

# IT'S WORSE THAN YOU THINK

Smart City San Diego Update  
11 July 2018

# DC GROUP SAN DIEGO RESOURCES

What we've done

# Documents about Smart City San Diego

## Smart City Fans Hackathon 22 June 2017

Step 1: install Postman

### What is Postman?

"A powerful GUI platform to make your API development faster & easier, from building API requests through testing, documentation and sharing. Postman doesn't require learning a new language, complicated UI, or new workflows. Developers can start using Postman immediately to make API development faster & easier."

## Smart City Fans 2 March 2018

Observations in the Wild

Four "Smart City" streetlights have been observed and photographed in the wild in Carmel Valley, San Diego, CA near Ashley Falls School.



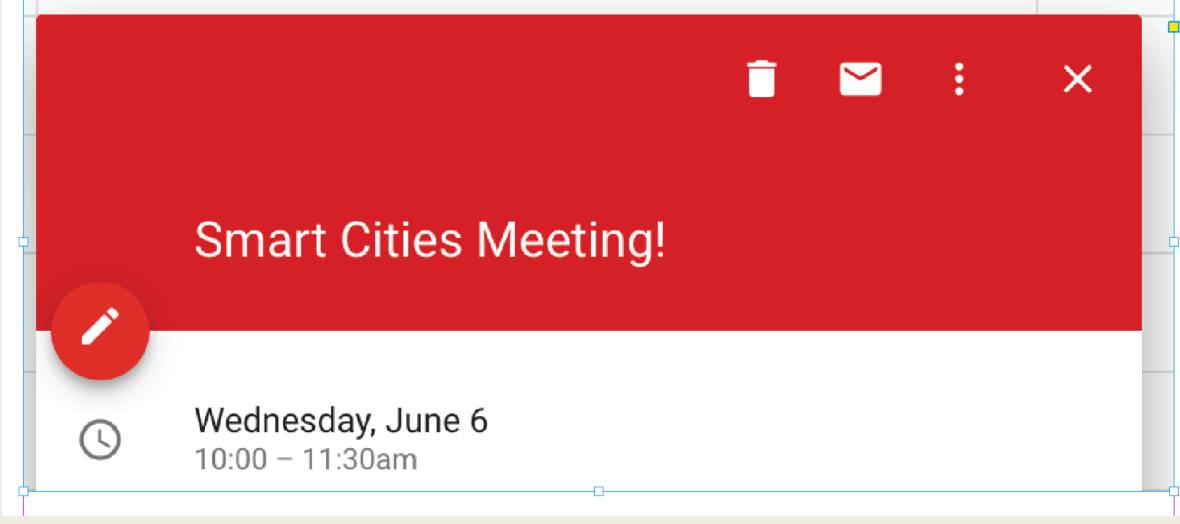
Go join our #smartcity channel. Here's a really fast tutorial. San Diego has the largest IoT deployment in the world. It is at the forefront of buying, using, and figuring out this technology. Smart City generally means LED street lights with sensor packages that are connected back to city employees, contractors, academics, law enforcement, and possibly military organizations. All of these groups have a wide variety of motivations for using and acting on the sensor data.

Sensors include video, audio, and environmental. Processing can be done at the sensor pod, in various clouds, and on demand.

Through social engineering, we were able to influence the placement of ~37 pods. They are in Carmel Valley. They are accessible, in a quiet neighborhood, and operational.

# What I'm talking about today will be:

CISCO Ecosystem  
Meeting Notes  
6 June 2018



What we also want to have is:

# SmartCity Fans Reverse Engineering



# Who was at this meeting?

- Attending were some very nice, highly intelligent, and motivated people

Dan Goodman VP sales at Radius AI, formerly CISCO

Jason Van Arsdale with World Wide Technologies, formerly CISCO

Jeff Cox from Radius AI

Lorie Cosio-Azar Project Officer San Diego Environmental Services Department

Michelle Thompson, Devoted Environmentalist Friends Concerned with Our Neighborhood

Robert Hubbard from CISCO

Robert Wolfe from World Wide Technology.

Brian, a “friend and advisor” to Radius AI.

# MASS PROACTIVE SURVEILLANCE



# Use Case – School Shooter Intervention

- “Bobby, who is a student the school is already concerned about and the school has already had the opportunity to flag, is arriving at school in off hours with a duffle bag. Bobby normally doesn’t carry anything and always arrives on time. Cameras recording Bobby are running software that can recognize emotions from facial expressions and it is determined that he is upset. This fits the profile of what we’ve seen in the past with school shooters. Law enforcement sends a drone and intercepts him before he shoots up the school. Law enforcement is sent, without waiting for a call.”
- There is a lot going on here with this use case.



## Respond

- Lots more data is monitored + AI
- Response is automatic

## Prevent

- Some data is monitored
- Patterns have been learned

## Archive

- Data is stored
- Query data

# PRIVACY AS A SOLVED PROBLEM

We've got a good handle on it.  
We work with bankers and the health industry.  
It's just like any other chain of custody.

“There’s a lot of fear and paranoia of the unknown of privacy. The private sector crossed that bridge a long time ago. Uber? AirBNB? Social Media? The privacy laws are not an unknown. Social media is another element here. Say we have a word cloud over this area. Sentiment is negative. We don’t like it. I don’t like that. We should go investigate.”

*The “we” in this case is law enforcement.*

Radius AI brought a demo. Real time video, with make and model and color of all the cars identified, and license plate, faces, and figure processing. Classification of accidents based on historical data and physics.

“You are using very old analytics in the GE pods. The next level of AI is different.”

“If you want faces and license plates blurred, then we can do that, but it’s actually there underneath and can be retrieved later.” (credentials)

# CHRONIC SURVEILLANCE



# Use Cases - Chronic vs. Acute

- Homeless monitoring
- Blight identification
- Gentrification prediction

This is ambient, long-term monitoring that results in data products that have enormous economic and human consequences. Data scientists at Radius AI and World Wide Technology are engaged in this area as well as acute traffic and safety issues.

# GRANTS GRANTS GRANTS

A twisty maze of passages that all lead to better grant partners.

# Upcoming “Smart Region” Planning

- Military has offered a lot – urban ”playgrounds” to test surveillance
- Universities – want to be involved and get grants and let students write papers
- Police – want all the data
- SANDAG Automated Regional Justice Information System – tied in?
- CALTRANS – traffic data
- The Port – security and safety
- Airports – security and safety
- All the Cities – total information awareness
- Zero Vision – know where all the near misses are
- San Diego SCALE – “City as OS” help businesses make lots of money
- The Block Grant city people – total information awareness, help businesses
- Possible grant for the Carmel Valley pods! Meeting next week.

# WHAT'S NEXT?

Join #smartcity and look for pods near you!

Pods aren't the only thing...

Last week we learned how to read water meters!

It's easy\* with an RTL-SDR and  
<https://github.com/bemasher/rtlamr>

Learn more in #smartcity

Remember, your infrastructure is now spying on you.

