

THE BIG REVEAL

FEATURING FUTURIST **AMELIA KALLMAN**

Introduction

Welcome to the 35th edition of my innovation newsletter, The Big Reveal. You can also watch or listen on YouTube [here](#).

Recently I've enjoyed consulting for a multinational manufacturing company, as well as speaking on Post-Covid Trends, XR & the Future of Retail, and The New Metaverse. Join me 1-2 June for [ISE Digital](#) and view my keynote and interviews in the XR Summit Channel. Also 23-24 June at Evolution, London for ISE London.

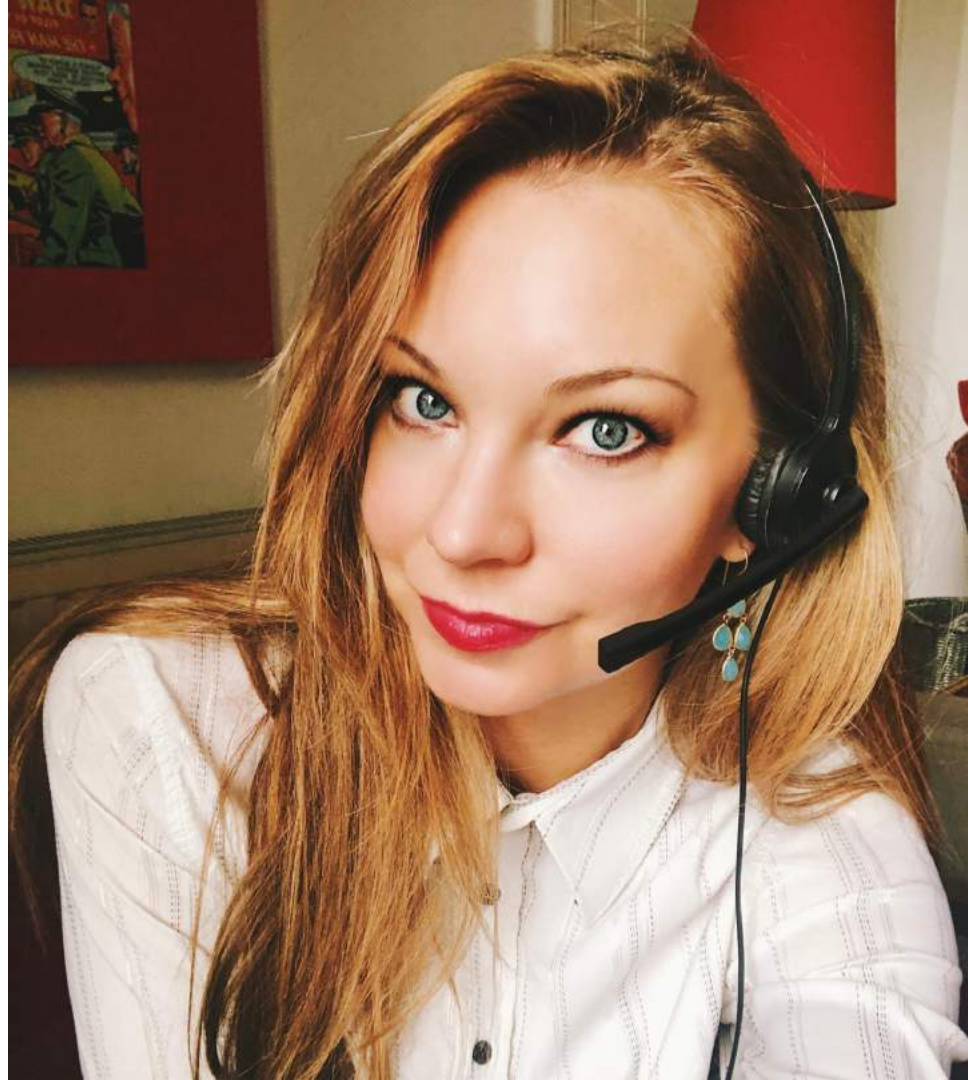
Check out my latest podcast episodes [here](#). In episode 4, we discuss the latest XR innovations and disruptors, and in episode 5, we talk V-Commerce and the future of retail.

Hope you enjoy, and please be in touch if you'd like to collaborate.

Thanks!

Amelia

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01 OVS

The Olympic Virtual Series (OVS) is the first-ever, Olympic-licensed esports tournament. Taking place 13 May - 23 June, the International Olympic Committee has pledged to include virtual sports from now on, hoping to attract younger audiences and promote Olympic engagement. It will include cycling, baseball, rowing, sailing, and motorsports. Football, basketball, taekwondo, and tennis organisations are also considering participation.

[Article](#)



02

Air Ninja

Tech inventor Hunter Kowald, aka the Air Ninja, has unveiled a fully-functional flying hoverboard that is science fiction come to life! Like a large-scale drone that you stand on, it uses downward-facing propellers, lifting up to 500 pounds. Designed with safety in mind, it has a custom carbon fiber structure, industrial-grade components, and an FAA-approved aircraft navigation lighting system. In the link below, he flies to his friend's house over the streets of LA.

[Watch.](#)



03 Moxie

Moxie is a device developed by NASA that generates oxygen from carbon dioxide in the thin Mars atmosphere. About the size of a car battery, Moxie adopts a tree breathing technique, inhaling carbon dioxide and exhaling oxygen. To support human life on the Red Planet, oxygen generators will need to be approximately 100 times larger, however, about the size of a household stove. It will also support round trip missions as rockets need about 25 tons of oxygen to liftoff, while the crew only needs about a ton for an entire mission.

[Article.](#)



Image by NASA/JPL-caltech

04 Energy Cards

A team at Georgia Tech has developed an energy-harvesting card that can turn 5G networks into wireless power grids. This 3D-printed rectifying antenna is the size of a playing card but can power long-range devices wirelessly using 5G signals. This could replace tens of millions of batteries of wireless sensors, especially for smart cities and smart agricultural applications. In the same way data overtook voice to become the key revenue generator for telecoms providers, on-demand wireless power will become the next significant service offering.

[Report.](#)



Image by Georgia Tech

05 Sova

SOVA is a wearable and eye-tracking medical device that helps patients in the ICU communicate their needs. SOVA includes a doctor's interface, a patient's interface, and wearable sensors. The sensors monitor the patient's brain activity and sleep patterns, while eye-tracking software allows patients to answer health-related questions. This seamless communication allows medical staff to act quickly and help patients out of discomfort and pain, shortening their overall stay and impact on a patient's mental health.

[Article](#)



06

KnitX

KnitX creates fabrics that respond to emotions, physical stimuli, and environmental conditions. By integrating fibers that are resistive, conductive, thermochromic, photochromic, and thermoplastic with traditional yarns, textiles become digital and reactive. Current explorations include cloth that functions like a musical instrument, backpacks that change color when exposed to UV light, and materials that can change shape on command. Clothes could become warmer or more breathable, reacting to temperatures and changing colour, shape, and style based on your mood.

[Article](#)



07

Obsbot Me

Obsbot Me is an AI-powered, auto-tracking phone mount designed for assisting selfies, vlogging, streaming, and video calls. The camera attached to the Obsbot me is a non-recording, wide-angle sensor that utilises AI to recognise gesture, track, and focus. It's lightweight, equipped with a universal joint and rotatable holder, and works with any app. Starting at \$79, it's available for pre-order now and shipping in June 2021.

[Kickstarter.](#)



Image by Obsbot Me

08

Pandora

Pandora, the world's most prominent jeweler, is phasing out mined diamonds to switch exclusively to lab-grown ones in response to consumer demand for sustainability and ethical sourcing. Lab-grown diamonds are produced in hot, pressurized chambers within weeks rather than formed over centuries. With the same chemical and physical characteristics as diamonds excavated from mines, they are created for a third of the mining price, reduce carbon footprint, and cost as little as one-tenth of the price of mined diamonds.

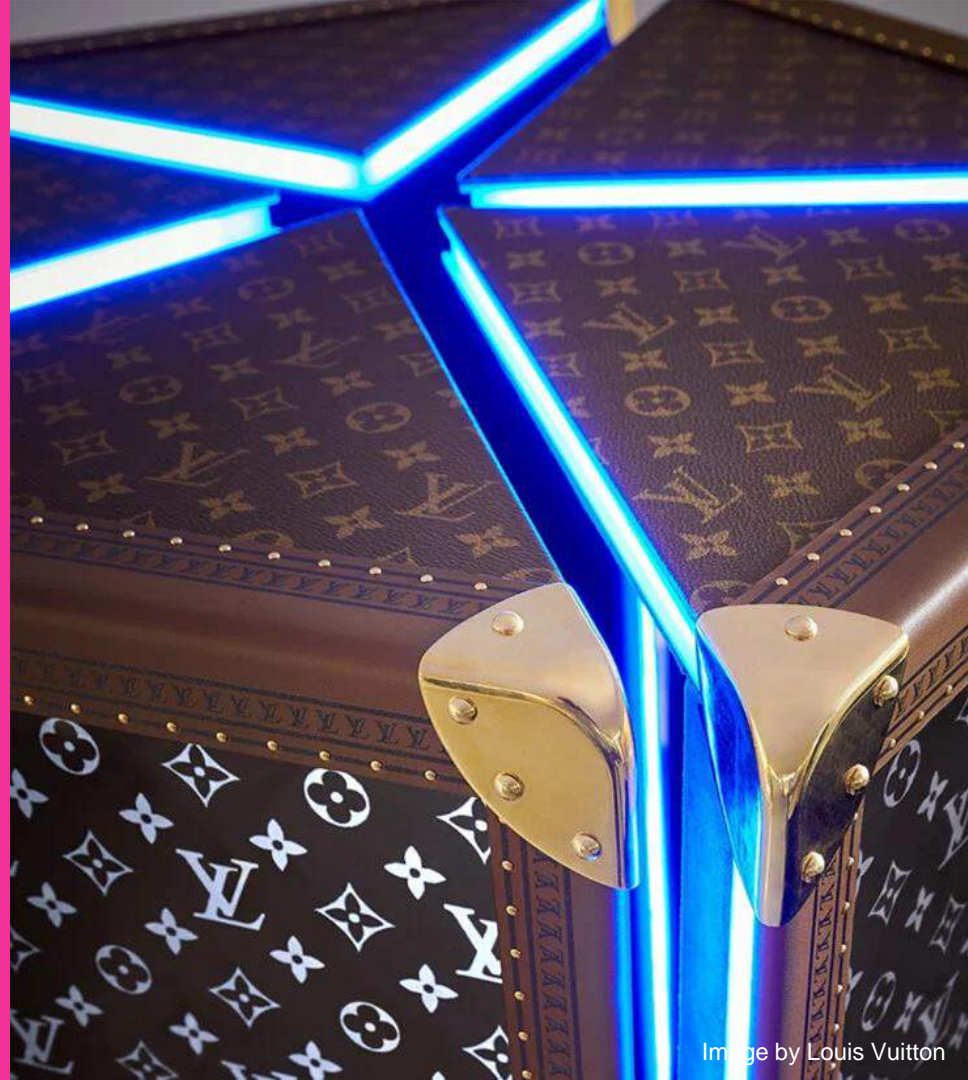
[Article.](#)



09 Aura

Prada, LVMH Moët Hennessy Louis Vuitton, and Cartier have formed the first global blockchain consortium, Aura. It makes it possible to track product history and proof of authenticity in a way that cannot be changed, tampered with, or hacked. However, blockchain, especially Bitcoin and NFTs, consumes vast amounts of energy, posing a significant threat to the environment. Government intervention and green solutions, such as solar or wind power, are necessary for this technology to become sustainable. Watch this short [video](#) to learn more.

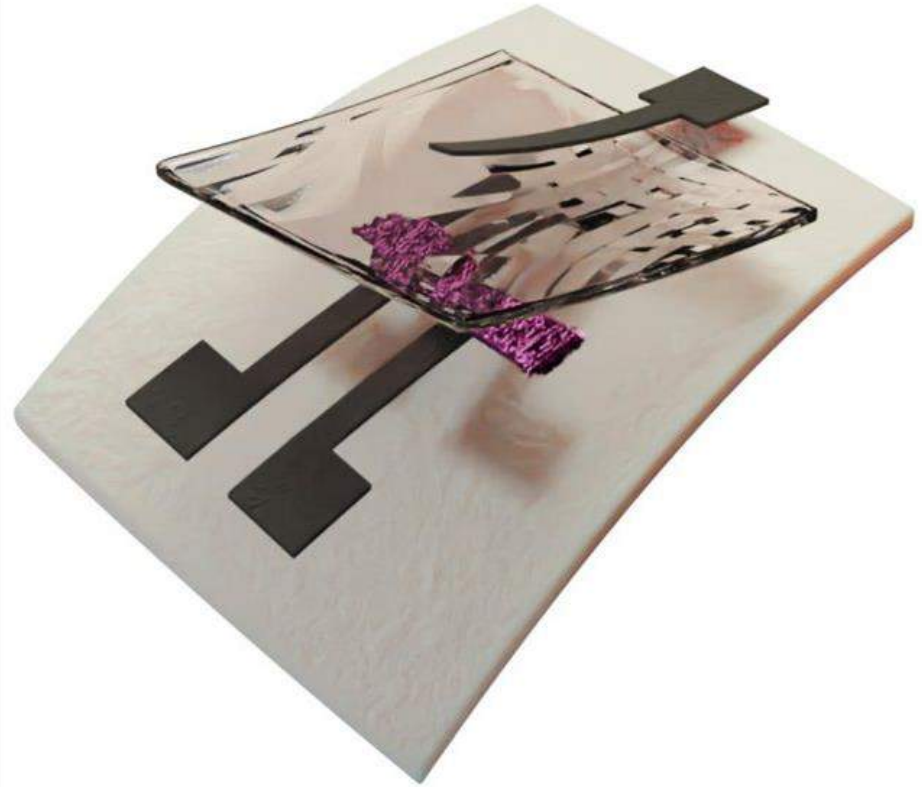
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10 Recyclable Electronics

Engineers at Duke University have developed the world's first fully recyclable, printed electronics. Creating complex and crucial parts like computer transistors, three carbon-based conductive inks are easily printed onto paper or other flexible, environmentally friendly surfaces. With only one-quarter of all electronics getting recycled, they hope this innovation will replace non-recyclable silicon chips while creating more sustainable, cost-effective supply chains in the future.

[Article](#)



Thank you

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The End

