

# NPA

## *Networks and Performance Analysis*

# The Team

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# In One Slide

- **Future Internet**
  - Model and control
  - Ubiquitous, mobile, adaptive networks

# Models & Algorithms

- Focus on ***dynamic*** networks
  - *Mobility, user behaviors, faults, attacks*
- Attack vulnerability characterization
- Analytical performance evaluation
- Distributed algorithms

# Wireless and Mobile

- ***Complete spectrum*** : theory, simulations, experiments
- Ad hoc, vehicular, DTN, Sensors, Offloading, Mesh
- Cognitive radio, cross-layer, distributed control
- *Software*: WiPal, WScout, XS-WSNNet

# Metrology & Internet Governance

- Measure & Diagnosis
- ***Experiments*** (PlanetLab Europe, OneLab, Equipex FIT)
- Governance and Usages
- *Software*: Paris-traceroute, Hostview, Homenet Profiler

# Content Networks

- Measure & Analysis (P2P-TV, UGC)
- Publish/subscribe & Knowledge management
- New architectures (CCN, CDN, etc.)

# Internship Topics 2014

- Body area networks (Battery, Antenna)
- Cognitive radio
- Internet of Things (6LowPan, RFID)
- Mobile robots (Deployment, Monitoring)
- Mobile traffic offloading (Wifi, DTN)
- User profiling (P2P, UGC)
- Vehicular Networks