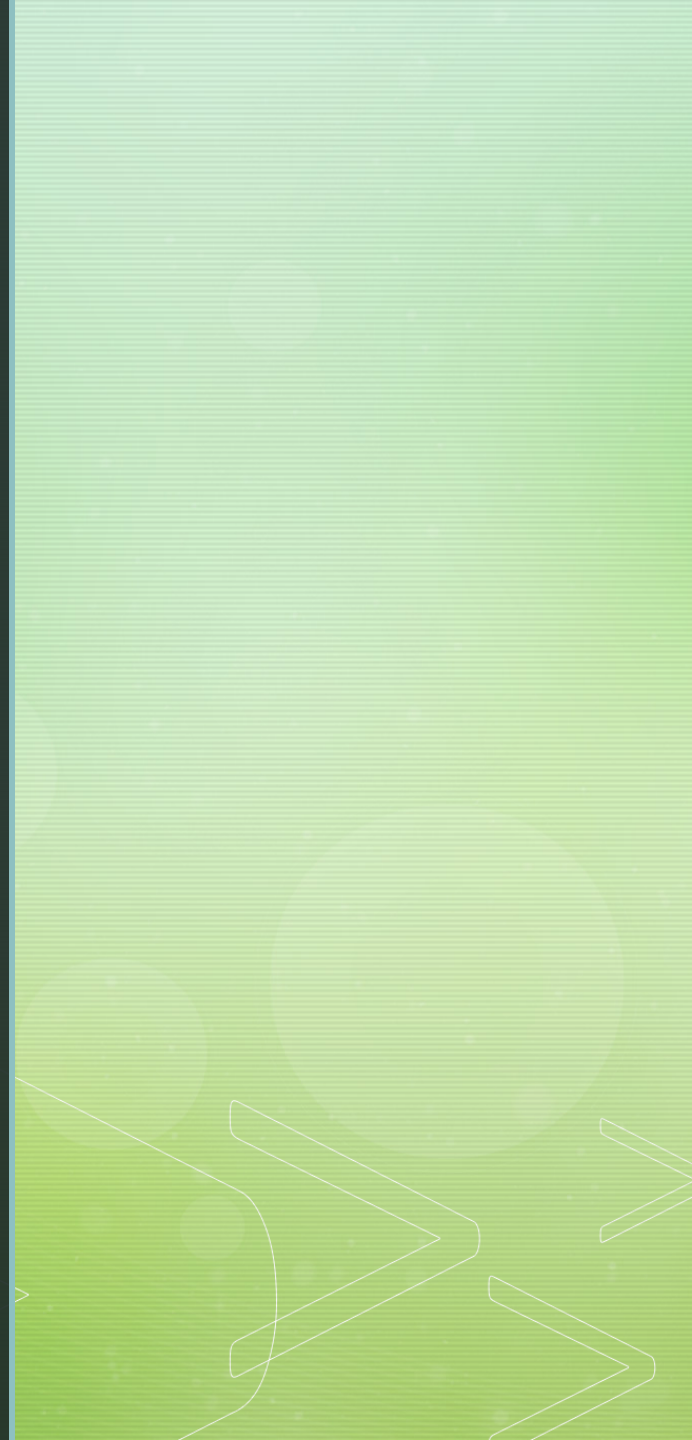


POWERPLANT SIM 2020

Chattanooga



Engineering Validation using Palo Verde Simulator



Retirement

- Why? Because I can, AND...
- Grandkids 6 hours away – 2 north, 2 south
- If I don't kill myself first...
- No Fly Zone, Gila Bend, Arizona



A bit of a bumpy ride

- From inside, doesn't seem all that different
- OEM Goodyears, fighting for traction
- Now have Pilot Sport 4S tires – much stickier
- Going under the knife on 1/31

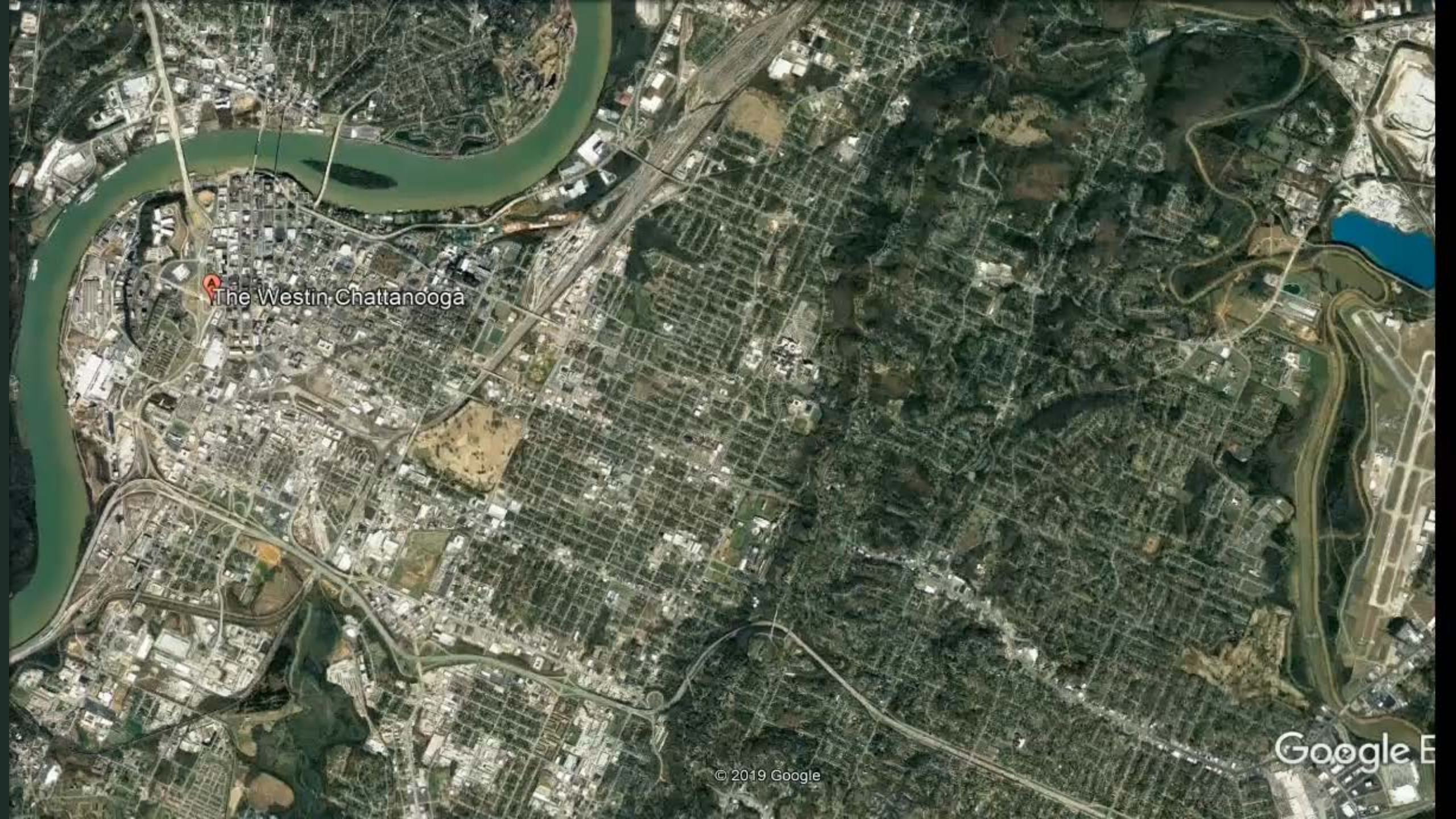


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Moving on to work, and Palo Verde

- Lets take a flight across country



 The Westin Chattanooga

About Palo Verde Generating Station

- Largest net generation site in U.S.
- 20 year extension in 2011
- About 2000 full time
- 3990 MWt
- One of a kind... for what?
- Only large nuclear not near large water source



More... the future

- Slowly down-sizing
- Waste water purchase secure – for now
- Among fastest growing area in nation
- Winter solar – California pays

Engineering request

- Reason is future Ovation install
- First step is DVC installs
- Concern was Valve Boosters
- No basis or known experience
- Charging, Letdown, Pressurizer Spray and Feedwater valves

Puzzler...

- You and best friend in foreign country get arrested, sentenced to death!!!
- Dictator gives chance to extend your lives
- Will flip coin in each prison cell, so you can each see one of the coins (head/tails)
- If EITHER of you correctly guesses combination, BOTH live another day
- Allows saying goodbye one last time
- Is there a way out, or are you soon dead?



Testing results

- Sim engineer used automated testing
- Significant time spent figuring out how
- Not at all clear how to do this

Testing results

- New DVC\VST TTP01,8-07-2019 13-21-33 vs VST TTP01,8-09-2019 09-47-37.docx
- New DVC\VST TTP01,8-07-2019 13-21-33 vs VST TTP01,8-13-2019 06-39-44.docx
- New DVC\VST TTP08,8-08-2019 05-38-54 vs VST TTP08,8-15-2019 08-34-12.docx



Puzzler answer

- You will always say other coin matches the one you see
- Friend will always say other coin is opposite of what friend sees



Summary

- Automated testing – significant time saving
- Simulators have become highly trusted
- Maybe too much?