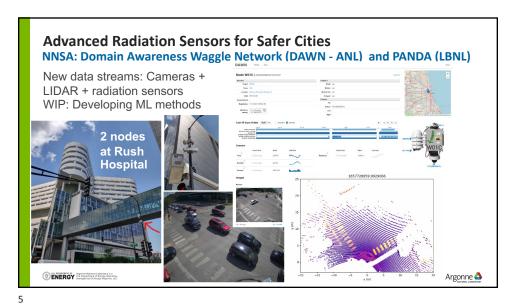


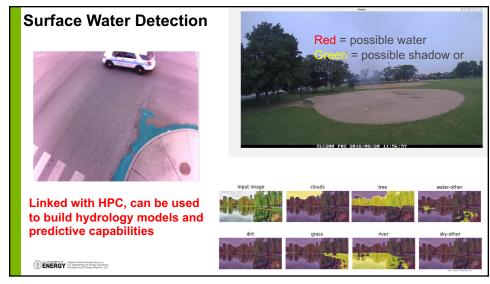
MEASURING TRAFFIC STATE USING VEHICLE TRACKING

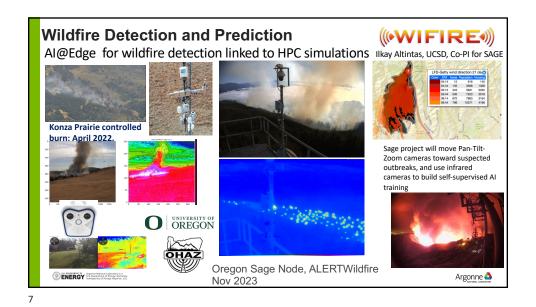
Chicago O'Hare Improvement Project:
Understanding Traffic Type, Flow, and Density
DOE VTO (EERE)

Nodes:

- Need 110-240/ACC
- 278 B at Winds
- 278 B at Winds
- 278 B at Winds
- 28 B at Wind







**Exelon: Measuring Cloud Coverage for Estimating Solar Irradiance** Park, Seongha, et al. "Prediction of Cloud cover using FCN, U-Net, DeepLab v3, PLS, and AdaBoost models solar irradiance and photovoltaic solar energy product based on cloud coverage estimation using machine learning methods." *Atmosphere* 12, no. 3 • Solar irradiance = (1-cloud cover(ratio)) x max solar irradiance (2021): 395. Model mIoU mAP mAR PLS 0.6467 0.8961 0.6991 **FCN** 0.5649 0.89740.6040 **U-Net** 0.7626 0.9869 0.7703 DeepLab 0.5335 0.9234 0.5582 500 AdaBoost (class) 0.6128 0.8494 0.6875 250 AdaBoost (norm) 0.5856 0.8646 0.6448 Class 06h08h10h12h14h16h18h20l Deep<sub>1000</sub> Lab 1000 750 FCN 500 500 250 tower → pls <del>−−</del> fcn → adanorm deeplab  $\longrightarrow$  ada — unet

