

## RUNWITHIT SYNTHETICS LAUNCHES RWI HOLODECK AT CHESS EVENT APRIL 12<sup>th</sup>, 2022

### For Immediate Release

**WASHINGTON, DC — (April 29, 2022)** — RUNWITHIT Synthetics (RWI) announces the RWI Holodeck, its new 3D augmented intelligence simulation and data platform, launched in Washington, D.C., April 12 - 14th at an event organized by Orion Space Solutions made possible through the National Science Foundation. The Convergence Hub for the Exploration of Space Science (CHESS) workshop generated a new understanding of the complex Sun-to-Power Grid system by converging the range of involved experts in space science, geoscience, and power grids.

The event was organized into three days, covering a space weather-to-power grid simulation game with teams of data scientists, domain scientists, and engineers working together. The purpose was to identify and close gaps to make the North American grid resilient to space-weather-related failures as we move into a cycle of increased solar activity that can impact the electrical grid. Using the RWI Holodeck, RWI introduced Synthetic Washington D.C., its synthetic people, and infrastructure, including the grid, and walked through how overlaying the vulnerability of people and at-risk infrastructure identifies and quantifies locations and populations of impact and concern. RWI also incorporated data sets from scientific teams, visualizing grid impacts of space weather on a synthetic grid of the entire northeastern corridor of the United States and the atmospheric effects of space weather across the continental US.

"We designed this event based on a convergence approach to Sun-to-Power Grid resilience, recognizing that national-scale societal challenges require transdisciplinary collaboration and novel ways to facilitate it. So, we created a simulation game that enabled individuals from every part of the system to communicate, learn, and understand," says Dr. Ryan McGranaghan from Orion Space Solutions.

RWI creates living, digital models of regions, complete with people, lives and livelihoods, and infrastructure to support strategic decision-makers answering unprecedented questions around decarbonization and resilience. RWI's Synthetic Modeling Platform generates data from future scenarios and quantifies impacts and outcomes for people, infrastructure, and policies. The RWI Holodeck brings this data to life to create understandable, actionable insight. The RWI technologies served as a modelling, visualization, and data integration platform to support decisions and responses in the Sun-to-Power Grid community.

"The CHES initiative has been a unique experience in convergence of deep expertise and thought leadership that spans from the Sun to the electrical grid and includes experts from Orion, NSF, EPRI, NOAA, FEMA, NERC, NASA, USGS, UCLA, Georgia Tech, University of Michigan, Department of Energy, and Computational Physics. The backdrop of the Martin Luther King Memorial Library in Washington DC was a powerful reminder of the social and economic impacts and issues of space-weather-related grid outages modeled, measured, and visualized in the RWI Holodeck by the RWI team led by Sama Ahmed," noted Dean Bittner, Co-Founder. The workshop was a great way of connecting with other attendees in Washington. RWI had the opportunity to explore the gaps identified by the community, discuss ways to improve grid and human resilience and reflect on the lessons learned from the simulation game.

RWI's Holodeck is now offered as a delivery platform option for RWI's new and existing global clients, preparing for imaginable and unimaginable futures with augmented, compelling visualized decision support data.

## **About RUNWITHIT Synthetics**

RUNWITHIT Synthetics is a women-led, certified Aboriginal business that accelerates the design and de-risking of complex global systems. RWI creates synthetic models, living geospatial models of cities, citizens, activity, and infrastructure through the intersections of people, technology, and infrastructures like roadways and utilities. Limitless future scenarios are dialed forward to analyze, compare, validate, and quantify unexpected ripple effects and outcomes. RWI works with global leaders to get ahead of disruptive change. [www.rwisynthetics.com](http://www.rwisynthetics.com)

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