Slide 1:

Hello,  
I am Reza representing Cogent Company. We are presenting ‘Noise Pollution Insights’ for the “Smart Cities Hackathon”.

Slide 2:

* Our problem is that the environment agency estimates that noise is responsible for 72,00 hospital admissions in Europe alone, However our main focus is on Singapore with 5.7 million population.
* We are different because we will provide a unique proposal to save the govt time and money and provide a better health assessment for the population.
* Singapore is facing a severe issue of urban noise pollution. More than 80% of its citizens live within short distances between transportation. Around 70,000 complaints of excessive noise are made every year.

Slide 3:

First, Our solution to the problem for smart Transportation is that the individual can identify noise pollution in the environment and receive Health predictions in the short and long term named Pollution Watch

Second, is that the environment agency can identify alert levels using a dashboard named Pollution Insights

Slide 4:

Globally, our monetization findings shows that monitoring the noise market was valued at over 700M in 2019 and is projected to reach over 950M by 2027 which is growing at a rate of 4.21%

Smart Transportation Market size (Singapore) 2020: 21.3M USD

In Singapore the greatest monetization lies within the red zone which are the urban and highly densed area. The least lies in Amber zone and no monetization in green zone due to no complaints.

Slide 5:

The underlying magic of our proposal, that we don’t show to the public is the impact it has on the real-time noise pollution index after using the product.

This is a visualization showing for central Singapore before a moderate index of 74 to a good index of 30.

Slide 6:

Introducing our Noise pollution watch. The user can submit noise signals in dB and on GPS location.  
  
The app also integrates with mapping technology to show polluted places within same vicinity.

Slide 7:

Introducing our Noise pollution Insights. The purpose of the dashboard is to enable environment agency with greater insight on noise polluted data collected by the mobile app in real-time.  
  
The dashboard can also show different alert level for agencies to take actions on and make better informed decisions.

Slide 8:

Here is our conceptual architecture showing the integration of all the components described such as the mobile app to the cloud services to the dashboard and to our ML models for making health predictions.

Slide 9:

Overall, we conclude the benefits of using both Pollution Watch and Pollution Insights to save the government time and money.

In addition, other benefits include:

* Cost Reduction
* Positive Health Impact
* Informed decision making for Environmental Agencies
* Reduce Carbon Footprint
* Smart Transportation
* Higher Real Estate Values

Slide 10:

Going Forward, our roadmap ahead is shown in the following verticals.  
  
**Budget and Finance Approval**

**Connectivity**

**Scalability**

**User Participating Incentives -** Earning points for noise transaction

**Future Predictions (Machine Learning)**

* + Health Model
  + Real Estate Model

**Environmental Actions**

* + Re-allocate funds
  + Notify the agencies
  + Consider preventive measures

Slide 11:

These are our team members and thank you for your time.

Slide 12:   
Also, thank you Mentors and HackMakers.