

Deploying IIoT across Private-LTE for Industrial/Utility Assets

Panel discussion

Sempra, Nokia, Qualcomm, SenseOps, OSIsoft

Video

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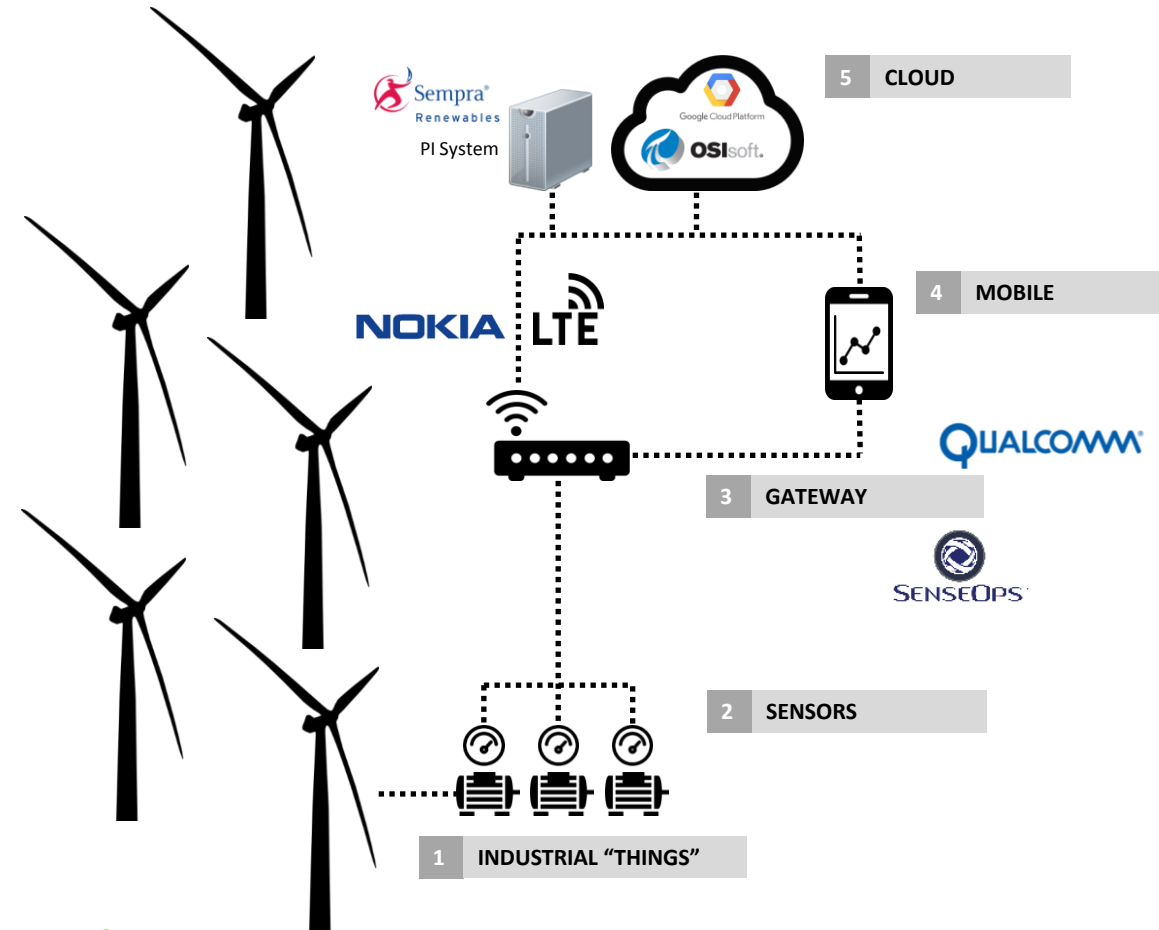


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Challenge:

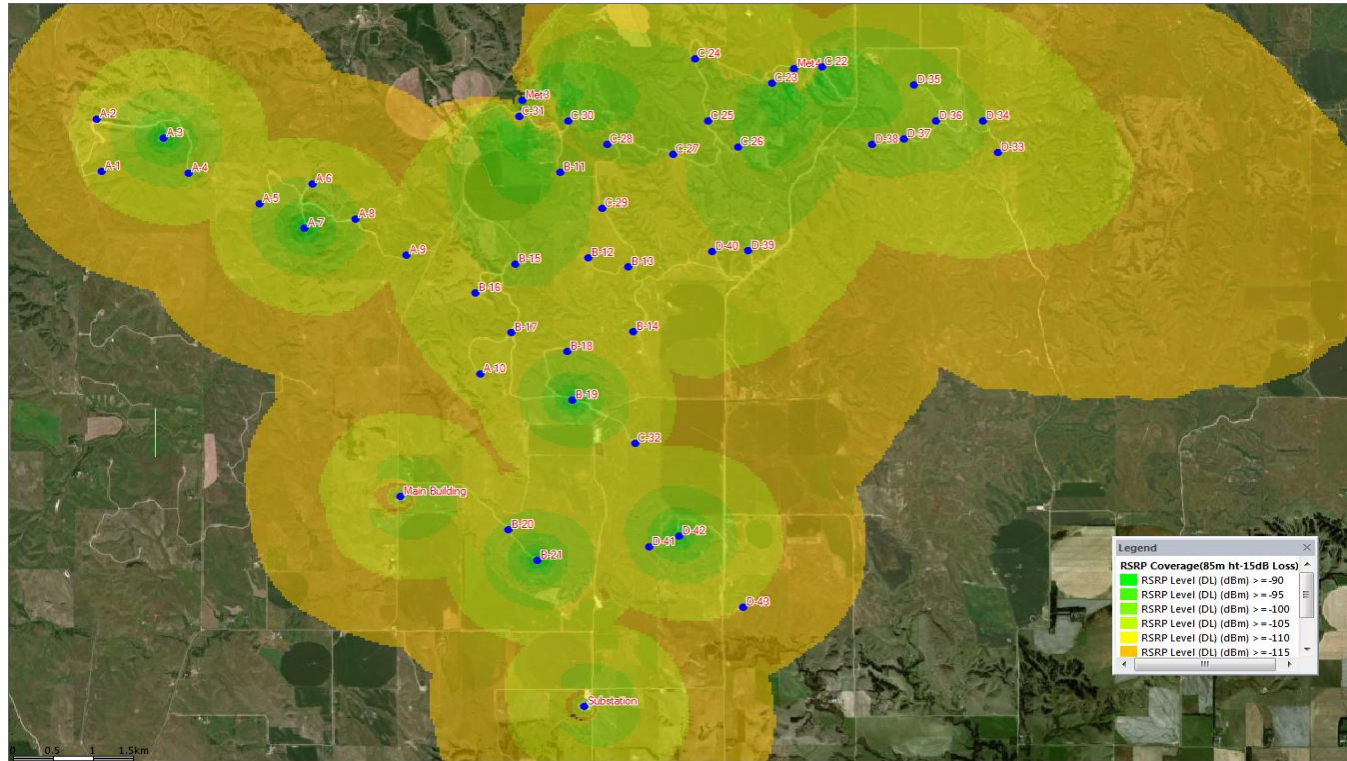
- Pitch bearings failing
- Turbine PLC only alarms when issue is critical
- Lack of granular data from pitch drive motors
- Repairs are expensive
 - Crane roll - \$100K+
 - Lower rotor to ground

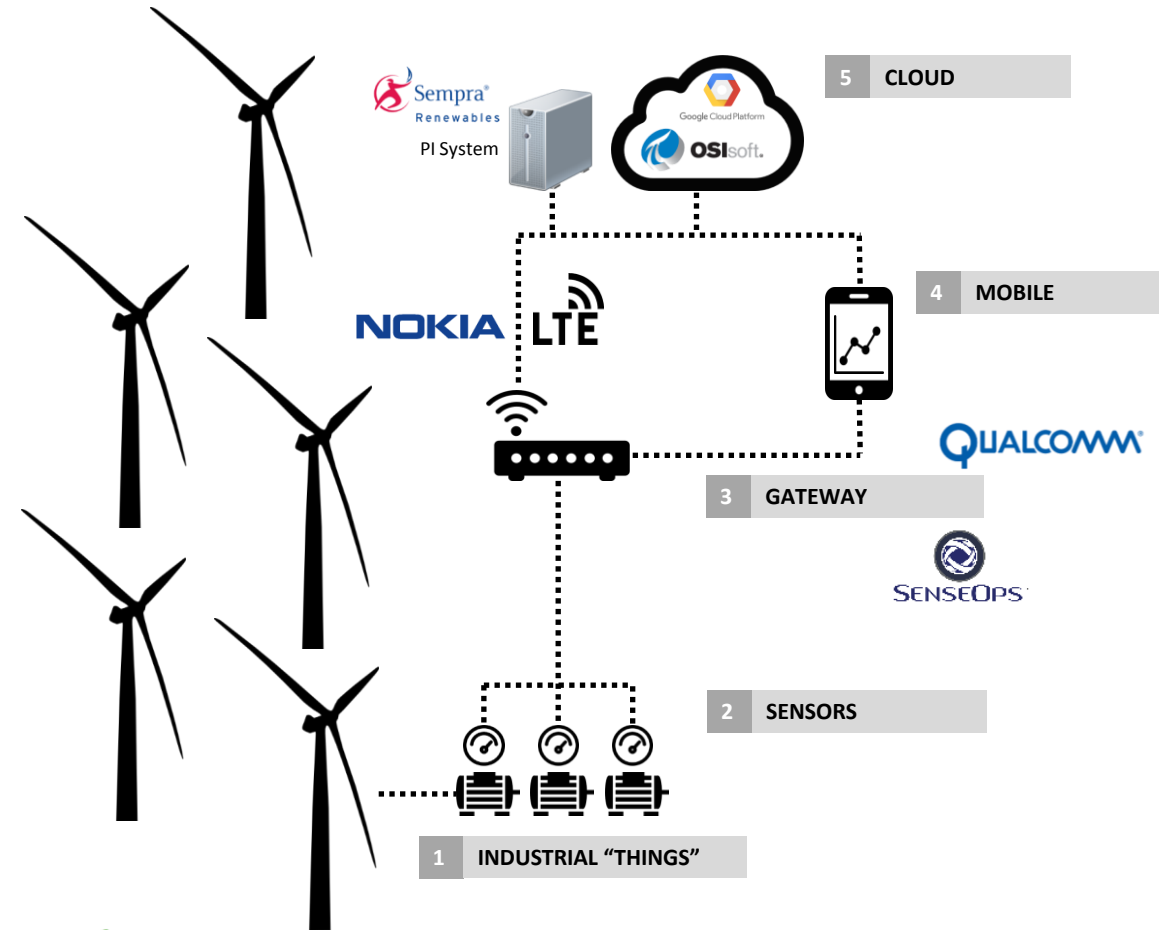
Resolution:

- SenseOps IIoT kit installed up-tower (1 hour)
- COTS CTs installed on each pitch motors (3)
- Collect, archive, communicate 100Hz data
- Qualcomm Snapdragon based LTE Gateway for secure connectivity and edge processing
- Ubiquitous connectivity with Nokia Private LTE mobile broadband network
- Integrate data with OSIsoft PI System in Google Cloud & Sempra HQ
- Average costs of preventative maintenance is \$4k

9 cell sites - Full Coverage of Wind Farm

43 Turbines – 40 square Miles





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Questions

Please wait for the **microphone** before asking your questions

State your **name & company**



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Merci

谢谢

Спасибо

Danke

Gracias

Thank You

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ありがとう

Grazie

Obrigado