UTFPR

UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

UTFPR (Université technologique fédérale du Paraná)

- **2.300 enseignants-chercheurs**, **1.000** membres du personnel **administratif** et **30.000 étudiants**.
- **117 programmes** de licence, **36 programmes d'études supérieures**: 6 doctorats et 30 programmes de Master.

- Programme de doctorat: **CPGEI**
  - 47 professeurs chercheurs
  - Plusieurs labo de recherche: **LABSC**

LABSC (Communications Systems Lab)

Wireless Communications - Cooperative communications, network coding, spatial diversity, cognitive radio and source-channel coding.

Wireless Networks - Wireless sensor networks, Internet of Things, routing, channel allocation, delay tolerant networks and vehicular networks.

Wireless networks group

Anelise Munaretto

Mauro Fonseca

PhD students: Priscila Santin, Vinicius Pozzobon Borin, Giovanna Garcia Basilio, Carlos Guerber, Fabio Cesar Schuartz, Marcos Talau

Master students: Thiago Herek, Daniel Alexandre Oleinik, Marcelo Ricardo Leitner, Gabriel De Carvalho Bueno, Wagner Rezende Muniz Barretto

Curitiba

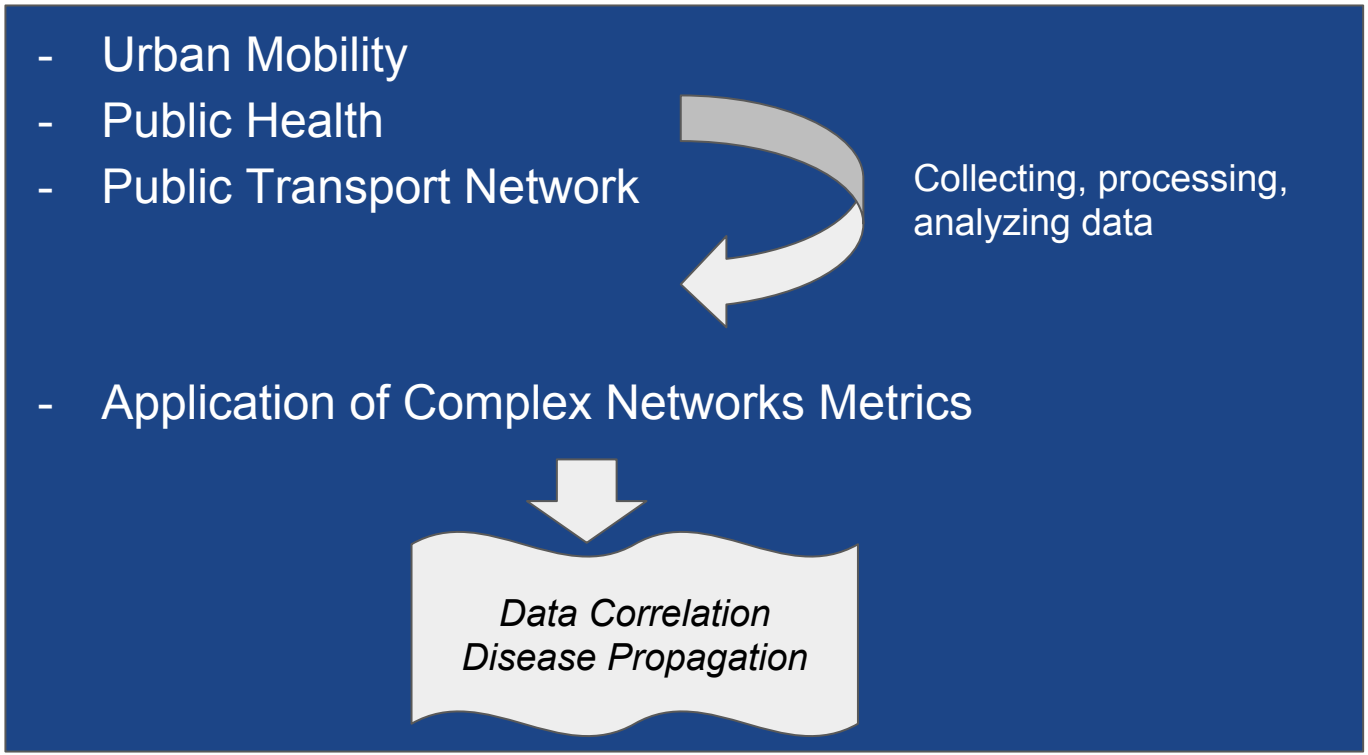
Vila Zumbi

Batel

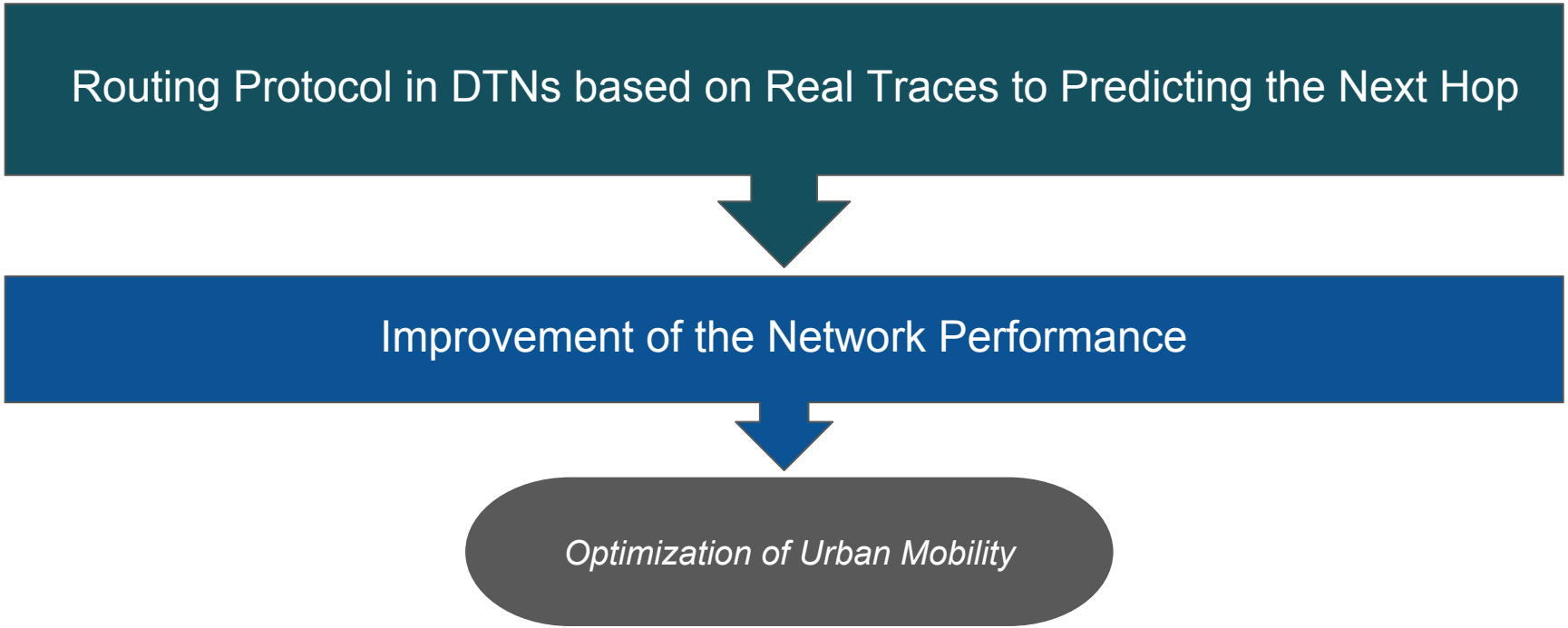
Open Data

http://www.curitiba.pr.gov.br/dadosabertos/

Smart City


- Urban Mobility
- Public Health
- Public Transport Network
Collecting, processing, analyzing data
- Application of Complex Networks Metrics
Data Correlation
Disease Propagation

Data Science



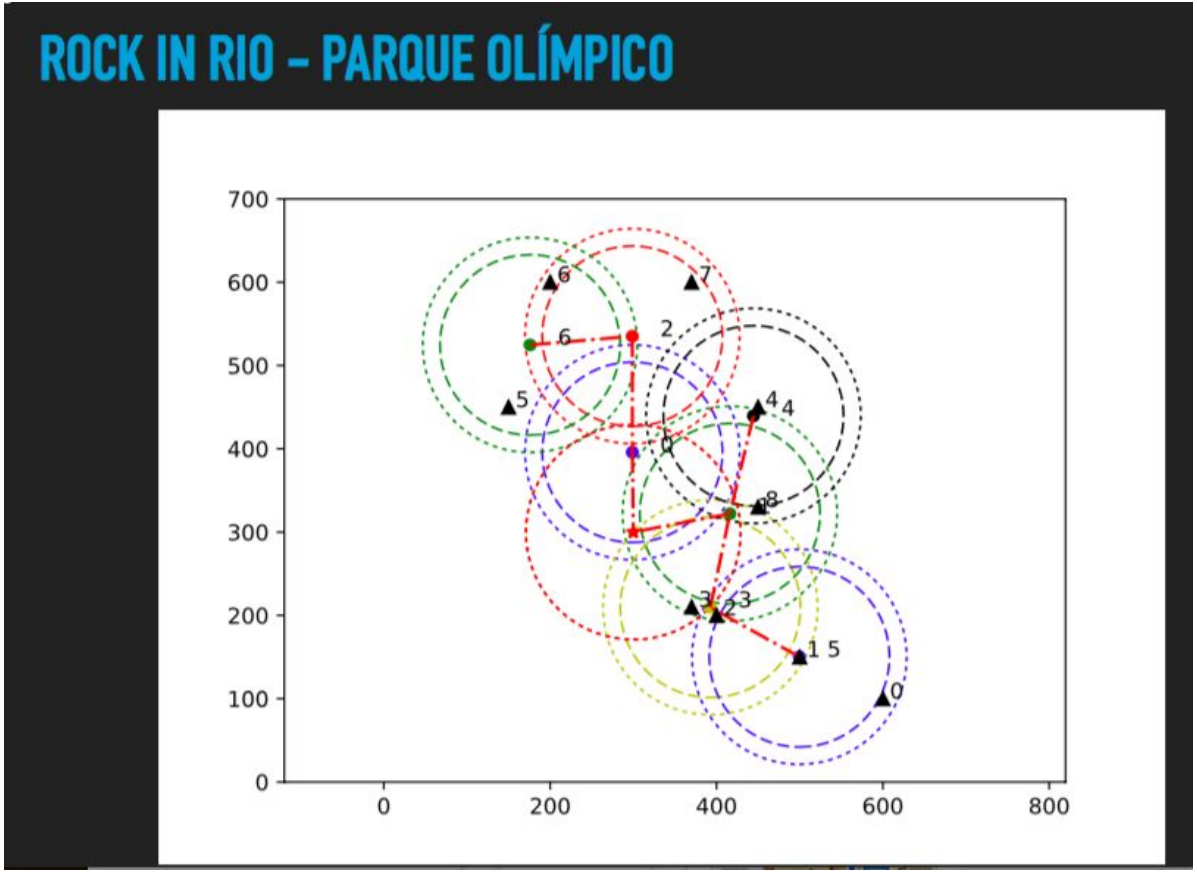
FANETS

Flying Ad Hoc Networks

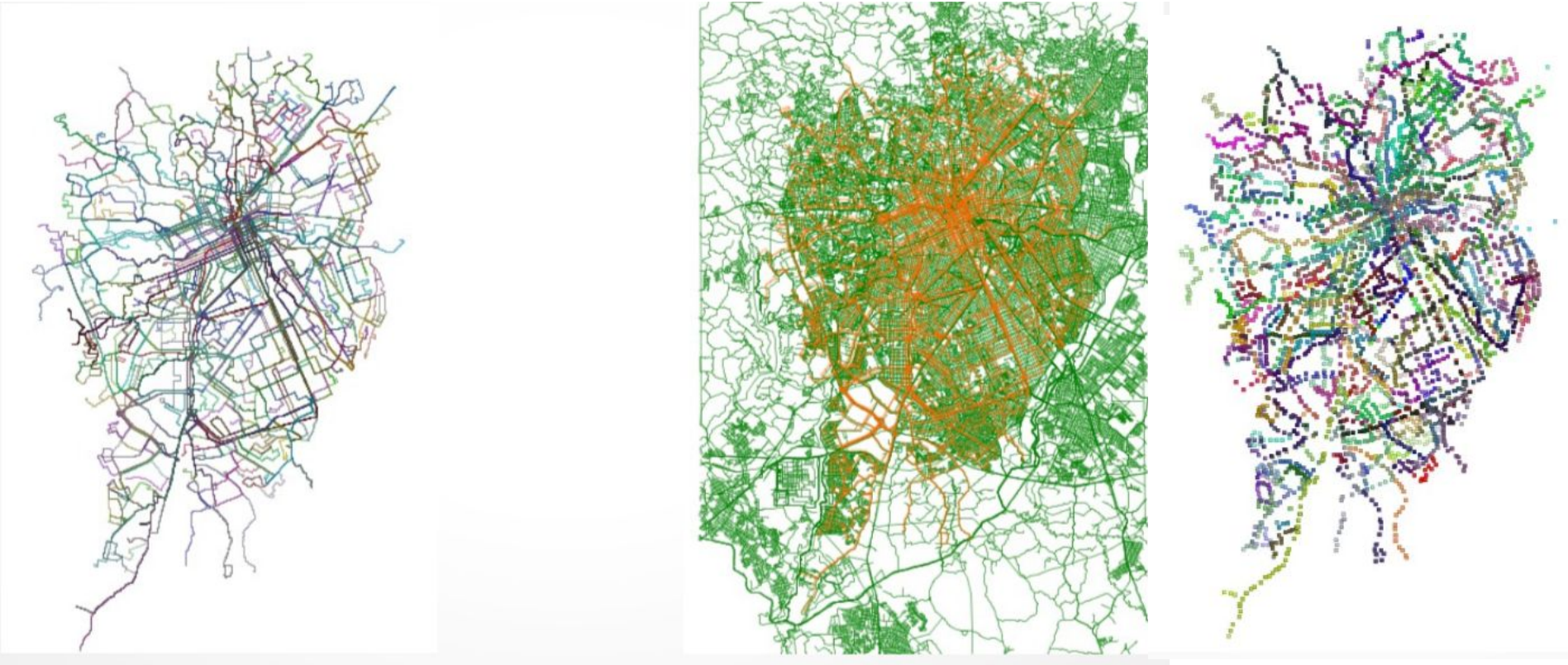
A mesh access networks with drones

(big events scenarios)

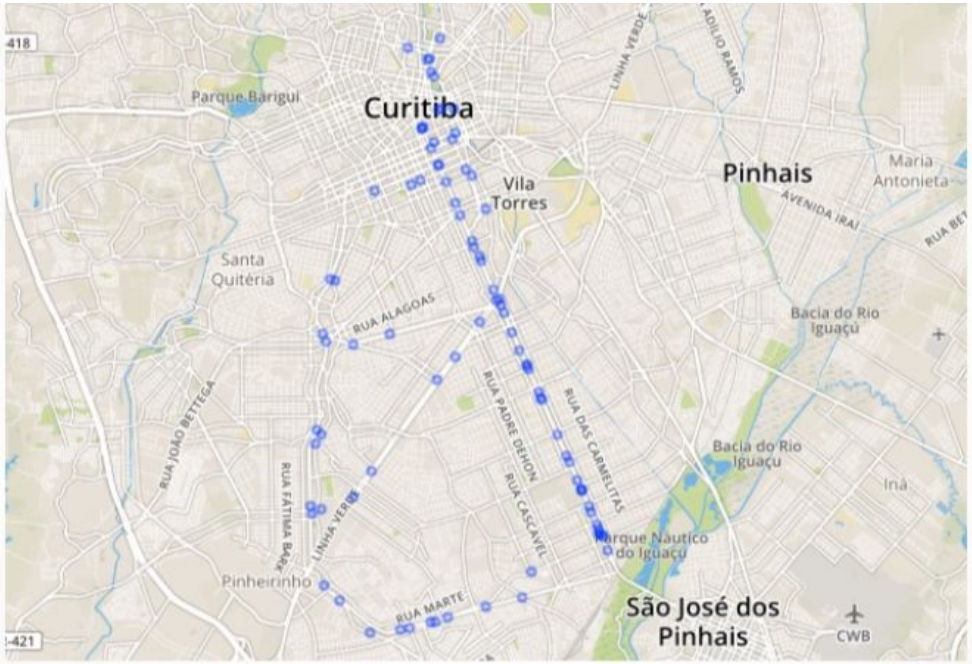
- Mobility management
- Resource management
- Routing
- ...



Urban mobility



Urban public transport

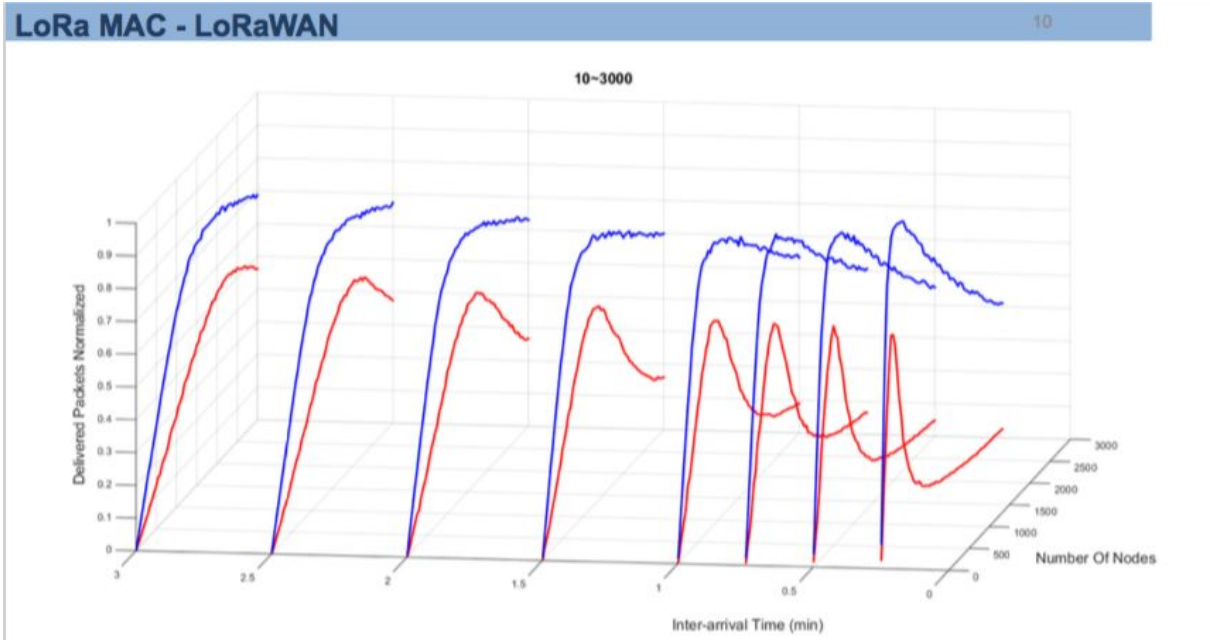


Posição dos ônibus as 18h em 05/04/2017

Linhas: 500, 502, 503, 505, 507, 508 e 602

Internet of things

- Improvement of LORA access
- Evaluation of different access methods: ALOHA, Slot-Aloha, CSMA...



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