## **Air Quality Network**

7 m Quality received	
Backend Data Processing & Visualization Pipeline	
V	Sensor Deployment
V	Containerization
V	NodeRed: mdash.circ.utdallas.edu:1880
V	InfluxDB: mdash.circ.utdallas.edu:8086
V	Grafana: mdash.circ.utdallas.edu:3000
V	Open Storage Network S3 Integration
Time Series Uncertainty Quantification	
V	TimeSeriesTools.jl package implementend
V	Representativeness Uncertainty
V	Variogram modeling for nugget, range, sill
V	Data collected (3 year time series from Central Node)
(L)	Application of method to entire dataset (in progress)
<u></u>	Paper
Time Series Modelling	
V	HAVOK Code Developed
V	HNN + Auto Encoder Code Developed (with AutoDiff)
V	Dataset Collected (sample 10-day time series for PM)
<u> </u>	HAVOK-UDE Hybridization (in progress)
<b>(</b>	HNN + Auto Encoder Training (in progress)
(L)	Paper