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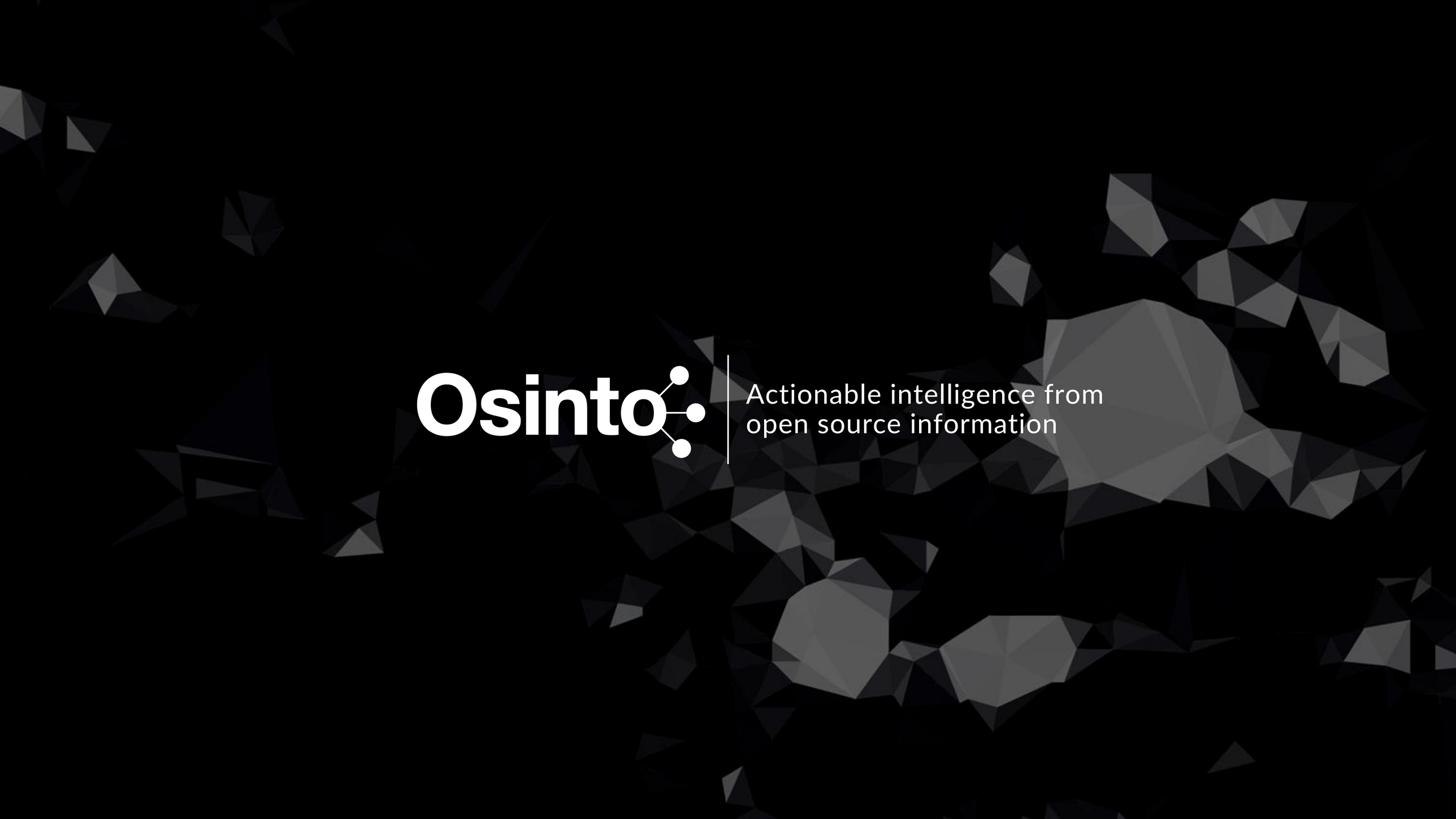
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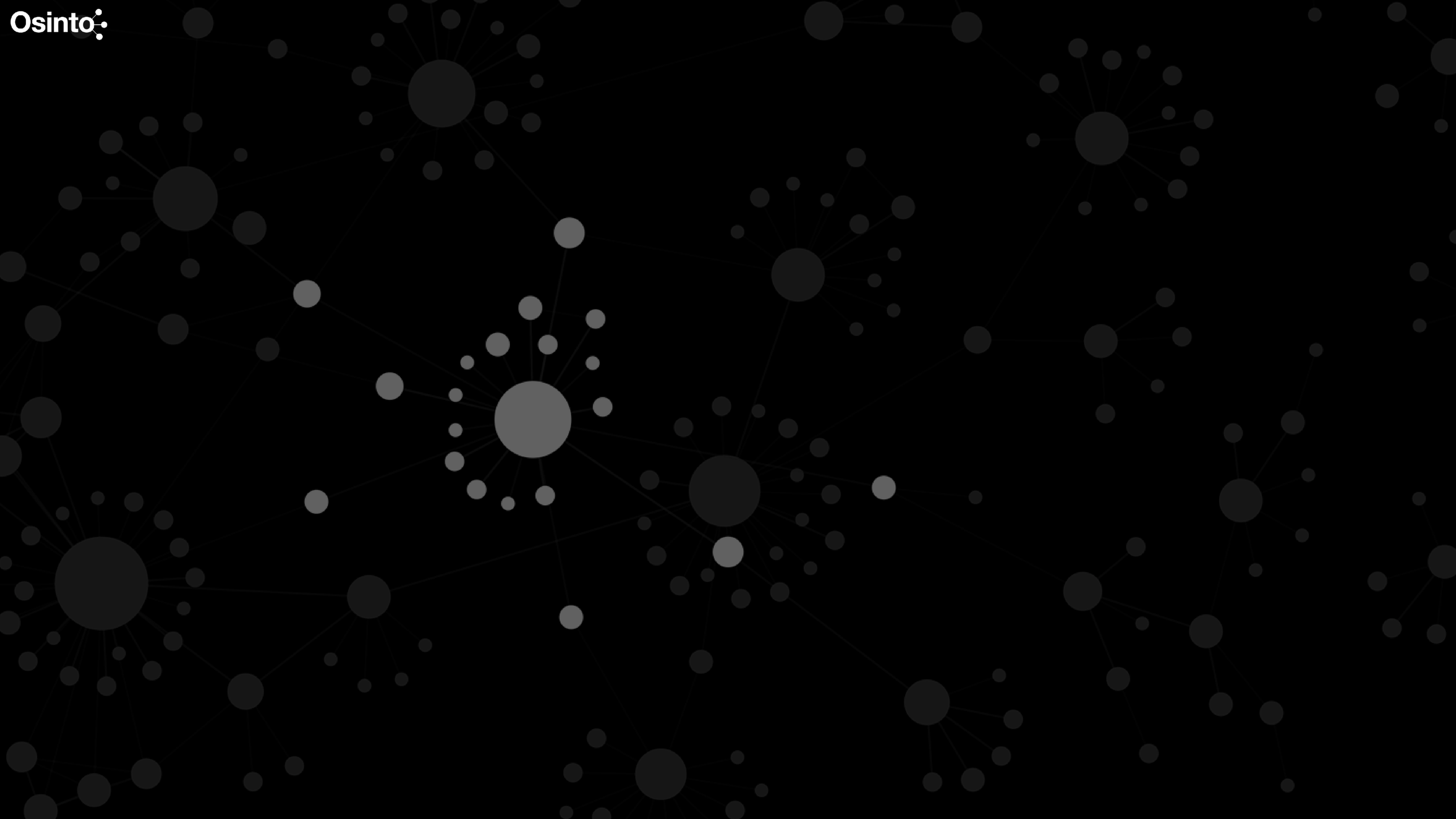
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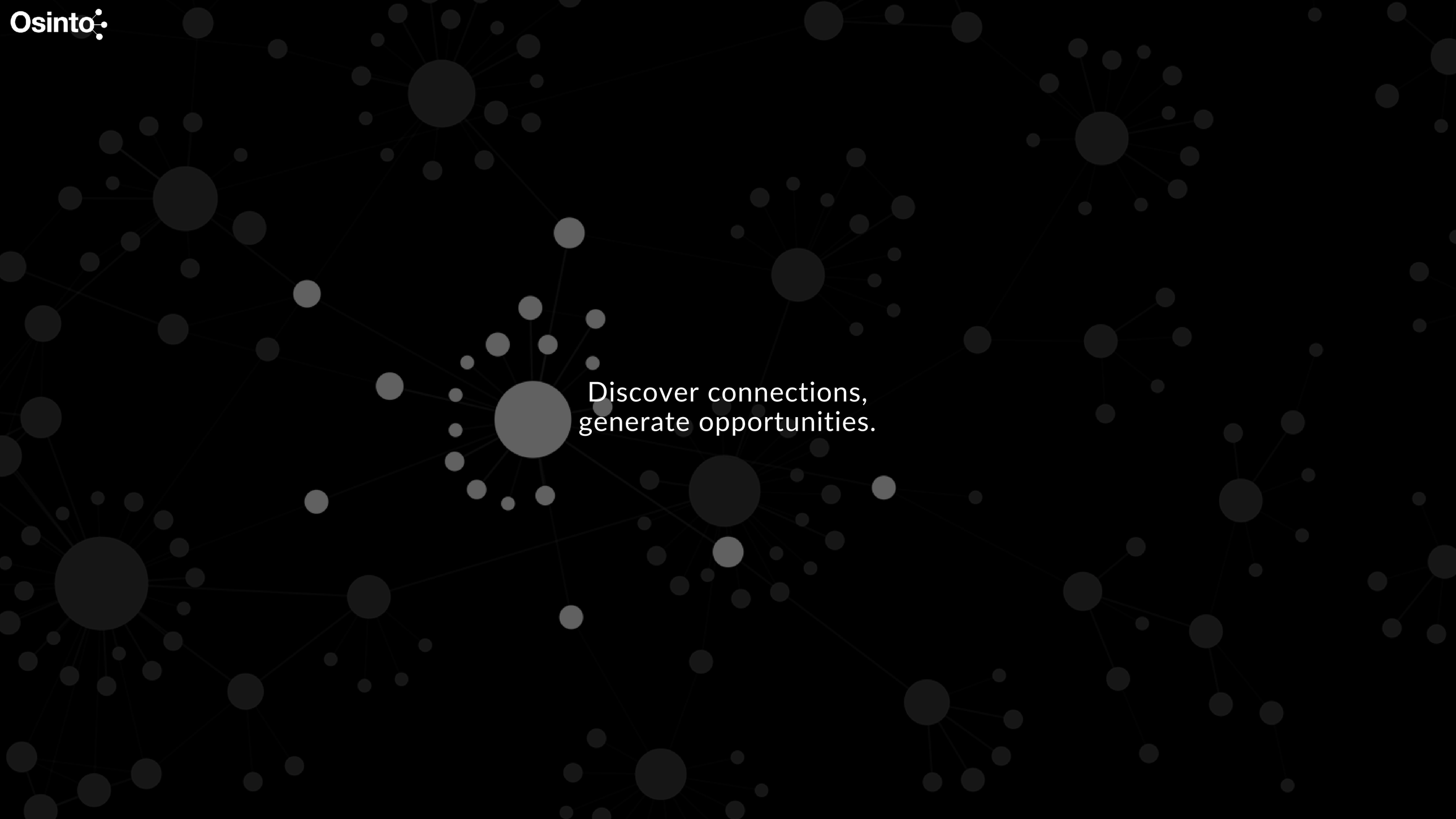

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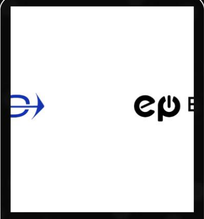
Cloud Empire™



27 January 2022

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08.25.21

EP Systems Flies on Embraer's All-Electric Flight Demonstrator EMB-203 Ipanema

Sao Paulo, Brazil; North Logan, UT, United States, August 18, 2021 – Electric Power Systems' battery system powered the successful first flight of Embraer's all-electric EMB-203 Ipanema last week. The testbed flights were conducted at Embraer's Gaviao Peixoto facility in Sao Paulo, Brazil.

This effort supports Embraer's recent commitment to reaching carbon neutral operations by 2040. The EMB-203 Ipanema is the first step in developing alternative propulsion technologies to passenger aircraft, and its results will guide the company's next steps in development.

Luis Carlos Affonso– Embraer's Senior Vice President of Engineering, Technology Development, and Corporate Strategy—stated the following.

"First flights are always emotional moments in our industry. This testbed will help develop knowledge about batteries, electric motors, thermal management, electric control systems, high voltage handling and safety of flight. That will then be applied to our future programs."

The Ipanema battery system is one of over a dozen all-electric and hybrid-electric flight demonstration aircraft Electric Power Systems batteries have flown on since 2019. Michael Duffy –Electric Power Systems' Vice President of Product—stated the following.

"EP Systems has been gaining more experience with each-and-every flight of our battery systems. We have taken this experience and knowledge and created the EPiC Ecosystem product line that can fit into almost any future electric aircraft because of its modularity and flexibility."

About Embraer

Embraer S.A. is an aerospace designer, manufacturer, and supplier based in Sao Paulo, Brazil. It focuses on serving the commercial, defense, executive, and agricultural sectors. It also provides aviation support services and parts.

Embraer is one of the largest and most prominent aerospace companies in the world, with its roots stemming back to the 1960s. Throughout the years, Embraer has established itself as a market-conscious, innovative, production-oriented force in the industry. It is most well-known for its implementation of advanced technology and its strategic partnerships with some of the industry's most robust players. Its Phenom 300 aircraft is currently the best-selling executive jet in the world. In 2017, EmbraerX was created to revolutionize urban air mobility by developing leading electric vertical takeoff and landing vehicles (eVTOLs).

About Electric Power Systems

Electric Power Systems (EP Systems) is a leading provider of high-power, scalable powertrains that are certifiable for electrified aviation. It develops energy storage systems, DC fast-charging stations, and electric propulsion products for Aerospace, Defense, Automotive, Marine, and Industrial Traction industries. EP Systems has numerous battery systems currently powering customer flight demonstrator vehicles (e.g., NASA X-57, Bell Nexus, Aurora Flight Sciences Pegasus, Embraer Ipanema, and Boeing CAV). Advanced features produce safer battery systems resulting in a perfect safety record in field. EP Systems is currently partnered with the FAA to certify batteries for general aviation aircraft and will complete its first TSO in early 2022.

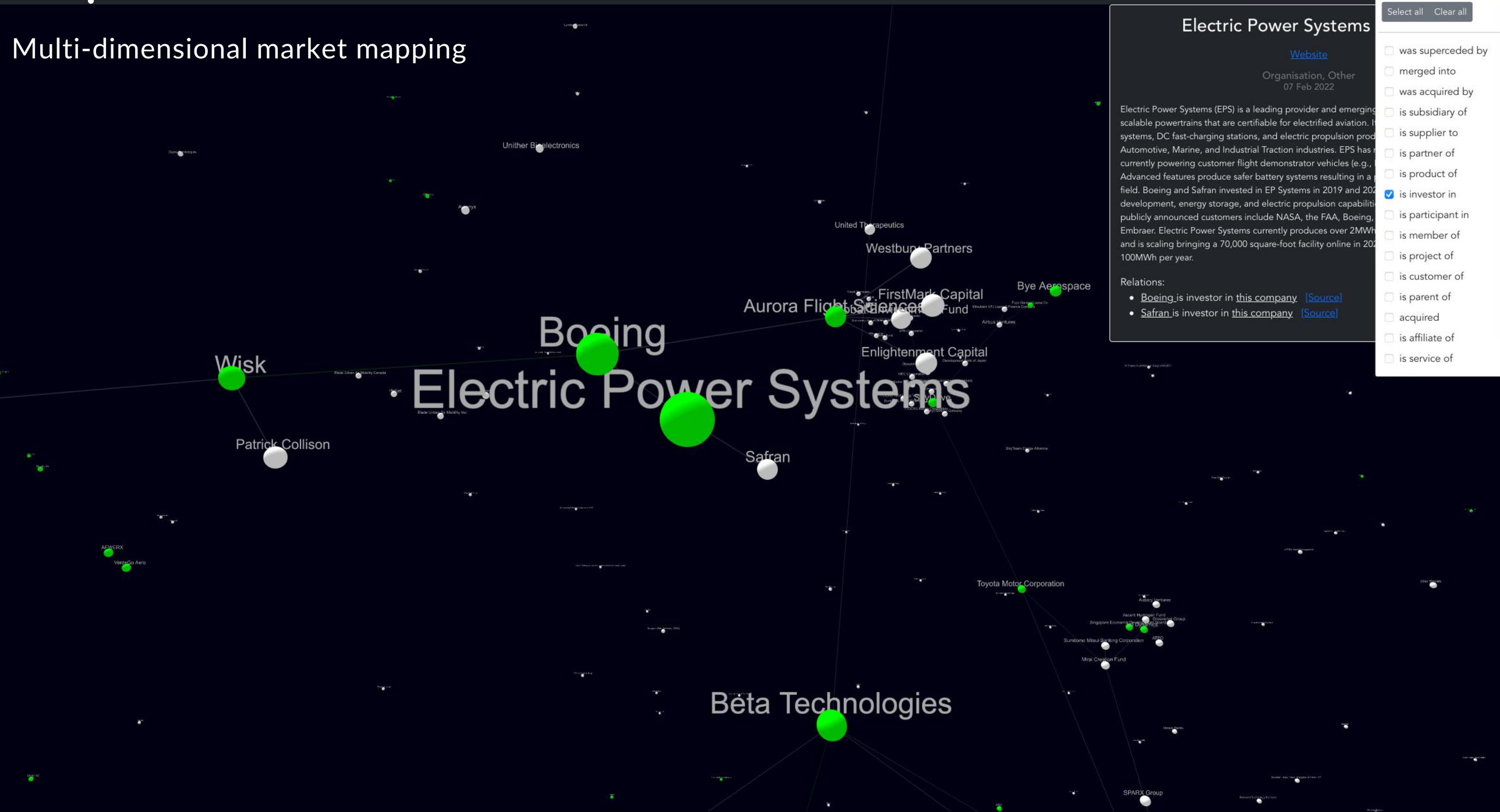
Boeing and Safran invested in EP Systems in 2019 and 2021 to enhance its research and development, energy storage, and electric propulsion capabilities. EP Systems' current, publicly announced customers include NASA, the FAA, Boeing, Safran, Bell Textron, and Embraer. Electric Power Systems currently produces over 2MWh of battery systems per year and is scaling bringing a 70,000 square-foot facility online in 2022, with production starting at 100MWh per year.

Contact

Grace McGuire

Map relationships

Multi-dimensional market mapping



Electric Power Systems

Website

Organisation, Other
07 Feb 2022

Electric Power Systems (EPS) is a leading provider and emerging scalable powertrains that are certifiable for electrified aviation. systems, DC fast-charging stations, and electric propulsion prod Automotive, Marine, and Industrial Traction industries. EPS has currently powering customer flight demonstrator vehicles (e.g., Advanced features produce safer battery systems resulting in a field. Boeing and Safran invested in EP Systems in 2019 and 202 development, energy storage, and electric propulsion capabiliti publicly announced customers include NASA, the FAA, Boeing, Embraer. Electric Power Systems currently produces over 2MWh and is scaling bringing a 70,000 square-foot facility online in 202 100MWh per year.

Relations:

- Boeing is investor in this company [Source]
- Safran is investor in this company [Source]

Select all Clear all

- [ ] was superceded by
- [ ] merged into
- [ ] was acquired by
- [ ] is subsidiary of
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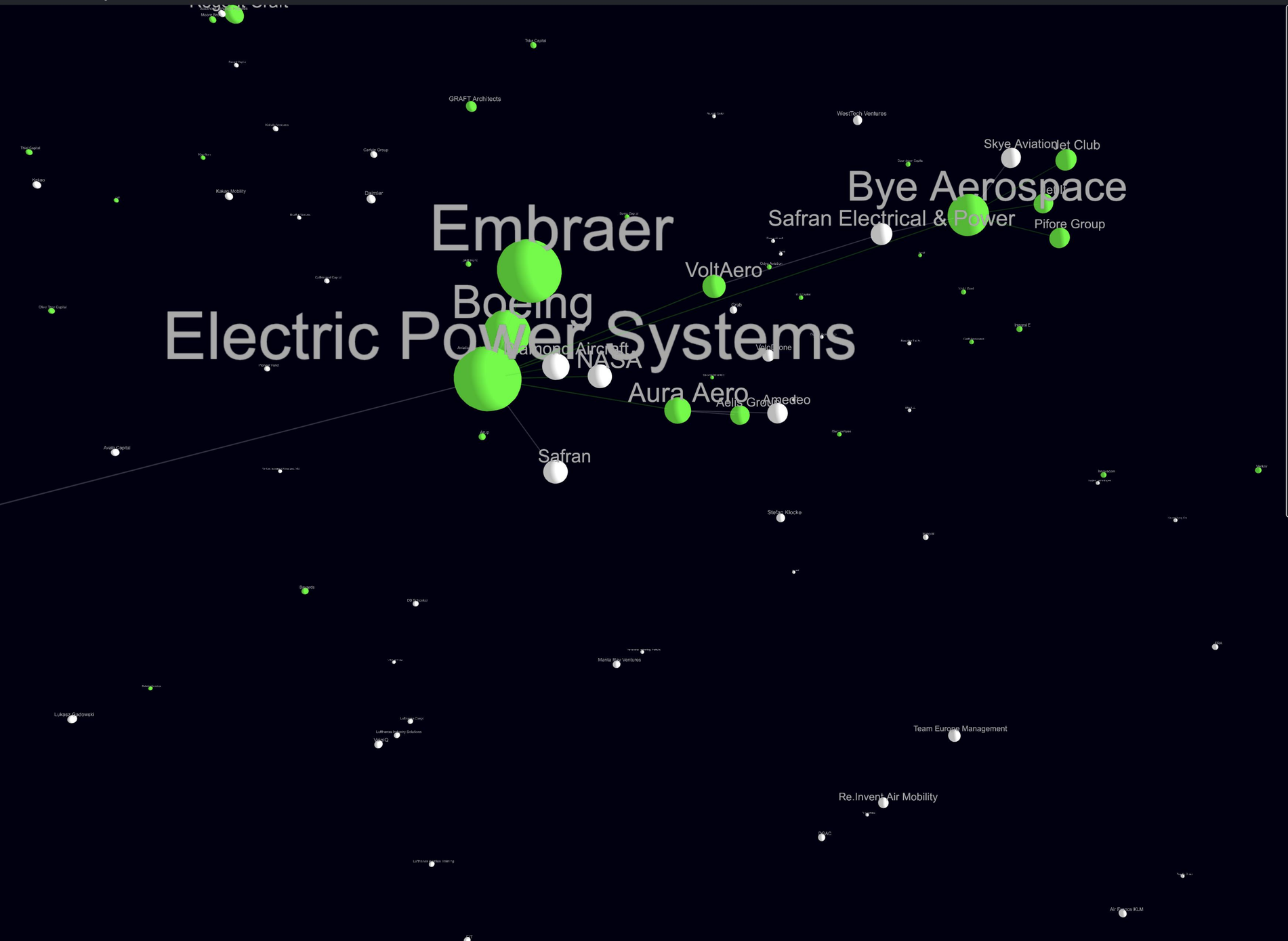

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Embraer. Electric Power Systems currently produces over 2MWh
and is scaling bringing a 70,000 square-foot facility online in 202
100MWh per year.

Relations:

- Archer Aviation is customer of this company [Sour
- Aura Aero is customer of this company [Source]
- Bye Aerospace is customer of this company [Sour
- Boeing is customer of this company [Source]
- Diamond Aircraft is customer of this company [Sou
- Embraer is customer of this company [Source]
- NASA is customer of this company [Source]
- Safran is customer of this company [Source]
- VoltAero is customer of this company [Source]

Select all Clear all

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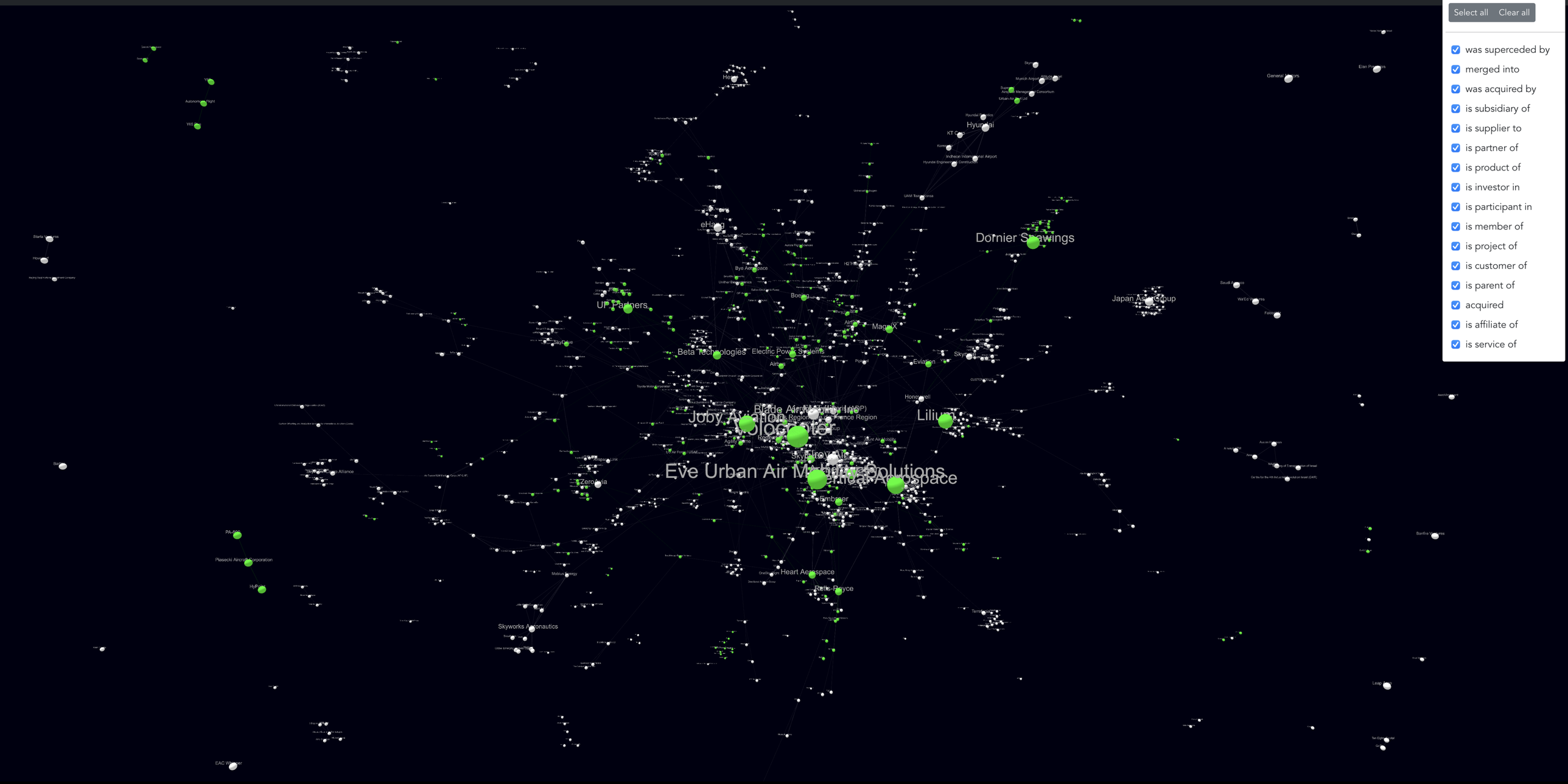
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is service of
Dornier Seawings
Hyundai
Japan Airlines Group
UP Partners
Beta Technologies
Electric Power Systems
MagniX
Eviation
Honeywell
Lilium
Joby Aviation
Blade Air Mobility
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Electric Aviation Knowledge Graph

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Explore connections

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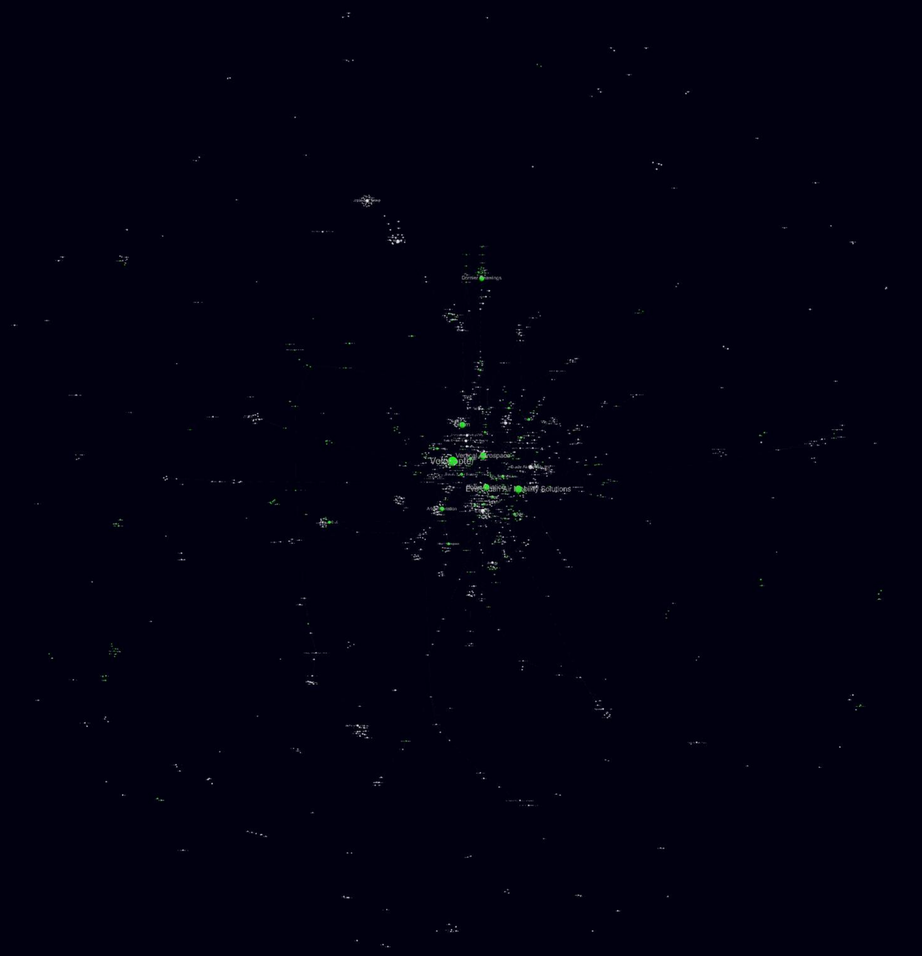

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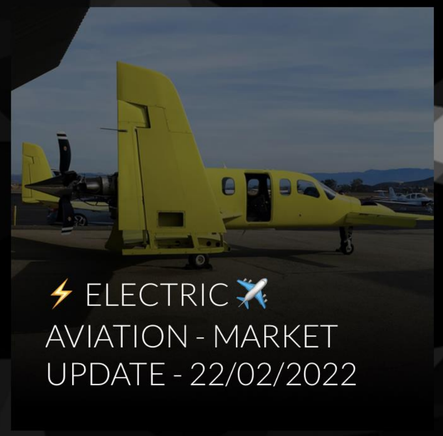
MARKET UPDATES



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⚡ ELECTRIC ✈️ AVIATION - MARKET UPDATE - 08/02/2022

⚡ ELECTRIC ✈️ AVIATION - MARKET UPDATE - 25/01/2022

⚡ ELECTRIC ✈️ AVIATION - MARKET UPDATE - 13/01/2022

⚡ ELECTRIC ✈️ AVIATION - MARKET UPDATE - 15/12/2021

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Osinto HQ • Dec 16, 2021 • 6 min read

⚡ ELECTRIC ✈️ AVIATION - MARKET UPDATE - 15/12/2021

VIDEO SUMMARY

EVTOL / ADVANCED / URBAN AIR MOBILITY (UAM / AAM)

- VERTICAL AEROSPACE
- AMPRIUS TECHNOLOGIES
- ANAQUA | ILIUM
- IDA IRELAND | VERTICAL AEROSPACE
- HANWHA E&C
- VOLOCOPTER
- FIRST RESONANCE | JOBY AVIATION
- TCAB TECH
- AUTOFLIGHT
- ELECTRIFIED AUTOMATION
- DORONI AEROSPACE

SMALL PROPELLER, COMMUTER (19-SEATS OR LESS)

- GARMIN | HEART AEROSPACE
- EVIATION
- BAE SYSTEMS
- FLIGHT DESIGN
- WINAIR

REGIONAL AIRCRAFT / MW+

- ALASKA AIRLINES | UNITED AIRLINES | ZEROAVIA
- DE HAVILLAND CANADA | ZEROAVIA
- ROLLS-ROYCE
- CONNECT AIRLINES | UNIVERSAL HYDROGEN
- AIRBUS
- GKN FOKKER AEROSTRUCTURES | JETSUPPORT | KLM ENGINEERING & MAINTENANCE | SAM XL | TORAY ADVACNED COMPOSITES | TU DELFT

EVTOL / ADVANCED / URBAN AIR MOBILITY (UAM / AAM)

VERTICAL AEROSPACE

Vertical Aerospace completed their SPAC merger with Broadstone Acquisition Corp and are set to trade on the New York Stock Exchange from tomorrow under the new ticker $EVTL. The company also unveiled a full-scale model of their upcoming VX4 aircraft in a virtual event (via Vertical Aerospace):

AMPRIUS TECHNOLOGIES

Silicon anode Li-ion battery specialists Amprius Technologies (whose investors include Google co-founder Eric Schmidt) claimed a breakthrough in fast-charging battery technology - 0 to 80% charge in six minutes. "*A Fortune 100 company*" is said the be "*sampling the technology.*" The company's cell specific energy of 370 Wh/kg will be targeted at "*...the rapidly growing EV market and into the broader electric-mobility markets, including micro-mobility and aviation.*" (via Amprius, FutureFlight).

ANAQUA | LILIUM

US Intellectual Property (IP) management specialists Anaqua signed a deal with Germany's Lilium that will see the company use their AQX platform to manage the eVTOL manufacturer's IP (via Globe Newswire).

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Remote-first founding team split between GB and UA

GB

Charles Osborne
Co-founder | Business Lead, UK

UA

Mykhailo ‘Mike’ Bevz
Co-founder | Technical Lead, UA

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GB UA


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Actionable intelligence from
open source information
+ aid to Ukraine