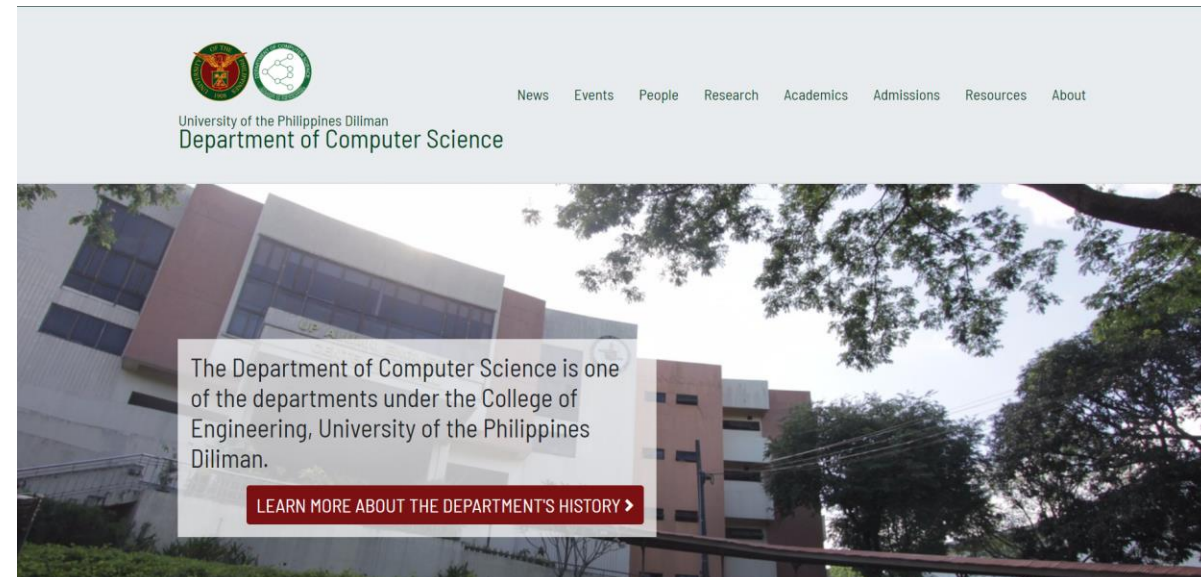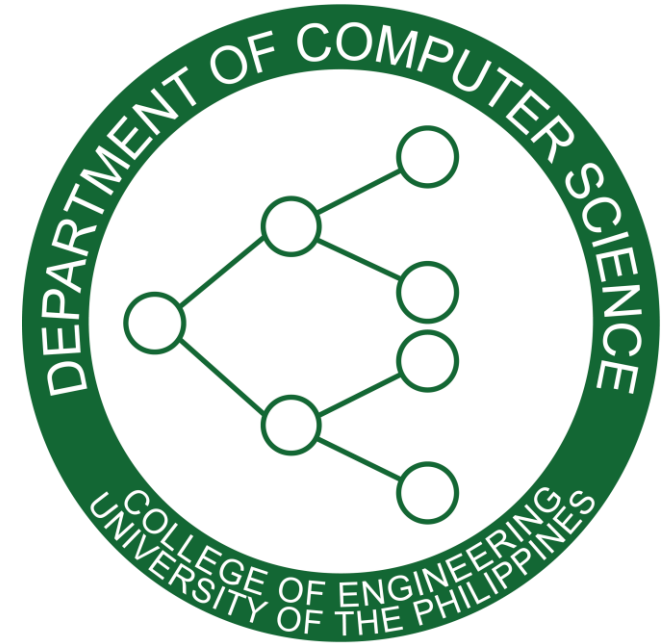# University of the Philippines – Diliman
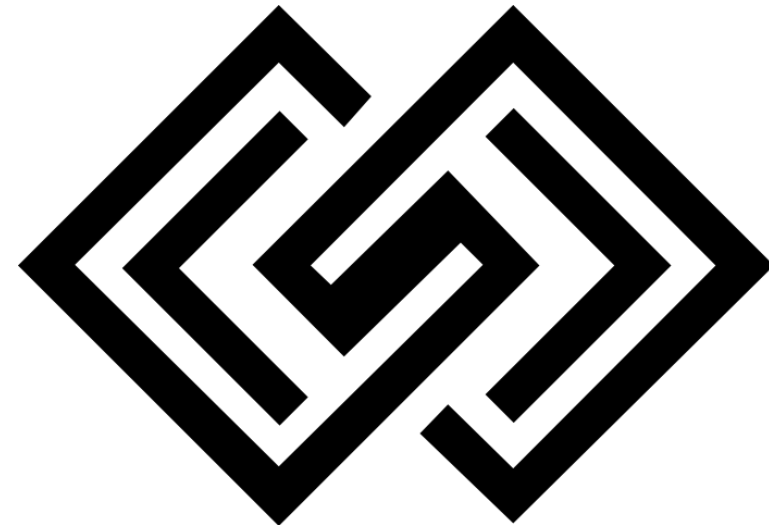# Networks and Distributed Systems Group

Virtual lab tour

DCS

- The Department of Computer Science is one of the 8 departments under the College of Engineering of UP Diliman

- Course offerings
  - Bachelor of Science in Computer Science
  - Master of Science in Computer Science
  - Ph.D. in Computer Science
  - Master of Science in Bioinformatics

University of the Philippines Diliman
Department of Computer Science

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The Department of Computer Science is one of the departments under the College of Engineering, University of the Philippines Diliman.

LEARN MORE ABOUT THE DEPARTMENT'S HISTORY ›

NDSG

- Founded in 2003, one of the eight research labs or groups of the DCS
- Research interests cover
  - Networks – community networks, software-defined networks, embedded networked systems
  - Edge computing, IoT
  - ML applied to networking
  - And also -
    - Transportation technologies, analytics
    - Education-related technologies
    - Language preservation

Who – us?

Faculty

Cedric M. Festin, Ph.D.
Labhead

Wilson M. Tan, Ph.D.

Mario T. Carreon, M.Sc.
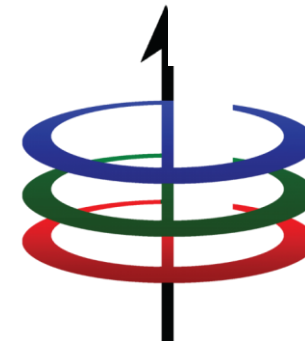
NDSG collaborators and funders

More recent topics of interest

- Internet coverage assessment for development
- Vehicular analytics

Sample work

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An SDN-based framework for improving the performance of underprovisioned IP Video Surveillance networks

Sharleen Joy Y. Go ✉ , Cedric Angelo M. Festin ✉ , Wilson M. Tan 👤 ✉

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Abstract

In the coming years, the dominance of video in global Internet traffic is expected to intensify

Sample work

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Abstract

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References (11)

Cited by (15)

Recommended articles (6)

Opportunistic LoRa-based gateways for delay-tolerant sensor data collection in urban settings

Nikki John B. Florita, Alyssa Nicole M. Senatin, Angela Margaret A. Zabala, Wilson M. Tan 🙎 ✉

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Abstract

There are several ways that sensor nodes in a smart city setting can get data to a base station for processing. Sensor nodes that need not report their data to the base station in real time can opt for a delay-tolerant networking or data muling setup. If the data

FEEDBACK 💬

Sample work

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Tangible Sharing, Invisible Mechanisms: The Design and Implementation of the BayanihaNets Access Sharing Network

Authors: Isabel Montes, Michelangelo Cruz, Augusto Remillano, Monica Villanoy, Lope Beltran, Roel Ocampo, Cedric Festin

Authors Info & Claims

Published: 22 August 2016 Publication History   Check for updates

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GAIA '16: Proceedings of the 2016 workshop

▌ ABSTRACT

Major projects

PCARI-VBTS

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Commision on Higher Education- Philippine-California Advanced Research Institutes

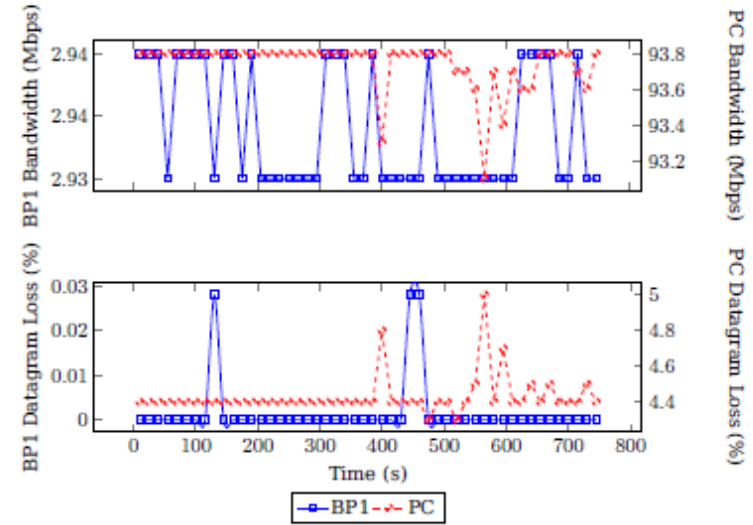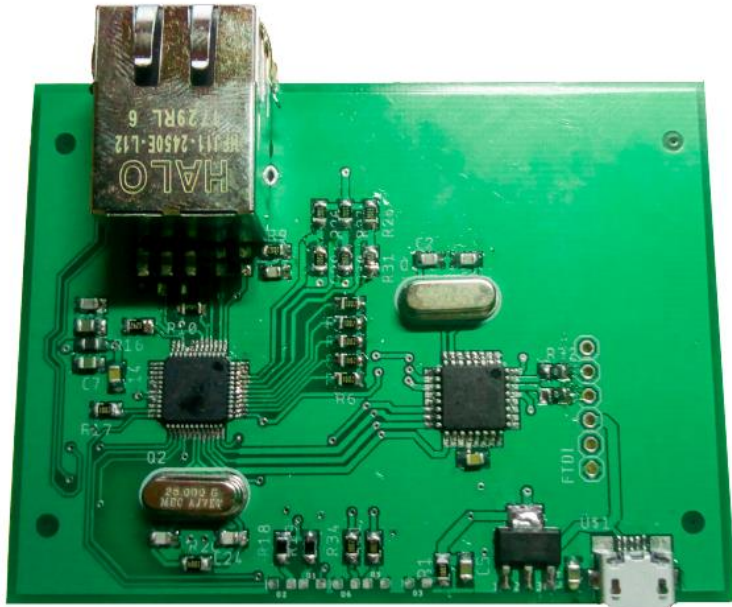## The Village Base Station (VBTS) Project

Major projects

Figure 10: UDP Bandwidth Measurement Comparison Between the Basic Probe I and PC (left y-axis: BP1, right y-axis: PC)
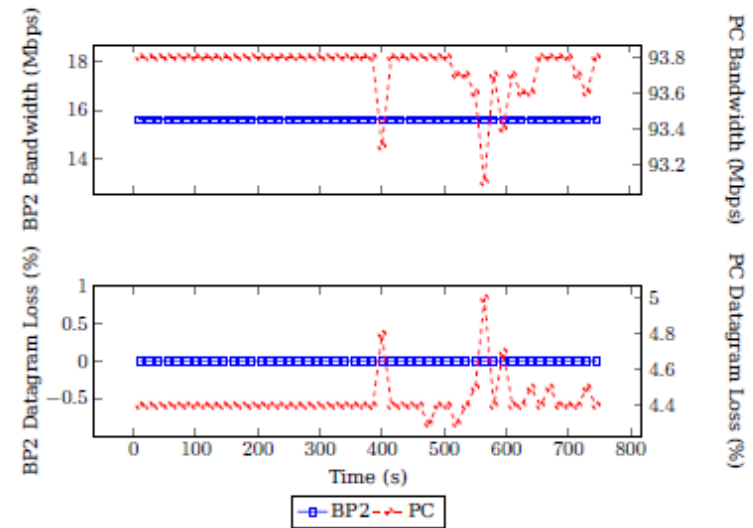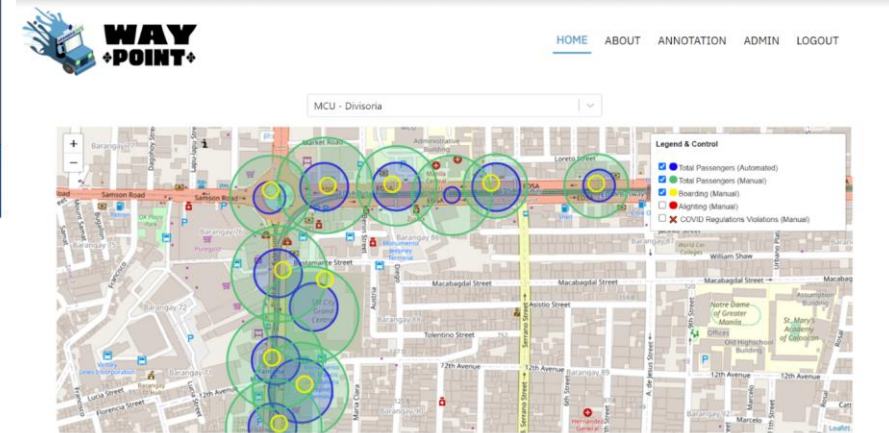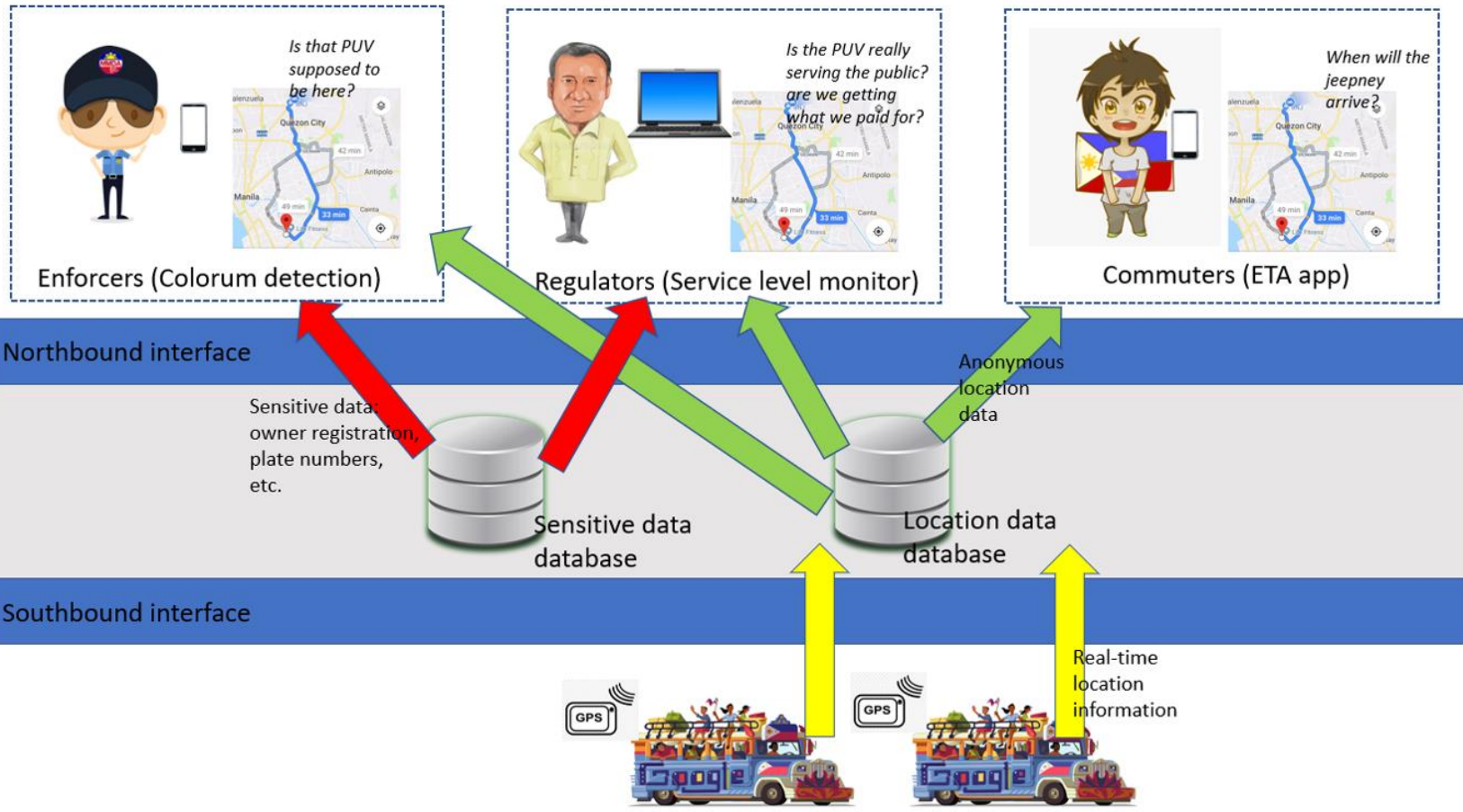

Figure 11: UDP Bandwidth Measurement Comparison Between the Basic Probe II and PC (left y-axis: BP2, right y-axis: PC)

Major projects

Ongoing project

- Help address the inefficiencies in the Philippines' Free WiFi program through efficient, timely gap or coverage identification

DICT's P10B free public wifi project shoddy, says COA

By **Peter Tabingo** - July 21, 2022

THE government spent P10.339 billion for the Free Wi-Fi for All Program of the Department of Information and Communications Technology (DICT) but got too little return for its money, with only 2,890 sites still operational as of April 13, 2022 out of 34,442 that the agency was supposed to put up.

From an initial funding of only P172.56 million in 2015, the DICT received over P10 billion more between 2016 to 2021, the Commission on Audit said.

It noted, however, that despite ample funding, at no time did the agency hit its target number of Wi-Fi sites in those six years.

Records showed the project had P1.325 billion in 2016, P3.317 billion in 2017, P1.66 billion in 2018, P1.445 billion in 2019, P1.371 billion in 2020, and P1.049 billion in 2021.

However, performance tabulation showed the DICT only put up 233 out of 1,313 target sites in 2016 (17.75 percent); 805 of 5,746 in 2017 (14.01 percent); 1,125 of 5,308 in 2018 (21.19 percent); 1,088 of

INTERNET IN THE PHILIPPINES

Only 882 of 6,000 sites covered so far under public Wi-Fi project

MAY 25, 2021 4:56 PM PHT

RAMBO TALABONG

LAST MILE CONNECTIVITY
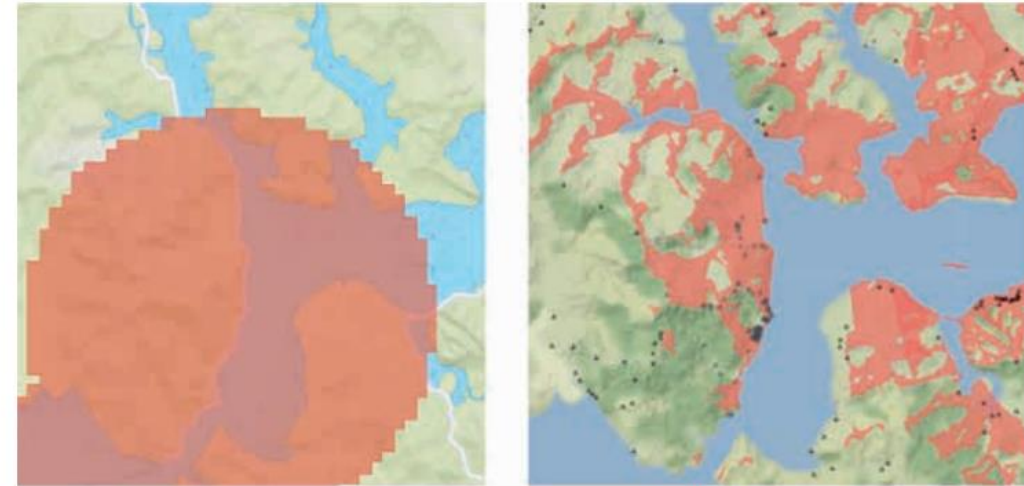
ADDRESSING THE AFFORDABILITY FRONTIER

Jonathan Brewer, Yoonee Jeong, and Arndt Husar

Figure 10: Carrier Supplied and Government Generated 4G Coverage Map

Low Resolution Coverage Model

High Resolution Coverage Model

Source: GSMA–Network Coverage Maps. Accessed 9 February 2022 at https://www.gsma.com/coverage/#565 Author. Northland Broadband Map. Northland New Zealand Digital Enablement Group, 3 October 2021.

Physical space virtual tour

Thank you!