

Classroom



Global  
Shared  
Learning

**Global Classroom  
(ITA & TEC)**



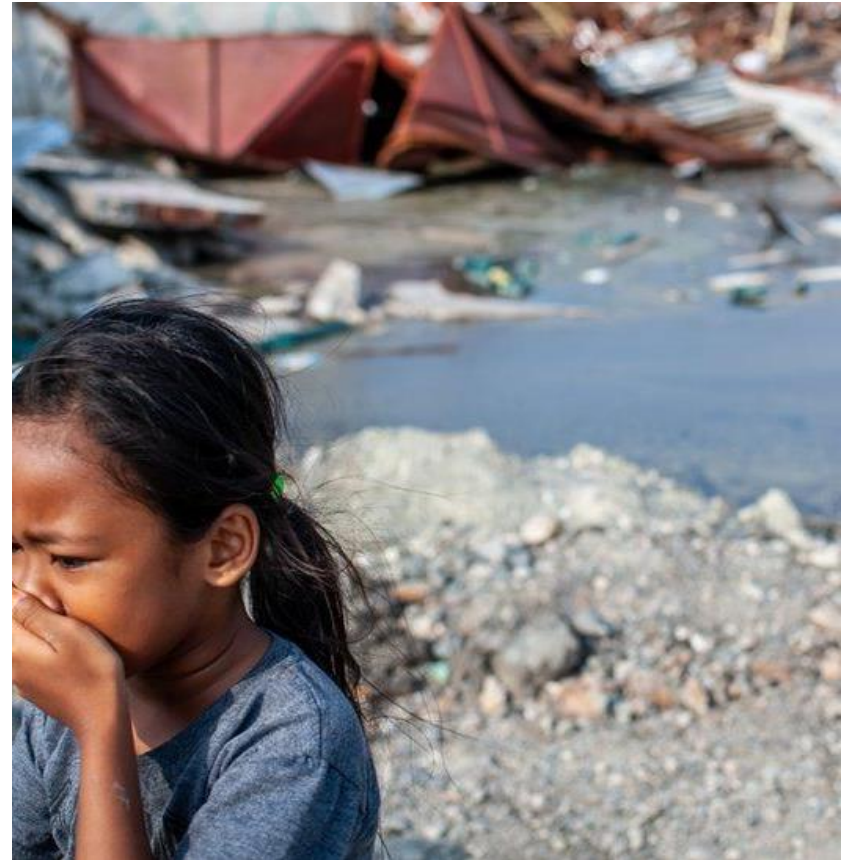
**Tecnológico  
de Monterrey**

# what is **GLOBAL** **CLASSROOM?**

# Goal of Collaboration

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- The collaboration focuses on developing the students the **sense of cooperation needed to solve a complex problem.**
- The problem to be answered is how to provide an **efficient and secure environment to send a distress message when a natural disaster occurs (earthquake, flood, etc.).**



# SDG's goals

The sustainable development goal is the **“Industry, Innovation, and Infrastructure”** and **“Sustainable Cities and Communities,”** where the group will work to build a resilient infrastructure when there is a natural hazard.

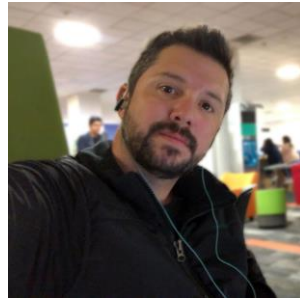




# Professors



Alexandre Barreto



Luis José González



Luis Yépez Pérez



Cesar A. C. Marcondes

# Scenario - Flood

**No Telecommunications**

**No C2 Resources**



**Drones Operations**

**Raspberry Devices  
OR  
Android**



# Scenario - Flood

**No  
Telecommunications  
No C2 Resources**



**Drones Operations**

**Android**

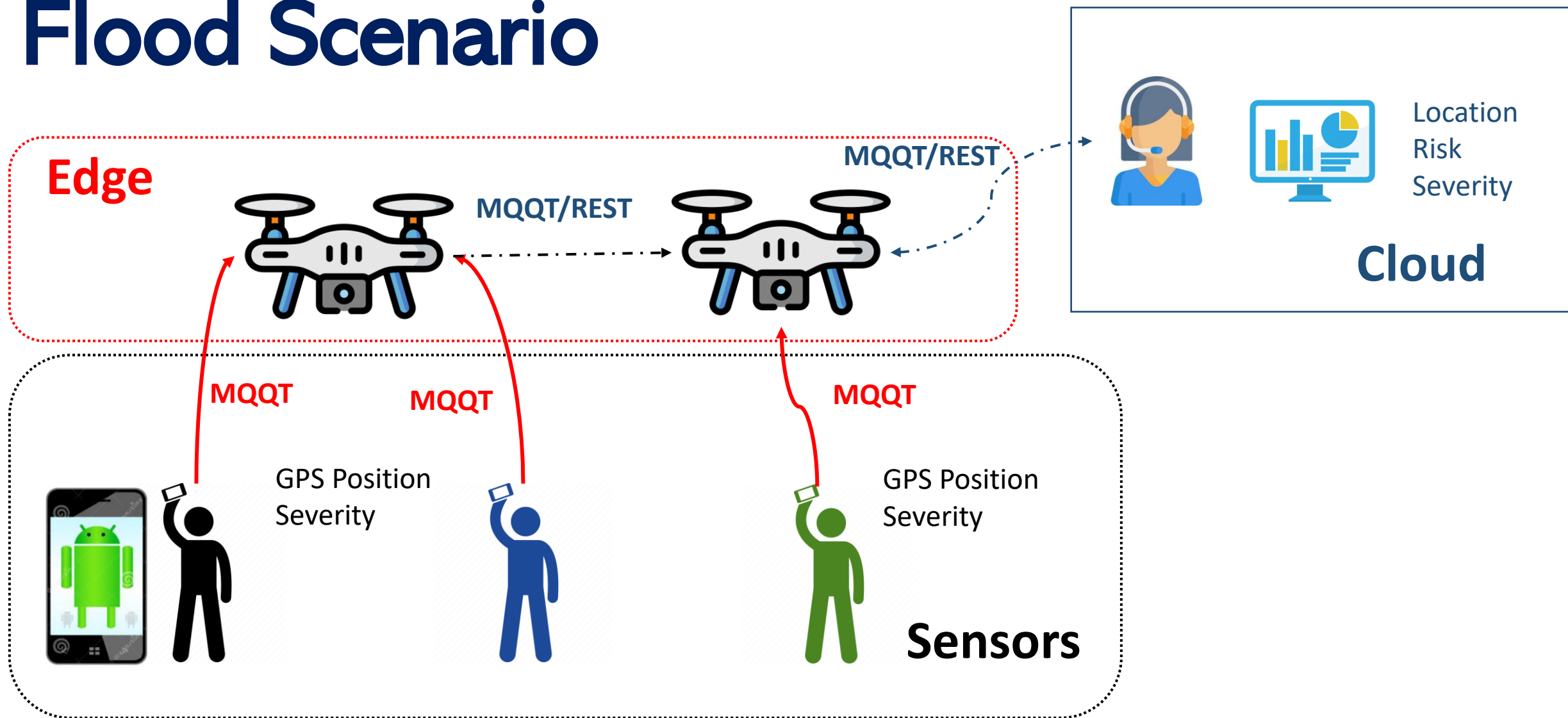


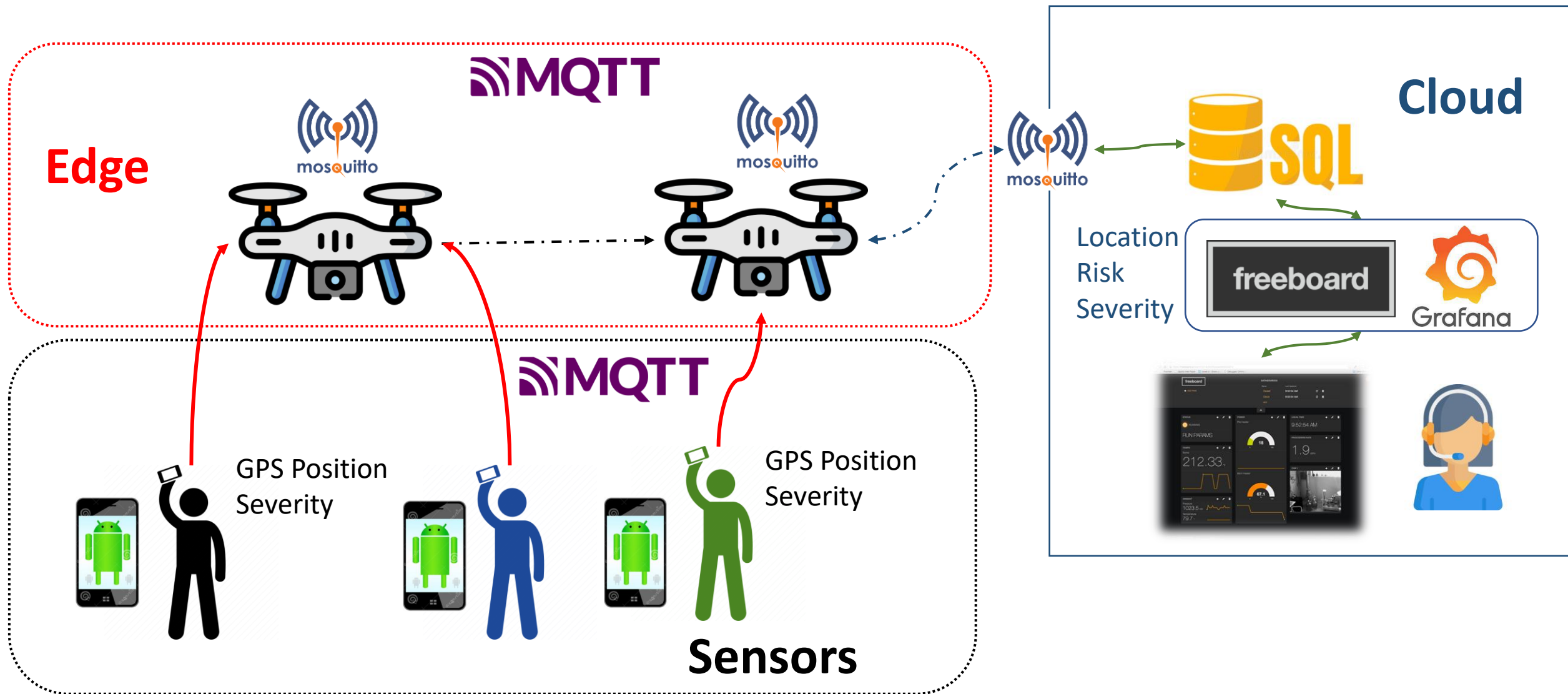
ENCHIENTE - 2008

ITAJAÍ - SOBREVOO



# Flood Scenario





## Legend



Emulated user node



Real node (Android)



Real MQTT Broker – Bridge Mode



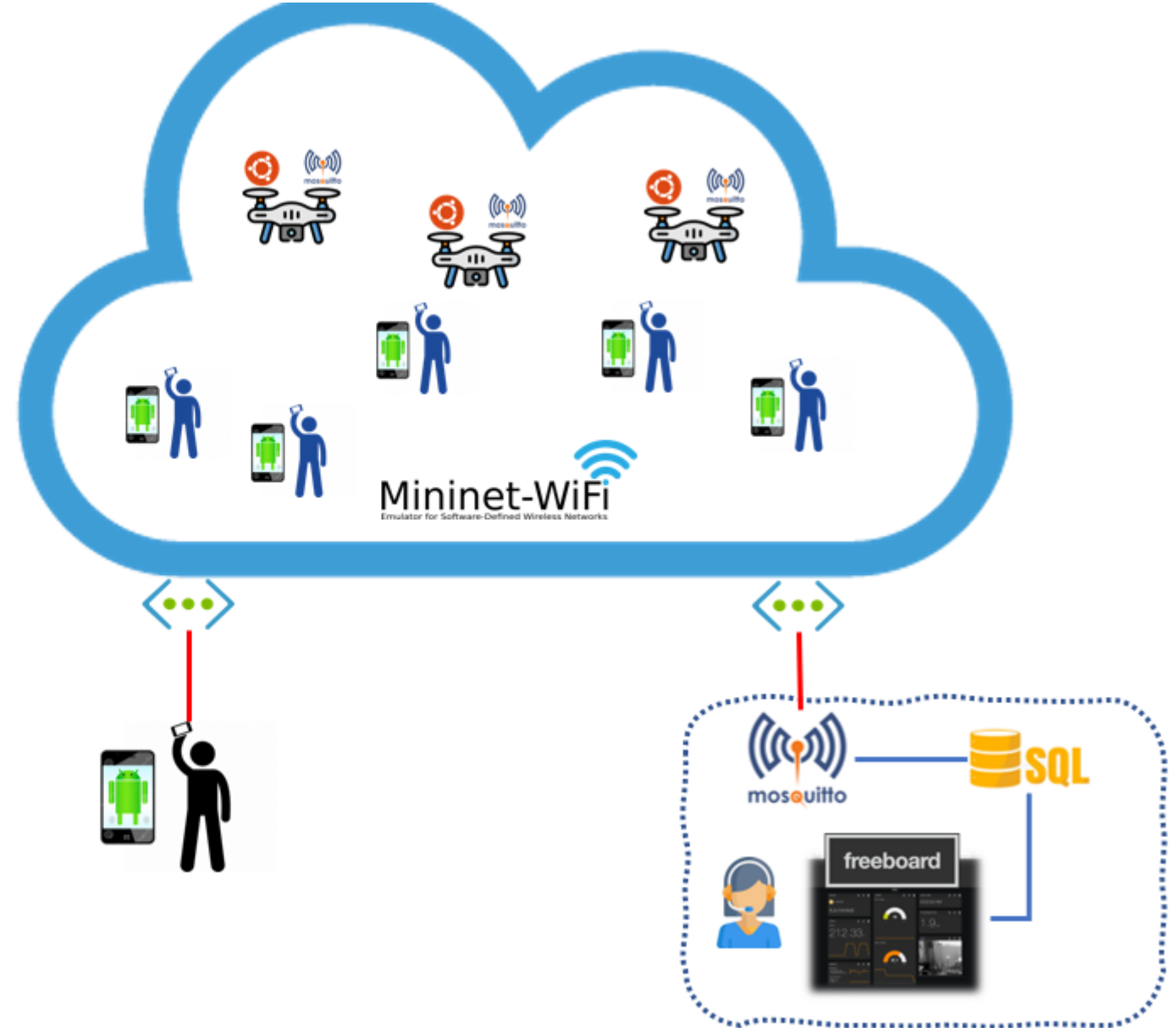
Emulated Interface (Mininet)

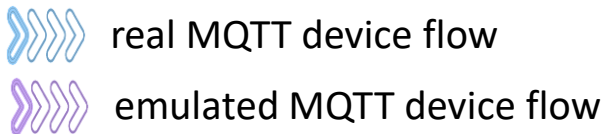


Emulated Wireless Environment (Mininet)



Real Application Server









Trabajo colaborativo entre Profesor TEC y Profesor Internacional



Objetivo en común



Definir temática de interés



## Acompañamiento durante la experiencia por parte de Coordinadores de Global Shared Learning Classroom



Icebreaker

1 semana

### PASO 1

Intercambio de ideas  
Discusión

Evidencia de participación



### PASO 2

Construcción de acuerdos

Evidencia de participación



### PASO 3

Presentación

Entregable



Reflexión

1 semana

Actividad colaborativa multicultural

2 semanas

### Herramientas

Qué herramientas necesito. Por ejemplo: videoconferencia, tablero, presentación, mensajería instantánea, almacenamiento en la nube, etc.



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# Agenda

- Week 1: Icebreaker Video & Reply to the peers
- Week 2: Project Setup
- Week 3: Client & Edge Stage
- Week 4: Cloud Stage
- Week 5: Final Presentation & Reflection

# Final Presentation

- **What is the problem? (3 minutes):** In this part, the student needs to explain the situation the system plans to solve using external references (like news, papers, etc.). It is essential that the question related to the “why” needs to be answered. Try to motivate the audience to continue to watch your video.
- **Technical Architecture of Solution (8 minutes):** The student needs to explain the technical architecture. It is essential to identify the system’s border (what is inside and outside) and use formal language (like package, system UML diagram, or SysML).
- **How to configure the solution (1 minute):** It is essential to cite the issues about how to compile, configure, and run your solution. Remember, one of the items required to deliver is the README in the git. The idea is to explain the setup and some tips for compiling the code.
- **Demo of System (until 8 minutes):** This part is essential to demonstrate all the system's functionalities.

# How do we evaluate the activities?

## Step 1 – Icebreaker Video

Each student will make a video introducing yourself (1-3 minutes) where you tell us about yourself, who you are, where you are from, what you like to do in your free time, what are some of your interests or passions, and your plans. The idea is to focus more on what the international peers (you suppose) do not know about you, your city, your country, and your school.

Try to get the group's attention and remember that this is your opportunity to meet interesting people worldwide. Feel free to express yourself; this is a safe place we all respect.

After you generate the video, assign this space in [Padlet](#); here, you will start a new post with your information as the title following this format: **Institution.FirstName.Lastname** (ex.: TEC.Alexandre.Barreto).

You can find the manual to create a post in the Padlet [HERE](#).

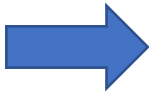
### Rubric

- **(100 points):** You make a post with your video of 1 to 3 minutes introducing yourself to your colleagues, talking about who you are, where you are from, what you like to do in your free time, what are some of your interests or passions, and your plans.
- **(80 points):** You make a post with your video of 1 to 3 minutes introducing yourself to your colleagues, but you missed to talk at least about one of these topics: who you are, where you are from, what you like to do in your free time, what are some of your interests or passions, and your plans.
- **(50 points):** You make a post with a brief video (less than 1 minute).
- **(0 points):** You did not share a video.





<https://github.com/kabartsjc/gsl-iot-2022>



**TC1004B IOT**

- # gsl-los-merengues
- # gsl-los-súper-papis
- # gsl-motomamis
- # gsl-pótamo
- # gsl-taquinhos-du-macaco
- # gsl-team-mancuerna
- # gsl-webseekers
- Adrián Lozano González
- Channels
  - # course-preparation-professors
  - # general
  - # gsl-531-students
  - # gsl-532-students
  - # gsl-br-mex**
  - # gsl-professors
  - # random
  - + Add channels
- Direct messages
  - Slackbot (1)
  - Alexandre Barreto you
  - Ana Lucía Ahedo
  - Andrés Eugenio Martínez Sá...
  - Antonio Machorro Herrera

**# gsl-br-mex**

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2022

Friday, October 28th

**Cesar Marcondes** 8:52 AM  
Hola !!! Brazilian students, please, make note that this will be the official communication channel for things related to the project

👍 2 😊

Yesterday

**Alexandre Barreto** 5:03 PM  
Guys, tomorrow is the **Opening Session** (7 PM Mexico and 10 PM Brazil); I'm very excited to start working with you! 😊

**Cesar Marcondes** 6:16 PM  
**@Alexandre Barreto** just to confirm, you will send a link for the meeting? and also, it is from 10PM to 11PM? just to keep correct expectations about the meeting

**Alexandre Barreto** 6:29 PM  
The link is here: <https://itesm.zoom.us/j/2507709790>  
Yes, the meeting will be from 10 to 11 PM

Guys is tomorrow the Opening Session, I'm very excited to start to work together!

**# gsl-531-students**

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Thursday, October 28th

Today

**Alexandre Barreto** 7:00 PM  
Guys, given the doubt perform activity 6.5.1, date to next Saturday, week, I will repass the

**Alexandre Barreto** 11:00 PM  
Guys, just remember t will be using zoom!

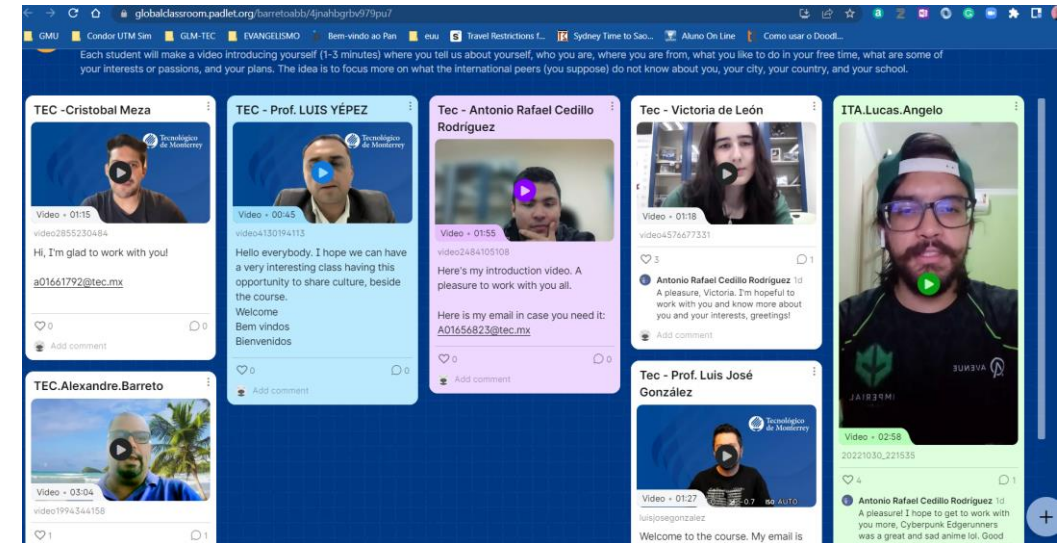
# Digital Badge

- Participation in the icebreaker.
- Participation in Team Activities.
- Participation in the Reflection.
- Obtain 80% of the total of the Global Classroom grade.



# Icebreaker Activity

- video introducing yourself (1-3 minutes)
- tell about yourself, who you are, where you are from, what you like to do in your free time, what are some of your interests or passions, and your plans.
- The idea is to focus more on what the international peers (you suppose) do not know about you, your city, your country, and your school.
- **reply to at least two other students (from the other country)**



<https://globalclassroom.padlet.org/barretoabb/4jnahbgrbv979pu7>





## Next steps

- Read the GitHub website
- Talk if your peers
- Perform the icebreaker activity
- Answer the survey

<https://calendly.com/d/g6f-7r8-nzq/what-day-would-you-like-to-have-advice>

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