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## ACQUA – Forecasting Quality of Experience

Thierry Spetebroot, Chadi Barakat, Muhammad Jawad Khokhar, Thibaut Ehlinger

► **To cite this version:**

Thierry Spetebroot, Chadi Barakat, Muhammad Jawad Khokhar, Thibaut Ehlinger. ACQUA – Forecasting Quality of Experience. MOMI 2018 - Le Monde des Mathématiques Industrielles, Feb 2018, Sophia Antipolis, France. pp.1. hal-01731583

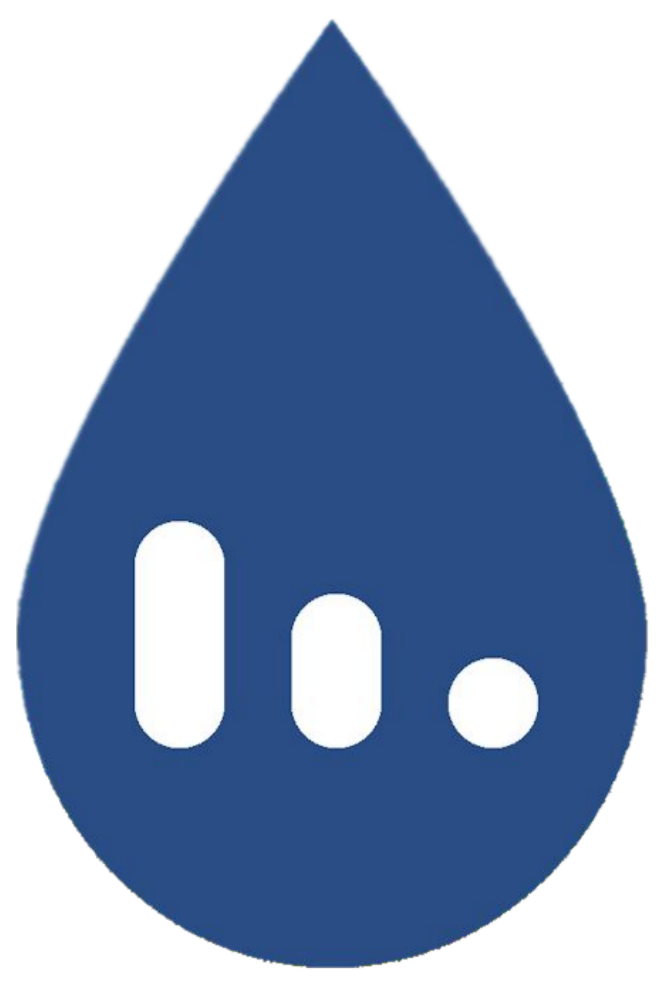
**HAL Id: hal-01731583**

<https://inria.hal.science/hal-01731583v1>

Submitted on 14 Mar 2018

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# ACQUA

Forecasting Quality of Experience

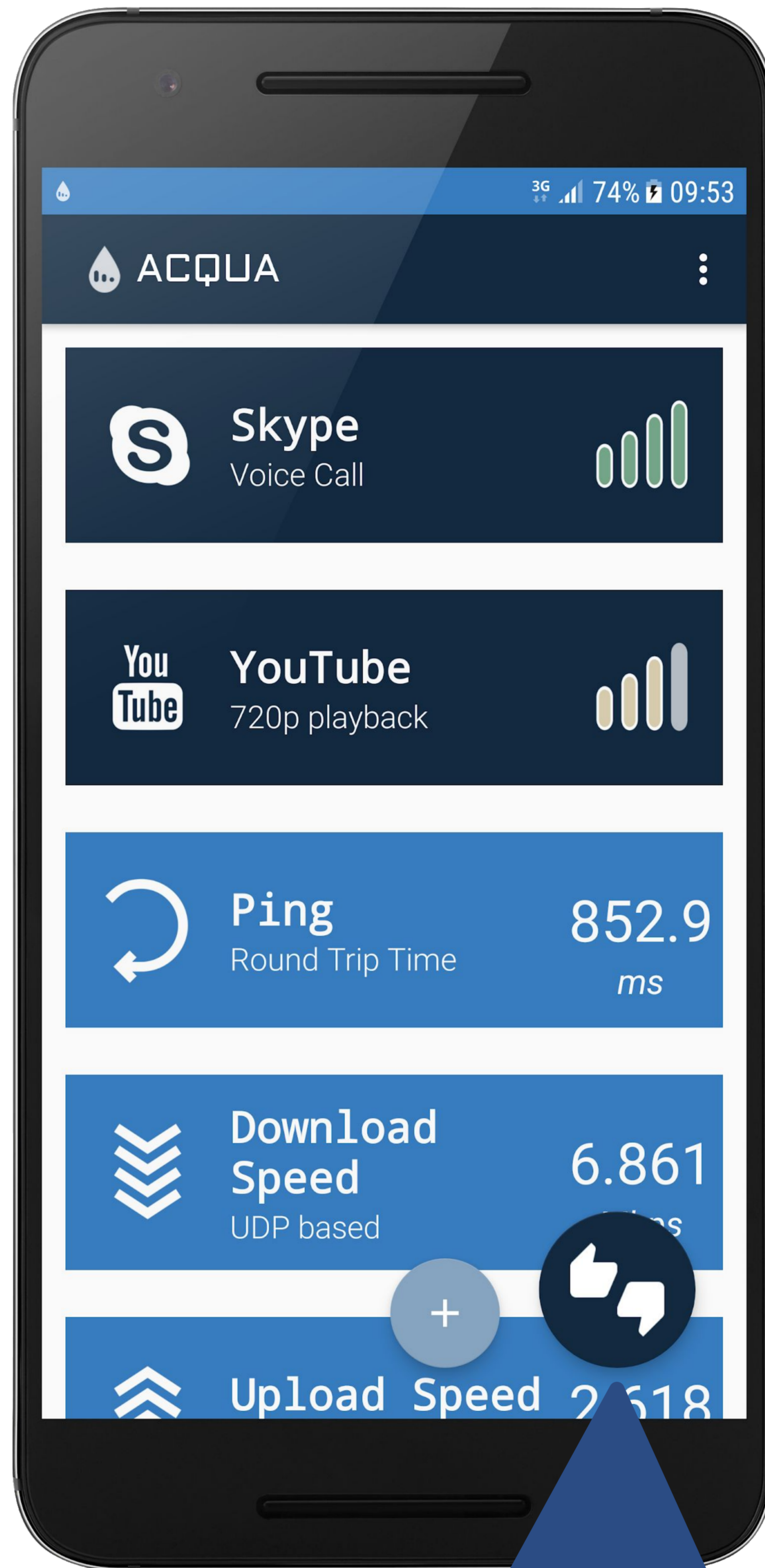


<https://project.inria.fr/acqua/>

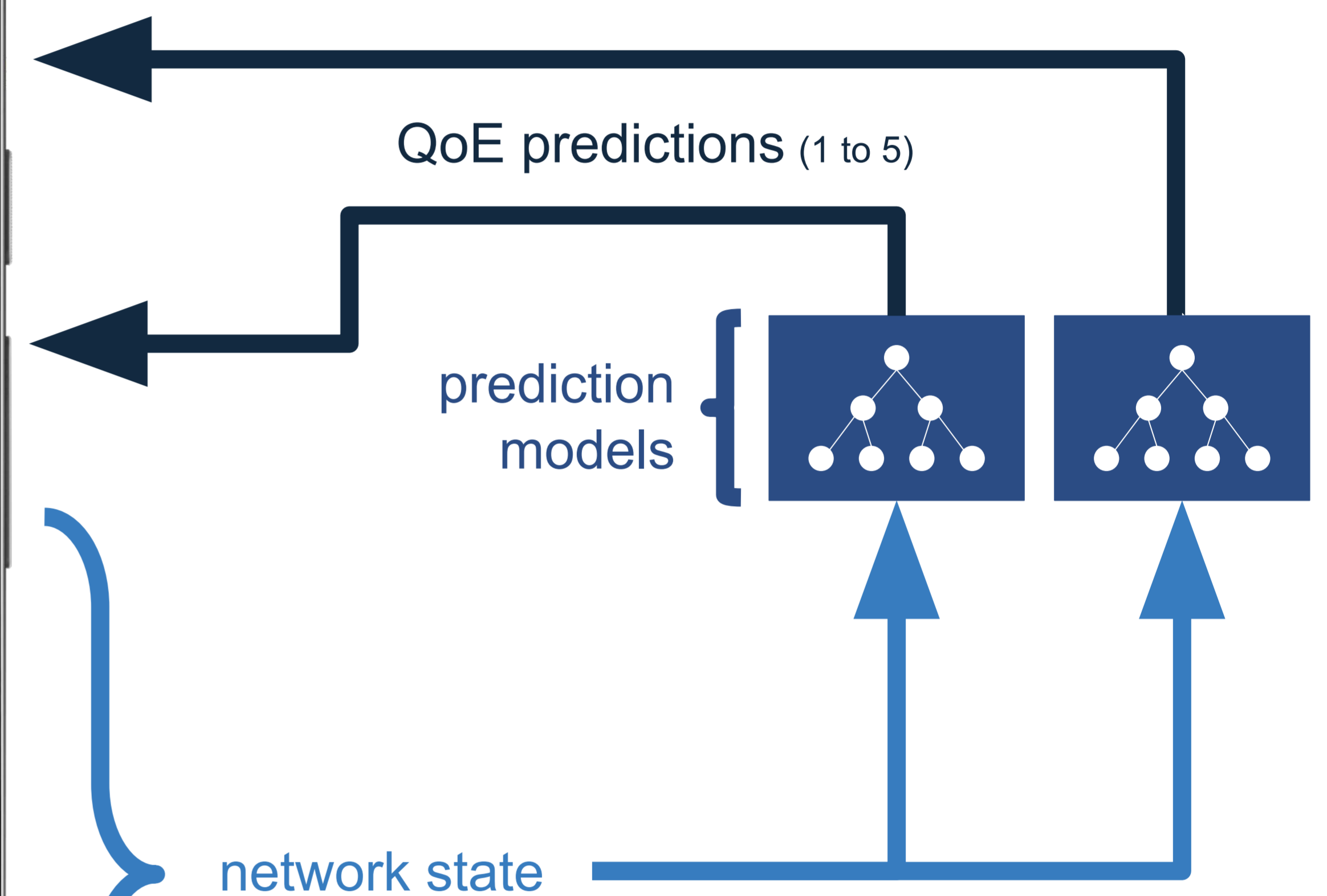
ACQUA is a *data-driven* application to **predict Quality of Experience (QoE)** by performing *frequent* and *lightweight network measurements*

## How will your mobile applications perform?

No need to know technical details to understand *how your connection affects your applications...*



## How do we predict the behavior of the applications?



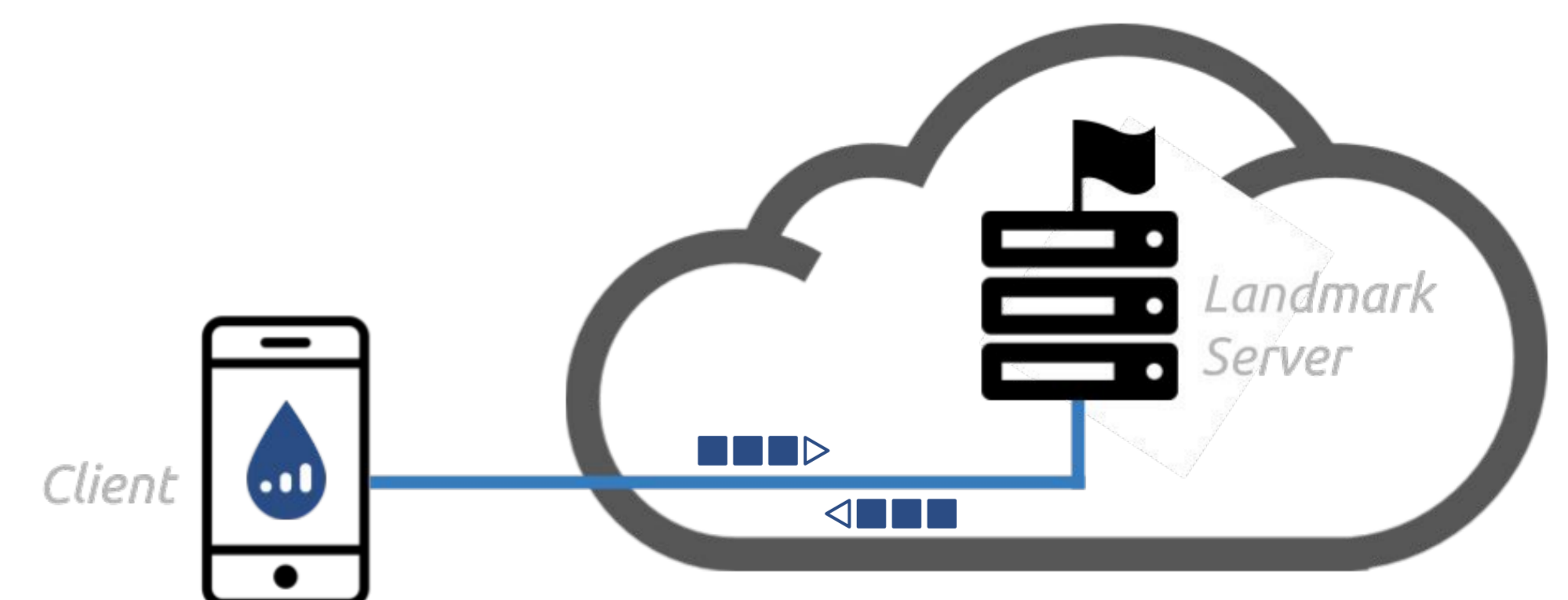
## How do we perform our measurements?

ACQUA frequently performs network measurements to estimate your access performance over time.

Active and passive measurements are used to define the network conditions.

- ping (delay, jitter, loss rate)
- UDP burst (throughput)
- signal strength (dBm, level)
- mobile operator
- mobile cell / WiFi SSID

All of this in less than 75KB!

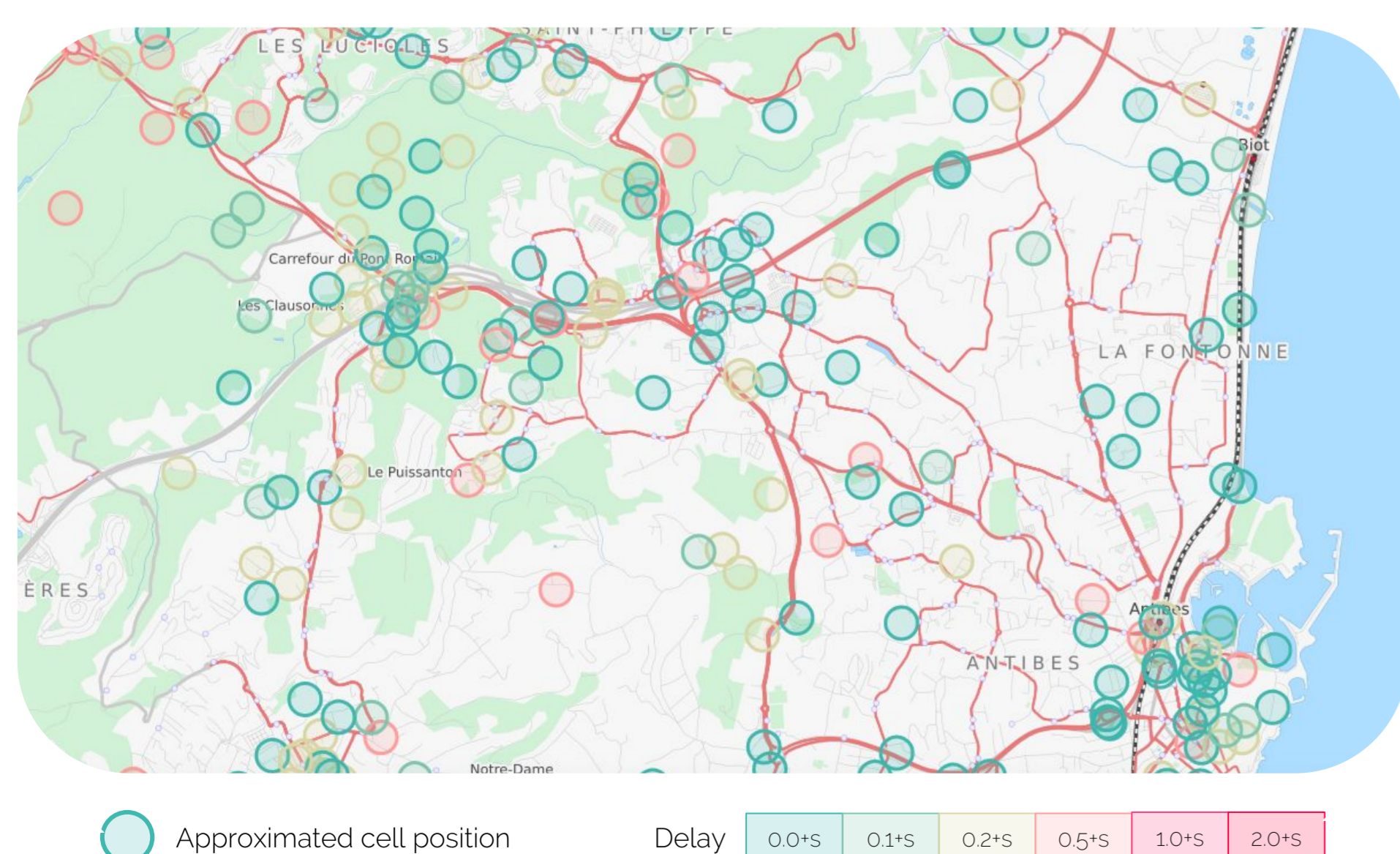


## What else?

ACQUA provides insights about your *access quality over time*:



and the network performances around you:



## Help us improve our models!

You can send us a feedback about the behaviour of your application.

This value will be matched automatically with your current network conditions.

## Contacts

- Thierry Spetebroot (Engineer)
- Jawad Khokhar (PhD Student)
- Thibaut Ehlinger (PhD Student)
- Chadi Barakat (Project Leader)



ACQUA is supported by Inria Project Lab BetterNet and the French National Project ANR BottleNet.

ACQUA has been validated by the National Commission for Data Protection and Liberties (CNIL) and by Inria Operational Committee for the Evaluation of Legal and Ethical Risks (COERLE)

