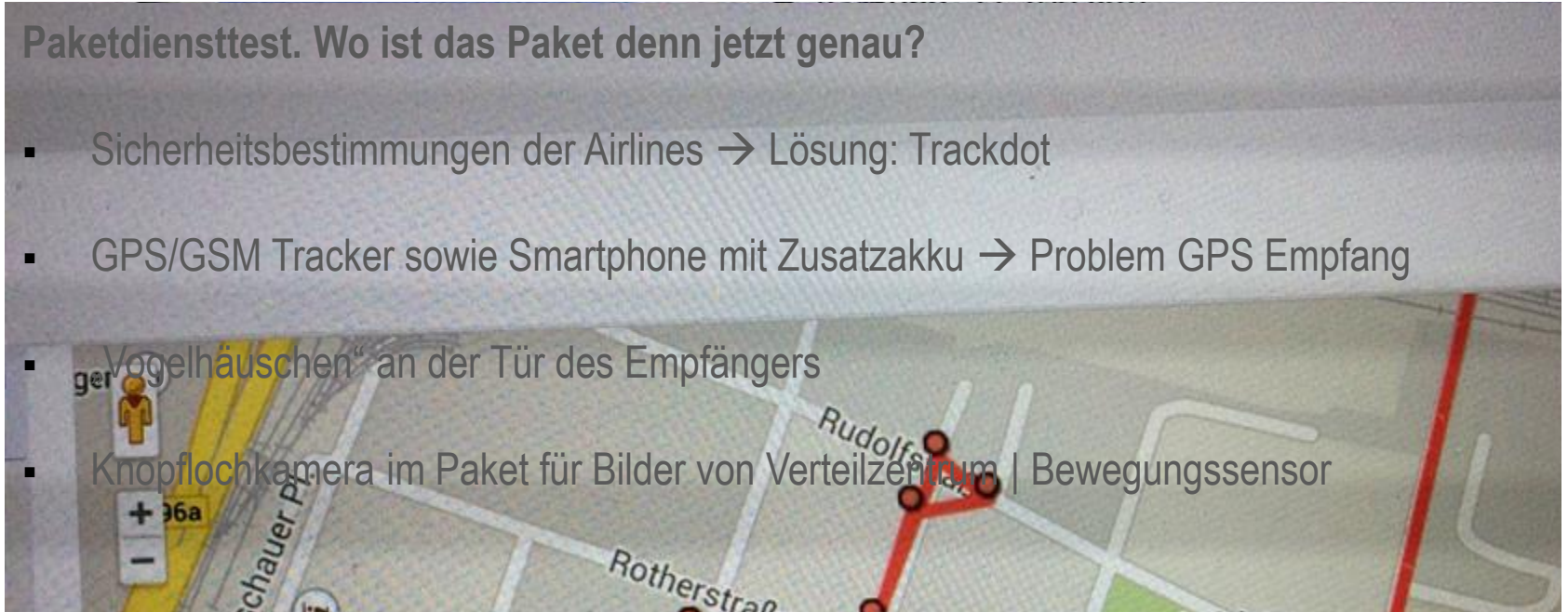
Video und Tracking 2



Video und Tracking 2

Paketdiensttest. Wo ist das Paket denn jetzt genau?

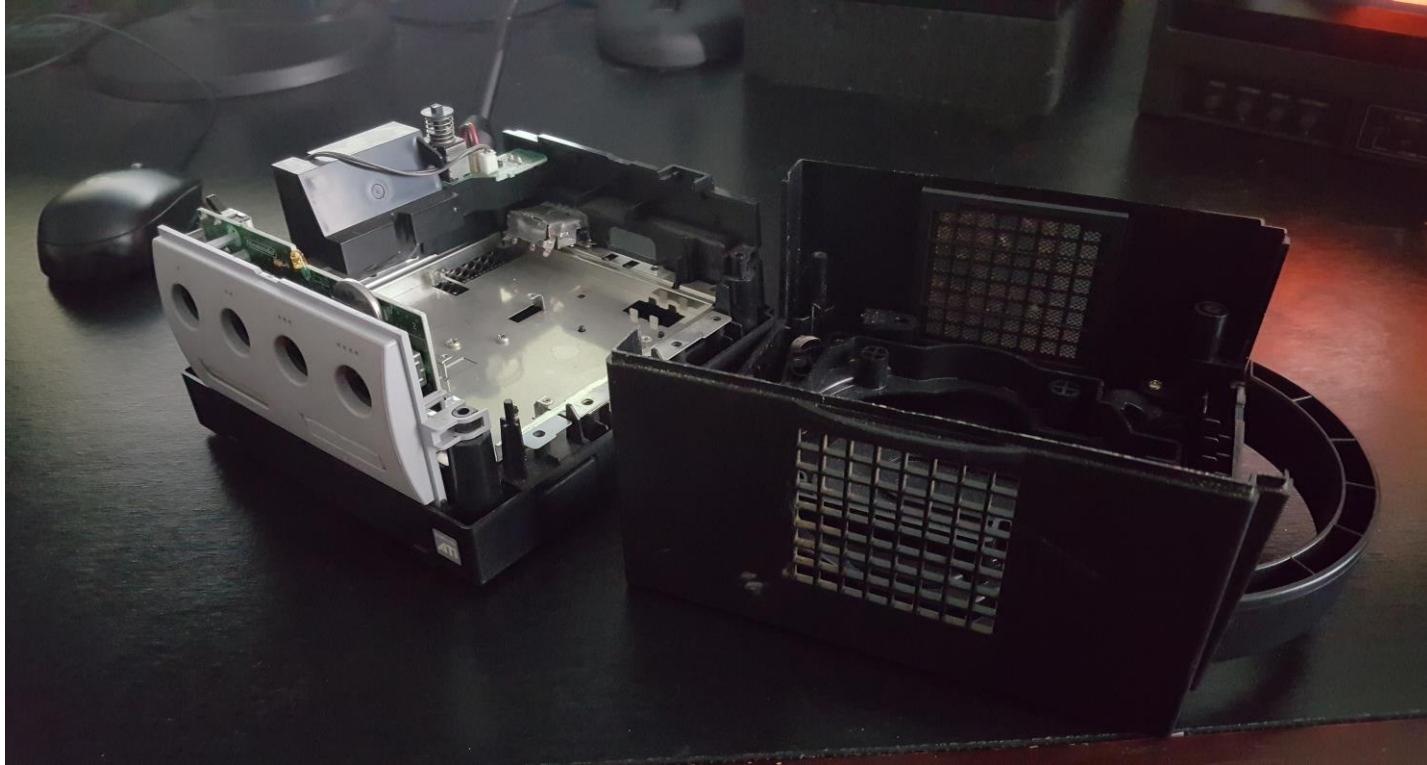
- Sicherheitsbestimmungen der Airlines → Lösung: Trackdot
- GPS/GSM Tracker sowie Smartphone mit Zusatzakku → Problem GPS Empfang
- „Vogelhäuschen“ an der Tür des Empfängers
- Knopflochkamera im Paket für Bilder von Verteilzentrum | Bewegungssensor





Paketdienst

Ongoing investigation



Team credits

Mirko Mikelskis, head of production	testing GPS devices, logging and visualisation
Ronny Franke	developing knopfloch.tv
Roman Piotrowski	building new hidden cameras and hidings
Maja Helmer	reporter on most of the projects
editors at WISO, ZDF	customer who commissioned most of that work & beared out many court cases with us

Thank you – any questions left? Get in contact!

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