



# Directing Integrating KISTI dataset with GIS software using WFS

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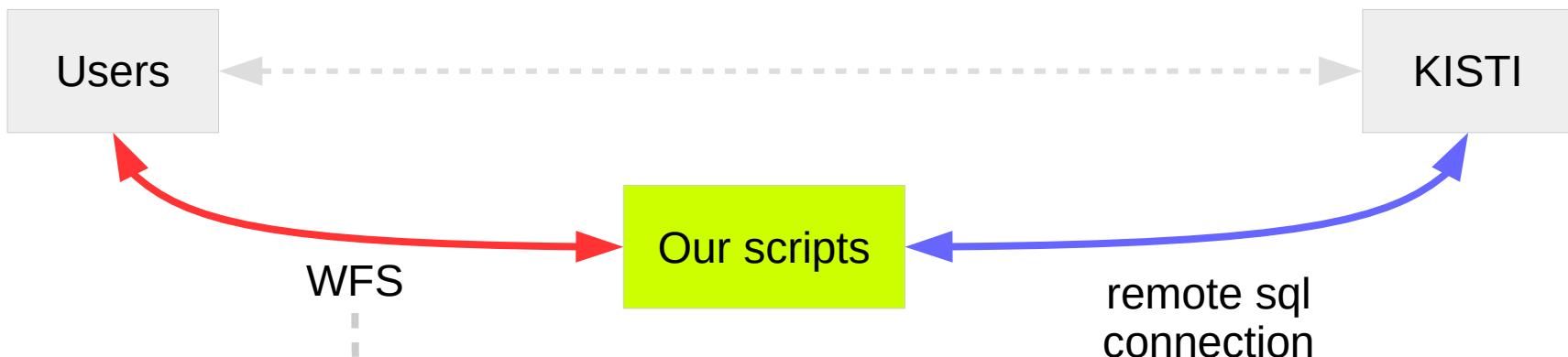
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**KISTI IoT DATA Hackathon**  
November 16<sup>th</sup> - 22<sup>nd</sup>, 2017  
Saint House, Jeju, Korea

# Introduction



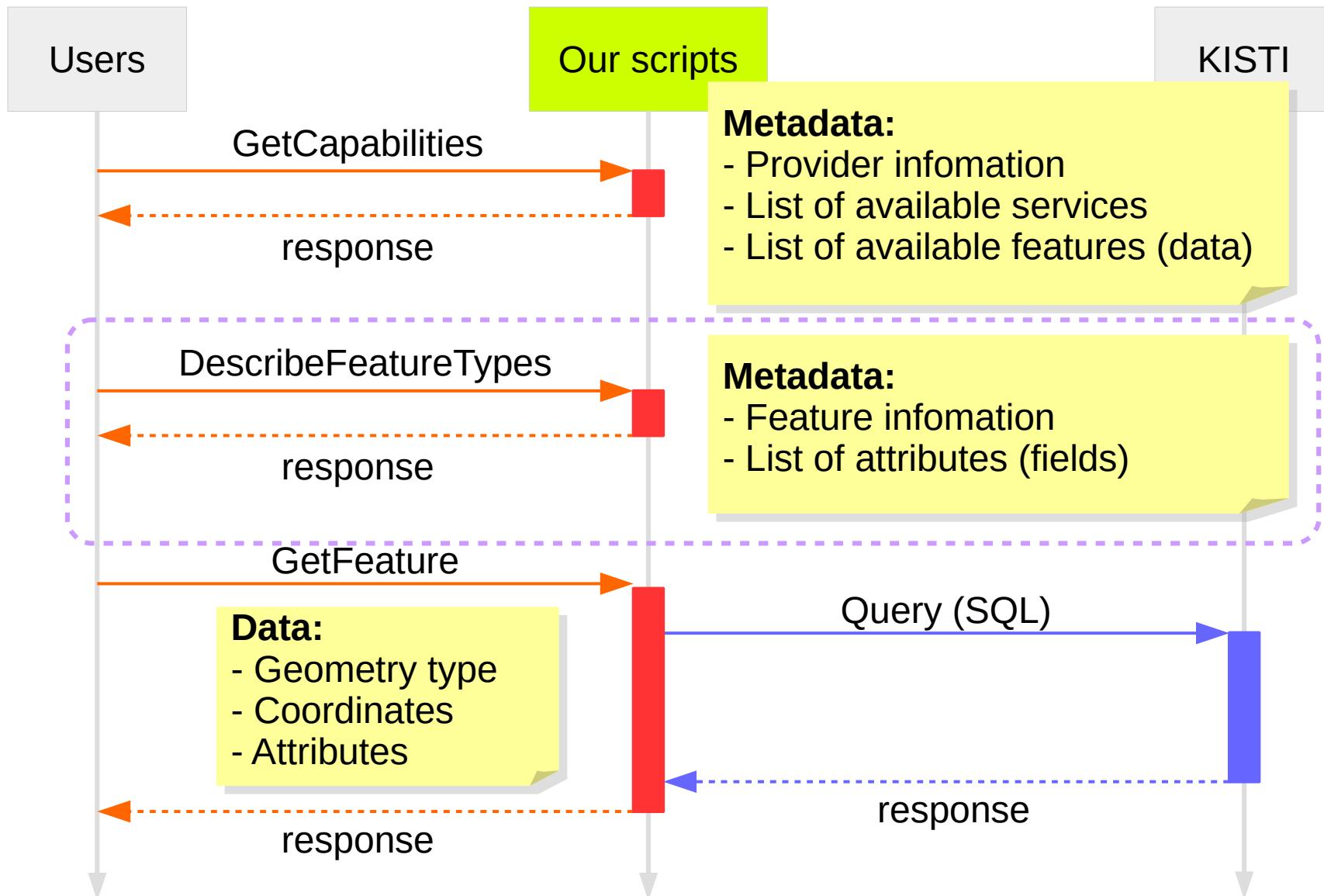
# System Overview



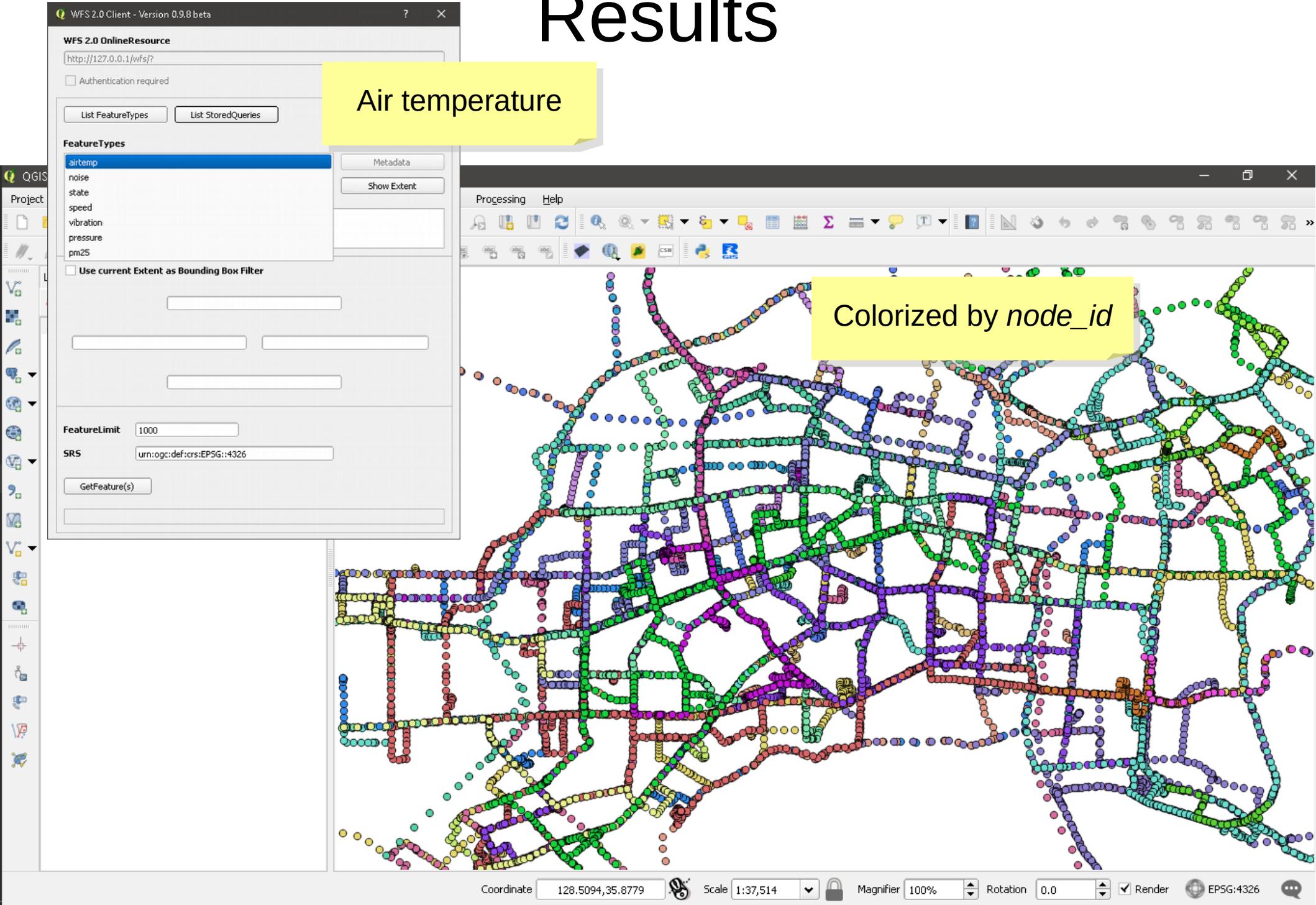
## Web Feature Service interface standard

- Open Geospatial Consortium (OGC)
- GML + attributes

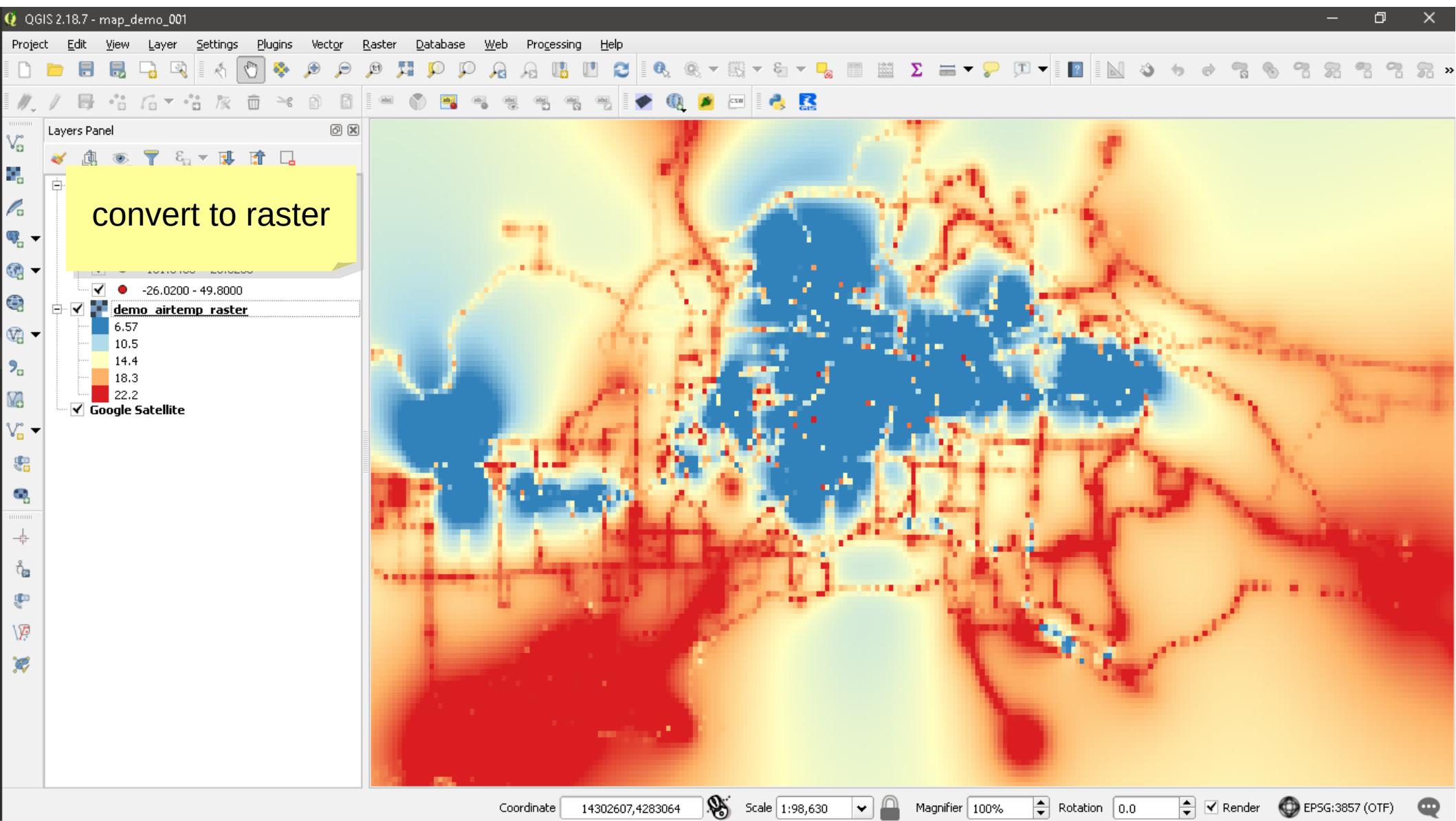
# System Overview (cont'd)



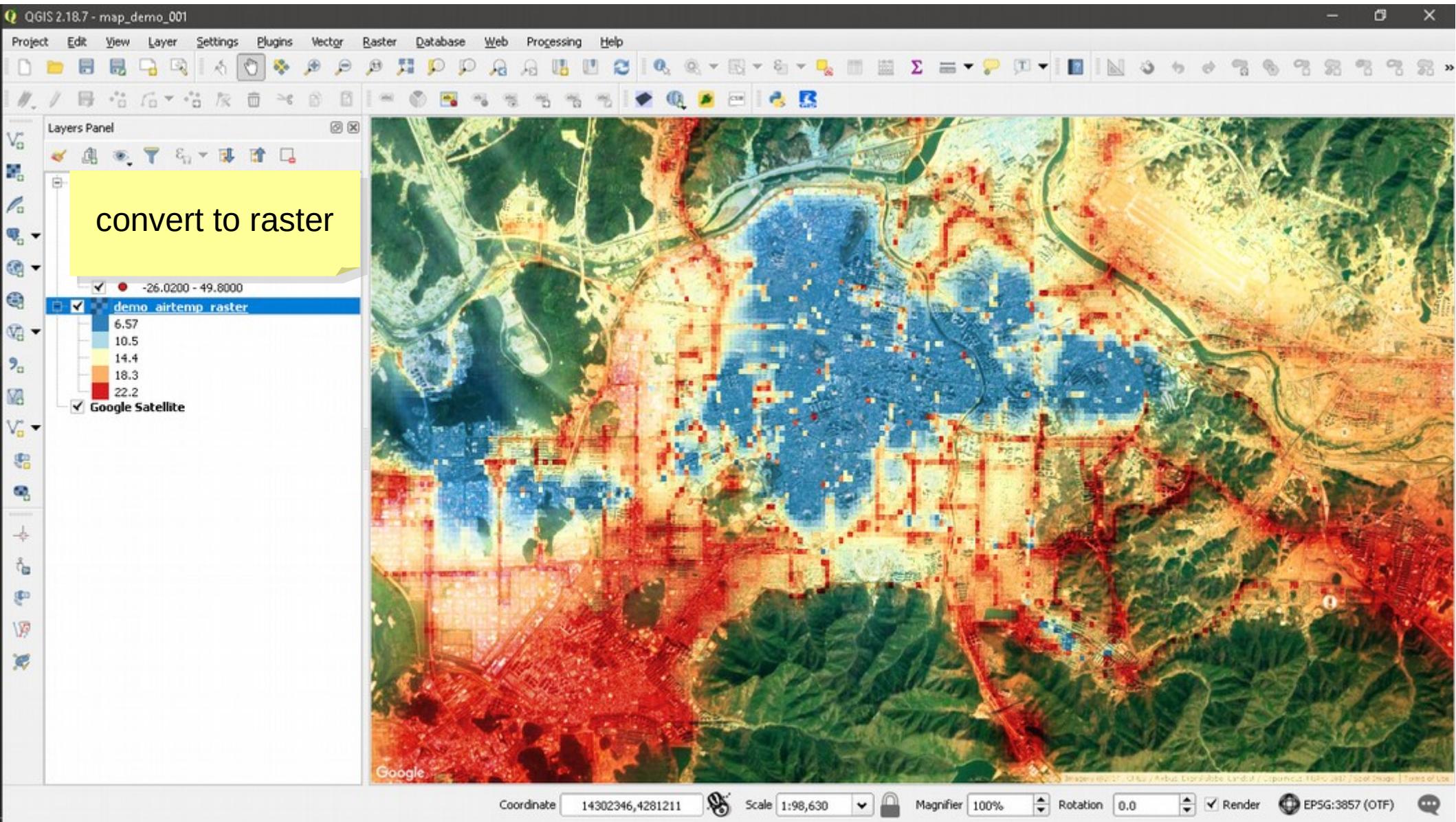
# Results



# Results (cont'd)

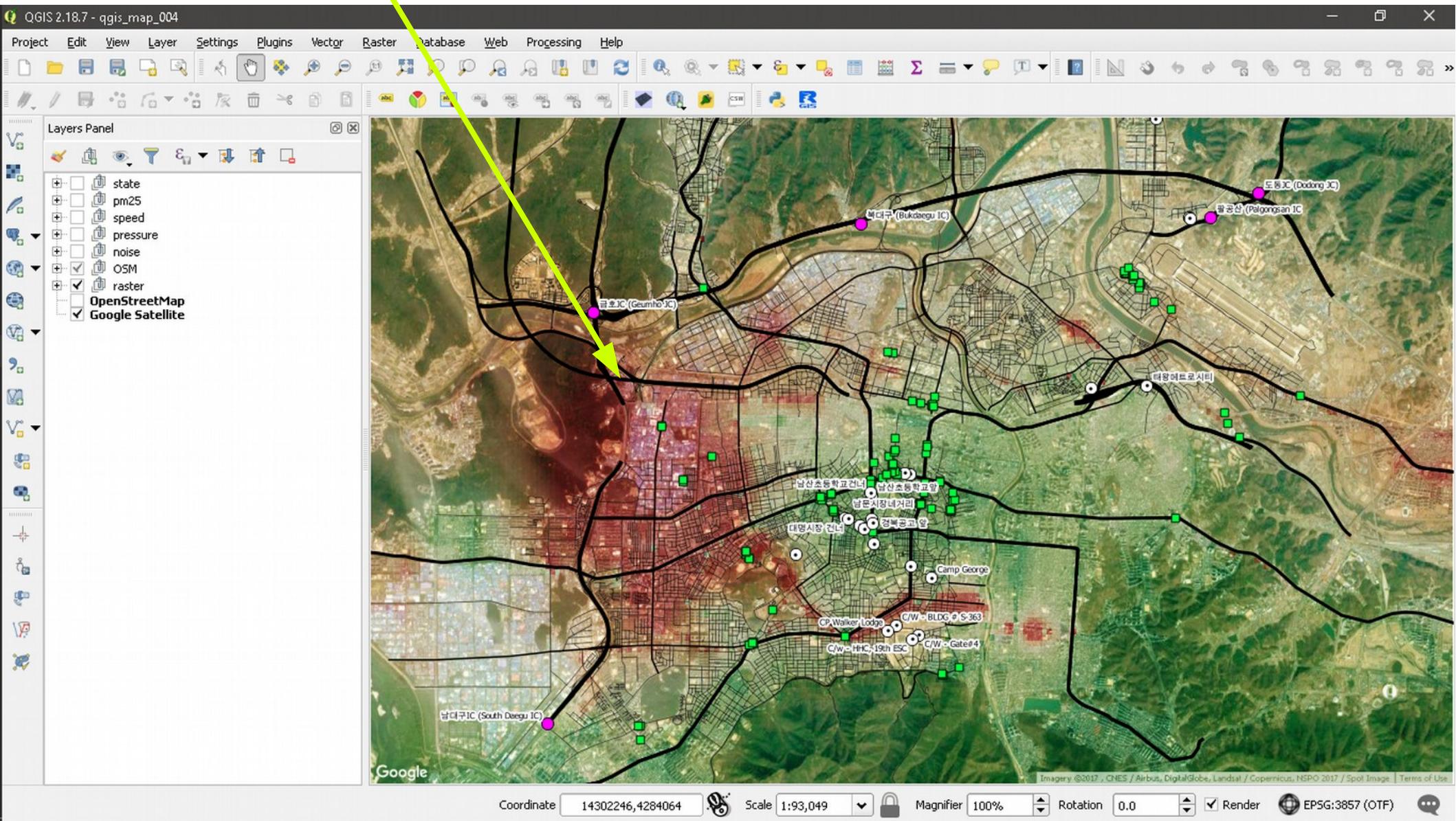


# Results (cont'd)



# Example applications : 1

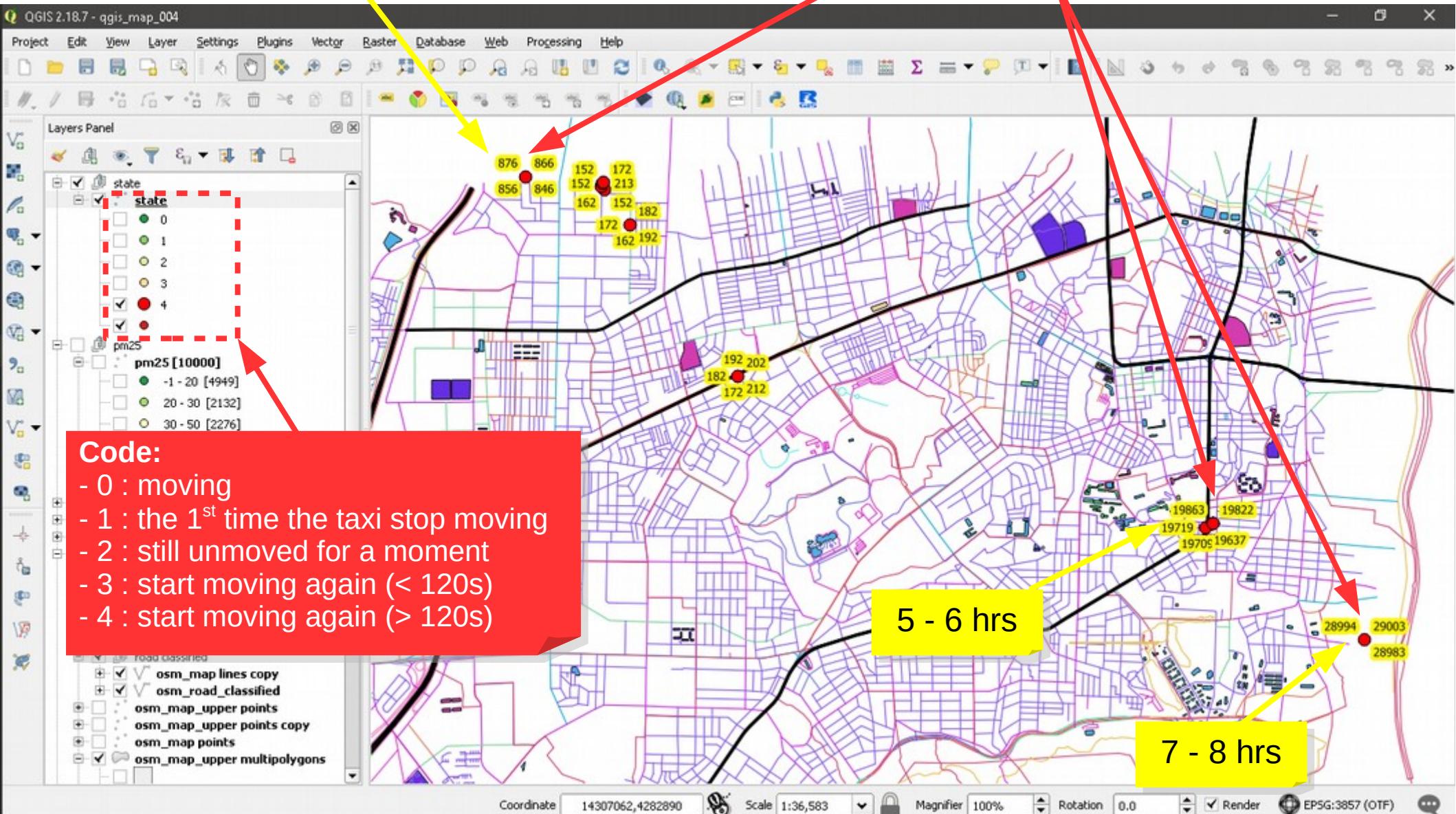
Air pollution map (pm2.5, red > 0.05mg)



# Example applications : 2

13 mins

The taxi usually stopped/parked at these locations



# Discussions

- Limitations
  - Not real-time : points data is **cached** after requesting
  - Need to include **time** into calculations
  - XML is a **text file**
- Future works
  - WFS + **geo-database management software**: users can request **spatial operations** (buffers, union, intersection, search by distance) in realtime/online

# Thank you

